

## **Appendix II-9-5**

### **Calculation Sheets of Annual Energy**

## Appendix II-9-5 Calculation Sheets of Annual Energy

### 1. Annual Energy of Expansion Based on the Study Results

Conditions used for energy calculation without and with expansion are as follows:

- a. Annual diversion volume at the Polgolla weir: 878 MCM on average
- b. Operation: 3-hour peak demand operation

Calculation sheets are shown in the following tables:

Table 1-1	Calculation of Annual Energy without Expansion Plant .....	page 2
Table 1-2	Calculation of Annual Energy with Expansion Plant.....	page 24

### 2. Annual Energy of Expansion in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir

This case means that annual diversion volume at the Polgolla weir increases to 1,270 MCM (refer to 9.6.2 (1)). Conditions used for energy calculation without and with expansion are as follows:

- a. Annual diversion volume at the Polgolla weir: 1,270 MCM on average
- b. Operation: 3-hour peak demand operation

Calculation sheets are shown in the following tables:

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### 3. Annual Energy of Expansion in Case Used as Base Demand Power Sources

This case means that the Victoria Hydropower Station after expansion is used for base demand power source (refer to 9.6.2 (2)). Conditions used for energy calculation without and with expansion are as follows:

- a. Annual diversion volume at the Polgolla weir: 878 MCM on average
- b. Operation: base and peak demand operation

Calculation sheets are shown in the following tables:

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**Table 1-1 Calculation of Annual Energy without Expansion Plant (1/22)**

Victoria Reservoir Ini	512240	Randenigala Reservoir Ini	860000	Peak hour	3	Normal WL add	415
Victoria Reservoir Max	722000	Randenigala Reservoir Max	860000	Max output	210	Normal WL exist	435
Vicotira Resv MOL	32000	Vicotira Resv MOL	5000	Max for expansion	0	tailwater level	varies
Peak hour	3	Firm plant discharge	140	Max Q for existing	123		
Victoria Energy	15,502,625	Randenigala Energy	0	Max Q for expansion	0		
Victoria Annual Energy	705	Average hours	9.176	Total Energy	15,502,625		
Dependable power	210,000	Average power	210	Firm Energy	230		

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillout or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1985	1	10	23,350	162.9	512,240	437.4			12,982	120	120	0	12,982	10	0	188	198	0.90	0.90	199,446	0	5,983		231	199,446	3
1985	1	10	23,350		522,608	428.3	3	0	13,009	120	120	0	13,009	10	0	188	198	0.90	0.90	200,556	0	6,017		231	200,556	3
1985	1	11	25,685		544,293	429.5	3	0	14,341	121	121	0	14,341	10	0	189	199	0.90	0.90	201,724	0	6,657		231	201,724	3
1985	2	10	10,684		541,927	429.8	3	0	13,050	121	121	0	13,050	10	0	189	199	0.90	0.90	202,221	0	6,067		231	202,221	3
1985	2	10	10,684		539,568	429.7	3	0	13,043	121	121	0	13,043	10	0	189	199	0.90	0.90	201,953	0	6,059		231	201,953	3
1985	2	8	8,547		537,685	429.5	3	0	10,430	121	121	0	10,430	10	0	189	199	0.90	0.90	201,737	0	4,842		231	201,737	3
1985	3	10	10,282		534,935	429.4	3	0	13,032	121	121	0	13,032	10	0	189	199	0.90	0.90	201,479	0	6,044		231	201,479	2
1985	3	10	10,282		532,193	429.2	3	0	13,024	121	121	0	13,024	10	0	189	199	0.90	0.90	201,182	0	6,035		231	201,182	2
1985	3	11	11,310		529,184	429.1	3	0	14,318	121	121	0	14,318	10	0	189	198	0.90	0.90	200,873	0	6,629		231	200,873	2
1985	4	10	10,461		526,635	428.9	3	0	13,009	120	120	0	13,009	10	0	188	198	0.90	0.90	200,573	0	6,017		231	200,573	2
1985	4	10	10,461		524,093	428.8	3	0	13,003	120	120	0	13,003	10	0	188	198	0.90	0.90	200,299	0	6,009		231	200,299	2
1985	4	10	10,461		521,558	428.6	3	0	12,996	120	120	0	12,996	10	0	188	198	0.90	0.90	200,026	0	6,001		231	200,026	2
1985	5	10	37,719		546,252	429.3	3	0	13,025	121	121	0	13,025	10	0	189	199	0.90	0.90	201,218	0	6,037		231	201,218	2
1985	5	10	37,719		570,887	430.5	3	0	13,083	121	121	0	13,083	10	0	190	200	0.90	0.90	203,603	0	6,108		231	203,603	2
1985	5	11	41,491		597,927	431.7	3	0	14,450	122	122	0	14,450	10	0	191	201	0.90	0.90	205,803	0	6,791		231	205,803	2
1985	6	10	263,393		722,000	435.2	24	34,389	104,932	121	121	0	139,321	10	0	195	204	0.91	0.90	210,000	0	50,400		231	210,000	2
1985	6	10	263,393		722,000	438.0	24	160,434	102,959	119	119	0	263,393	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1985	6	10	263,393		722,000	438.0	24	160,434	102,959	119	119	0	263,393	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1985	7	10	149,790		722,000	438.0	24	46,831	102,959	119	119	0	149,790	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1985	7	10	149,790		722,000	438.0	24	46,831	102,959	119	119	0	149,790	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1985	7	11	164,770		722,000	438.0	24	51,515	113,255	119	119	0	164,770	10	0	198	207	0.91	0.90	210,000	0	55,440		231	210,000	0
1985	8	10	54,328		716,478	437.9	14	0	59,851	119	119	0	59,851	10	0	198	207	0.91	0.90	210,000	0	29,274		231	210,000	0
1985	8	10	54,328		715,887	437.7	13	0	54,920	119	119	0	54,920	10	0	197	207	0.91	0.90	210,000	0	26,838		231	210,000	1
1985	8	11	59,761		715,225	437.7	13	0	60,423	119	119	0	60,423	10	0	197	207	0.91	0.90	210,000	0	29,522		231	210,000	1
1985	9	10	15,254		717,459	437.7	3	0	13,020	119	119	0	13,020	10	0	197	207	0.91	0.90	210,000	0	6,363		231	210,000	1
1985	9	10	15,254		719,701	437.8	3	0	13,012	119	119	0	13,012	10	0	198	207	0.91	0.90	210,000	0	6,363		231	210,000	1
1985	9	10	15,254		717,650	437.8	4	0	17,305	119	119	0	17,305	10	0	198	207	0.91	0.90	210,000	0	8,463		231	210,000	1
1985	10	10	73,317	1,629	715,345	437.7	17	0	73,993	119	119	0	73,993	10	0	197	207	0.91	0.90	210,000	0	36,162		231	210,000	1
1985	10	10	73,317	1,629	717,334	437.7	16	0	69,699	119	119	0	69,699	10	0	197	207	0.91	0.90	210,000	0	34,062		231	210,000	1
1985	10	11	80,649	1,792	714,789	437.7	17	0	81,402	119	119	0	81,402	10	0	197	207	0.91	0.90	210,000	0	39,778		231	210,000	1
1985	11	10	116,030		722,000	437.8	24	5,750	103,069	119	119	0	108,819	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	1
1985	11	10	116,030		722,000	438.0	24	13,070	102,960	119	119	0	116,030	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1985	11	10	116,030		722,000	438.0	24	13,070	102,960	119	119	0	116,030	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1985	12	10	43,204		716,085	437.9	11	0	49,120	119	119	0	49,120	10	0	198	207	0.91	0.90	210,000	0	24,024		231	210,000	0
1985	12	10	43,204		719,472	437.8	9	0	39,817	119	119	0	39,817	10	0	198	207	0.91	0.90	210,000	0	19,467		231	210,000	0
1985	12	11	47,525		715,872	437.8	11	0	51,124	119	119	0	51,124	10	0	198	207	0.91	0.90	210,000	0	24,994		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (2/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1986	1	10	127,931		722,000	437.9	24	18,751	103,052	119	119	0	121,803	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	1
1986	1	10	127,931		722,000	438.0	24	24,972	102,959	119	119	0	127,931	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1986	1	11	140,724		722,000	438.0	24	27,469	113,255	119	119	0	140,724	10	0	198	207	0.91	0.90	210,000	0	55,440		231	210,000	0
1986	2	10	53,419		716,817	437.9	14	0	58,603	119	119	0	58,603	10	0	198	207	0.91	0.90	210,000	0	28,665		231	210,000	0
1986	2	10	53,419		716,095	437.7	13	0	54,142	119	119	0	54,142	10	0	197	207	0.91	0.90	210,000	0	26,460		231	210,000	1
1986	2	8	42,736		718,967	437.8	12	0	39,863	119	119	0	39,863	10	0	198	207	0.91	0.90	210,000	0	19,488		231	210,000	1
1986	3	10	48,599		717,576	437.8	12	0	49,990	119	119	0	49,990	10	0	198	207	0.91	0.90	210,000	0	24,444		231	210,000	1
1986	3	10	48,599		716,164	437.8	12	0	50,011	119	119	0	50,011	10	0	197	207	0.91	0.90	210,000	0	24,444		231	210,000	1
1986	3	11	53,459		719,350	437.8	11	0	50,272	119	119	0	50,272	10	0	198	207	0.91	0.90	210,000	0	24,578		231	210,000	1
1986	4	10	69,899		716,793	437.8	17	0	72,455	119	119	0	72,455	10	0	198	207	0.91	0.90	210,000	0	35,427		231	210,000	1
1986	4	10	69,899		718,523	437.8	16	0	68,169	119	119	0	68,169	10	0	198	207	0.91	0.90	210,000	0	33,327		231	210,000	1
1986	4	10	69,899		715,949	437.8	17	0	72,473	119	119	0	72,473	10	0	197	207	0.91	0.90	210,000	0	35,427		231	210,000	1
1986	5	10	38,007		717,262	437.8	9	0	36,694	119	119	0	36,694	10	0	197	207	0.91	0.90	210,000	0	17,934		231	210,000	1
1986	5	10	38,007		718,589	437.8	9	0	36,680	119	119	0	36,680	10	0	198	207	0.91	0.90	210,000	0	17,934		231	210,000	1
1986	5	11	41,808		720,066	437.9	9	0	40,332	119	119	0	40,332	10	0	198	207	0.91	0.90	210,000	0	19,727		231	210,000	1
1986	6	10	20,416		718,801	437.9	5	0	21,681	119	119	0	21,681	10	0	198	207	0.91	0.90	210,000	0	10,605		231	210,000	1
1986	6	10	20,416		717,528	437.8	5	0	21,689	119	119	0	21,689	10	0	198	207	0.91	0.90	210,000	0	10,605		231	210,000	1
1986	6	10	20,416		720,554	437.9	4	0	17,389	119	119	0	17,389	10	0	198	207	0.91	0.90	210,000	0	8,505		231	210,000	1
1986	7	10	16,558		718,695	437.9	4	0	18,417	119	119	0	18,417	10	0	198	207	0.91	0.90	210,000	0	9,009		231	210,000	1
1986	7	10	16,558		721,130	437.9	3	0	14,123	119	119	0	14,123	10	0	198	207	0.91	0.90	210,000	0	6,909		231	210,000	1
1986	7	11	18,213		719,088	437.9	4	0	20,256	119	119	0	20,256	10	0	198	207	0.91	0.90	210,000	0	9,910		231	210,000	1
1986	8	10	59,256		719,264	437.9	14	0	59,079	119	119	0	59,079	10	0	198	207	0.91	0.90	210,000	0	28,896		231	210,000	1
1986	8	10	59,256		719,444	437.9	14	0	59,076	119	119	0	59,076	10	0	198	207	0.91	0.90	210,000	0	28,896		231	210,000	1
1986	8	11	65,181		714,874	437.8	15	0	69,751	119	119	0	69,751	10	0	197	207	0.91	0.90	210,000	0	34,096		231	210,000	1
1986	9	10	76,545		717,549	437.7	17	0	73,870	119	119	0	73,870	10	0	197	207	0.91	0.90	210,000	0	36,099		231	210,000	1
1986	9	10	76,545		715,939	437.8	18	0	78,155	119	119	0	78,155	10	0	197	207	0.91	0.90	210,000	0	38,199		231	210,000	1
1986	9	10	76,545		718,638	437.8	17	0	73,847	119	119	0	73,847	10	0	197	207	0.91	0.90	210,000	0	36,099		231	210,000	1
1986	10	10	135,124	1,629	722,000	437.9	24	27,123	103,010	119	119	0	130,133	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	1
1986	10	10	135,124	1,629	722,000	438.0	24	30,536	102,959	119	119	0	133,495	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1986	10	11	148,636	1,792	722,000	438.0	24	33,589	113,255	119	119	0	146,844	10	0	198	207	0.91	0.90	210,000	0	55,440		231	210,000	0
1986	11	10	84,377		717,255	437.9	21	0	89,122	119	119	0	89,122	10	0	198	207	0.91	0.90	210,000	0	43,596		231	210,000	0
1986	11	10	84,377		716,824	437.8	20	0	84,807	119	119	0	84,807	10	0	197	207	0.91	0.90	210,000	0	41,454		231	210,000	1
1986	11	10	84,377		716,383	437.8	20	0	84,818	119	119	0	84,818	10	0	197	207	0.91	0.90	210,000	0	41,454		231	210,000	1
1986	12	10	16,580		715,558	437.7	4	0	17,405	119	119	0	17,405	10	0	197	207	0.91	0.90	210,000	0	8,505		231	210,000	0
1986	12	10	16,580		715,461	437.7	4	0	16,677	119	119	0	16,677	10	0	197	207	0.91	0.90	210,000	0	8,148		231	210,000	0
1986	12	11	18,238		715,687	437.7	4	0	18,013	119	119	0	18,013	10	0	197	207	0.91	0.90	210,000	0	8,801		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (3/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1987	1	10	13,904		716,698	437.7	3	0	12,892	119	119	0	12,892	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1987	1	10	13,904		717,714	437.8	3	0	12,888	119	119	0	12,888	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1987	1	11	15,294		718,835	437.8	3	0	14,172	119	119	0	14,172	10	0	198	207	0.91	0.90	210,000	0	6,930		231	210,000	1
1987	2	10	5,969		711,909	437.7	3	0	12,895	119	119	0	12,895	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1987	2	10	5,969		704,956	437.4	3	0	12,922	120	120	0	12,922	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1987	2	8	4,775		699,374	437.1	3	0	10,357	120	120	0	10,357	10	0	197	206	0.91	0.90	210,000	0	5,040		231	210,000	1
1987	3	10	4,466		690,867	436.8	3	0	12,974	120	120	0	12,974	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1987	3	10	4,466		682,326	436.4	3	0	13,007	120	120	0	13,007	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1987	3	11	4,913		672,892	436.0	3	0	14,347	121	121	0	14,347	10	0	195	205	0.91	0.90	210,000	0	6,930		231	210,000	1
1987	4	10	10,969		670,795	435.7	3	0	13,066	121	121	0	13,066	10	0	195	205	0.91	0.90	210,000	0	6,300		231	210,000	1
1987	4	10	10,969		668,689	435.6	3	0	13,075	121	121	0	13,075	10	0	195	205	0.91	0.90	210,000	0	6,300		231	210,000	1
1987	4	10	10,969		666,574	435.5	3	0	13,084	121	121	0	13,084	10	0	195	205	0.91	0.90	210,000	0	6,300		231	210,000	1
1987	5	10	19,094		669,140	435.5	4	0	16,528	121	121	0	16,528	10	0	195	205	0.91	0.90	210,000	0	7,959		231	210,000	1
1987	5	10	19,094		671,720	435.6	4	0	16,515	121	121	0	16,515	10	0	195	205	0.91	0.90	210,000	0	7,959		231	210,000	1
1987	5	11	21,004		674,573	435.8	4	0	18,150	121	121	0	18,150	10	0	195	205	0.91	0.90	210,000	0	8,755		231	210,000	1
1987	6	10	24,935		677,978	435.9	5	0	21,530	121	121	0	21,530	10	0	195	205	0.91	0.90	210,000	0	10,395		231	210,000	1
1987	6	10	24,935		681,406	436.1	5	0	21,507	121	121	0	21,507	10	0	196	205	0.91	0.90	210,000	0	10,395		231	210,000	1
1987	6	10	24,935		684,856	436.2	5	0	21,484	121	121	0	21,484	10	0	196	206	0.91	0.90	210,000	0	10,395		231	210,000	1
1987	7	10	20,636		687,758	436.4	4	0	17,735	120	120	0	17,735	10	0	196	206	0.91	0.90	210,000	0	8,589		231	210,000	1
1987	7	10	20,636		690,674	436.5	4	0	17,719	120	120	0	17,719	10	0	196	206	0.91	0.90	210,000	0	8,589		231	210,000	1
1987	7	11	22,699		693,901	436.6	4	0	19,473	120	120	0	19,473	10	0	196	206	0.91	0.90	210,000	0	9,448		231	210,000	1
1987	8	10	24,770		697,440	436.8	5	0	21,230	120	120	0	21,230	10	0	196	206	0.91	0.90	210,000	0	10,311		231	210,000	1
1987	8	10	24,770		701,003	437.0	5	0	21,207	120	120	0	21,207	10	0	197	206	0.91	0.90	210,000	0	10,311		231	210,000	1
1987	8	11	27,247		704,948	437.1	5	0	23,301	120	120	0	23,301	10	0	197	206	0.91	0.90	210,000	0	11,342		231	210,000	1
1987	9	10	85,297		717,427	437.5	17	0	72,818	120	120	0	72,818	10	0	197	207	0.91	0.90	210,000	0	35,532		231	210,000	1
1987	9	10	85,297		717,150	437.8	20	0	85,574	119	119	0	85,574	10	0	197	207	0.91	0.90	210,000	0	41,832		231	210,000	1
1987	9	10	85,297		716,866	437.8	20	0	85,581	119	119	0	85,581	10	0	197	207	0.91	0.90	210,000	0	41,832		231	210,000	1
1987	10	10	130,856	1,629	722,000	437.9	24	21,056	103,037	119	119	0	124,093	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	1
1987	10	10	130,856	1,629	722,000	438.0	24	26,268	102,959	119	119	0	129,227	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1987	10	11	143,942	1,792	722,000	438.0	24	28,895	113,255	119	119	0	142,150	10	0	198	207	0.91	0.90	210,000	0	55,440		231	210,000	0
1987	11	10	88,971		717,909	437.9	22	0	93,062	119	119	0	93,062	10	0	198	207	0.91	0.90	210,000	0	45,528		231	210,000	0
1987	11	10	88,971		718,189	437.8	21	0	88,691	119	119	0	88,691	10	0	198	207	0.91	0.90	210,000	0	43,365		231	210,000	1
1987	11	10	88,971		718,476	437.8	21	0	88,683	119	119	0	88,683	10	0	198	207	0.91	0.90	210,000	0	43,365		231	210,000	1
1987	12	10	29,119		717,746	437.8	7	0	29,849	119	119	0	29,849	10	0	198	207	0.91	0.90	210,000	0	14,595		231	210,000	0
1987	12	10	29,119		717,614	437.8	7	0	29,252	119	119	0	29,252	10	0	198	207	0.91	0.90	210,000	0	14,301		231	210,000	0
1987	12	11	32,031		718,036	437.8	7	0	31,609	119	119	0	31,609	10	0	198	207	0.91	0.90	210,000	0	15,454		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (4/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1988	1	10	7,270		712,411	437.7	3	0	12,896	119	119	0	12,896	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1988	1	10	7,270		706,764	437.4	3	0	12,917	120	120	0	12,917	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1988	1	11	7,997		700,526	437.2	3	0	14,234	120	120	0	14,234	10	0	197	206	0.91	0.90	210,000	0	6,930		231	210,000	1
1988	2	10	5,950		693,511	436.9	3	0	12,966	120	120	0	12,966	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1988	2	10	5,950		686,467	436.5	3	0	12,994	120	120	0	12,994	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1988	2	9	5,355		680,104	436.2	3	0	11,718	121	121	0	11,718	10	0	196	206	0.91	0.90	210,000	0	5,670		231	210,000	1
1988	3	10	11,937		679,006	436.1	3	0	13,035	121	121	0	13,035	10	0	196	205	0.91	0.90	210,000	0	6,300		231	210,000	1
1988	3	10	11,937		677,903	436.0	3	0	13,039	121	121	0	13,039	10	0	195	205	0.91	0.90	210,000	0	6,300		231	210,000	1
1988	3	11	13,131		676,686	436.0	3	0	14,348	121	121	0	14,348	10	0	195	205	0.91	0.90	210,000	0	6,930		231	210,000	1
1988	4	10	45,329		682,957	436.1	9	0	39,058	121	121	0	39,058	10	0	196	205	0.91	0.90	210,000	0	18,879		231	210,000	1
1988	4	10	45,329		689,303	436.4	9	0	38,983	120	120	0	38,983	10	0	196	206	0.91	0.90	210,000	0	18,879		231	210,000	1
1988	4	10	45,329		695,724	436.7	9	0	38,909	120	120	0	38,909	10	0	196	206	0.91	0.90	210,000	0	18,879		231	210,000	1
1988	5	10	23,680		699,092	436.9	5	0	20,311	120	120	0	20,311	10	0	196	206	0.91	0.90	210,000	0	9,870		231	210,000	1
1988	5	10	23,680		702,482	437.0	5	0	20,290	120	120	0	20,290	10	0	197	206	0.91	0.90	210,000	0	9,870		231	210,000	1
1988	5	11	26,048		706,235	437.2	5	0	22,295	120	120	0	22,295	10	0	197	207	0.91	0.90	210,000	0	10,857		231	210,000	1
1988	6	10	27,487		710,246	437.4	5	0	23,476	120	120	0	23,476	10	0	197	207	0.91	0.90	210,000	0	11,445		231	210,000	1
1988	6	10	27,487		714,285	437.6	5	0	23,448	120	120	0	23,448	10	0	197	207	0.91	0.90	210,000	0	11,445		231	210,000	1
1988	6	10	27,487		718,353	437.7	5	0	23,419	119	119	0	23,419	10	0	197	207	0.91	0.90	210,000	0	11,445		231	210,000	1
1988	7	10	82,222		717,638	437.8	19	0	82,937	119	119	0	82,937	10	0	198	207	0.91	0.90	210,000	0	40,551		231	210,000	1
1988	7	10	82,222		716,905	437.8	19	0	82,954	119	119	0	82,954	10	0	197	207	0.91	0.90	210,000	0	40,551		231	210,000	1
1988	7	11	90,444		716,078	437.7	19	0	91,271	119	119	0	91,271	10	0	197	207	0.91	0.90	210,000	0	44,606		231	210,000	1
1988	8	10	104,253		717,211	437.8	24	0	103,120	119	119	0	103,120	10	0	197	207	0.91	0.90	210,000	0	50,400		231	210,000	1
1988	8	10	104,253		718,380	437.8	24	0	103,085	119	119	0	103,085	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	1
1988	8	11	114,679		719,707	437.9	24	0	113,352	119	119	0	113,352	10	0	198	207	0.91	0.90	210,000	0	55,440		231	210,000	1
1988	9	10	132,277		722,000	437.9	24	26,990	102,994	119	119	0	129,984	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	1
1988	9	10	132,277		722,000	438.0	24	29,318	102,959	119	119	0	132,277	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1988	9	10	132,277		722,000	438.0	24	29,318	102,959	119	119	0	132,277	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1988	10	10	65,049	1,629	718,549	437.9	16	0	66,871	119	119	0	66,871	10	0	198	207	0.91	0.90	210,000	0	32,718		231	210,000	0
1988	10	10	65,049	1,629	719,366	437.9	15	0	62,604	119	119	0	62,604	10	0	198	207	0.91	0.90	210,000	0	30,618		231	210,000	1
1988	10	11	71,554	1,792	715,509	437.8	16	0	73,620	119	119	0	73,620	10	0	197	207	0.91	0.90	210,000	0	35,990		231	210,000	1
1988	11	10	86,527		715,340	437.7	20	0	86,696	119	119	0	86,696	10	0	197	207	0.91	0.90	210,000	0	42,357		231	210,000	1
1988	11	10	86,527		715,167	437.7	20	0	86,700	119	119	0	86,700	10	0	197	207	0.91	0.90	210,000	0	42,357		231	210,000	1
1988	11	10	86,527		714,989	437.7	20	0	86,705	119	119	0	86,705	10	0	197	207	0.91	0.90	210,000	0	42,357		231	210,000	1
1988	12	10	30,885		717,469	437.7	7	0	28,405	119	119	0	28,405	10	0	197	207	0.91	0.90	210,000	0	13,881		231	210,000	0
1988	12	10	30,885		717,856	437.8	7	0	30,498	119	119	0	30,498	10	0	198	207	0.91	0.90	210,000	0	14,910		231	210,000	0
1988	12	11	33,973		718,381	437.8	7	0	33,448	119	119	0	33,448	10	0	198	207	0.91	0.90	210,000	0	16,355		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (5/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1989	1	10	28,719		718,326	437.8	7	0	28,774	119	119	0	28,774	10	0	198	207	0.91	0.90	210,000	0	14,070		231	210,000	1
1989	1	10	28,719		718,270	437.8	7	0	28,774	119	119	0	28,774	10	0	198	207	0.91	0.90	210,000	0	14,070		231	210,000	1
1989	1	11	31,590		718,209	437.8	7	0	31,652	119	119	0	31,652	10	0	198	207	0.91	0.90	210,000	0	15,477		231	210,000	1
1989	2	10	7,891		713,206	437.7	3	0	12,894	119	119	0	12,894	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1989	2	10	7,891		708,183	437.5	3	0	12,913	120	120	0	12,913	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1989	2	8	6,313		704,152	437.3	3	0	10,344	120	120	0	10,344	10	0	197	207	0.91	0.90	210,000	0	5,040		231	210,000	1
1989	3	10	5,596		696,796	437.0	3	0	12,953	120	120	0	12,953	10	0	197	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1989	3	10	5,596		689,410	436.7	3	0	12,982	120	120	0	12,982	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1989	3	11	6,156		681,253	436.3	3	0	14,313	120	120	0	14,313	10	0	196	206	0.91	0.90	210,000	0	6,930		231	210,000	1
1989	4	10	6,725		674,937	436.0	3	0	13,041	121	121	0	13,041	10	0	195	205	0.91	0.90	210,000	0	6,300		231	210,000	1
1989	4	10	6,725		668,595	435.7	3	0	13,067	121	121	0	13,067	10	0	195	205	0.91	0.90	210,000	0	6,300		231	210,000	1
1989	4	10	6,725		662,227	435.4	3	0	13,093	121	121	0	13,093	10	0	195	205	0.91	0.90	210,000	0	6,300		231	210,000	1
1989	5	10	24,039		665,437	435.3	5	0	20,829	121	121	0	20,829	10	0	195	205	0.91	0.90	210,000	0	10,017		231	210,000	1
1989	5	10	24,039		668,668	435.5	5	0	20,807	121	121	0	20,807	10	0	195	205	0.91	0.90	210,000	0	10,017		231	210,000	1
1989	5	11	26,442		672,248	435.6	5	0	22,863	121	121	0	22,863	10	0	195	205	0.91	0.90	210,000	0	11,019		231	210,000	1
1989	6	10	113,150		687,868	436.1	22	0	97,530	121	121	0	97,530	10	0	196	205	0.91	0.90	210,000	0	47,145		231	210,000	1
1989	6	10	113,150		703,955	436.8	22	0	97,062	120	120	0	97,062	10	0	196	206	0.91	0.90	210,000	0	47,145		231	210,000	1
1989	6	10	113,150		716,149	437.5	23	0	100,955	120	120	0	100,955	10	0	197	207	0.91	0.90	210,000	0	49,245		231	210,000	1
1989	7	10	203,583		722,000	437.9	24	94,685	103,048	119	119	0	197,732	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	1
1989	7	10	203,583		722,000	438.0	24	100,624	102,959	119	119	0	203,583	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1989	7	11	223,941		722,000	438.0	24	110,686	113,255	119	119	0	223,941	10	0	198	207	0.91	0.90	210,000	0	55,440		231	210,000	0
1989	8	10	98,521		717,495	437.9	24	0	103,026	119	119	0	103,026	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1989	8	10	98,521		714,813	437.7	24	0	101,202	119	119	0	101,202	10	0	197	207	0.91	0.90	210,000	0	49,455		231	210,000	1
1989	8	11	108,373		716,576	437.7	23	0	106,610	119	119	0	106,610	10	0	197	207	0.91	0.90	210,000	0	52,090		231	210,000	1
1989	9	10	82,489		715,827	437.7	19	0	83,238	119	119	0	83,238	10	0	197	207	0.91	0.90	210,000	0	40,677		231	210,000	1
1989	9	10	82,489		715,058	437.7	19	0	83,257	119	119	0	83,257	10	0	197	207	0.91	0.90	210,000	0	40,677		231	210,000	1
1989	9	10	82,489		718,620	437.8	18	0	78,926	119	119	0	78,926	10	0	197	207	0.91	0.90	210,000	0	38,577		231	210,000	1
1989	10	10	72,959	1,629	716,279	437.8	17	0	73,671	119	119	0	73,671	10	0	197	207	0.91	0.90	210,000	0	36,015		231	210,000	1
1989	10	10	72,959	1,629	718,229	437.8	16	0	69,380	119	119	0	69,380	10	0	197	207	0.91	0.90	210,000	0	33,915		231	210,000	1
1989	10	11	80,255	1,792	715,641	437.8	17	0	81,051	119	119	0	81,051	10	0	197	207	0.91	0.90	210,000	0	39,616		231	210,000	1
1989	11	10	139,297		722,000	437.9	24	29,883	103,055	119	119	0	132,938	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	1
1989	11	10	139,297		722,000	438.0	24	36,338	102,959	119	119	0	139,297	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1989	11	10	139,297		722,000	438.0	24	36,338	102,959	119	119	0	139,297	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1989	12	10	38,341		719,659	437.9	9	0	40,683	119	119	0	40,683	10	0	198	207	0.91	0.90	210,000	0	19,908		231	210,000	0
1989	12	10	38,341		719,319	437.9	9	0	38,681	119	119	0	38,681	10	0	198	207	0.91	0.90	210,000	0	18,921		231	210,000	0
1989	12	11	42,176		719,796	437.9	9	0	41,698	119	119	0	41,698	10	0	198	207	0.91	0.90	210,000	0	20,397		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (6/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1990	1	10	67,414		716,865	437.8	16	0	70,345	119	119	0	70,345	10	0	198	207	0.91	0.90	210,000	0	34,398		231	210,000	1
1990	1	10	67,414		718,212	437.8	15	0	66,066	119	119	0	66,066	10	0	198	207	0.91	0.90	210,000	0	32,298		231	210,000	1
1990	1	11	74,155		714,948	437.8	16	0	77,420	119	119	0	77,420	10	0	197	207	0.91	0.90	210,000	0	37,838		231	210,000	1
1990	2	10	18,535		717,669	437.7	4	0	15,814	119	119	0	15,814	10	0	197	207	0.91	0.90	210,000	0	7,728		231	210,000	1
1990	2	10	18,535		720,403	437.9	4	0	15,801	119	119	0	15,801	10	0	198	207	0.91	0.90	210,000	0	7,728		231	210,000	1
1990	2	8	14,828		719,159	437.9	5	0	16,072	119	119	0	16,072	10	0	198	207	0.91	0.90	210,000	0	7,862		231	210,000	1
1990	3	10	15,020		721,303	437.9	3	0	12,877	119	119	0	12,877	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1990	3	10	15,020		719,154	437.9	4	0	17,169	119	119	0	17,169	10	0	198	207	0.91	0.90	210,000	0	8,400		231	210,000	1
1990	3	11	16,522		716,777	437.8	4	0	18,898	119	119	0	18,898	10	0	198	207	0.91	0.90	210,000	0	9,240		231	210,000	1
1990	4	10	6,031		709,905	437.6	3	0	12,903	119	119	0	12,903	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1990	4	10	6,031		703,007	437.3	3	0	12,929	120	120	0	12,929	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1990	4	10	6,031		696,081	437.0	3	0	12,956	120	120	0	12,956	10	0	197	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1990	5	10	38,100		701,524	436.9	8	0	32,657	120	120	0	32,657	10	0	197	206	0.91	0.90	210,000	0	15,876		231	210,000	1
1990	5	10	38,100		707,021	437.2	8	0	32,603	120	120	0	32,603	10	0	197	207	0.91	0.90	210,000	0	15,876		231	210,000	1
1990	5	11	41,910		713,130	437.5	8	0	35,801	120	120	0	35,801	10	0	197	207	0.91	0.90	210,000	0	17,464		231	210,000	1
1990	6	10	42,583		719,402	437.7	8	0	36,311	119	119	0	36,311	10	0	197	207	0.91	0.90	210,000	0	17,745		231	210,000	1
1990	6	10	42,583		717,105	437.8	10	0	44,879	119	119	0	44,879	10	0	198	207	0.91	0.90	210,000	0	21,945		231	210,000	1
1990	6	10	42,583		719,101	437.8	9	0	40,587	119	119	0	40,587	10	0	198	207	0.91	0.90	210,000	0	19,845		231	210,000	1
1990	7	10	39,109		716,286	437.8	10	0	41,923	119	119	0	41,923	10	0	198	207	0.91	0.90	210,000	0	20,496		231	210,000	1
1990	7	10	39,109		717,760	437.8	9	0	37,635	119	119	0	37,635	10	0	197	207	0.91	0.90	210,000	0	18,396		231	210,000	1
1990	7	11	43,019		719,400	437.8	9	0	41,380	119	119	0	41,380	10	0	198	207	0.91	0.90	210,000	0	20,236		231	210,000	1
1990	8	10	35,170		720,314	437.9	8	0	34,255	119	119	0	34,255	10	0	198	207	0.91	0.90	210,000	0	16,758		231	210,000	1
1990	8	10	35,170		716,922	437.8	9	0	38,562	119	119	0	38,562	10	0	198	207	0.91	0.90	210,000	0	18,858		231	210,000	1
1990	8	11	38,687		717,900	437.8	8	0	37,708	119	119	0	37,708	10	0	197	207	0.91	0.90	210,000	0	18,434		231	210,000	1
1990	9	10	17,161		720,463	437.9	3	0	14,598	119	119	0	14,598	10	0	198	207	0.91	0.90	210,000	0	7,140		231	210,000	1
1990	9	10	17,161		718,563	437.9	4	0	19,061	119	119	0	19,061	10	0	198	207	0.91	0.90	210,000	0	9,324		231	210,000	0
1990	9	10	17,161		721,129	437.9	3	0	14,595	119	119	0	14,595	10	0	198	207	0.91	0.90	210,000	0	7,140		231	210,000	1
1990	10	10	35,452	1,629	717,557	437.9	9	0	37,395	119	119	0	37,395	10	0	198	207	0.91	0.90	210,000	0	18,291		231	210,000	1
1990	10	10	35,452	1,629	718,265	437.8	8	0	33,115	119	119	0	33,115	10	0	198	207	0.91	0.90	210,000	0	16,191		231	210,000	1
1990	10	11	38,997	1,792	719,051	437.8	8	0	36,419	119	119	0	36,419	10	0	198	207	0.91	0.90	210,000	0	17,810		231	210,000	1
1990	11	10	51,391		718,052	437.8	12	0	52,391	119	119	0	52,391	10	0	198	207	0.91	0.90	210,000	0	25,620		231	210,000	1
1990	11	10	51,391		717,037	437.8	12	0	52,406	119	119	0	52,406	10	0	198	207	0.91	0.90	210,000	0	25,620		231	210,000	1
1990	11	10	51,391		716,006	437.8	12	0	52,422	119	119	0	52,422	10	0	197	207	0.91	0.90	210,000	0	25,620		231	210,000	1
1990	12	10	39,665		718,943	437.8	9	0	36,728	119	119	0	36,728	10	0	197	207	0.91	0.90	210,000	0	17,955		231	210,000	0
1990	12	10	39,665		719,407	437.9	9	0	39,200	119	119	0	39,200	10	0	198	207	0.91	0.90	210,000	0	19,173		231	210,000	0
1990	12	11	43,631		720,067	437.9	9	0	42,971	119	119	0	42,971	10	0	198	207	0.91	0.90	210,000	0	21,021		231	210,000	0



**Table 1-1 Calculation of Annual Energy without Expansion Plant (7/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1991	1	10	44,233		718,015	437.9	11	0	46,286	119	119	0	46,286	10	0	198	207	0.91	0.90	210,000	0	22,638		231	210,000	1
1991	1	10	44,233		720,257	437.9	10	0	41,991	119	119	0	41,991	10	0	198	207	0.91	0.90	210,000	0	20,538		231	210,000	1
1991	1	11	48,657		718,000	437.9	11	0	50,913	119	119	0	50,913	10	0	198	207	0.91	0.90	210,000	0	24,902		231	210,000	1
1991	2	10	12,181		717,294	437.8	3	0	12,886	119	119	0	12,886	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1991	2	10	12,181		716,586	437.8	3	0	12,889	119	119	0	12,889	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1991	2	8	9,745		716,018	437.7	3	0	10,313	119	119	0	10,313	10	0	197	207	0.91	0.90	210,000	0	5,040		231	210,000	1
1991	3	10	8,593		711,710	437.6	3	0	12,901	119	119	0	12,901	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1991	3	10	8,593		707,385	437.4	3	0	12,917	120	120	0	12,917	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1991	3	11	9,452		702,608	437.2	3	0	14,228	120	120	0	14,228	10	0	197	207	0.91	0.90	210,000	0	6,930		231	210,000	1
1991	4	10	8,936		698,593	437.0	3	0	12,952	120	120	0	12,952	10	0	197	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1991	4	10	8,936		694,561	436.8	3	0	12,968	120	120	0	12,968	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1991	4	10	8,936		690,514	436.7	3	0	12,984	120	120	0	12,984	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1991	5	10	6,177		683,686	436.4	3	0	13,005	120	120	0	13,005	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1991	5	10	6,177		676,831	436.1	3	0	13,032	121	121	0	13,032	10	0	196	205	0.91	0.90	210,000	0	6,300		231	210,000	1
1991	5	11	6,795		669,259	435.8	3	0	14,368	121	121	0	14,368	10	0	195	205	0.91	0.90	210,000	0	6,930		231	210,000	1
1991	6	10	43,766		675,224	435.7	9	0	37,801	121	121	0	37,801	10	0	195	205	0.91	0.90	210,000	0	18,228		231	210,000	1
1991	6	10	43,766		681,261	436.0	9	0	37,730	121	121	0	37,730	10	0	195	205	0.91	0.90	210,000	0	18,228		231	210,000	1
1991	6	10	43,766		687,367	436.3	9	0	37,660	121	121	0	37,660	10	0	196	206	0.91	0.90	210,000	0	18,228		231	210,000	1
1991	7	10	19,316		690,088	436.5	4	0	16,595	120	120	0	16,595	10	0	196	206	0.91	0.90	210,000	0	8,043		231	210,000	1
1991	7	10	19,316		692,823	436.6	4	0	16,582	120	120	0	16,582	10	0	196	206	0.91	0.90	210,000	0	8,043		231	210,000	1
1991	7	11	21,248		695,847	436.7	4	0	18,224	120	120	0	18,224	10	0	196	206	0.91	0.90	210,000	0	8,847		231	210,000	1
1991	8	10	14,382		697,261	436.8	3	0	12,968	120	120	0	12,968	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1991	8	10	14,382		698,681	436.9	3	0	12,962	120	120	0	12,962	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1991	8	11	15,820		700,249	437.0	3	0	14,252	120	120	0	14,252	10	0	197	206	0.91	0.90	210,000	0	6,930		231	210,000	1
1991	9	10	14,866		702,166	437.1	3	0	12,950	120	120	0	12,950	10	0	197	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1991	9	10	14,866		704,090	437.1	3	0	12,942	120	120	0	12,942	10	0	197	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1991	9	10	14,866		706,022	437.2	3	0	12,935	120	120	0	12,935	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1991	10	10	45,730	1,629	712,444	437.4	9	0	37,679	120	120	0	37,679	10	0	197	207	0.91	0.90	210,000	0	18,375		231	210,000	1
1991	10	10	45,730	1,629	718,938	437.7	9	0	37,607	119	119	0	37,607	10	0	197	207	0.91	0.90	210,000	0	18,375		231	210,000	1
1991	10	11	50,303	1,792	716,658	437.8	11	0	50,791	119	119	0	50,791	10	0	198	207	0.91	0.90	210,000	0	24,832		231	210,000	1
1991	11	10	38,814		718,099	437.8	9	0	37,373	119	119	0	37,373	10	0	197	207	0.91	0.90	210,000	0	18,270		231	210,000	1
1991	11	10	38,814		719,556	437.9	9	0	37,357	119	119	0	37,357	10	0	198	207	0.91	0.90	210,000	0	18,270		231	210,000	1
1991	11	10	38,814		716,710	437.8	10	0	41,660	119	119	0	41,660	10	0	198	207	0.91	0.90	210,000	0	20,370		231	210,000	1
1991	12	10	52,973		716,706	437.8	12	0	52,978	119	119	0	52,978	10	0	197	207	0.91	0.90	210,000	0	25,893		231	210,000	0
1991	12	10	52,973		716,701	437.8	12	0	52,978	119	119	0	52,978	10	0	197	207	0.91	0.90	210,000	0	25,893		231	210,000	0
1991	12	11	58,271		717,030	437.8	12	0	57,942	119	119	0	57,942	10	0	197	207	0.91	0.90	210,000	0	28,321		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (8/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1992	1	10	28,296		716,928	437.8	7	0	28,399	119	119	0	28,399	10	0	197	207	0.91	0.90	210,000	0	13,881		231	210,000	1
1992	1	10	28,296		716,825	437.8	7	0	28,399	119	119	0	28,399	10	0	197	207	0.91	0.90	210,000	0	13,881		231	210,000	1
1992	1	11	31,126		716,711	437.8	7	0	31,240	119	119	0	31,240	10	0	197	207	0.91	0.90	210,000	0	15,269		231	210,000	1
1992	2	10	13,498		717,320	437.8	3	0	12,889	119	119	0	12,889	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1992	2	10	13,498		717,932	437.8	3	0	12,886	119	119	0	12,886	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1992	2	9	12,148		718,484	437.8	3	0	11,596	119	119	0	11,596	10	0	198	207	0.91	0.90	210,000	0	5,670		231	210,000	1
1992	3	10	5,736		711,324	437.7	3	0	12,897	119	119	0	12,897	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1992	3	10	5,736		704,136	437.3	3	0	12,924	120	120	0	12,924	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1992	3	11	6,310		696,197	437.0	3	0	14,249	120	120	0	14,249	10	0	197	206	0.91	0.90	210,000	0	6,930		231	210,000	1
1992	4	10	12,164		695,390	436.8	3	0	12,971	120	120	0	12,971	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1992	4	10	12,164		694,579	436.8	3	0	12,974	120	120	0	12,974	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1992	4	10	12,164		693,765	436.7	3	0	12,977	120	120	0	12,977	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1992	5	10	17,892		696,305	436.8	4	0	15,353	120	120	0	15,353	10	0	196	206	0.91	0.90	210,000	0	7,455		231	210,000	1
1992	5	10	17,892		698,856	436.9	4	0	15,341	120	120	0	15,341	10	0	196	206	0.91	0.90	210,000	0	7,455		231	210,000	1
1992	5	11	19,681		701,677	437.0	4	0	16,861	120	120	0	16,861	10	0	197	206	0.91	0.90	210,000	0	8,200		231	210,000	1
1992	6	10	35,271		706,760	437.2	7	0	30,189	120	120	0	30,189	10	0	197	207	0.91	0.90	210,000	0	14,700		231	210,000	1
1992	6	10	35,271		711,889	437.4	7	0	30,142	120	120	0	30,142	10	0	197	207	0.91	0.90	210,000	0	14,700		231	210,000	1
1992	6	10	35,271		717,064	437.7	7	0	30,096	119	119	0	30,096	10	0	197	207	0.91	0.90	210,000	0	14,700		231	210,000	1
1992	7	10	68,264		718,580	437.8	16	0	66,748	119	119	0	66,748	10	0	198	207	0.91	0.90	210,000	0	32,634		231	210,000	1
1992	7	10	68,264		715,788	437.8	17	0	71,056	119	119	0	71,056	10	0	197	207	0.91	0.90	210,000	0	34,734		231	210,000	1
1992	7	11	75,091		717,430	437.8	16	0	73,449	119	119	0	73,449	10	0	197	207	0.91	0.90	210,000	0	35,897		231	210,000	1
1992	8	10	78,373		716,102	437.8	19	0	79,701	119	119	0	79,701	10	0	197	207	0.91	0.90	210,000	0	38,955		231	210,000	1
1992	8	10	78,373		719,089	437.8	18	0	75,386	119	119	0	75,386	10	0	198	207	0.91	0.90	210,000	0	36,855		231	210,000	1
1992	8	11	86,211		717,669	437.8	19	0	87,630	119	119	0	87,630	10	0	198	207	0.91	0.90	210,000	0	42,850		231	210,000	1
1992	9	10	49,987		716,446	437.8	12	0	51,211	119	119	0	51,211	10	0	197	207	0.91	0.90	210,000	0	25,032		231	210,000	1
1992	9	10	49,987		719,532	437.8	11	0	46,902	119	119	0	46,902	10	0	198	207	0.91	0.90	210,000	0	22,932		231	210,000	1
1992	9	10	49,987		718,337	437.9	12	0	51,182	119	119	0	51,182	10	0	198	207	0.91	0.90	210,000	0	25,032		231	210,000	1
1992	10	10	62,733	1,629	718,805	437.8	14	0	60,635	119	119	0	60,635	10	0	198	207	0.91	0.90	210,000	0	29,652		231	210,000	1
1992	10	10	62,733	1,629	719,282	437.9	14	0	60,627	119	119	0	60,627	10	0	198	207	0.91	0.90	210,000	0	29,652		231	210,000	1
1992	10	11	69,006	1,792	715,044	437.8	15	0	71,452	119	119	0	71,452	10	0	197	207	0.91	0.90	210,000	0	34,927		231	210,000	1
1992	11	10	78,682		718,059	437.8	18	0	75,667	119	119	0	75,667	10	0	197	207	0.91	0.90	210,000	0	36,981		231	210,000	1
1992	11	10	78,682		716,797	437.8	19	0	79,943	119	119	0	79,943	10	0	197	207	0.91	0.90	210,000	0	39,081		231	210,000	1
1992	11	10	78,682		715,505	437.7	19	0	79,974	119	119	0	79,974	10	0	197	207	0.91	0.90	210,000	0	39,081		231	210,000	1
1992	12	10	53,251		716,542	437.7	12	0	52,215	119	119	0	52,215	10	0	197	207	0.91	0.90	210,000	0	25,515		231	210,000	0
1992	12	10	53,251		716,729	437.8	12	0	53,065	119	119	0	53,065	10	0	197	207	0.91	0.90	210,000	0	25,935		231	210,000	0
1992	12	11	58,577		717,081	437.8	12	0	58,225	119	119	0	58,225	10	0	197	207	0.91	0.90	210,000	0	28,459		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (9/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1993	1	10	13,169		717,361	437.8	3	0	12,888	119	119	0	12,888	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1993	1	10	13,169		717,643	437.8	3	0	12,887	119	119	0	12,887	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1993	1	11	14,486		717,954	437.8	3	0	14,174	119	119	0	14,174	10	0	198	207	0.91	0.90	210,000	0	6,930		231	210,000	1
1993	2	10	8,500		713,561	437.7	3	0	12,894	119	119	0	12,894	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1993	2	10	8,500		709,151	437.5	3	0	12,910	120	120	0	12,910	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1993	2	8	6,800		705,611	437.3	3	0	10,341	120	120	0	10,341	10	0	197	207	0.91	0.90	210,000	0	5,040		231	210,000	1
1993	3	10	5,803		698,468	437.1	3	0	12,946	120	120	0	12,946	10	0	197	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1993	3	10	5,803		691,297	436.8	3	0	12,975	120	120	0	12,975	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1993	3	11	6,384		683,376	436.4	3	0	14,305	120	120	0	14,305	10	0	196	206	0.91	0.90	210,000	0	6,930		231	210,000	1
1993	4	10	5,793		676,134	436.1	3	0	13,034	121	121	0	13,034	10	0	196	205	0.91	0.90	210,000	0	6,300		231	210,000	1
1993	4	10	5,793		668,864	435.7	3	0	13,064	121	121	0	13,064	10	0	195	205	0.91	0.90	210,000	0	6,300		231	210,000	1
1993	4	10	5,793		661,563	435.4	3	0	13,094	121	121	0	13,094	10	0	195	205	0.91	0.90	210,000	0	6,300		231	210,000	1
1993	5	10	37,297		666,549	435.4	7	0	32,311	121	121	0	32,311	10	0	195	205	0.91	0.90	210,000	0	15,540		231	210,000	1
1993	5	10	37,297		671,587	435.6	7	0	32,259	121	121	0	32,259	10	0	195	205	0.91	0.90	210,000	0	15,540		231	210,000	1
1993	5	11	41,026		677,188	435.8	7	0	35,425	121	121	0	35,425	10	0	195	205	0.91	0.90	210,000	0	17,094		231	210,000	1
1993	6	10	116,087		693,385	436.3	23	0	99,891	120	120	0	99,891	10	0	196	206	0.91	0.90	210,000	0	48,363		231	210,000	1
1993	6	10	116,087		710,077	437.1	23	0	99,395	120	120	0	99,395	10	0	197	206	0.91	0.90	210,000	0	48,363		231	210,000	1
1993	6	10	116,087		722,000	437.7	24	1,023	103,142	119	119	0	104,165	10	0	197	207	0.91	0.90	210,000	0	50,400		231	210,000	1
1993	7	10	90,131		718,214	437.9	22	0	93,916	119	119	0	93,916	10	0	198	207	0.91	0.90	210,000	0	45,948		231	210,000	0
1993	7	10	90,131		714,322	437.7	22	0	94,023	119	119	0	94,023	10	0	197	207	0.91	0.90	210,000	0	45,948		231	210,000	1
1993	7	11	99,144		714,717	437.7	21	0	98,749	119	119	0	98,749	10	0	197	207	0.91	0.90	210,000	0	48,233		231	210,000	1
1993	8	10	31,921		719,443	437.8	6	0	27,195	119	119	0	27,195	10	0	197	207	0.91	0.90	210,000	0	13,293		231	210,000	1
1993	8	10	31,921		719,898	437.9	7	0	31,467	119	119	0	31,467	10	0	198	207	0.91	0.90	210,000	0	15,393		231	210,000	1
1993	8	11	35,113		720,402	437.9	7	0	34,609	119	119	0	34,609	10	0	198	207	0.91	0.90	210,000	0	16,932		231	210,000	1
1993	9	10	7,625		715,141	437.8	3	0	12,886	119	119	0	12,886	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	0
1993	9	10	7,625		709,860	437.6	3	0	12,906	119	119	0	12,906	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1993	9	10	7,625		704,559	437.3	3	0	12,926	120	120	0	12,926	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1993	10	10	74,415	1,629	715,175	437.4	14	0	62,170	120	120	0	62,170	10	0	197	207	0.91	0.90	210,000	0	30,324		231	210,000	1
1993	10	10	74,415	1,629	717,315	437.7	16	0	70,646	119	119	0	70,646	10	0	197	207	0.91	0.90	210,000	0	34,524		231	210,000	1
1993	10	11	81,857	1,792	714,939	437.7	17	0	82,441	119	119	0	82,441	10	0	197	207	0.91	0.90	210,000	0	40,286		231	210,000	1
1993	11	10	99,472		716,679	437.7	23	0	97,731	119	119	0	97,731	10	0	197	207	0.91	0.90	210,000	0	47,754		231	210,000	1
1993	11	10	99,472		714,109	437.7	24	0	102,042	119	119	0	102,042	10	0	197	207	0.91	0.90	210,000	0	49,854		231	210,000	1
1993	11	10	99,472		715,824	437.7	23	0	97,756	119	119	0	97,756	10	0	197	207	0.91	0.90	210,000	0	47,754		231	210,000	1
1993	12	10	108,432		721,192	437.8	24	0	103,064	119	119	0	103,064	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1993	12	10	108,432		722,000	438.0	24	4,654	102,971	119	119	0	107,625	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1993	12	11	119,276		722,000	438.0	24	6,020	113,256	119	119	0	119,276	10	0	198	207	0.91	0.90	210,000	0	55,440		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (10/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1994	1	10	72,873		715,606	437.9	18	0	79,267	119	119	0	79,267	10	0	198	207	0.91	0.90	210,000	0	38,766		231	210,000	0
1994	1	10	72,873		717,755	437.8	16	0	70,723	119	119	0	70,723	10	0	197	207	0.91	0.90	210,000	0	34,566		231	210,000	1
1994	1	11	80,160		715,391	437.8	17	0	82,525	119	119	0	82,525	10	0	197	207	0.91	0.90	210,000	0	40,333		231	210,000	1
1994	2	10	56,431		719,414	437.8	12	0	52,408	119	119	0	52,408	10	0	197	207	0.91	0.90	210,000	0	25,620		231	210,000	1
1994	2	10	56,431		719,173	437.9	13	0	56,672	119	119	0	56,672	10	0	198	207	0.91	0.90	210,000	0	27,720		231	210,000	1
1994	2	8	45,145		718,976	437.9	13	0	45,341	119	119	0	45,341	10	0	198	207	0.91	0.90	210,000	0	22,176		231	210,000	1
1994	3	10	13,053		719,149	437.9	3	0	12,881	119	119	0	12,881	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1994	3	10	13,053		719,322	437.9	3	0	12,880	119	119	0	12,880	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1994	3	11	14,359		719,512	437.9	3	0	14,168	119	119	0	14,168	10	0	198	207	0.91	0.90	210,000	0	6,930		231	210,000	1
1994	4	10	13,559		720,193	437.9	3	0	12,878	119	119	0	12,878	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1994	4	10	13,559		720,876	437.9	3	0	12,875	119	119	0	12,875	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1994	4	10	13,559		717,260	437.9	4	0	17,175	119	119	0	17,175	10	0	198	207	0.91	0.90	210,000	0	8,400		231	210,000	1
1994	5	10	13,931		718,306	437.8	3	0	12,886	119	119	0	12,886	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1994	5	10	13,931		719,355	437.9	3	0	12,882	119	119	0	12,882	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1994	5	11	15,325		720,514	437.9	3	0	14,165	119	119	0	14,165	10	0	198	207	0.91	0.90	210,000	0	6,930		231	210,000	1
1994	6	10	12,112		719,750	437.9	3	0	12,877	119	119	0	12,877	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1994	6	10	12,112		718,982	437.9	3	0	12,880	119	119	0	12,880	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1994	6	10	12,112		718,212	437.8	3	0	12,883	119	119	0	12,883	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1994	7	10	11,772		717,097	437.8	3	0	12,886	119	119	0	12,886	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1994	7	10	11,772		715,978	437.8	3	0	12,891	119	119	0	12,891	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1994	7	11	12,949		714,742	437.7	3	0	14,185	119	119	0	14,185	10	0	197	207	0.91	0.90	210,000	0	6,930		231	210,000	1
1994	8	10	33,128		719,645	437.8	7	0	28,225	119	119	0	28,225	10	0	197	207	0.91	0.90	210,000	0	13,797		231	210,000	1
1994	8	10	33,128		720,279	437.9	8	0	32,494	119	119	0	32,494	10	0	198	207	0.91	0.90	210,000	0	15,897		231	210,000	1
1994	8	11	36,441		716,233	437.8	9	0	40,486	119	119	0	40,486	10	0	198	207	0.91	0.90	210,000	0	19,797		231	210,000	1
1994	9	10	32,028		716,679	437.7	7	0	31,583	119	119	0	31,583	10	0	197	207	0.91	0.90	210,000	0	15,435		231	210,000	1
1994	9	10	32,028		717,128	437.8	7	0	31,579	119	119	0	31,579	10	0	197	207	0.91	0.90	210,000	0	15,435		231	210,000	1
1994	9	10	32,028		717,581	437.8	7	0	31,574	119	119	0	31,574	10	0	197	207	0.91	0.90	210,000	0	15,435		231	210,000	1
1994	10	10	99,341	1,629	714,779	437.7	23	0	100,514	119	119	0	100,514	10	0	197	207	0.91	0.90	210,000	0	49,119		231	210,000	1
1994	10	10	99,341	1,629	716,255	437.7	22	0	96,236	119	119	0	96,236	10	0	197	207	0.91	0.90	210,000	0	47,019		231	210,000	1
1994	10	11	109,275	1,792	717,929	437.8	22	0	105,810	119	119	0	105,810	10	0	197	207	0.91	0.90	210,000	0	51,721		231	210,000	1
1994	11	10	137,166		722,000	437.9	24	30,074	103,021	119	119	0	133,094	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	1
1994	11	10	137,166		722,000	438.0	24	34,207	102,959	119	119	0	137,166	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1994	11	10	137,166		722,000	438.0	24	34,207	102,959	119	119	0	137,166	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1994	12	10	76,689		716,730	437.9	19	0	81,959	119	119	0	81,959	10	0	198	207	0.91	0.90	210,000	0	40,089		231	210,000	0
1994	12	10	76,689		715,898	437.7	18	0	77,520	119	119	0	77,520	10	0	197	207	0.91	0.90	210,000	0	37,884		231	210,000	0
1994	12	11	84,358		716,015	437.7	18	0	84,241	119	119	0	84,241	10	0	197	207	0.91	0.90	210,000	0	41,164		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (11/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillout or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1995	1	10	28,237		720,201	437.8	6	0	24,051	119	119	0	24,051	10	0	198	207	0.91	0.90	210,000	0	11,760		231	210,000	1
1995	1	10	28,237		720,109	437.9	7	0	28,329	119	119	0	28,329	10	0	198	207	0.91	0.90	210,000	0	13,860		231	210,000	1
1995	1	11	31,061		720,007	437.9	7	0	31,163	119	119	0	31,163	10	0	198	207	0.91	0.90	210,000	0	15,246		231	210,000	1
1995	2	10	27,036		719,742	437.9	6	0	27,301	119	119	0	27,301	10	0	198	207	0.91	0.90	210,000	0	13,356		231	210,000	1
1995	2	10	27,036		719,475	437.9	6	0	27,303	119	119	0	27,303	10	0	198	207	0.91	0.90	210,000	0	13,356		231	210,000	1
1995	2	8	21,629		719,259	437.9	6	0	21,844	119	119	0	21,844	10	0	198	207	0.91	0.90	210,000	0	10,685		231	210,000	1
1995	3	10	11,602		717,978	437.8	3	0	12,883	119	119	0	12,883	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1995	3	10	11,602		716,692	437.8	3	0	12,888	119	119	0	12,888	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1995	3	11	12,762		715,272	437.7	3	0	14,182	119	119	0	14,182	10	0	197	207	0.91	0.90	210,000	0	6,930		231	210,000	1
1995	4	10	40,779		716,987	437.7	9	0	39,063	119	119	0	39,063	10	0	197	207	0.91	0.90	210,000	0	19,089		231	210,000	1
1995	4	10	40,779		718,723	437.8	9	0	39,043	119	119	0	39,043	10	0	198	207	0.91	0.90	210,000	0	19,089		231	210,000	1
1995	4	10	40,779		720,478	437.9	9	0	39,023	119	119	0	39,023	10	0	198	207	0.91	0.90	210,000	0	19,089		231	210,000	1
1995	5	10	108,084		722,000	438.0	24	3,580	102,982	119	119	0	106,562	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	1
1995	5	10	108,084		722,000	438.0	24	5,125	102,959	119	119	0	108,084	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1995	5	11	118,893		722,000	438.0	24	5,638	113,255	119	119	0	118,893	10	0	198	207	0.91	0.90	210,000	0	55,440		231	210,000	0
1995	6	10	81,378		716,870	437.9	20	0	86,508	119	119	0	86,508	10	0	198	207	0.91	0.90	210,000	0	42,315		231	210,000	0
1995	6	10	81,378		715,960	437.7	19	0	82,288	119	119	0	82,288	10	0	197	207	0.91	0.90	210,000	0	40,215		231	210,000	1
1995	6	10	81,378		715,028	437.7	19	0	82,310	119	119	0	82,310	10	0	197	207	0.91	0.90	210,000	0	40,215		231	210,000	1
1995	7	10	24,996		718,714	437.8	5	0	21,310	119	119	0	21,310	10	0	197	207	0.91	0.90	210,000	0	10,416		231	210,000	1
1995	7	10	24,996		718,115	437.8	6	0	25,595	119	119	0	25,595	10	0	198	207	0.91	0.90	210,000	0	12,516		231	210,000	1
1995	7	11	27,496		717,452	437.8	6	0	28,160	119	119	0	28,160	10	0	198	207	0.91	0.90	210,000	0	13,768		231	210,000	1
1995	8	10	30,868		717,736	437.8	7	0	30,584	119	119	0	30,584	10	0	198	207	0.91	0.90	210,000	0	14,952		231	210,000	1
1995	8	10	30,868		718,022	437.8	7	0	30,582	119	119	0	30,582	10	0	198	207	0.91	0.90	210,000	0	14,952		231	210,000	1
1995	8	11	33,955		718,340	437.8	7	0	33,637	119	119	0	33,637	10	0	198	207	0.91	0.90	210,000	0	16,447		231	210,000	1
1995	9	10	52,334		717,500	437.8	12	0	53,173	119	119	0	53,173	10	0	198	207	0.91	0.90	210,000	0	25,998		231	210,000	1
1995	9	10	52,334		716,648	437.8	12	0	53,187	119	119	0	53,187	10	0	197	207	0.91	0.90	210,000	0	25,998		231	210,000	1
1995	9	10	52,334		720,110	437.8	11	0	48,872	119	119	0	48,872	10	0	198	207	0.91	0.90	210,000	0	23,898		231	210,000	1
1995	10	10	93,884	1,629	716,596	437.8	22	0	95,769	119	119	0	95,769	10	0	198	207	0.91	0.90	210,000	0	46,830		231	210,000	1
1995	10	10	93,884	1,629	717,339	437.8	21	0	91,511	119	119	0	91,511	10	0	197	207	0.91	0.90	210,000	0	44,730		231	210,000	1
1995	10	11	103,272	1,792	718,180	437.8	21	0	100,639	119	119	0	100,639	10	0	198	207	0.91	0.90	210,000	0	49,203		231	210,000	1
1995	11	10	92,523		714,621	437.7	22	0	96,082	119	119	0	96,082	10	0	197	207	0.91	0.90	210,000	0	46,956		231	210,000	1
1995	11	10	92,523		715,320	437.7	21	0	91,823	119	119	0	91,823	10	0	197	207	0.91	0.90	210,000	0	44,856		231	210,000	1
1995	11	10	92,523		716,039	437.7	21	0	91,804	119	119	0	91,804	10	0	197	207	0.91	0.90	210,000	0	44,856		231	210,000	1
1995	12	10	24,339		716,658	437.7	6	0	23,720	119	119	0	23,720	10	0	197	207	0.91	0.90	210,000	0	11,592		231	210,000	0
1995	12	10	24,339		716,764	437.8	6	0	24,233	119	119	0	24,233	10	0	197	207	0.91	0.90	210,000	0	11,844		231	210,000	0
1995	12	11	26,773		717,118	437.8	6	0	26,418	119	119	0	26,418	10	0	197	207	0.91	0.90	210,000	0	12,913		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (12/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1996	1	10	15,710		719,429	437.8	3	0	13,399	119	119	0	13,399	10	0	198	207	0.91	0.90	210,000	0	6,552		231	210,000	1
1996	1	10	15,710		717,446	437.8	4	0	17,693	119	119	0	17,693	10	0	198	207	0.91	0.90	210,000	0	8,652		231	210,000	1
1996	1	11	17,281		719,989	437.9	3	0	14,737	119	119	0	14,737	10	0	198	207	0.91	0.90	210,000	0	7,207		231	210,000	1
1996	2	10	15,323		717,965	437.9	4	0	17,347	119	119	0	17,347	10	0	198	207	0.91	0.90	210,000	0	8,484		231	210,000	1
1996	2	10	15,323		720,235	437.9	3	0	13,053	119	119	0	13,053	10	0	198	207	0.91	0.90	210,000	0	6,384		231	210,000	1
1996	2	9	13,790		718,415	437.9	4	0	15,611	119	119	0	15,611	10	0	198	207	0.91	0.90	210,000	0	7,636		231	210,000	1
1996	3	10	7,773		713,294	437.7	3	0	12,893	119	119	0	12,893	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1996	3	10	7,773		708,154	437.5	3	0	12,913	120	120	0	12,913	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1996	3	11	8,550		702,477	437.2	3	0	14,227	120	120	0	14,227	10	0	197	207	0.91	0.90	210,000	0	6,930		231	210,000	1
1996	4	10	34,968		707,522	437.2	7	0	29,923	120	120	0	29,923	10	0	197	207	0.91	0.90	210,000	0	14,574		231	210,000	1
1996	4	10	34,968		712,612	437.5	7	0	29,877	120	120	0	29,877	10	0	197	207	0.91	0.90	210,000	0	14,574		231	210,000	1
1996	4	10	34,968		717,748	437.7	7	0	29,832	119	119	0	29,832	10	0	197	207	0.91	0.90	210,000	0	14,574		231	210,000	1
1996	5	10	7,739		712,591	437.7	3	0	12,896	119	119	0	12,896	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1996	5	10	7,739		707,415	437.5	3	0	12,916	120	120	0	12,916	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1996	5	11	8,513		701,698	437.2	3	0	14,230	120	120	0	14,230	10	0	197	207	0.91	0.90	210,000	0	6,930		231	210,000	1
1996	6	10	30,206		706,069	437.2	6	0	25,835	120	120	0	25,835	10	0	197	206	0.91	0.90	210,000	0	12,579		231	210,000	1
1996	6	10	30,206		710,474	437.4	6	0	25,801	120	120	0	25,801	10	0	197	207	0.91	0.90	210,000	0	12,579		231	210,000	1
1996	6	10	30,206		714,912	437.6	6	0	25,767	119	119	0	25,767	10	0	197	207	0.91	0.90	210,000	0	12,579		231	210,000	1
1996	7	10	33,251		719,811	437.8	7	0	28,352	119	119	0	28,352	10	0	197	207	0.91	0.90	210,000	0	13,860		231	210,000	1
1996	7	10	33,251		720,439	437.9	8	0	32,622	119	119	0	32,622	10	0	198	207	0.91	0.90	210,000	0	15,960		231	210,000	1
1996	7	11	36,576		716,389	437.8	9	0	40,626	119	119	0	40,626	10	0	198	207	0.91	0.90	210,000	0	19,866		231	210,000	1
1996	8	10	37,352		717,609	437.8	8	0	36,132	119	119	0	36,132	10	0	197	207	0.91	0.90	210,000	0	17,661		231	210,000	1
1996	8	10	37,352		718,843	437.8	8	0	36,119	119	119	0	36,119	10	0	198	207	0.91	0.90	210,000	0	17,661		231	210,000	1
1996	8	11	41,087		720,214	437.9	8	0	39,715	119	119	0	39,715	10	0	198	207	0.91	0.90	210,000	0	19,427		231	210,000	1
1996	9	10	76,420		718,670	437.9	18	0	77,964	119	119	0	77,964	10	0	198	207	0.91	0.90	210,000	0	38,136		231	210,000	1
1996	9	10	76,420		717,090	437.8	18	0	78,000	119	119	0	78,000	10	0	198	207	0.91	0.90	210,000	0	38,136		231	210,000	1
1996	9	10	76,420		715,473	437.7	18	0	78,037	119	119	0	78,037	10	0	197	207	0.91	0.90	210,000	0	38,136		231	210,000	1
1996	10	10	99,737	1,629	717,023	437.7	22	0	96,559	119	119	0	96,559	10	0	197	207	0.91	0.90	210,000	0	47,187		231	210,000	1
1996	10	10	99,737	1,629	714,257	437.7	23	0	100,874	119	119	0	100,874	10	0	197	207	0.91	0.90	210,000	0	49,287		231	210,000	1
1996	10	11	109,711	1,792	715,925	437.7	22	0	106,251	119	119	0	106,251	10	0	197	207	0.91	0.90	210,000	0	51,906		231	210,000	1
1996	11	10	43,468		718,062	437.8	10	0	41,330	119	119	0	41,330	10	0	197	207	0.91	0.90	210,000	0	20,202		231	210,000	1
1996	11	10	43,468		720,226	437.9	10	0	41,304	119	119	0	41,304	10	0	198	207	0.91	0.90	210,000	0	20,202		231	210,000	1
1996	11	10	43,468		718,097	437.9	11	0	45,597	119	119	0	45,597	10	0	198	207	0.91	0.90	210,000	0	22,302		231	210,000	1
1996	12	10	30,995		717,953	437.8	7	0	31,139	119	119	0	31,139	10	0	198	207	0.91	0.90	210,000	0	15,225		231	210,000	0
1996	12	10	30,995		717,938	437.8	7	0	31,010	119	119	0	31,010	10	0	198	207	0.91	0.90	210,000	0	15,162		231	210,000	0
1996	12	11	34,095		718,396	437.8	7	0	33,637	119	119	0	33,637	10	0	198	207	0.91	0.90	210,000	0	16,447		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (13/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1997	1	10	7,428		712,930	437.7	3	0	12,894	119	119	0	12,894	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1997	1	10	7,428		707,442	437.5	3	0	12,915	120	120	0	12,915	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1997	1	11	8,171		701,382	437.2	3	0	14,231	120	120	0	14,231	10	0	197	207	0.91	0.90	210,000	0	6,930		231	210,000	1
1997	2	10	6,566		694,986	436.9	3	0	12,962	120	120	0	12,962	10	0	197	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1997	2	10	6,566		688,565	436.6	3	0	12,987	120	120	0	12,987	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1997	2	8	5,253		683,410	436.4	3	0	10,408	120	120	0	10,408	10	0	196	206	0.91	0.90	210,000	0	5,040		231	210,000	1
1997	3	10	6,785		677,164	436.1	3	0	13,032	121	121	0	13,032	10	0	196	205	0.91	0.90	210,000	0	6,300		231	210,000	1
1997	3	10	6,785		670,892	435.8	3	0	13,057	121	121	0	13,057	10	0	195	205	0.91	0.90	210,000	0	6,300		231	210,000	1
1997	3	11	7,464		663,962	435.5	3	0	14,393	121	121	0	14,393	10	0	195	205	0.91	0.90	210,000	0	6,930		231	210,000	1
1997	4	10	28,009		667,708	435.4	6	0	24,263	121	121	0	24,263	10	0	195	205	0.91	0.90	210,000	0	11,676		231	210,000	1
1997	4	10	28,009		671,483	435.6	6	0	24,234	121	121	0	24,234	10	0	195	205	0.91	0.90	210,000	0	11,676		231	210,000	1
1997	4	10	28,009		675,288	435.8	6	0	24,205	121	121	0	24,205	10	0	195	205	0.91	0.90	210,000	0	11,676		231	210,000	1
1997	5	10	45,965		681,613	436.0	9	0	39,640	121	121	0	39,640	10	0	195	205	0.91	0.90	210,000	0	19,152		231	210,000	1
1997	5	10	45,965		688,016	436.3	9	0	39,563	121	121	0	39,563	10	0	196	206	0.91	0.90	210,000	0	19,152		231	210,000	1
1997	5	11	50,562		695,147	436.6	9	0	43,431	120	120	0	43,431	10	0	196	206	0.91	0.90	210,000	0	21,067		231	210,000	1
1997	6	10	13,571		695,746	436.8	3	0	12,972	120	120	0	12,972	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1997	6	10	13,571		696,347	436.8	3	0	12,970	120	120	0	12,970	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1997	6	10	13,571		696,951	436.8	3	0	12,968	120	120	0	12,968	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1997	7	10	26,102		700,677	436.9	5	0	22,376	120	120	0	22,376	10	0	197	206	0.91	0.90	210,000	0	10,878		231	210,000	1
1997	7	10	26,102		704,428	437.1	5	0	22,351	120	120	0	22,351	10	0	197	206	0.91	0.90	210,000	0	10,878		231	210,000	1
1997	7	11	28,712		708,583	437.3	5	0	24,557	120	120	0	24,557	10	0	197	207	0.91	0.90	210,000	0	11,966		231	210,000	1
1997	8	10	20,234		711,554	437.5	4	0	17,264	120	120	0	17,264	10	0	197	207	0.91	0.90	210,000	0	8,421		231	210,000	1
1997	8	10	20,234		714,540	437.6	4	0	17,248	119	119	0	17,248	10	0	197	207	0.91	0.90	210,000	0	8,421		231	210,000	1
1997	8	11	22,258		717,842	437.7	4	0	18,955	119	119	0	18,955	10	0	197	207	0.91	0.90	210,000	0	9,263		231	210,000	1
1997	9	10	80,306		716,828	437.8	19	0	81,320	119	119	0	81,320	10	0	197	207	0.91	0.90	210,000	0	39,753		231	210,000	1
1997	9	10	80,306		715,789	437.7	19	0	81,345	119	119	0	81,345	10	0	197	207	0.91	0.90	210,000	0	39,753		231	210,000	1
1997	9	10	80,306		719,073	437.8	18	0	77,022	119	119	0	77,022	10	0	197	207	0.91	0.90	210,000	0	37,653		231	210,000	1
1997	10	10	89,779	1,629	714,896	437.8	21	0	92,327	119	119	0	92,327	10	0	197	207	0.91	0.90	210,000	0	45,129		231	210,000	1
1997	10	10	89,779	1,629	714,961	437.7	20	0	88,084	119	119	0	88,084	10	0	197	207	0.91	0.90	210,000	0	43,029		231	210,000	1
1997	10	11	98,757	1,792	715,036	437.7	20	0	96,891	119	119	0	96,891	10	0	197	207	0.91	0.90	210,000	0	47,332		231	210,000	1
1997	11	10	125,707		722,000	437.8	24	15,679	103,064	119	119	0	118,743	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	1
1997	11	10	125,707		722,000	438.0	24	22,748	102,959	119	119	0	125,707	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1997	11	10	125,707		722,000	438.0	24	22,748	102,959	119	119	0	125,707	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1997	12	10	85,301		718,018	437.9	21	0	89,283	119	119	0	89,283	10	0	198	207	0.91	0.90	210,000	0	43,680		231	210,000	0
1997	12	10	85,301		717,368	437.8	20	0	85,951	119	119	0	85,951	10	0	198	207	0.91	0.90	210,000	0	42,021		231	210,000	0
1997	12	11	93,831		717,688	437.8	20	0	93,511	119	119	0	93,511	10	0	198	207	0.91	0.90	210,000	0	45,715		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (14/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1998	1	10	37,713		718,983	437.8	8	0	36,418	119	119	0	36,418	10	0	198	207	0.91	0.90	210,000	0	17,808		231	210,000	1
1998	1	10	37,713		720,292	437.9	8	0	36,404	119	119	0	36,404	10	0	198	207	0.91	0.90	210,000	0	17,808		231	210,000	1
1998	1	11	41,484		716,996	437.8	9	0	44,780	119	119	0	44,780	10	0	198	207	0.91	0.90	210,000	0	21,899		231	210,000	1
1998	2	10	14,321		718,431	437.8	3	0	12,886	119	119	0	12,886	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1998	2	10	14,321		719,871	437.9	3	0	12,881	119	119	0	12,881	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1998	2	8	11,457		721,027	437.9	3	0	10,301	119	119	0	10,301	10	0	198	207	0.91	0.90	210,000	0	5,040		231	210,000	1
1998	3	10	10,654		718,803	437.9	3	0	12,878	119	119	0	12,878	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1998	3	10	10,654		716,571	437.8	3	0	12,886	119	119	0	12,886	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1998	3	11	11,719		714,106	437.7	3	0	14,185	119	119	0	14,185	10	0	197	207	0.91	0.90	210,000	0	6,930		231	210,000	1
1998	4	10	6,628		707,822	437.5	3	0	12,912	120	120	0	12,912	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1998	4	10	6,628		701,514	437.2	3	0	12,936	120	120	0	12,936	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1998	4	10	6,628		695,181	436.9	3	0	12,961	120	120	0	12,961	10	0	197	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1998	5	10	11,143		693,348	436.7	3	0	12,977	120	120	0	12,977	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1998	5	10	11,143		691,506	436.7	3	0	12,984	120	120	0	12,984	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
1998	5	11	12,258		689,473	436.6	3	0	14,291	120	120	0	14,291	10	0	196	206	0.91	0.90	210,000	0	6,930		231	210,000	1
1998	6	10	20,150		692,302	436.6	4	0	17,321	120	120	0	17,321	10	0	196	206	0.91	0.90	210,000	0	8,400		231	210,000	1
1998	6	10	20,150		695,147	436.7	4	0	17,306	120	120	0	17,306	10	0	196	206	0.91	0.90	210,000	0	8,400		231	210,000	1
1998	6	10	20,150		698,006	436.8	4	0	17,290	120	120	0	17,290	10	0	196	206	0.91	0.90	210,000	0	8,400		231	210,000	1
1998	7	10	39,873		703,731	437.0	8	0	34,148	120	120	0	34,148	10	0	197	206	0.91	0.90	210,000	0	16,611		231	210,000	1
1998	7	10	39,873		709,515	437.3	8	0	34,088	120	120	0	34,088	10	0	197	207	0.91	0.90	210,000	0	16,611		231	210,000	1
1998	7	11	43,860		715,946	437.6	8	0	37,429	119	119	0	37,429	10	0	197	207	0.91	0.90	210,000	0	18,272		231	210,000	1
1998	8	10	40,696		717,673	437.8	9	0	38,969	119	119	0	38,969	10	0	197	207	0.91	0.90	210,000	0	19,047		231	210,000	1
1998	8	10	40,696		719,419	437.8	9	0	38,949	119	119	0	38,949	10	0	198	207	0.91	0.90	210,000	0	19,047		231	210,000	1
1998	8	11	44,765		716,609	437.8	10	0	47,576	119	119	0	47,576	10	0	198	207	0.91	0.90	210,000	0	23,262		231	210,000	1
1998	9	10	52,571		720,093	437.8	11	0	49,087	119	119	0	49,087	10	0	198	207	0.91	0.90	210,000	0	24,003		231	210,000	1
1998	9	10	52,571		719,304	437.9	12	0	53,360	119	119	0	53,360	10	0	198	207	0.91	0.90	210,000	0	26,103		231	210,000	1
1998	9	10	52,571		718,502	437.9	12	0	53,373	119	119	0	53,373	10	0	198	207	0.91	0.90	210,000	0	26,103		231	210,000	1
1998	10	10	66,481	1,629	719,506	437.9	15	0	63,848	119	119	0	63,848	10	0	198	207	0.91	0.90	210,000	0	31,227		231	210,000	1
1998	10	10	66,481	1,629	716,194	437.8	16	0	68,165	119	119	0	68,165	10	0	198	207	0.91	0.90	210,000	0	33,327		231	210,000	1
1998	10	11	73,129	1,792	717,251	437.8	15	0	70,280	119	119	0	70,280	10	0	197	207	0.91	0.90	210,000	0	34,350		231	210,000	1
1998	11	10	34,329		718,033	437.8	8	0	33,548	119	119	0	33,548	10	0	198	207	0.91	0.90	210,000	0	16,401		231	210,000	1
1998	11	10	34,329		718,822	437.8	8	0	33,540	119	119	0	33,540	10	0	198	207	0.91	0.90	210,000	0	16,401		231	210,000	1
1998	11	10	34,329		719,620	437.9	8	0	33,532	119	119	0	33,532	10	0	198	207	0.91	0.90	210,000	0	16,401		231	210,000	1
1998	12	10	35,273		718,828	437.9	8	0	36,065	119	119	0	36,065	10	0	198	207	0.91	0.90	210,000	0	17,640		231	210,000	0
1998	12	10	35,273		718,718	437.9	8	0	35,383	119	119	0	35,383	10	0	198	207	0.91	0.90	210,000	0	17,304		231	210,000	0
1998	12	11	38,800		719,213	437.9	8	0	38,305	119	119	0	38,305	10	0	198	207	0.91	0.90	210,000	0	18,734		231	210,000	0



**Table 1-1 Calculation of Annual Energy without Expansion Plant (15/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1999	1	10	78,011		717,865	437.8	18	0	79,359	119	119	0	79,359	10	0	198	207	0.91	0.90	210,000	0	38,808		231	210,000	1
1999	1	10	78,011		716,485	437.8	18	0	79,391	119	119	0	79,391	10	0	197	207	0.91	0.90	210,000	0	38,808		231	210,000	1
1999	1	11	85,812		714,929	437.7	18	0	87,368	119	119	0	87,368	10	0	197	207	0.91	0.90	210,000	0	42,689		231	210,000	1
1999	2	10	30,541		719,437	437.8	6	0	26,034	119	119	0	26,034	10	0	197	207	0.91	0.90	210,000	0	12,726		231	210,000	1
1999	2	10	30,541		719,669	437.9	7	0	30,309	119	119	0	30,309	10	0	198	207	0.91	0.90	210,000	0	14,826		231	210,000	1
1999	2	8	24,433		719,857	437.9	7	0	24,246	119	119	0	24,246	10	0	198	207	0.91	0.90	210,000	0	11,861		231	210,000	1
1999	3	10	25,128		719,269	437.9	6	0	25,715	119	119	0	25,715	10	0	198	207	0.91	0.90	210,000	0	12,579		231	210,000	1
1999	3	10	25,128		718,678	437.9	6	0	25,720	119	119	0	25,720	10	0	198	207	0.91	0.90	210,000	0	12,579		231	210,000	1
1999	3	11	27,641		718,021	437.8	6	0	28,297	119	119	0	28,297	10	0	198	207	0.91	0.90	210,000	0	13,837		231	210,000	1
1999	4	10	35,399		718,979	437.8	8	0	34,441	119	119	0	34,441	10	0	198	207	0.91	0.90	210,000	0	16,842		231	210,000	1
1999	4	10	35,399		719,947	437.9	8	0	34,431	119	119	0	34,431	10	0	198	207	0.91	0.90	210,000	0	16,842		231	210,000	1
1999	4	10	35,399		716,608	437.8	9	0	38,738	119	119	0	38,738	10	0	198	207	0.91	0.90	210,000	0	18,942		231	210,000	1
1999	5	10	36,682		717,718	437.8	8	0	35,571	119	119	0	35,571	10	0	197	207	0.91	0.90	210,000	0	17,388		231	210,000	1
1999	5	10	36,682		718,840	437.8	8	0	35,560	119	119	0	35,560	10	0	198	207	0.91	0.90	210,000	0	17,388		231	210,000	1
1999	5	11	40,350		720,088	437.9	8	0	39,102	119	119	0	39,102	10	0	198	207	0.91	0.90	210,000	0	19,127		231	210,000	1
1999	6	10	112,000		722,000	438.0	24	7,100	102,988	119	119	0	110,088	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	1
1999	6	10	112,000		722,000	438.0	24	9,041	102,959	119	119	0	112,000	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1999	6	10	112,000		722,000	438.0	24	9,041	102,959	119	119	0	112,000	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
1999	7	10	22,024		720,984	438.0	5	0	23,041	119	119	0	23,041	10	0	198	207	0.91	0.90	210,000	0	11,277		231	210,000	0
1999	7	10	22,024		719,960	437.9	5	0	23,047	119	119	0	23,047	10	0	198	207	0.91	0.90	210,000	0	11,277		231	210,000	1
1999	7	11	24,226		718,827	437.9	5	0	25,360	119	119	0	25,360	10	0	198	207	0.91	0.90	210,000	0	12,405		231	210,000	1
1999	8	10	12,662		718,607	437.9	3	0	12,882	119	119	0	12,882	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1999	8	10	12,662		718,386	437.8	3	0	12,883	119	119	0	12,883	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
1999	8	11	13,929		718,142	437.8	3	0	14,172	119	119	0	14,172	10	0	198	207	0.91	0.90	210,000	0	6,930		231	210,000	1
1999	9	10	18,917		720,960	437.9	4	0	16,099	119	119	0	16,099	10	0	198	207	0.91	0.90	210,000	0	7,875		231	210,000	1
1999	9	10	18,917		718,886	437.9	5	0	20,991	119	119	0	20,991	10	0	198	207	0.91	0.90	210,000	0	10,269		231	210,000	0
1999	9	10	18,917		717,403	437.8	5	0	20,400	119	119	0	20,400	10	0	198	207	0.91	0.90	210,000	0	9,975		231	210,000	1
1999	10	10	33,243	1,629	717,789	437.8	7	0	31,228	119	119	0	31,228	10	0	198	207	0.91	0.90	210,000	0	15,267		231	210,000	1
1999	10	10	33,243	1,629	718,178	437.8	7	0	31,225	119	119	0	31,225	10	0	198	207	0.91	0.90	210,000	0	15,267		231	210,000	1
1999	10	11	36,568	1,792	718,611	437.8	7	0	34,343	119	119	0	34,343	10	0	198	207	0.91	0.90	210,000	0	16,794		231	210,000	1
1999	11	10	30,588		718,840	437.9	7	0	30,359	119	119	0	30,359	10	0	198	207	0.91	0.90	210,000	0	14,847		231	210,000	1
1999	11	10	30,588		719,070	437.9	7	0	30,357	119	119	0	30,357	10	0	198	207	0.91	0.90	210,000	0	14,847		231	210,000	1
1999	11	10	30,588		719,303	437.9	7	0	30,355	119	119	0	30,355	10	0	198	207	0.91	0.90	210,000	0	14,847		231	210,000	1
1999	12	10	29,737		717,951	437.8	7	0	31,090	119	119	0	31,090	10	0	198	207	0.91	0.90	210,000	0	15,204		231	210,000	0
1999	12	10	29,737		717,751	437.8	7	0	29,938	119	119	0	29,938	10	0	198	207	0.91	0.90	210,000	0	14,637		231	210,000	0
1999	12	11	32,711		718,146	437.8	7	0	32,316	119	119	0	32,316	10	0	198	207	0.91	0.90	210,000	0	15,800		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (16/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
2000	1	10	29,204		718,188	437.8	7	0	29,162	119	119	0	29,162	10	0	198	207	0.91	0.90	210,000	0	14,259		231	210,000	1
2000	1	10	29,204		718,230	437.8	7	0	29,161	119	119	0	29,161	10	0	198	207	0.91	0.90	210,000	0	14,259		231	210,000	1
2000	1	11	32,124		718,277	437.8	7	0	32,077	119	119	0	32,077	10	0	198	207	0.91	0.90	210,000	0	15,685		231	210,000	1
2000	2	10	51,845		717,334	437.8	12	0	52,789	119	119	0	52,789	10	0	198	207	0.91	0.90	210,000	0	25,809		231	210,000	1
2000	2	10	51,845		716,376	437.8	12	0	52,803	119	119	0	52,803	10	0	197	207	0.91	0.90	210,000	0	25,809		231	210,000	1
2000	2	9	46,661		719,393	437.8	11	0	43,643	119	119	0	43,643	10	0	198	207	0.91	0.90	210,000	0	21,338		231	210,000	1
2000	3	10	31,386		719,741	437.9	7	0	31,039	119	119	0	31,039	10	0	198	207	0.91	0.90	210,000	0	15,183		231	210,000	1
2000	3	10	31,386		720,091	437.9	7	0	31,035	119	119	0	31,035	10	0	198	207	0.91	0.90	210,000	0	15,183		231	210,000	1
2000	3	11	34,524		720,480	437.9	7	0	34,135	119	119	0	34,135	10	0	198	207	0.91	0.90	210,000	0	16,701		231	210,000	1
2000	4	10	32,006		716,629	437.8	8	0	35,857	119	119	0	35,857	10	0	198	207	0.91	0.90	210,000	0	17,535		231	210,000	1
2000	4	10	32,006		717,057	437.8	7	0	31,579	119	119	0	31,579	10	0	197	207	0.91	0.90	210,000	0	15,435		231	210,000	1
2000	4	10	32,006		717,488	437.8	7	0	31,575	119	119	0	31,575	10	0	197	207	0.91	0.90	210,000	0	15,435		231	210,000	1
2000	5	10	10,887		715,485	437.7	3	0	12,891	119	119	0	12,891	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2000	5	10	10,887		713,473	437.7	3	0	12,898	119	119	0	12,898	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2000	5	11	11,976		711,252	437.6	3	0	14,197	120	120	0	14,197	10	0	197	207	0.91	0.90	210,000	0	6,930		231	210,000	1
2000	6	10	23,973		714,751	437.6	5	0	20,474	119	119	0	20,474	10	0	197	207	0.91	0.90	210,000	0	9,996		231	210,000	1
2000	6	10	23,973		718,271	437.7	5	0	20,453	119	119	0	20,453	10	0	197	207	0.91	0.90	210,000	0	9,996		231	210,000	1
2000	6	10	23,973		717,505	437.8	6	0	24,740	119	119	0	24,740	10	0	198	207	0.91	0.90	210,000	0	12,096		231	210,000	1
2000	7	10	15,638		719,831	437.8	3	0	13,312	119	119	0	13,312	10	0	198	207	0.91	0.90	210,000	0	6,510		231	210,000	1
2000	7	10	15,638		717,864	437.9	4	0	17,605	119	119	0	17,605	10	0	198	207	0.91	0.90	210,000	0	8,610		231	210,000	1
2000	7	11	17,202		720,425	437.9	3	0	14,641	119	119	0	14,641	10	0	198	207	0.91	0.90	210,000	0	7,161		231	210,000	1
2000	8	10	54,970		715,652	437.8	14	0	59,743	119	119	0	59,743	10	0	198	207	0.91	0.90	210,000	0	29,211		231	210,000	1
2000	8	10	54,970		719,463	437.8	12	0	51,160	119	119	0	51,160	10	0	198	207	0.91	0.90	210,000	0	25,011		231	210,000	1
2000	8	11	60,467		718,958	437.9	13	0	60,972	119	119	0	60,972	10	0	198	207	0.91	0.90	210,000	0	29,822		231	210,000	1
2000	9	10	31,039		719,255	437.9	7	0	30,742	119	119	0	30,742	10	0	198	207	0.91	0.90	210,000	0	15,036		231	210,000	1
2000	9	10	31,039		719,555	437.9	7	0	30,740	119	119	0	30,740	10	0	198	207	0.91	0.90	210,000	0	15,036		231	210,000	1
2000	9	10	31,039		719,858	437.9	7	0	30,737	119	119	0	30,737	10	0	198	207	0.91	0.90	210,000	0	15,036		231	210,000	1
2000	10	10	42,703	1,629	717,345	437.8	10	0	43,587	119	119	0	43,587	10	0	198	207	0.91	0.90	210,000	0	21,315		231	210,000	1
2000	10	10	42,703	1,629	719,122	437.8	9	0	39,297	119	119	0	39,297	10	0	198	207	0.91	0.90	210,000	0	19,215		231	210,000	1
2000	10	11	46,973	1,792	716,345	437.8	10	0	47,957	119	119	0	47,957	10	0	198	207	0.91	0.90	210,000	0	23,446		231	210,000	1
2000	11	10	35,002		717,233	437.8	8	0	34,115	119	119	0	34,115	10	0	197	207	0.91	0.90	210,000	0	16,674		231	210,000	1
2000	11	10	35,002		718,129	437.8	8	0	34,106	119	119	0	34,106	10	0	198	207	0.91	0.90	210,000	0	16,674		231	210,000	1
2000	11	10	35,002		719,034	437.8	8	0	34,097	119	119	0	34,097	10	0	198	207	0.91	0.90	210,000	0	16,674		231	210,000	1
2000	12	10	32,577		718,331	437.8	8	0	33,280	119	119	0	33,280	10	0	198	207	0.91	0.90	210,000	0	16,275		231	210,000	0
2000	12	10	32,577		718,226	437.8	8	0	32,682	119	119	0	32,682	10	0	198	207	0.91	0.90	210,000	0	15,981		231	210,000	0
2000	12	11	35,835		718,727	437.8	7	0	35,334	119	119	0	35,334	10	0	198	207	0.91	0.90	210,000	0	17,279		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (17/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
2001	1	10	39,973		720,363	437.9	9	0	38,337	119	119	0	38,337	10	0	198	207	0.91	0.90	210,000	0	18,753		231	210,000	1
2001	1	10	39,973		717,699	437.9	10	0	42,636	119	119	0	42,636	10	0	198	207	0.91	0.90	210,000	0	20,853		231	210,000	1
2001	1	11	43,970		719,487	437.8	9	0	42,182	119	119	0	42,182	10	0	198	207	0.91	0.90	210,000	0	20,628		231	210,000	1
2001	2	10	33,248		720,110	437.9	8	0	32,625	119	119	0	32,625	10	0	198	207	0.91	0.90	210,000	0	15,960		231	210,000	1
2001	2	10	33,248		720,739	437.9	8	0	32,619	119	119	0	32,619	10	0	198	207	0.91	0.90	210,000	0	15,960		231	210,000	1
2001	2	8	26,598		717,799	437.9	9	0	29,539	119	119	0	29,539	10	0	198	207	0.91	0.90	210,000	0	14,448		231	210,000	1
2001	3	10	11,557		716,467	437.8	3	0	12,888	119	119	0	12,888	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2001	3	10	11,557		715,131	437.7	3	0	12,893	119	119	0	12,893	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2001	3	11	12,713		713,655	437.7	3	0	14,189	119	119	0	14,189	10	0	197	207	0.91	0.90	210,000	0	6,930		231	210,000	1
2001	4	10	31,707		718,331	437.7	6	0	27,032	119	119	0	27,032	10	0	197	207	0.91	0.90	210,000	0	13,209		231	210,000	1
2001	4	10	31,707		718,733	437.8	7	0	31,306	119	119	0	31,306	10	0	198	207	0.91	0.90	210,000	0	15,309		231	210,000	1
2001	4	10	31,707		719,138	437.9	7	0	31,302	119	119	0	31,302	10	0	198	207	0.91	0.90	210,000	0	15,309		231	210,000	1
2001	5	10	15,552		721,427	437.9	3	0	13,263	119	119	0	13,263	10	0	198	207	0.91	0.90	210,000	0	6,489		231	210,000	1
2001	5	10	15,552		719,425	437.9	4	0	17,554	119	119	0	17,554	10	0	198	207	0.91	0.90	210,000	0	8,589		231	210,000	1
2001	5	11	17,107		717,210	437.8	4	0	19,321	119	119	0	19,321	10	0	198	207	0.91	0.90	210,000	0	9,448		231	210,000	1
2001	6	10	12,657		716,979	437.8	3	0	12,888	119	119	0	12,888	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2001	6	10	12,657		716,747	437.8	3	0	12,889	119	119	0	12,889	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2001	6	10	12,657		716,514	437.8	3	0	12,890	119	119	0	12,890	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2001	7	10	32,476		717,024	437.8	7	0	31,966	119	119	0	31,966	10	0	197	207	0.91	0.90	210,000	0	15,624		231	210,000	1
2001	7	10	32,476		717,539	437.8	7	0	31,962	119	119	0	31,962	10	0	197	207	0.91	0.90	210,000	0	15,624		231	210,000	1
2001	7	11	35,724		718,111	437.8	7	0	35,152	119	119	0	35,152	10	0	198	207	0.91	0.90	210,000	0	17,186		231	210,000	1
2001	8	10	22,735		717,178	437.8	6	0	23,668	119	119	0	23,668	10	0	198	207	0.91	0.90	210,000	0	11,571		231	210,000	1
2001	8	10	22,735		720,547	437.9	5	0	19,366	119	119	0	19,366	10	0	198	207	0.91	0.90	210,000	0	9,471		231	210,000	1
2001	8	11	25,008		719,539	437.9	6	0	26,016	119	119	0	26,016	10	0	198	207	0.91	0.90	210,000	0	12,728		231	210,000	1
2001	9	10	30,238		719,726	437.9	7	0	30,051	119	119	0	30,051	10	0	198	207	0.91	0.90	210,000	0	14,700		231	210,000	1
2001	9	10	30,238		719,915	437.9	7	0	30,049	119	119	0	30,049	10	0	198	207	0.91	0.90	210,000	0	14,700		231	210,000	1
2001	9	10	30,238		720,106	437.9	7	0	30,047	119	119	0	30,047	10	0	198	207	0.91	0.90	210,000	0	14,700		231	210,000	1
2001	10	10	59,352	1,629	715,766	437.8	14	0	62,064	119	119	0	62,064	10	0	198	207	0.91	0.90	210,000	0	30,345		231	210,000	1
2001	10	10	59,352	1,629	720,015	437.8	12	0	53,475	119	119	0	53,475	10	0	198	207	0.91	0.90	210,000	0	26,145		231	210,000	1
2001	10	11	65,288	1,792	715,234	437.8	14	0	68,277	119	119	0	68,277	10	0	198	207	0.91	0.90	210,000	0	33,379		231	210,000	1
2001	11	10	35,227		720,437	437.8	7	0	30,024	119	119	0	30,024	10	0	198	207	0.91	0.90	210,000	0	14,679		231	210,000	1
2001	11	10	35,227		717,060	437.9	9	0	38,604	119	119	0	38,604	10	0	198	207	0.91	0.90	210,000	0	18,879		231	210,000	1
2001	11	10	35,227		717,965	437.8	8	0	34,322	119	119	0	34,322	10	0	198	207	0.91	0.90	210,000	0	16,779		231	210,000	1
2001	12	10	41,612		719,513	437.9	9	0	40,064	119	119	0	40,064	10	0	198	207	0.91	0.90	210,000	0	19,593		231	210,000	0
2001	12	10	41,612		719,784	437.9	10	0	41,341	119	119	0	41,341	10	0	198	207	0.91	0.90	210,000	0	20,223		231	210,000	0
2001	12	11	45,773		715,662	437.8	11	0	49,895	119	119	0	49,895	10	0	198	207	0.91	0.90	210,000	0	24,394		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (18/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
2002	1	10	20,217		718,652	437.8	4	0	17,227	119	119	0	17,227	10	0	197	207	0.91	0.90	210,000	0	8,421		231	210,000	1
2002	1	10	20,217		717,352	437.8	5	0	21,518	119	119	0	21,518	10	0	198	207	0.91	0.90	210,000	0	10,521		231	210,000	1
2002	1	11	22,239		720,651	437.9	4	0	18,940	119	119	0	18,940	10	0	198	207	0.91	0.90	210,000	0	9,263		231	210,000	1
2002	2	10	11,400		719,173	437.9	3	0	12,878	119	119	0	12,878	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2002	2	10	11,400		717,689	437.8	3	0	12,883	119	119	0	12,883	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2002	2	8	9,120		716,498	437.8	3	0	10,311	119	119	0	10,311	10	0	197	207	0.91	0.90	210,000	0	5,040		231	210,000	1
2002	3	10	7,926		711,524	437.6	3	0	12,900	119	119	0	12,900	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2002	3	10	7,926		706,531	437.4	3	0	12,919	120	120	0	12,919	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2002	3	11	8,719		701,016	437.2	3	0	14,234	120	120	0	14,234	10	0	197	206	0.91	0.90	210,000	0	6,930		231	210,000	1
2002	4	10	49,671		708,169	437.2	10	0	42,518	120	120	0	42,518	10	0	197	207	0.91	0.90	210,000	0	20,706		231	210,000	1
2002	4	10	49,671		715,414	437.5	10	0	42,427	120	120	0	42,427	10	0	197	207	0.91	0.90	210,000	0	20,706		231	210,000	1
2002	4	10	49,671		718,427	437.8	11	0	46,659	119	119	0	46,659	10	0	197	207	0.91	0.90	210,000	0	22,806		231	210,000	1
2002	5	10	31,333		718,755	437.8	7	0	31,005	119	119	0	31,005	10	0	198	207	0.91	0.90	210,000	0	15,162		231	210,000	1
2002	5	10	31,333		719,087	437.9	7	0	31,002	119	119	0	31,002	10	0	198	207	0.91	0.90	210,000	0	15,162		231	210,000	1
2002	5	11	34,467		719,456	437.9	7	0	34,098	119	119	0	34,098	10	0	198	207	0.91	0.90	210,000	0	16,678		231	210,000	1
2002	6	10	27,567		719,245	437.9	6	0	27,778	119	119	0	27,778	10	0	198	207	0.91	0.90	210,000	0	13,587		231	210,000	1
2002	6	10	27,567		719,033	437.9	6	0	27,779	119	119	0	27,779	10	0	198	207	0.91	0.90	210,000	0	13,587		231	210,000	1
2002	6	10	27,567		718,820	437.9	6	0	27,781	119	119	0	27,781	10	0	198	207	0.91	0.90	210,000	0	13,587		231	210,000	1
2002	7	10	12,355		718,292	437.8	3	0	12,883	119	119	0	12,883	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2002	7	10	12,355		717,762	437.8	3	0	12,885	119	119	0	12,885	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2002	7	11	13,591		717,178	437.8	3	0	14,176	119	119	0	14,176	10	0	197	207	0.91	0.90	210,000	0	6,930		231	210,000	1
2002	8	10	25,849		721,000	437.9	5	0	22,026	119	119	0	22,026	10	0	198	207	0.91	0.90	210,000	0	10,773		231	210,000	1
2002	8	10	25,849		720,542	437.9	6	0	26,307	119	119	0	26,307	10	0	198	207	0.91	0.90	210,000	0	12,873		231	210,000	1
2002	8	11	28,434		720,035	437.9	6	0	28,942	119	119	0	28,942	10	0	198	207	0.91	0.90	210,000	0	14,160		231	210,000	1
2002	9	10	30,843		720,316	437.9	7	0	30,561	119	119	0	30,561	10	0	198	207	0.91	0.90	210,000	0	14,952		231	210,000	1
2002	9	10	30,843		720,557	437.9	7	0	30,601	119	119	0	30,601	10	0	198	207	0.91	0.90	210,000	0	14,973		231	210,000	0
2002	9	10	30,843		720,585	437.9	7	0	30,815	119	119	0	30,815	10	0	198	207	0.91	0.90	210,000	0	15,078		231	210,000	0
2002	10	10	29,633	1,629	720,435	437.9	7	0	28,154	119	119	0	28,154	10	0	198	207	0.91	0.90	210,000	0	13,776		231	210,000	1
2002	10	10	29,633	1,629	720,283	437.9	7	0	28,156	119	119	0	28,156	10	0	198	207	0.91	0.90	210,000	0	13,776		231	210,000	1
2002	10	11	32,596	1,792	720,114	437.9	7	0	30,973	119	119	0	30,973	10	0	198	207	0.91	0.90	210,000	0	15,154		231	210,000	1
2002	11	10	61,551		716,343	437.8	15	0	65,323	119	119	0	65,323	10	0	198	207	0.91	0.90	210,000	0	31,941		231	210,000	1
2002	11	10	61,551		716,836	437.8	14	0	61,057	119	119	0	61,057	10	0	197	207	0.91	0.90	210,000	0	29,841		231	210,000	1
2002	11	10	61,551		717,338	437.8	14	0	61,048	119	119	0	61,048	10	0	197	207	0.91	0.90	210,000	0	29,841		231	210,000	1
2002	12	10	46,131		720,099	437.9	10	0	43,370	119	119	0	43,370	10	0	198	207	0.91	0.90	210,000	0	21,210		231	210,000	0
2002	12	10	46,131		716,195	437.8	12	0	50,035	119	119	0	50,035	10	0	198	207	0.91	0.90	210,000	0	24,465		231	210,000	0
2002	12	11	50,744		715,837	437.7	11	0	51,102	119	119	0	51,102	10	0	197	207	0.91	0.90	210,000	0	24,971		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (19/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
2003	1	10	42,961		717,896	437.8	10	0	40,902	119	119	0	40,902	10	0	197	207	0.91	0.90	210,000	0	19,992		231	210,000	1
2003	1	10	42,961		719,980	437.9	10	0	40,877	119	119	0	40,877	10	0	198	207	0.91	0.90	210,000	0	19,992		231	210,000	1
2003	1	11	47,257		717,547	437.9	11	0	49,691	119	119	0	49,691	10	0	198	207	0.91	0.90	210,000	0	24,301		231	210,000	1
2003	2	10	23,124		720,964	437.9	5	0	19,707	119	119	0	19,707	10	0	198	207	0.91	0.90	210,000	0	9,639		231	210,000	1
2003	2	10	23,124		720,097	437.9	6	0	23,991	119	119	0	23,991	10	0	198	207	0.91	0.90	210,000	0	11,739		231	210,000	1
2003	2	8	18,499		719,399	437.9	6	0	19,197	119	119	0	19,197	10	0	198	207	0.91	0.90	210,000	0	9,391		231	210,000	1
2003	3	10	37,129		720,600	437.9	8	0	35,928	119	119	0	35,928	10	0	198	207	0.91	0.90	210,000	0	17,577		231	210,000	1
2003	3	10	37,129		717,498	437.9	9	0	40,232	119	119	0	40,232	10	0	198	207	0.91	0.90	210,000	0	19,677		231	210,000	1
2003	3	11	40,842		718,798	437.8	8	0	39,542	119	119	0	39,542	10	0	198	207	0.91	0.90	210,000	0	19,335		231	210,000	1
2003	4	10	38,232		720,151	437.9	9	0	36,878	119	119	0	36,878	10	0	198	207	0.91	0.90	210,000	0	18,039		231	210,000	1
2003	4	10	38,232		717,202	437.8	10	0	41,181	119	119	0	41,181	10	0	198	207	0.91	0.90	210,000	0	20,139		231	210,000	1
2003	4	10	38,232		718,538	437.8	9	0	36,896	119	119	0	36,896	10	0	198	207	0.91	0.90	210,000	0	18,039		231	210,000	1
2003	5	10	40,726		720,282	437.9	9	0	38,982	119	119	0	38,982	10	0	198	207	0.91	0.90	210,000	0	19,068		231	210,000	1
2003	5	10	40,726		717,727	437.9	10	0	43,281	119	119	0	43,281	10	0	198	207	0.91	0.90	210,000	0	21,168		231	210,000	1
2003	5	11	44,799		719,636	437.8	9	0	42,890	119	119	0	42,890	10	0	198	207	0.91	0.90	210,000	0	20,975		231	210,000	1
2003	6	10	7,742		714,489	437.8	3	0	12,889	119	119	0	12,889	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2003	6	10	7,742		709,322	437.5	3	0	12,908	120	120	0	12,908	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2003	6	10	7,742		704,135	437.3	3	0	12,928	120	120	0	12,928	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2003	7	10	19,969		707,033	437.3	4	0	17,071	120	120	0	17,071	10	0	197	207	0.91	0.90	210,000	0	8,316		231	210,000	1
2003	7	10	19,969		709,945	437.4	4	0	17,056	120	120	0	17,056	10	0	197	207	0.91	0.90	210,000	0	8,316		231	210,000	1
2003	7	11	21,966		713,166	437.5	4	0	18,745	120	120	0	18,745	10	0	197	207	0.91	0.90	210,000	0	9,148		231	210,000	1
2003	8	10	38,715		718,876	437.7	8	0	33,005	119	119	0	33,005	10	0	197	207	0.91	0.90	210,000	0	16,128		231	210,000	1
2003	8	10	38,715		720,328	437.9	9	0	37,263	119	119	0	37,263	10	0	198	207	0.91	0.90	210,000	0	18,228		231	210,000	1
2003	8	11	42,586		717,191	437.9	10	0	45,723	119	119	0	45,723	10	0	198	207	0.91	0.90	210,000	0	22,361		231	210,000	1
2003	9	10	36,456		718,297	437.8	8	0	35,351	119	119	0	35,351	10	0	198	207	0.91	0.90	210,000	0	17,283		231	210,000	1
2003	9	10	36,456		719,414	437.9	8	0	35,339	119	119	0	35,339	10	0	198	207	0.91	0.90	210,000	0	17,283		231	210,000	1
2003	9	10	36,456		720,544	437.9	8	0	35,327	119	119	0	35,327	10	0	198	207	0.91	0.90	210,000	0	17,283		231	210,000	1
2003	10	10	11,857	1,629	717,891	437.9	3	0	12,880	119	119	0	12,880	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2003	10	10	11,857	1,629	715,229	437.8	3	0	12,890	119	119	0	12,890	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2003	10	11	13,043	1,792	712,289	437.6	3	0	14,191	119	119	0	14,191	10	0	197	207	0.91	0.90	210,000	0	6,930		231	210,000	1
2003	11	10	13,918		713,302	437.6	3	0	12,905	119	119	0	12,905	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2003	11	10	13,918		714,319	437.6	3	0	12,901	119	119	0	12,901	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2003	11	10	13,918		715,341	437.7	3	0	12,897	119	119	0	12,897	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2003	12	10	6,448		708,881	437.5	3	0	12,907	120	120	0	12,907	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	0
2003	12	10	6,448		702,397	437.3	3	0	12,932	120	120	0	12,932	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2003	12	11	7,093		695,235	436.9	3	0	14,255	120	120	0	14,255	10	0	197	206	0.91	0.90	210,000	0	6,930		231	210,000	1

**Table 1-1 Calculation of Annual Energy without Expansion Plant (20/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
2004	1	10	8,207		690,459	436.7	3	0	12,983	120	120	0	12,983	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
2004	1	10	8,207		685,664	436.5	3	0	13,001	120	120	0	13,001	10	0	196	206	0.91	0.90	210,000	0	6,300		231	210,000	1
2004	1	11	9,027		680,368	436.2	3	0	14,323	121	121	0	14,323	10	0	196	206	0.91	0.90	210,000	0	6,930		231	210,000	1
2004	2	10	5,822		673,144	435.9	3	0	13,046	121	121	0	13,046	10	0	195	205	0.91	0.90	210,000	0	6,300		231	210,000	1
2004	2	10	5,822		665,891	435.6	3	0	13,076	121	121	0	13,076	10	0	195	205	0.91	0.90	210,000	0	6,300		231	210,000	1
2004	2	9	5,240		659,336	435.3	3	0	11,795	121	121	0	11,795	10	0	195	205	0.91	0.90	210,000	0	5,670		231	210,000	1
2004	3	10	7,188		653,392	435.0	3	0	13,132	122	122	0	13,132	10	0	194	204	0.91	0.90	210,000	0	6,300		231	210,000	1
2004	3	10	7,188		647,530	434.7	3	0	13,051	121	121	0	13,051	10	0	194	204	0.91	0.90	208,595	0	6,258		231	208,595	1
2004	3	11	7,907		641,052	434.5	3	0	14,384	121	121	0	14,384	10	0	194	204	0.91	0.90	208,566	0	6,883		231	208,566	1
2004	4	10	22,315		644,044	434.4	4	0	19,324	121	121	0	19,324	10	0	194	204	0.91	0.90	208,586	0	9,240		231	208,586	1
2004	4	10	22,315		647,054	434.5	4	0	19,305	121	121	0	19,305	10	0	194	204	0.91	0.90	208,599	0	9,241		231	208,599	1
2004	4	10	22,315		650,083	434.7	4	0	19,286	121	121	0	19,286	10	0	194	204	0.91	0.90	208,612	0	9,241		231	208,612	1
2004	5	10	28,755		654,007	434.8	6	0	24,831	121	121	0	24,831	10	0	194	204	0.91	0.90	208,624	0	11,912		231	208,624	1
2004	5	10	28,755		657,801	435.0	6	0	24,961	121	121	0	24,961	10	0	194	204	0.91	0.90	209,741	0	11,976		231	209,741	1
2004	5	11	31,631		661,970	435.2	6	0	27,462	121	121	0	27,462	10	0	195	204	0.91	0.90	210,000	0	13,190		231	210,000	1
2004	6	10	44,331		667,888	435.4	9	0	38,413	121	121	0	38,413	10	0	195	205	0.91	0.90	210,000	0	18,480		231	210,000	1
2004	6	10	44,331		673,880	435.7	9	0	38,340	121	121	0	38,340	10	0	195	205	0.91	0.90	210,000	0	18,480		231	210,000	1
2004	6	10	44,331		679,944	435.9	9	0	38,267	121	121	0	38,267	10	0	195	205	0.91	0.90	210,000	0	18,480		231	210,000	1
2004	7	10	41,971		685,758	436.2	8	0	36,157	121	121	0	36,157	10	0	196	206	0.91	0.90	210,000	0	17,493		231	210,000	1
2004	7	10	41,971		691,636	436.5	8	0	36,094	120	120	0	36,094	10	0	196	206	0.91	0.90	210,000	0	17,493		231	210,000	1
2004	7	11	46,168		698,176	436.8	8	0	39,628	120	120	0	39,628	10	0	196	206	0.91	0.90	210,000	0	19,242		231	210,000	1
2004	8	10	30,177		702,489	437.0	6	0	25,863	120	120	0	25,863	10	0	197	206	0.91	0.90	210,000	0	12,579		231	210,000	1
2004	8	10	30,177		706,837	437.2	6	0	25,829	120	120	0	25,829	10	0	197	207	0.91	0.90	210,000	0	12,579		231	210,000	1
2004	8	11	33,194		711,658	437.4	6	0	28,373	120	120	0	28,373	10	0	197	207	0.91	0.90	210,000	0	13,837		231	210,000	1
2004	9	10	34,463		716,710	437.6	7	0	29,411	119	119	0	29,411	10	0	197	207	0.91	0.90	210,000	0	14,364		231	210,000	1
2004	9	10	34,463		717,491	437.8	8	0	33,682	119	119	0	33,682	10	0	197	207	0.91	0.90	210,000	0	16,464		231	210,000	1
2004	9	10	34,463		718,280	437.8	8	0	33,674	119	119	0	33,674	10	0	198	207	0.91	0.90	210,000	0	16,464		231	210,000	1
2004	10	10	51,375	1,629	717,039	437.8	12	0	50,987	119	119	0	50,987	10	0	198	207	0.91	0.90	210,000	0	24,927		231	210,000	1
2004	10	10	51,375	1,629	720,106	437.8	11	0	46,679	119	119	0	46,679	10	0	198	207	0.91	0.90	210,000	0	22,827		231	210,000	1
2004	10	11	56,512	1,792	718,770	437.9	12	0	56,056	119	119	0	56,056	10	0	198	207	0.91	0.90	210,000	0	27,420		231	210,000	1
2004	11	10	50,400		717,633	437.8	12	0	51,537	119	119	0	51,537	10	0	198	207	0.91	0.90	210,000	0	25,200		231	210,000	1
2004	11	10	50,400		716,478	437.8	12	0	51,554	119	119	0	51,554	10	0	197	207	0.91	0.90	210,000	0	25,200		231	210,000	1
2004	11	10	50,400		719,634	437.8	11	0	47,244	119	119	0	47,244	10	0	198	207	0.91	0.90	210,000	0	23,100		231	210,000	1
2004	12	10	74,094		715,984	437.8	18	0	77,744	119	119	0	77,744	10	0	198	207	0.91	0.90	210,000	0	38,010		231	210,000	0
2004	12	10	74,094		715,379	437.7	17	0	74,698	119	119	0	74,698	10	0	197	207	0.91	0.90	210,000	0	36,498		231	210,000	0
2004	12	11	81,503		715,512	437.7	17	0	81,370	119	119	0	81,370	10	0	197	207	0.91	0.90	210,000	0	39,755		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (21/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
2005	1	10	24,488		719,121	437.8	5	0	20,878	119	119	0	20,878	10	0	197	207	0.91	0.90	210,000	0	10,206		231	210,000	1
2005	1	10	24,488		718,446	437.9	6	0	25,163	119	119	0	25,163	10	0	198	207	0.91	0.90	210,000	0	12,306		231	210,000	1
2005	1	11	26,936		717,697	437.8	6	0	27,685	119	119	0	27,685	10	0	198	207	0.91	0.90	210,000	0	13,537		231	210,000	1
2005	2	10	24,414		717,023	437.8	6	0	25,088	119	119	0	25,088	10	0	197	207	0.91	0.90	210,000	0	12,264		231	210,000	1
2005	2	10	24,414		720,654	437.9	5	0	20,783	119	119	0	20,783	10	0	198	207	0.91	0.90	210,000	0	10,164		231	210,000	1
2005	2	8	19,531		720,133	437.9	6	0	20,052	119	119	0	20,052	10	0	198	207	0.91	0.90	210,000	0	9,811		231	210,000	1
2005	3	10	9,878		717,128	437.8	3	0	12,883	119	119	0	12,883	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2005	3	10	9,878		714,112	437.7	3	0	12,894	119	119	0	12,894	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2005	3	11	10,865		710,780	437.6	3	0	14,197	120	120	0	14,197	10	0	197	207	0.91	0.90	210,000	0	6,930		231	210,000	1
2005	4	10	12,649		710,516	437.5	3	0	12,913	120	120	0	12,913	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2005	4	10	12,649		710,251	437.5	3	0	12,914	120	120	0	12,914	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2005	4	10	12,649		709,985	437.5	3	0	12,915	120	120	0	12,915	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2005	5	10	13,263		710,333	437.5	3	0	12,915	120	120	0	12,915	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2005	5	10	13,263		710,682	437.5	3	0	12,914	120	120	0	12,914	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2005	5	11	14,589		711,068	437.5	3	0	14,203	120	120	0	14,203	10	0	197	207	0.91	0.90	210,000	0	6,930		231	210,000	1
2005	6	10	13,110		711,266	437.5	3	0	12,911	120	120	0	12,911	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2005	6	10	13,110		711,466	437.5	3	0	12,910	120	120	0	12,910	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2005	6	10	13,110		711,666	437.5	3	0	12,910	120	120	0	12,910	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2005	7	10	15,966		713,996	437.6	3	0	13,636	119	119	0	13,636	10	0	197	207	0.91	0.90	210,000	0	6,657		231	210,000	1
2005	7	10	15,966		716,336	437.7	3	0	13,627	119	119	0	13,627	10	0	197	207	0.91	0.90	210,000	0	6,657		231	210,000	1
2005	7	11	17,563		718,921	437.8	3	0	14,978	119	119	0	14,978	10	0	198	207	0.91	0.90	210,000	0	7,323		231	210,000	1
2005	8	10	11,197		717,234	437.8	3	0	12,885	119	119	0	12,885	10	0	198	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2005	8	10	11,197		715,540	437.7	3	0	12,891	119	119	0	12,891	10	0	197	207	0.91	0.90	210,000	0	6,300		231	210,000	1
2005	8	11	12,317		713,669	437.7	3	0	14,188	119	119	0	14,188	10	0	197	207	0.91	0.90	210,000	0	6,930		231	210,000	1
2005	9	10	53,809		717,276	437.7	12	0	50,203	119	119	0	50,203	10	0	197	207	0.91	0.90	210,000	0	24,528		231	210,000	1
2005	9	10	53,809		716,607	437.8	13	0	54,478	119	119	0	54,478	10	0	197	207	0.91	0.90	210,000	0	26,628		231	210,000	1
2005	9	10	53,809		715,928	437.7	13	0	54,488	119	119	0	54,488	10	0	197	207	0.91	0.90	210,000	0	26,628		231	210,000	1
2005	10	10	39,311	1,629	717,173	437.8	8	0	36,437	119	119	0	36,437	10	0	197	207	0.91	0.90	210,000	0	17,808		231	210,000	1
2005	10	10	39,311	1,629	718,431	437.8	8	0	36,424	119	119	0	36,424	10	0	198	207	0.91	0.90	210,000	0	17,808		231	210,000	1
2005	10	11	43,242	1,792	719,830	437.9	8	0	40,050	119	119	0	40,050	10	0	198	207	0.91	0.90	210,000	0	19,589		231	210,000	1
2005	11	10	98,866		717,265	437.8	24	0	101,432	119	119	0	101,432	10	0	198	207	0.91	0.90	210,000	0	49,602		231	210,000	1
2005	11	10	98,866		714,621	437.7	24	0	101,510	119	119	0	101,510	10	0	197	207	0.91	0.90	210,000	0	49,602		231	210,000	1
2005	11	10	98,866		716,261	437.7	23	0	97,226	119	119	0	97,226	10	0	197	207	0.91	0.90	210,000	0	47,502		231	210,000	1
2005	12	10	51,801		716,454	437.7	12	0	51,608	119	119	0	51,608	10	0	197	207	0.91	0.90	210,000	0	25,221		231	210,000	0
2005	12	10	51,801		716,477	437.7	12	0	51,778	119	119	0	51,778	10	0	197	207	0.91	0.90	210,000	0	25,305		231	210,000	0
2005	12	11	56,981		716,836	437.8	12	0	56,622	119	119	0	56,622	10	0	197	207	0.91	0.90	210,000	0	27,674		231	210,000	0

**Table 1-1 Calculation of Annual Energy without Expansion Plant (22/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (MW)	Power expansion (MW)	Energy by existing units (GWh)	Energy by expansion units (GWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
2006	1	10	53,941		716,206	437.8	13	0	54,570	119	119	0	54,570	10	0	197	207	0.91	0.90	210,000	0	26,670		231	210,000	1
2006	1	10	53,941		719,896	437.8	12	0	50,251	119	119	0	50,251	10	0	198	207	0.91	0.90	210,000	0	24,570		231	210,000	1
2006	1	11	59,335		719,257	437.9	13	0	59,973	119	119	0	59,973	10	0	198	207	0.91	0.90	210,000	0	29,337		231	210,000	1
2006	2	10	27,967		719,102	437.9	7	0	28,123	119	119	0	28,123	10	0	198	207	0.91	0.90	210,000	0	13,755		231	210,000	1
2006	2	10	27,967		718,945	437.9	7	0	28,124	119	119	0	28,124	10	0	198	207	0.91	0.90	210,000	0	13,755		231	210,000	1
2006	2	8	22,374		718,819	437.9	7	0	22,500	119	119	0	22,500	10	0	198	207	0.91	0.90	210,000	0	11,004		231	210,000	1
2006	3	10	38,004		720,159	437.9	9	0	36,663	119	119	0	36,663	10	0	198	207	0.91	0.90	210,000	0	17,934		231	210,000	1
2006	3	10	38,004		717,196	437.8	10	0	40,966	119	119	0	40,966	10	0	198	207	0.91	0.90	210,000	0	20,034		231	210,000	1
2006	3	11	41,804		718,652	437.8	9	0	40,348	119	119	0	40,348	10	0	198	207	0.91	0.90	210,000	0	19,727		231	210,000	1
2006	4	10	30,471		718,850	437.9	7	0	30,273	119	119	0	30,273	10	0	198	207	0.91	0.90	210,000	0	14,805		231	210,000	1
2006	4	10	30,471		719,049	437.9	7	0	30,271	119	119	0	30,271	10	0	198	207	0.91	0.90	210,000	0	14,805		231	210,000	1
2006	4	10	30,471		719,251	437.9	7	0	30,270	119	119	0	30,270	10	0	198	207	0.91	0.90	210,000	0	14,805		231	210,000	1
2006	5	10	27,832		719,089	437.9	7	0	27,994	119	119	0	27,994	10	0	198	207	0.91	0.90	210,000	0	13,692		231	210,000	1
2006	5	10	27,832		718,926	437.9	7	0	27,995	119	119	0	27,995	10	0	198	207	0.91	0.90	210,000	0	13,692		231	210,000	1
2006	5	11	30,615		718,745	437.9	7	0	30,796	119	119	0	30,796	10	0	198	207	0.91	0.90	210,000	0	15,061		231	210,000	1
2006	6	10	33,007		719,335	437.9	8	0	32,417	119	119	0	32,417	10	0	198	207	0.91	0.90	210,000	0	15,855		231	210,000	1
2006	6	10	33,007		719,930	437.9	8	0	32,412	119	119	0	32,412	10	0	198	207	0.91	0.90	210,000	0	15,855		231	210,000	1
2006	6	10	33,007		720,531	437.9	8	0	32,406	119	119	0	32,406	10	0	198	207	0.91	0.90	210,000	0	15,855		231	210,000	1
2006	7	10	45,011		718,619	437.9	11	0	46,923	119	119	0	46,923	10	0	198	207	0.91	0.90	210,000	0	22,953		231	210,000	1
2006	7	10	45,011		716,681	437.8	11	0	46,949	119	119	0	46,949	10	0	198	207	0.91	0.90	210,000	0	22,953		231	210,000	1
2006	7	11	49,512		719,279	437.8	10	0	46,915	119	119	0	46,915	10	0	198	207	0.91	0.90	210,000	0	22,938		231	210,000	1
2006	8	10	17,651		717,605	437.8	5	0	19,325	119	119	0	19,325	10	0	198	207	0.91	0.90	210,000	0	9,450		231	210,000	1
2006	8	10	17,651		720,228	437.9	4	0	15,028	119	119	0	15,028	10	0	198	207	0.91	0.90	210,000	0	7,350		231	210,000	1
2006	8	11	19,416		718,392	437.9	5	0	21,252	119	119	0	21,252	10	0	198	207	0.91	0.90	210,000	0	10,395		231	210,000	1
2006	9	10	29,238		718,428	437.8	7	0	29,203	119	119	0	29,203	10	0	198	207	0.91	0.90	210,000	0	14,280		231	210,000	1
2006	9	10	29,238		718,464	437.8	7	0	29,202	119	119	0	29,202	10	0	198	207	0.91	0.90	210,000	0	14,280		231	210,000	1
2006	9	10	29,238		718,500	437.8	7	0	29,202	119	119	0	29,202	10	0	198	207	0.91	0.90	210,000	0	14,280		231	210,000	1
2006	10	10	52,291	1,629	717,407	437.8	12	0	51,756	119	119	0	51,756	10	0	198	207	0.91	0.90	210,000	0	25,305		231	210,000	1
2006	10	10	52,291	1,629	716,296	437.8	12	0	51,772	119	119	0	51,772	10	0	197	207	0.91	0.90	210,000	0	25,305		231	210,000	1
2006	10	11	57,520	1,792	719,819	437.8	11	0	52,205	119	119	0	52,205	10	0	198	207	0.91	0.90	210,000	0	25,526		231	210,000	1
2006	11	10	211,050		722,000	438.0	24	105,877	102,992	119	119	0	208,869	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	1
2006	11	10	211,050		722,000	438.0	24	108,091	102,959	119	119	0	211,050	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
2006	11	10	211,050		722,000	438.0	24	108,091	102,959	119	119	0	211,050	10	0	198	207	0.91	0.90	210,000	0	50,400		231	210,000	0
2006	12	10	77,765		716,907	437.9	19	0	82,858	119	119	0	82,858	10	0	198	207	0.91	0.90	210,000	0	40,530		231	210,000	0
2006	12	10	77,765		716,081	437.7	18	0	78,591	119	119	0	78,591	10	0	197	207	0.91	0.90	210,000	0	38,409		231	210,000	0
2006	12	11	85,541		716,251	437.7	18	0	85,371	119	119	0	85,371	10	0	197	207	0.91	0.90	210,000	0	41,719		231	210,000	0



**Table 1-2 Calculation of Annual Energy with Expansion Plant (1/22)**

Victoria Reservoir Ini	512240	Randenigala Reservoir Ini	860000	Peak hour	3	Normal WL	430
Victoria Reservoir Max	722000	Randenigala Reservoir Ma	860000	Max output	438	Normal WL exist	435
Vicotira Resv MOL	32000	Vicotira Resv MOL	5000	Max for expansion	228	tailwater level	varies
Peak hour	3	Firm plant discharge	263	Max Q for existing	123		
Victoria Energy	15,749,935	Randenigala Energy	0	Max Q for expansion	140		
Victoria Annual Energy	716	Average hours	4.541	Total Energy	15,749,935		
Dependable power	392,603	Average power	428	Firm Energy	468		

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillout or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
				162.9	512,240	432.1																				
1985	1	10	23,350		509,256	427.9	3	0	26,334	244	120	124	26,334	11	12	186	185	0.90	0.92	196,617	205,845	5,899	6,175	231	402,462	3
1985	1	10	23,350		506,361	427.7	3	0	26,244	243	120	123	26,244	11	12	185	185	0.90	0.92	196,308	204,525	5,889	6,136	231	400,833	3
1985	1	11	25,685		503,278	427.6	3	0	28,768	242	120	122	28,768	11	12	185	185	0.90	0.92	195,993	203,183	6,468	6,705	231	399,176	3
1985	2	10	10,684		488,088	427.0	3	0	25,874	240	120	120	25,874	11	11	185	185	0.90	0.92	195,035	199,079	5,851	5,972	231	394,113	3
1985	2	10	10,684		473,356	426.2	3	0	25,417	235	119	116	25,417	11	11	184	185	0.90	0.92	193,468	192,354	5,804	5,771	231	385,822	3
1985	2	8	8,547		461,890	425.4	3	0	20,013	232	119	113	20,013	11	10	183	184	0.90	0.92	192,103	186,463	4,610	4,475	231	378,566	3
1985	3	10	10,282		444,522	424.6	3	0	27,650	256	119	137	27,650	11	15	182	179	0.90	0.90	190,541	217,748	5,716	6,532	231	408,289	3
1985	3	10	10,282		427,252	423.6	3	0	27,552	255	118	137	27,552	11	15	181	178	0.90	0.90	188,738	215,832	5,662	6,475	231	404,571	3
1985	3	11	11,310		408,368	422.5	3	0	30,194	254	118	136	30,194	11	15	181	177	0.90	0.90	186,865	213,837	6,167	7,057	231	400,703	3
1985	4	10	10,461		391,481	421.5	3	0	27,348	253	117	136	27,348	11	15	180	176	0.90	0.90	185,020	211,869	5,551	6,356	231	396,889	3
1985	4	10	10,461		374,689	420.5	3	0	27,253	252	117	135	27,253	11	15	179	175	0.89	0.90	183,291	210,020	5,499	6,301	231	393,310	3
1985	4	10	10,461		358,008	419.3	3	0	27,141	251	116	135	27,141	11	14	178	174	0.89	0.90	181,270	207,855	5,438	6,236	231	389,125	3
1985	5	10	37,719		368,610	419.1	3	0	27,117	251	116	135	27,117	11	14	177	174	0.89	0.90	180,849	207,404	5,425	6,222	231	388,254	3
1985	5	10	37,719		379,130	419.9	3	0	27,199	252	117	135	27,199	11	15	178	174	0.89	0.90	182,313	208,973	5,469	6,269	231	391,287	3
1985	5	11	41,491		390,631	420.6	3	0	29,989	252	117	135	29,989	11	15	179	175	0.89	0.90	183,475	210,217	6,055	6,937	231	393,692	3
1985	6	10	263,393		626,063	427.8	3	0	27,962	259	120	139	27,962	11	15	185	181	0.90	0.91	196,327	223,874	5,890	6,716	231	420,201	3
1985	6	10	263,393		667,569	434.6	24	0	221,887	257	122	135	221,887	12	14	192	189	0.91	0.91	208,101	228,000	49,944	54,720	231	436,101	1
1985	6	10	263,393		711,011	436.5	24	0	219,951	255	122	133	219,951	12	14	194	192	0.91	0.91	210,000	228,000	50,400	54,720	231	438,000	1
1985	7	10	149,790		707,592	437.4	17	0	153,210	253	121	132	153,210	12	14	195	193	0.91	0.91	210,000	228,000	35,322	38,350	231	438,000	1
1985	7	10	149,790		713,331	437.5	16	0	144,052	253	121	132	144,052	12	14	195	193	0.91	0.91	210,000	228,000	33,222	36,070	231	438,000	1
1985	7	11	164,770		709,680	437.5	17	0	168,421	253	121	132	168,421	12	14	195	193	0.91	0.91	210,000	228,000	38,854	42,185	231	438,000	1
1985	8	10	54,328		711,745	437.5	6	0	52,263	253	121	132	52,263	12	14	195	193	0.91	0.91	210,000	228,000	12,054	13,087	231	438,000	1
1985	8	10	54,328		713,843	437.6	6	0	52,231	253	121	132	52,231	12	14	195	193	0.91	0.91	210,000	228,000	12,054	13,087	231	438,000	1
1985	8	11	59,761		716,189	437.7	6	0	57,415	253	121	132	57,415	12	14	195	193	0.91	0.91	210,000	228,000	13,259	14,396	231	438,000	1
1985	9	10	15,254		704,123	437.5	3	0	27,320	253	121	132	27,320	12	14	195	193	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1985	9	10	15,254		691,958	436.9	3	0	27,419	254	121	132	27,419	12	14	194	192	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1985	9	10	15,254		679,687	436.3	3	0	27,524	255	122	133	27,524	12	14	194	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1985	10	10	73,317	1,629	681,810	436.1	8	0	69,565	255	122	133	69,565	12	14	193	191	0.91	0.91	210,000	228,000	15,897	17,260	231	438,000	1
1985	10	10	73,317	1,629	683,981	436.2	8	0	69,517	255	122	133	69,517	12	14	193	191	0.91	0.91	210,000	228,000	15,897	17,260	231	438,000	1
1985	10	11	80,649	1,792	686,425	436.3	8	0	76,413	255	122	133	76,413	12	14	194	191	0.91	0.91	210,000	228,000	17,487	18,986	231	438,000	1
1985	11	10	116,030		690,153	436.5	12	0	112,302	255	122	133	112,302	12	14	194	191	0.91	0.91	210,000	228,000	25,725	27,930	231	438,000	1
1985	11	10	116,030		694,014	436.6	12	0	112,169	254	122	133	112,169	12	14	194	192	0.91	0.91	210,000	228,000	25,725	27,930	231	438,000	1
1985	11	10	116,030		698,011	436.8	12	0	112,032	254	122	132	112,032	12	14	194	192	0.91	0.91	210,000	228,000	25,725	27,930	231	438,000	1
1985	12	10	43,204		699,547	436.9	5	0	41,668	254	121	132	41,668	12	14	194	192	0.91	0.91	210,000	228,000	9,576	10,397	231	438,000	1
1985	12	10	43,204		701,103	437.0	5	0	41,648	254	121	132	41,648	12	14	194	192	0.91	0.91	210,000	228,000	9,576	10,397	231	438,000	1
1985	12	11	47,525		702,837	437.1	5	0	45,790	254	121	132	45,790	12	14	194	192	0.91	0.91	210,000	228,000	10,534	11,436	231	438,000	1

**Table 1-2 Calculation of Annual Energy with Expansion Plant (2/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1986	1	10	127,931		707,558	437.2	14	0	123,211	253	121	132	123,211	12	14	195	192	0.91	0.91	210,000	228,000	28,371	30,803	231	438,000	1
1986	1	10	127,931		712,455	437.5	14	0	123,034	253	121	132	123,034	12	14	195	193	0.91	0.91	210,000	228,000	28,371	30,803	231	438,000	1
1986	1	11	140,724		707,829	437.5	15	0	145,349	253	121	132	145,349	12	14	195	193	0.91	0.91	210,000	228,000	33,518	36,391	231	438,000	1
1986	2	10	53,419		709,868	437.4	6	0	51,381	253	121	132	51,381	12	14	195	193	0.91	0.91	210,000	228,000	11,844	12,859	231	438,000	1
1986	2	10	53,419		711,938	437.5	6	0	51,349	253	121	132	51,349	12	14	195	193	0.91	0.91	210,000	228,000	11,844	12,859	231	438,000	1
1986	2	8	42,736		713,617	437.6	6	0	41,057	253	121	132	41,057	12	14	195	193	0.91	0.91	210,000	228,000	9,475	10,287	231	438,000	1
1986	3	10	48,599		715,561	437.7	5	0	46,655	253	121	132	46,655	12	14	195	193	0.91	0.91	210,000	228,000	10,773	11,696	231	438,000	1
1986	3	10	48,599		717,532	437.8	5	0	46,628	252	121	132	46,628	12	14	195	193	0.91	0.91	210,000	228,000	10,773	11,696	231	438,000	1
1986	3	11	53,459		709,647	437.6	6	0	61,343	253	121	132	61,343	12	14	195	193	0.91	0.91	210,000	228,000	14,160	15,374	231	438,000	1
1986	4	10	69,899		712,357	437.5	7	0	67,189	253	121	132	67,189	12	14	195	193	0.91	0.91	210,000	228,000	15,498	16,826	231	438,000	1
1986	4	10	69,899		715,121	437.6	7	0	67,135	253	121	132	67,135	12	14	195	193	0.91	0.91	210,000	228,000	15,498	16,826	231	438,000	1
1986	4	10	69,899		717,941	437.8	7	0	67,079	252	121	132	67,079	12	14	195	193	0.91	0.91	210,000	228,000	15,498	16,826	231	438,000	1
1986	5	10	38,007		719,524	437.9	4	0	36,424	252	121	132	36,424	12	14	195	193	0.91	0.91	210,000	228,000	8,421	9,143	231	438,000	1
1986	5	10	38,007		711,984	437.7	5	0	45,548	253	121	132	45,548	12	14	195	193	0.91	0.91	210,000	228,000	10,521	11,423	231	438,000	1
1986	5	11	41,808		713,655	437.6	4	0	40,137	253	121	132	40,137	12	14	195	193	0.91	0.91	210,000	228,000	9,263	10,057	231	438,000	1
1986	6	10	20,416		706,751	437.5	3	0	27,319	253	121	132	27,319	12	14	195	193	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1986	6	10	20,416		699,791	437.1	3	0	27,376	253	121	132	27,376	12	14	194	192	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1986	6	10	20,416		692,772	436.8	3	0	27,434	254	122	132	27,434	12	14	194	192	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1986	7	10	16,558		681,818	436.4	3	0	27,511	255	122	133	27,511	12	14	194	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1986	7	10	16,558		670,767	435.9	3	0	27,609	256	122	133	27,609	12	14	193	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1986	7	11	18,213		658,494	435.4	3	0	30,487	257	123	134	30,487	12	14	192	190	0.91	0.91	210,000	228,000	6,930	7,524	231	438,000	1
1986	8	10	59,256		659,830	435.1	6	0	57,919	257	123	134	57,919	12	14	192	190	0.91	0.91	209,857	228,000	13,137	14,273	231	437,857	1
1986	8	10	59,256		661,179	435.2	6	0	57,906	257	123	134	57,906	12	14	192	190	0.91	0.91	209,945	228,000	13,143	14,273	231	437,945	1
1986	8	11	65,181		662,686	435.3	6	0	63,675	257	123	134	63,675	12	14	192	190	0.91	0.91	210,000	228,000	14,461	15,700	231	438,000	1
1986	9	10	76,545		664,558	435.3	8	0	74,673	257	123	134	74,673	12	14	192	190	0.91	0.91	210,000	228,000	16,968	18,422	231	438,000	1
1986	9	10	76,545		666,478	435.4	8	0	74,625	257	123	134	74,625	12	14	192	190	0.91	0.91	210,000	228,000	16,968	18,422	231	438,000	1
1986	9	10	76,545		668,447	435.5	8	0	74,576	256	123	134	74,576	12	14	193	190	0.91	0.91	210,000	228,000	16,968	18,422	231	438,000	1
1986	10	10	135,124	1,629	671,920	435.6	14	0	130,021	256	123	134	130,021	12	14	193	190	0.91	0.91	210,000	228,000	29,610	32,148	231	438,000	1
1986	10	10	135,124	1,629	675,546	435.8	14	0	129,869	256	122	133	129,869	12	14	193	191	0.91	0.91	210,000	228,000	29,610	32,148	231	438,000	1
1986	10	11	148,636	1,792	679,716	436.0	14	0	142,674	256	122	133	142,674	12	14	193	191	0.91	0.91	210,000	228,000	32,571	35,363	231	438,000	1
1986	11	10	84,377		682,219	436.1	9	0	81,874	255	122	133	81,874	12	14	193	191	0.91	0.91	210,000	228,000	18,711	20,315	231	438,000	1
1986	11	10	84,377		684,788	436.2	9	0	81,807	255	122	133	81,807	12	14	193	191	0.91	0.91	210,000	228,000	18,711	20,315	231	438,000	1
1986	11	10	84,377		687,425	436.4	9	0	81,739	255	122	133	81,739	12	14	194	191	0.91	0.91	210,000	228,000	18,711	20,315	231	438,000	1
1986	12	10	16,580		676,447	436.2	3	0	27,558	255	122	133	27,558	12	14	193	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1986	12	10	16,580		665,370	435.7	3	0	27,658	256	123	134	27,658	12	14	193	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1986	12	11	18,238		653,076	435.1	3	0	30,532	257	123	134	30,532	12	14	192	190	0.91	0.91	209,861	228,000	6,925	7,524	231	437,861	1

**Table 1-2 Calculation of Annual Energy with Expansion Plant (3/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1987	1	10	13,904		639,245	434.5	3	0	27,735	257	122	135	27,735	12	14	192	189	0.91	0.91	208,015	228,000	6,240	6,840	231	436,015	1
1987	1	10	13,904		625,309	433.9	3	0	27,839	258	123	135	27,839	12	15	191	188	0.90	0.91	207,620	228,000	6,229	6,840	231	435,620	2
1987	1	11	15,294		609,929	433.2	3	0	30,674	258	122	136	30,674	12	15	190	188	0.90	0.91	206,375	228,000	6,810	7,524	231	434,375	2
1987	2	10	5,969		587,948	432.4	3	0	27,950	259	122	137	27,950	12	15	190	187	0.90	0.91	204,804	228,000	6,144	6,840	231	432,804	2
1987	2	10	5,969		565,884	431.4	3	0	28,032	260	121	138	28,032	12	15	189	185	0.90	0.91	202,944	228,000	6,088	6,840	231	430,944	2
1987	2	8	4,775		548,462	430.5	3	0	22,197	257	121	136	22,197	12	15	188	185	0.90	0.91	201,286	224,071	4,831	5,378	231	425,357	3
1987	3	10	4,466		525,078	429.4	3	0	27,850	258	121	137	27,850	12	15	187	183	0.90	0.91	199,347	224,226	5,980	6,727	231	423,573	2
1987	3	10	4,466		501,600	428.1	3	0	27,944	259	120	139	27,944	11	15	186	182	0.90	0.91	196,856	223,960	5,906	6,719	231	420,816	2
1987	3	11	4,913		475,877	426.6	3	0	30,636	258	120	138	30,636	11	15	184	180	0.90	0.91	194,262	221,692	6,411	7,316	231	415,954	3
1987	4	10	10,969		459,116	425.4	3	0	27,731	257	119	138	27,731	11	15	183	179	0.90	0.90	192,034	219,332	5,761	6,580	231	411,366	3
1987	4	10	10,969		442,449	424.4	3	0	27,636	256	119	137	27,636	11	15	182	178	0.90	0.90	190,288	217,480	5,709	6,524	231	407,768	3
1987	4	10	10,969		425,876	423.5	3	0	27,542	255	118	137	27,542	11	15	181	178	0.90	0.90	188,559	215,642	5,657	6,469	231	404,201	3
1987	5	10	19,094		417,499	422.7	3	0	27,471	254	118	136	27,471	11	15	181	177	0.90	0.90	187,266	214,265	5,618	6,428	231	401,532	3
1987	5	10	19,094		409,170	422.2	3	0	27,424	254	118	136	27,424	11	15	180	177	0.90	0.90	186,403	213,344	5,592	6,400	231	399,747	3
1987	5	11	21,004		400,062	421.7	3	0	30,112	253	117	136	30,112	11	15	180	176	0.90	0.90	185,504	212,385	6,122	7,009	231	397,888	3
1987	6	10	24,935		397,654	421.4	3	0	27,342	253	117	136	27,342	11	15	179	176	0.90	0.90	184,910	211,750	5,547	6,352	231	396,659	3
1987	6	10	24,935		395,260	421.3	3	0	27,328	253	117	136	27,328	11	15	179	176	0.90	0.90	184,662	211,485	5,540	6,345	231	396,148	3
1987	6	10	24,935		392,880	421.1	3	0	27,315	253	117	136	27,315	11	15	179	176	0.89	0.90	184,416	211,222	5,532	6,337	231	395,639	3
1987	7	10	20,636		386,226	420.9	3	0	27,289	253	117	136	27,289	11	15	179	175	0.89	0.90	183,955	210,730	5,519	6,322	231	394,684	3
1987	7	10	20,636		379,610	420.5	3	0	27,252	252	117	135	27,252	11	15	179	175	0.89	0.90	183,274	210,002	5,498	6,300	231	393,276	3
1987	7	11	22,699		372,376	420.1	3	0	29,934	252	117	135	29,934	11	15	178	175	0.89	0.90	182,565	209,243	6,025	6,905	231	391,807	3
1987	8	10	24,770		369,968	419.7	3	0	27,178	252	117	135	27,178	11	14	178	174	0.89	0.90	181,939	208,572	5,458	6,257	231	390,511	3
1987	8	10	24,770		367,578	419.5	3	0	27,159	251	117	135	27,159	11	14	178	174	0.89	0.90	181,606	208,215	5,448	6,246	231	389,821	3
1987	8	11	27,247		364,971	419.3	3	0	29,854	251	116	135	29,854	11	14	178	174	0.89	0.90	181,260	207,844	5,982	6,859	231	389,104	3
1987	9	10	85,297		422,953	421.1	3	0	27,314	253	117	136	27,314	11	15	179	176	0.89	0.90	184,407	211,213	5,532	6,336	231	395,620	3
1987	9	10	85,297		480,609	424.5	3	0	27,642	256	119	137	27,642	11	15	182	179	0.90	0.90	190,392	217,590	5,712	6,528	231	407,982	3
1987	9	10	85,297		539,572	427.9	3	0	26,335	244	120	124	26,335	11	12	185	185	0.90	0.92	196,548	205,824	5,896	6,175	231	402,372	3
1987	10	10	130,856	1,629	640,818	432.0	3	0	27,980	259	122	137	27,980	12	15	189	186	0.90	0.91	204,057	228,000	6,122	6,840	231	432,057	3
1987	10	10	130,856	1,629	714,855	436.0	6	0	55,190	256	122	133	55,190	12	14	193	191	0.91	0.91	210,000	228,000	12,600	13,680	231	438,000	2
1987	10	11	143,942	1,792	710,360	437.6	15	0	146,645	253	121	132	146,645	12	14	195	193	0.91	0.91	210,000	228,000	33,841	36,742	231	438,000	1
1987	11	10	88,971		713,778	437.5	9	0	85,553	253	121	132	85,553	12	14	195	193	0.91	0.91	210,000	228,000	19,740	21,432	231	438,000	1
1987	11	10	88,971		717,285	437.7	9	0	85,464	253	121	132	85,464	12	14	195	193	0.91	0.91	210,000	228,000	19,740	21,432	231	438,000	1
1987	11	10	88,971		711,669	437.7	10	0	94,586	253	121	132	94,586	12	14	195	193	0.91	0.91	210,000	228,000	21,840	23,712	231	438,000	1
1987	12	10	29,119		712,758	437.6	3	0	28,031	253	121	132	28,031	12	14	195	193	0.91	0.91	210,000	228,000	6,468	7,022	231	438,000	1
1987	12	10	29,119		713,672	437.6	3	0	28,205	253	121	132	28,205	12	14	195	193	0.91	0.91	210,000	228,000	6,510	7,068	231	438,000	0
1987	12	11	32,031		713,883	437.6	3	0	31,820	253	121	132	31,820	12	14	195	193	0.91	0.91	210,000	228,000	7,346	7,975	231	438,000	0

**Table 1-2 Calculation of Annual Energy with Expansion Plant (4/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1988	1	10	7,270		693,782	437.2	3	0	27,371	253	121	132	27,371	12	14	195	192	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1988	1	10	7,270		673,508	436.3	3	0	27,543	255	122	133	27,543	12	14	193	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1988	1	11	7,997		650,994	435.3	3	0	30,512	257	123	134	30,512	12	14	192	190	0.91	0.91	210,000	228,000	6,930	7,524	231	438,000	1
1988	2	10	5,950		629,154	434.3	3	0	27,789	257	122	135	27,789	12	14	191	189	0.90	0.91	207,954	228,000	6,239	6,840	231	435,954	1
1988	2	10	5,950		607,221	433.3	3	0	27,884	258	122	136	27,884	12	15	190	188	0.90	0.91	206,435	228,000	6,193	6,840	231	434,435	2
1988	2	9	5,355		587,416	432.3	3	0	25,160	259	122	137	25,160	12	15	190	186	0.90	0.91	204,666	228,000	5,526	6,156	231	432,666	2
1988	3	10	11,937		571,330	431.5	3	0	28,023	259	122	138	28,023	12	15	189	185	0.90	0.91	203,151	228,000	6,095	6,840	231	431,151	2
1988	3	10	11,937		555,178	430.8	3	0	28,089	260	121	139	28,089	12	15	188	184	0.90	0.91	201,794	228,000	6,054	6,840	231	429,794	2
1988	3	11	13,131		537,449	430.0	3	0	30,860	260	121	139	30,860	12	15	187	184	0.90	0.91	200,373	226,855	6,612	7,486	231	427,227	2
1988	4	10	45,329		554,716	430.0	3	0	28,062	260	121	139	28,062	12	15	187	184	0.90	0.91	200,345	226,920	6,010	6,808	231	427,265	2
1988	4	10	45,329		571,957	430.8	3	0	28,088	260	121	139	28,088	12	15	188	184	0.90	0.91	201,800	228,000	6,054	6,840	231	429,800	2
1988	4	10	45,329		589,269	431.6	3	0	28,018	259	122	138	28,018	12	15	189	185	0.90	0.91	203,255	228,000	6,098	6,840	231	431,255	2
1988	5	10	23,680		584,956	431.8	3	0	27,993	259	122	138	27,993	12	15	189	186	0.90	0.91	203,804	228,000	6,114	6,840	231	431,804	2
1988	5	10	23,680		580,627	431.7	3	0	28,009	259	122	138	28,009	12	15	189	186	0.90	0.91	203,439	228,000	6,103	6,840	231	431,439	2
1988	5	11	26,048		575,845	431.4	3	0	30,830	260	122	138	30,830	12	15	189	185	0.90	0.91	203,056	228,000	6,701	7,524	231	431,056	2
1988	6	10	27,487		575,294	431.3	3	0	28,038	260	121	138	28,038	12	15	189	185	0.90	0.91	202,830	228,000	6,085	6,840	231	430,830	2
1988	6	10	27,487		574,740	431.3	3	0	28,040	260	121	138	28,040	12	15	189	185	0.90	0.91	202,784	228,000	6,084	6,840	231	430,784	2
1988	6	10	27,487		574,185	431.3	3	0	28,042	260	121	138	28,042	12	15	189	185	0.90	0.91	202,737	228,000	6,082	6,840	231	430,737	2
1988	7	10	82,222		628,466	432.5	3	0	27,941	259	122	137	27,941	12	15	190	187	0.90	0.91	205,004	228,000	6,150	6,840	231	433,004	2
1988	7	10	82,222		630,112	433.8	9	0	80,575	258	122	135	80,575	12	15	191	188	0.90	0.91	207,364	228,000	17,999	19,790	231	435,364	1
1988	7	11	90,444		631,940	433.9	9	0	88,616	258	123	135	88,616	12	15	191	188	0.90	0.91	207,511	228,000	19,813	21,769	231	435,511	1
1988	8	10	104,253		634,030	433.9	11	0	102,163	258	123	135	102,163	12	15	191	188	0.90	0.91	207,677	228,000	22,865	25,103	231	435,677	1
1988	8	10	104,253		636,144	434.0	11	0	102,140	258	123	135	102,140	12	14	191	189	0.90	0.91	207,855	228,000	22,885	25,103	231	435,855	1
1988	8	11	114,679		638,523	434.1	11	0	112,300	258	123	135	112,300	12	14	191	189	0.90	0.91	207,970	228,000	25,187	27,613	231	435,970	1
1988	9	10	132,277		715,596	436.0	6	0	55,204	256	122	133	55,204	12	14	193	191	0.91	0.91	210,000	228,000	12,600	13,680	231	438,000	2
1988	9	10	132,277		711,690	437.6	15	0	136,183	253	121	132	136,183	12	14	195	193	0.91	0.91	210,000	228,000	31,437	34,132	231	438,000	1
1988	9	10	132,277		707,623	437.4	15	0	136,344	253	121	132	136,344	12	14	195	193	0.91	0.91	210,000	228,000	31,437	34,132	231	438,000	1
1988	10	10	65,049	1,629	710,006	437.4	7	0	61,038	253	121	132	61,038	12	14	195	193	0.91	0.91	210,000	228,000	14,070	15,276	231	438,000	1
1988	10	10	65,049	1,629	712,432	437.5	7	0	60,994	253	121	132	60,994	12	14	195	193	0.91	0.91	210,000	228,000	14,070	15,276	231	438,000	1
1988	10	11	71,554	1,792	715,151	437.6	7	0	67,043	253	121	132	67,043	12	14	195	193	0.91	0.91	210,000	228,000	15,477	16,804	231	438,000	1
1988	11	10	86,527		709,397	437.6	10	0	92,282	253	121	132	92,282	12	14	195	193	0.91	0.91	210,000	228,000	21,294	23,119	231	438,000	1
1988	11	10	86,527		712,713	437.5	9	0	83,211	253	121	132	83,211	12	14	195	193	0.91	0.91	210,000	228,000	19,194	20,839	231	438,000	1
1988	11	10	86,527		716,112	437.7	9	0	83,128	253	121	132	83,128	12	14	195	193	0.91	0.91	210,000	228,000	19,194	20,839	231	438,000	1
1988	12	10	30,885		713,897	437.7	4	0	33,100	253	121	132	33,100	12	14	195	193	0.91	0.91	210,000	228,000	7,644	8,299	231	438,000	0
1988	12	10	30,885		713,853	437.6	3	0	30,928	253	121	132	30,928	12	14	195	193	0.91	0.91	210,000	228,000	7,140	7,752	231	438,000	0
1988	12	11	33,973		713,905	437.6	3	0	33,921	253	121	132	33,921	12	14	195	193	0.91	0.91	210,000	228,000	7,831	8,502	231	438,000	0

**Table 1-2 Calculation of Annual Energy with Expansion Plant (5/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1989	1	10	28,719		715,066	437.7	3	0	27,557	253	121	132	27,557	12	14	195	193	0.91	0.91	210,000	228,000	6,363	6,908	231	438,000	1
1989	1	10	28,719		716,237	437.7	3	0	27,548	253	121	132	27,548	12	14	195	193	0.91	0.91	210,000	228,000	6,363	6,908	231	438,000	1
1989	1	11	31,590		717,536	437.8	3	0	30,291	252	121	132	30,291	12	14	195	193	0.91	0.91	210,000	228,000	6,999	7,599	231	438,000	1
1989	2	10	7,891		698,089	437.4	3	0	27,339	253	121	132	27,339	12	14	195	193	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1989	2	10	7,891		678,477	436.5	3	0	27,503	255	122	133	27,503	12	14	194	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1989	2	8	6,313		662,661	435.7	3	0	22,129	256	123	134	22,129	12	14	193	191	0.91	0.91	210,000	228,000	5,040	5,472	231	438,000	1
1989	3	10	5,596		640,575	434.8	3	0	27,683	256	122	134	27,683	12	14	192	189	0.91	0.91	208,013	228,000	6,240	6,840	231	436,013	1
1989	3	10	5,596		618,323	433.8	3	0	27,848	258	122	135	27,848	12	15	191	188	0.90	0.91	207,380	228,000	6,221	6,840	231	435,380	1
1989	3	11	6,156		593,762	432.7	3	0	30,717	259	122	137	30,717	12	15	190	187	0.90	0.91	205,395	228,000	6,778	7,524	231	433,395	2
1989	4	10	6,725		572,479	431.7	3	0	28,008	259	122	138	28,008	12	15	189	186	0.90	0.91	203,467	228,000	6,104	6,840	231	431,467	2
1989	4	10	6,725		551,109	430.7	3	0	28,095	260	121	139	28,095	12	15	188	184	0.90	0.91	201,671	228,000	6,050	6,840	231	429,671	2
1989	4	10	6,725		529,996	429.6	3	0	27,838	258	121	137	27,838	12	15	187	184	0.90	0.91	199,751	224,291	5,993	6,729	231	424,042	2
1989	5	10	24,039		526,138	428.9	3	0	27,897	258	120	138	27,897	12	15	186	183	0.90	0.91	198,420	224,252	5,953	6,728	231	422,673	2
1989	5	10	24,039		522,264	428.7	3	0	27,912	258	120	138	27,912	12	15	186	183	0.90	0.91	198,009	224,210	5,940	6,726	231	422,219	2
1989	5	11	26,442		517,985	428.5	3	0	30,721	259	120	138	30,721	11	15	186	182	0.90	0.91	197,576	224,159	6,520	7,397	231	421,735	2
1989	6	10	113,150		603,035	430.6	3	0	28,100	260	121	139	28,100	12	15	188	184	0.90	0.91	201,560	228,000	6,047	6,840	231	429,560	2
1989	6	10	113,150		688,416	434.5	3	0	27,768	257	123	135	27,768	12	14	192	189	0.90	0.91	208,377	228,000	6,251	6,840	231	436,377	2
1989	6	10	113,150		692,081	436.6	12	0	109,485	254	122	133	109,485	12	14	194	192	0.91	0.91	210,000	228,000	25,095	27,246	231	438,000	1
1989	7	10	203,583		699,008	436.8	22	0	196,656	254	122	132	196,656	12	14	194	192	0.91	0.91	210,000	228,000	45,150	49,020	231	438,000	1
1989	7	10	203,583		706,363	437.1	22	0	196,227	254	121	132	196,227	12	14	194	192	0.91	0.91	210,000	228,000	45,150	49,020	231	438,000	1
1989	7	11	223,941		704,605	437.2	23	0	225,699	253	121	132	225,699	12	14	195	192	0.91	0.91	210,000	228,000	51,975	56,430	231	438,000	1
1989	8	10	98,521		708,222	437.3	10	0	94,904	253	121	132	94,904	12	14	195	192	0.91	0.91	210,000	228,000	21,861	23,735	231	438,000	1
1989	8	10	98,521		711,942	437.5	10	0	94,801	253	121	132	94,801	12	14	195	193	0.91	0.91	210,000	228,000	21,861	23,735	231	438,000	1
1989	8	11	108,373		716,157	437.6	10	0	104,158	253	121	132	104,158	12	14	195	193	0.91	0.91	210,000	228,000	24,047	26,108	231	438,000	1
1989	9	10	82,489		710,301	437.6	10	0	88,344	253	121	132	88,344	12	14	195	193	0.91	0.91	210,000	228,000	20,391	22,139	231	438,000	1
1989	9	10	82,489		713,513	437.5	9	0	79,277	253	121	132	79,277	12	14	195	193	0.91	0.91	210,000	228,000	18,291	19,859	231	438,000	1
1989	9	10	82,489		716,802	437.7	9	0	79,200	253	121	132	79,200	12	14	195	193	0.91	0.91	210,000	228,000	18,291	19,859	231	438,000	1
1989	10	10	72,959	1,629	710,534	437.6	9	0	77,598	253	121	132	77,598	12	14	195	193	0.91	0.91	210,000	228,000	17,913	19,448	231	438,000	1
1989	10	10	72,959	1,629	713,328	437.5	8	0	68,536	253	121	132	68,536	12	14	195	193	0.91	0.91	210,000	228,000	15,813	17,168	231	438,000	1
1989	10	11	80,255	1,792	716,467	437.7	8	0	75,323	253	121	132	75,323	12	14	195	193	0.91	0.91	210,000	228,000	17,394	18,885	231	438,000	1
1989	11	10	139,297		712,894	437.7	16	0	142,871	253	121	132	142,871	12	14	195	193	0.91	0.91	210,000	228,000	32,991	35,819	231	438,000	1
1989	11	10	139,297		709,165	437.5	16	0	143,026	253	121	132	143,026	12	14	195	193	0.91	0.91	210,000	228,000	32,991	35,819	231	438,000	1
1989	11	10	139,297		714,574	437.5	15	0	133,889	253	121	132	133,889	12	14	195	193	0.91	0.91	210,000	228,000	30,891	33,539	231	438,000	1
1989	12	10	38,341		714,170	437.7	4	0	38,745	253	121	132	38,745	12	14	195	193	0.91	0.91	210,000	228,000	8,946	9,713	231	438,000	0
1989	12	10	38,341		714,127	437.6	4	0	38,384	253	121	132	38,384	12	14	195	193	0.91	0.91	210,000	228,000	8,862	9,622	231	438,000	0
1989	12	11	42,176		714,281	437.6	4	0	42,022	253	121	132	42,022	12	14	195	193	0.91	0.91	210,000	228,000	9,702	10,534	231	438,000	0

**Table 1-2 Calculation of Annual Energy with Expansion Plant (6/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1990	1	10	67,414		716,962	437.7	7	0	64,733	253	121	132	64,733	12	14	195	193	0.91	0.91	210,000	228,000	14,952	16,234	231	438,000	1
1990	1	10	67,414		710,509	437.6	8	0	73,866	253	121	132	73,866	12	14	195	193	0.91	0.91	210,000	228,000	17,052	18,514	231	438,000	1
1990	1	11	74,155		713,380	437.5	7	0	71,284	253	121	132	71,284	12	14	195	193	0.91	0.91	210,000	228,000	16,447	17,857	231	438,000	1
1990	2	10	18,535		704,586	437.4	3	0	27,329	253	121	132	27,329	12	14	195	193	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1990	2	10	18,535		695,719	437.0	3	0	27,402	254	121	132	27,402	12	14	194	192	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1990	2	8	14,828		688,572	436.6	3	0	21,976	254	122	133	21,976	12	14	194	192	0.91	0.91	210,000	228,000	5,040	5,472	231	438,000	1
1990	3	10	15,020		676,036	436.2	3	0	27,555	255	122	133	27,555	12	14	193	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1990	3	10	15,020		663,388	435.6	3	0	27,669	256	123	134	27,669	12	14	193	190	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1990	3	11	16,522		649,362	435.0	3	0	30,547	257	123	134	30,547	12	14	192	190	0.91	0.91	209,672	228,000	6,919	7,524	231	437,672	1
1990	4	10	6,031		627,589	434.2	3	0	27,804	257	123	135	27,804	12	14	191	189	0.90	0.91	207,946	228,000	6,238	6,840	231	435,946	1
1990	4	10	6,031		605,730	433.2	3	0	27,889	258	122	136	27,889	12	15	190	188	0.90	0.91	206,306	228,000	6,189	6,840	231	434,306	2
1990	4	10	6,031		583,797	432.2	3	0	27,965	259	122	137	27,965	12	15	189	186	0.90	0.91	204,451	228,000	6,134	6,840	231	432,451	2
1990	5	10	38,100		593,910	431.9	3	0	27,986	259	122	137	27,986	12	15	189	186	0.90	0.91	203,951	228,000	6,119	6,840	231	431,951	2
1990	5	10	38,100		604,061	432.4	3	0	27,949	259	122	137	27,949	12	15	190	187	0.90	0.91	204,807	228,000	6,144	6,840	231	432,807	2
1990	5	11	41,910		615,268	432.9	3	0	30,704	258	122	136	30,704	12	15	190	187	0.90	0.91	205,712	228,000	6,789	7,524	231	433,712	2
1990	6	10	42,583		629,981	433.5	3	0	27,869	258	122	136	27,869	12	15	191	188	0.90	0.91	206,811	228,000	6,204	6,840	231	434,811	2
1990	6	10	42,583		630,796	433.8	5	0	41,768	258	123	135	41,768	12	15	191	188	0.90	0.91	207,459	228,000	9,336	10,260	231	435,459	1
1990	6	10	42,583		631,615	433.9	5	0	41,764	258	123	135	41,764	12	15	191	188	0.90	0.91	207,528	228,000	9,339	10,260	231	435,528	1
1990	7	10	39,109		632,397	433.9	4	0	38,327	258	123	135	38,327	12	15	191	188	0.90	0.91	207,597	228,000	8,574	9,416	231	435,597	1
1990	7	10	39,109		633,182	433.9	4	0	38,323	258	123	135	38,323	12	15	191	188	0.90	0.91	207,663	228,000	8,576	9,416	231	435,663	1
1990	7	11	43,019		634,050	434.0	4	0	42,152	258	123	135	42,152	12	15	191	188	0.90	0.91	207,733	228,000	9,437	10,358	231	435,733	1
1990	8	10	35,170		634,799	434.0	4	0	34,420	258	123	135	34,420	12	15	191	189	0.90	0.91	207,802	228,000	7,709	8,459	231	435,802	1
1990	8	10	35,170		635,552	434.0	4	0	34,417	258	123	135	34,417	12	14	191	189	0.90	0.91	207,866	228,000	7,712	8,459	231	435,866	1
1990	8	11	38,687		636,383	434.1	4	0	37,856	258	123	135	37,856	12	14	191	189	0.90	0.91	207,934	228,000	8,486	9,305	231	435,934	1
1990	9	10	17,161		625,701	433.9	3	0	27,843	258	123	135	27,843	12	15	191	188	0.90	0.91	207,515	228,000	6,225	6,840	231	435,515	2
1990	9	10	17,161		614,985	433.4	3	0	27,877	258	122	136	27,877	12	15	190	188	0.90	0.91	206,618	228,000	6,199	6,840	231	434,618	2
1990	9	10	17,161		604,234	432.9	3	0	27,912	258	122	136	27,912	12	15	190	187	0.90	0.91	205,707	228,000	6,171	6,840	231	433,707	2
1990	10	10	35,452	1,629	610,136	432.8	3	0	27,921	259	122	136	27,921	12	15	190	187	0.90	0.91	205,502	228,000	6,165	6,840	231	433,502	2
1990	10	10	35,452	1,629	616,058	433.0	3	0	27,901	258	122	136	27,901	12	15	190	187	0.90	0.91	206,003	228,000	6,180	6,840	231	434,003	2
1990	10	11	38,997	1,792	622,594	433.3	3	0	30,668	258	122	136	30,668	12	15	190	188	0.90	0.91	206,532	228,000	6,816	7,524	231	434,532	2
1990	11	10	51,391		646,152	434.0	3	0	27,833	258	123	135	27,833	12	15	191	189	0.90	0.91	207,810	228,000	6,234	6,840	231	435,810	2
1990	11	10	51,391		647,347	434.6	5	0	50,197	257	122	135	50,197	12	14	192	189	0.91	0.91	208,058	228,000	11,298	12,380	231	436,058	1
1990	11	10	51,391		648,562	434.6	5	0	50,176	257	122	135	50,176	12	14	192	189	0.91	0.91	208,064	228,000	11,298	12,380	231	436,064	1
1990	12	10	39,665		649,521	434.7	4	0	38,705	257	122	134	38,705	12	14	192	189	0.91	0.91	208,076	228,000	8,718	9,553	231	436,076	1
1990	12	10	39,665		650,493	434.7	4	0	38,692	257	122	134	38,692	12	14	192	189	0.91	0.91	208,081	228,000	8,719	9,553	231	436,081	1
1990	12	11	43,631		651,577	434.8	4	0	42,547	256	122	134	42,547	12	14	192	189	0.91	0.91	208,084	228,000	9,591	10,509	231	436,084	1

**Table 1-2 Calculation of Annual Energy with Expansion Plant (7/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1991	1	10	44,233		652,716	434.8	5	0	43,094	256	122	134	43,094	12	14	192	189	0.91	0.91	208,090	228,000	9,718	10,648	231	436,090	1
1991	1	10	44,233		653,872	434.9	5	0	43,078	256	122	134	43,078	12	14	192	190	0.91	0.91	208,096	228,000	9,718	10,648	231	436,096	1
1991	1	11	48,657		655,162	434.9	5	0	47,366	256	122	134	47,366	12	14	192	190	0.91	0.91	208,100	228,000	10,690	11,712	231	436,100	1
1991	2	10	12,181		639,620	434.6	3	0	27,723	257	122	135	27,723	12	14	192	189	0.91	0.91	208,015	228,000	6,240	6,840	231	436,015	1
1991	2	10	12,181		623,960	433.9	3	0	27,841	258	123	135	27,841	12	15	191	188	0.90	0.91	207,579	228,000	6,227	6,840	231	435,579	2
1991	2	8	9,745		611,396	433.2	3	0	22,309	258	122	136	22,309	12	15	190	188	0.90	0.91	206,390	228,000	4,953	5,472	231	434,390	2
1991	3	10	8,593		592,049	432.5	3	0	27,940	259	122	137	27,940	12	15	190	187	0.90	0.91	205,040	228,000	6,151	6,840	231	433,040	2
1991	3	10	8,593		572,630	431.6	3	0	28,011	259	122	138	28,011	12	15	189	186	0.90	0.91	203,402	228,000	6,102	6,840	231	431,402	2
1991	3	11	9,452		551,178	430.7	3	0	30,904	260	121	139	30,904	12	15	188	184	0.90	0.91	201,681	228,000	6,655	7,524	231	429,681	2
1991	4	10	8,936		532,280	429.7	3	0	27,834	258	121	137	27,834	12	15	187	184	0.90	0.91	199,876	224,319	5,996	6,730	231	424,195	2
1991	4	10	8,936		513,308	428.6	3	0	27,909	258	120	138	27,909	12	15	186	182	0.90	0.91	197,860	224,095	5,936	6,723	231	421,955	2
1991	4	10	8,936		494,308	427.5	3	0	27,936	259	120	139	27,936	13	16	183	181	0.90	0.91	194,042	222,580	5,821	6,677	231	416,622	3
1991	5	10	6,177		472,665	426.3	3	0	27,821	258	119	138	27,821	11	15	184	180	0.90	0.91	193,708	221,105	5,811	6,633	231	414,814	2
1991	5	10	6,177		451,143	425.1	3	0	27,699	256	119	138	27,699	14	16	181	178	0.90	0.90	189,062	217,118	5,672	6,514	231	406,180	3
1991	5	11	6,795		427,610	423.8	3	0	30,329	255	118	137	30,329	11	15	182	178	0.90	0.90	189,101	216,218	6,240	7,135	231	405,319	3
1991	6	10	43,766		443,825	423.5	3	0	27,551	255	118	137	27,551	11	15	181	178	0.90	0.90	188,727	215,819	5,662	6,475	231	404,546	2
1991	6	10	43,766		459,948	424.5	3	0	27,643	256	119	137	27,643	11	15	182	179	0.90	0.90	190,412	217,610	5,712	6,528	231	408,021	2
1991	6	10	43,766		475,981	425.4	3	0	27,733	257	119	138	27,733	11	15	183	179	0.90	0.90	192,081	219,382	5,762	6,581	231	411,463	2
1991	7	10	19,316		467,542	425.6	3	0	27,755	257	119	138	27,755	11	15	183	180	0.90	0.90	192,479	219,803	5,774	6,594	231	412,282	2
1991	7	10	19,316		459,151	425.2	3	0	27,707	257	119	138	27,707	11	15	183	179	0.90	0.90	191,598	218,870	5,748	6,566	231	410,468	2
1991	7	11	21,248		449,976	424.6	3	0	30,423	256	119	137	30,423	11	15	182	179	0.90	0.90	190,681	217,896	6,292	7,191	231	408,578	2
1991	8	10	14,382		436,764	424.0	3	0	27,594	255	118	137	27,594	11	15	182	178	0.90	0.90	189,516	216,659	5,685	6,500	231	406,176	3
1991	8	10	14,382		423,627	423.2	3	0	27,519	255	118	137	27,519	11	15	181	177	0.90	0.90	188,148	215,204	5,644	6,456	231	403,351	3
1991	8	11	15,820		409,262	422.4	3	0	30,186	254	118	136	30,186	11	15	180	177	0.90	0.90	186,724	213,687	6,162	7,052	231	400,411	3
1991	9	10	14,866		396,763	421.6	3	0	27,365	253	117	136	27,365	11	15	180	176	0.90	0.90	185,338	212,208	5,560	6,366	231	397,546	3
1991	9	10	14,866		384,334	420.9	3	0	27,295	253	117	136	27,295	11	15	179	175	0.89	0.90	184,056	210,839	5,522	6,325	231	394,895	3
1991	9	10	14,866		371,976	420.2	3	0	27,225	252	117	135	27,225	11	15	178	175	0.89	0.90	182,786	209,479	5,484	6,284	231	392,265	3
1991	10	10	45,730	1,629	388,840	420.3	3	0	27,237	252	117	135	27,237	11	15	178	175	0.89	0.90	183,016	209,726	5,490	6,292	231	392,742	3
1991	10	10	45,730	1,629	405,608	421.3	3	0	27,333	253	117	136	27,333	11	15	179	176	0.90	0.90	184,742	211,572	5,542	6,347	231	396,314	3
1991	10	11	50,303	1,792	423,944	422.3	3	0	30,175	254	118	136	30,175	11	15	180	177	0.90	0.90	186,552	213,503	6,156	7,046	231	400,054	3
1991	11	10	38,814		435,242	423.2	3	0	27,516	255	118	137	27,516	11	15	181	177	0.90	0.90	188,085	215,137	5,643	6,454	231	403,222	3
1991	11	10	38,814		446,477	423.8	3	0	27,580	255	118	137	27,580	11	15	182	178	0.90	0.90	189,255	216,382	5,678	6,491	231	405,636	3
1991	11	10	38,814		457,648	424.5	3	0	27,643	256	119	137	27,643	11	15	182	179	0.90	0.90	190,421	217,621	5,713	6,529	231	408,042	3
1991	12	10	52,973		485,484	425.6	3	0	25,137	233	119	114	25,137	11	10	183	184	0.90	0.92	192,518	188,237	5,776	5,647	231	380,755	3
1991	12	10	52,973		512,483	427.2	3	0	25,975	241	120	121	25,975	11	12	185	185	0.90	0.92	195,381	200,562	5,861	6,017	231	395,942	3
1991	12	11	58,271		541,244	428.9	3	0	29,509	248	120	128	29,509	12	13	186	185	0.90	0.92	198,316	212,639	6,544	7,017	231	410,955	3

**Table 1-2 Calculation of Annual Energy with Expansion Plant (8/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1992	1	10	28,296		542,259	429.7	3	0	27,282	253	121	132	27,282	12	14	187	185	0.90	0.91	199,905	218,395	5,997	6,552	231	418,300	3
1992	1	10	28,296		543,242	429.8	3	0	27,313	253	121	132	27,313	12	14	187	185	0.90	0.91	200,010	218,778	6,000	6,563	231	418,788	3
1992	1	11	31,126		544,290	429.8	3	0	30,078	253	121	132	30,078	12	14	187	185	0.90	0.91	200,119	219,167	6,604	7,233	231	419,285	3
1992	2	10	13,498		530,638	429.5	3	0	27,150	251	121	131	27,150	12	14	187	185	0.90	0.91	199,438	216,746	5,983	6,502	231	416,184	3
1992	2	10	13,498		517,397	428.7	3	0	26,740	248	120	127	26,740	12	13	186	185	0.90	0.92	198,016	211,528	5,940	6,346	231	409,544	3
1992	2	9	12,148		505,821	428.0	3	0	23,724	244	120	124	23,724	11	12	186	185	0.90	0.92	196,708	206,231	5,311	5,568	231	402,939	3
1992	3	10	5,736		483,672	427.0	3	0	27,885	258	120	139	27,885	11	15	185	181	0.90	0.91	194,895	222,361	5,847	6,671	231	417,255	3
1992	3	10	5,736		461,649	425.7	3	0	27,760	257	119	138	27,760	11	15	183	180	0.90	0.90	192,574	219,905	5,777	6,597	231	412,479	3
1992	3	11	6,310		437,567	424.4	3	0	30,392	256	119	137	30,392	11	15	182	178	0.90	0.90	190,166	217,350	6,275	7,173	231	407,515	3
1992	4	10	12,164		422,213	423.2	3	0	27,518	255	118	137	27,518	11	15	181	177	0.90	0.90	188,116	215,170	5,643	6,455	231	403,286	3
1992	4	10	12,164		406,945	422.3	3	0	27,431	254	118	136	27,431	11	15	180	177	0.90	0.90	186,531	213,482	5,596	6,404	231	400,013	3
1992	4	10	12,164		391,764	421.4	3	0	27,345	253	117	136	27,345	11	15	180	176	0.90	0.90	184,962	211,806	5,549	6,354	231	396,768	3
1992	5	10	17,892		382,381	420.7	3	0	27,275	253	117	136	27,275	11	15	179	175	0.89	0.90	183,700	210,457	5,511	6,314	231	394,157	3
1992	5	10	17,892		373,051	420.2	3	0	27,222	252	117	135	27,222	11	15	178	175	0.89	0.90	182,741	209,431	5,482	6,283	231	392,172	3
1992	5	11	19,681		362,864	419.5	3	0	29,868	251	117	135	29,868	11	14	178	174	0.89	0.90	181,493	208,094	5,989	6,867	231	389,587	3
1992	6	10	35,271		370,990	419.4	3	0	27,145	251	116	135	27,145	11	14	178	174	0.89	0.90	181,351	207,942	5,441	6,238	231	389,292	3
1992	6	10	35,271		379,054	420.0	3	0	27,207	252	117	135	27,207	11	15	178	175	0.89	0.90	182,466	209,136	5,474	6,274	231	391,602	3
1992	6	10	35,271		387,073	420.5	3	0	27,253	252	117	135	27,253	11	15	179	175	0.89	0.90	183,289	210,018	5,499	6,301	231	393,307	3
1992	7	10	68,264		427,946	421.9	3	0	27,391	254	118	136	27,391	11	15	180	176	0.90	0.90	185,800	212,700	5,574	6,381	231	398,500	3
1992	7	10	68,264		468,589	424.3	3	0	27,622	256	119	137	27,622	14	16	180	177	0.90	0.90	187,450	215,345	5,623	6,460	231	402,795	3
1992	7	11	75,091		513,031	426.8	3	0	30,649	258	120	138	30,649	11	15	184	181	0.90	0.91	194,478	221,920	6,418	7,323	231	416,398	2
1992	8	10	78,373		563,514	429.5	3	0	27,890	258	121	138	27,890	12	15	187	183	0.90	0.91	199,507	224,723	5,985	6,742	231	424,230	2
1992	8	10	78,373		613,900	431.9	3	0	27,987	259	122	137	27,987	12	15	189	186	0.90	0.91	203,937	228,000	6,118	6,840	231	431,937	2
1992	8	11	86,211		669,535	434.3	3	0	30,576	257	123	135	30,576	12	14	191	189	0.90	0.91	208,244	228,000	6,872	7,524	231	436,244	2
1992	9	10	49,987		670,833	435.6	5	0	48,689	256	123	134	48,689	12	14	193	190	0.91	0.91	210,000	228,000	11,088	12,038	231	438,000	1
1992	9	10	49,987		672,152	435.7	5	0	48,668	256	123	133	48,668	12	14	193	191	0.91	0.91	210,000	228,000	11,088	12,038	231	438,000	1
1992	9	10	49,987		673,493	435.8	5	0	48,647	256	123	133	48,647	12	14	193	191	0.91	0.91	210,000	228,000	11,088	12,038	231	438,000	1
1992	10	10	62,733	1,629	675,200	435.8	6	0	59,396	256	122	133	59,396	12	14	193	191	0.91	0.91	210,000	228,000	13,545	14,706	231	438,000	1
1992	10	10	62,733	1,629	676,941	435.9	6	0	59,363	256	122	133	59,363	12	14	193	191	0.91	0.91	210,000	228,000	13,545	14,706	231	438,000	1
1992	10	11	69,006	1,792	678,896	436.0	6	0	65,260	256	122	133	65,260	12	14	193	191	0.91	0.91	210,000	228,000	14,899	16,177	231	438,000	1
1992	11	10	78,682		681,194	436.1	8	0	76,383	255	122	133	76,383	12	14	193	191	0.91	0.91	210,000	228,000	17,451	18,947	231	438,000	1
1992	11	10	78,682		683,550	436.2	8	0	76,326	255	122	133	76,326	12	14	193	191	0.91	0.91	210,000	228,000	17,451	18,947	231	438,000	1
1992	11	10	78,682		685,965	436.3	8	0	76,268	255	122	133	76,268	12	14	193	191	0.91	0.91	210,000	228,000	17,451	18,947	231	438,000	1
1992	12	10	53,251		687,670	436.4	6	0	51,546	255	122	133	51,546	12	14	194	191	0.91	0.91	210,000	228,000	11,802	12,814	231	438,000	1
1992	12	10	53,251		689,404	436.5	6	0	51,518	255	122	133	51,518	12	14	194	191	0.91	0.91	210,000	228,000	11,802	12,814	231	438,000	1
1992	12	11	58,577		691,344	436.6	6	0	56,637	254	122	133	56,637	12	14	194	192	0.91	0.91	210,000	228,000	12,982	14,095	231	438,000	1



**Table 1-2 Calculation of Annual Energy with Expansion Plant (9/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1993	1	10	13,169		676,974	436.3	3	0	27,539	255	122	133	27,539	12	14	193	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1993	1	10	13,169		662,474	435.6	3	0	27,668	256	123	134	27,668	12	14	193	190	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1993	1	11	14,486		646,536	434.9	3	0	30,424	256	122	134	30,424	12	14	192	190	0.91	0.91	208,048	228,000	6,866	7,524	231	436,049	1
1993	2	10	8,500		627,216	434.1	3	0	27,820	258	123	135	27,820	12	14	191	189	0.90	0.91	207,946	228,000	6,238	6,840	231	435,946	1
1993	2	10	8,500		607,830	433.2	3	0	27,886	258	122	136	27,886	12	15	190	188	0.90	0.91	206,379	228,000	6,191	6,840	231	434,379	2
1993	2	8	6,800		592,274	432.4	3	0	22,356	259	122	137	22,356	12	15	190	187	0.90	0.91	204,896	228,000	4,918	5,472	231	432,896	2
1993	3	10	5,803		570,062	431.6	3	0	28,016	259	122	138	28,016	12	15	189	185	0.90	0.91	203,303	228,000	6,099	6,840	231	431,303	2
1993	3	10	5,803		547,758	430.6	3	0	28,107	260	121	139	28,107	12	15	188	184	0.90	0.91	201,429	228,000	6,043	6,840	231	429,429	2
1993	3	11	6,384		523,502	429.4	3	0	30,640	258	121	137	30,640	12	15	187	183	0.90	0.91	199,225	224,205	6,574	7,399	231	423,430	2
1993	4	10	5,793		501,346	428.0	3	0	27,949	259	120	139	27,949	11	15	186	182	0.90	0.91	196,759	223,958	5,903	6,719	231	420,717	2
1993	4	10	5,793		479,279	426.7	3	0	27,860	258	120	138	27,860	11	15	184	181	0.90	0.91	194,426	221,865	5,833	6,656	231	416,291	3
1993	4	10	5,793		457,337	425.4	3	0	27,735	257	119	138	27,735	11	15	183	179	0.90	0.90	192,119	219,422	5,764	6,583	231	411,541	3
1993	5	10	37,297		466,933	425.1	3	0	27,701	256	119	138	27,701	11	15	183	179	0.90	0.90	191,478	218,742	5,744	6,562	231	410,220	3
1993	5	10	37,297		476,476	425.6	3	0	27,754	257	119	138	27,754	11	15	183	180	0.90	0.90	192,473	219,798	5,774	6,594	231	412,270	3
1993	5	11	41,026		486,910	426.2	3	0	30,592	258	119	138	30,592	11	15	184	180	0.90	0.91	193,520	220,906	6,386	7,290	231	414,426	2
1993	6	10	116,087		575,053	429.1	3	0	27,944	259	121	138	27,944	12	15	187	183	0.90	0.91	198,730	224,897	5,962	6,747	231	423,627	2
1993	6	10	116,087		663,260	433.3	3	0	27,880	258	122	136	27,880	12	15	190	188	0.90	0.91	206,515	228,000	6,195	6,840	231	434,515	2
1993	6	10	116,087		666,085	435.4	12	0	113,263	257	123	134	113,263	12	14	192	190	0.91	0.91	210,000	228,000	25,746	27,953	231	438,000	1
1993	7	10	90,131		668,341	435.5	10	0	87,875	256	123	134	87,875	12	14	193	190	0.91	0.91	210,000	228,000	19,992	21,706	231	438,000	1
1993	7	10	90,131		670,664	435.6	10	0	87,808	256	123	134	87,808	12	14	193	190	0.91	0.91	210,000	228,000	19,992	21,706	231	438,000	1
1993	7	11	99,144		673,299	435.7	10	0	96,509	256	123	133	96,509	12	14	193	191	0.91	0.91	210,000	228,000	21,991	23,876	231	438,000	1
1993	8	10	31,921		674,180	435.8	3	0	31,040	256	122	133	31,040	12	14	193	191	0.91	0.91	210,000	228,000	7,077	7,684	231	438,000	1
1993	8	10	31,921		675,071	435.8	3	0	31,031	256	122	133	31,031	12	14	193	191	0.91	0.91	210,000	228,000	7,077	7,684	231	438,000	1
1993	8	11	35,113		676,061	435.9	3	0	34,123	256	122	133	34,123	12	14	193	191	0.91	0.91	210,000	228,000	7,785	8,452	231	438,000	1
1993	9	10	7,625		655,983	435.4	3	0	27,703	257	123	134	27,703	12	14	192	190	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1993	9	10	7,625		635,872	434.5	3	0	27,736	257	122	135	27,736	12	14	192	189	0.91	0.91	207,991	228,000	6,240	6,840	231	435,991	2
1993	9	10	7,625		615,638	433.6	3	0	27,859	258	122	136	27,859	12	15	191	188	0.90	0.91	207,066	228,000	6,212	6,840	231	435,066	2
1993	10	10	74,415	1,629	660,602	434.2	3	0	27,822	258	123	135	27,822	12	14	191	189	0.90	0.91	208,129	228,000	6,244	6,840	231	436,129	2
1993	10	10	74,415	1,629	662,267	435.2	8	0	71,121	257	123	134	71,121	12	14	192	190	0.91	0.91	210,000	228,000	16,149	17,533	231	438,000	1
1993	10	11	81,857	1,792	664,145	435.3	8	0	78,186	257	123	134	78,186	12	14	192	190	0.91	0.91	210,000	228,000	17,764	19,287	231	438,000	1
1993	11	10	99,472		666,543	435.4	11	0	97,074	257	123	134	97,074	12	14	192	190	0.91	0.91	210,000	228,000	22,071	23,963	231	438,000	1
1993	11	10	99,472		669,020	435.5	11	0	96,994	256	123	134	96,994	12	14	193	190	0.91	0.91	210,000	228,000	22,071	23,963	231	438,000	1
1993	11	10	99,472		671,578	435.6	11	0	96,913	256	123	134	96,913	12	14	193	190	0.91	0.91	210,000	228,000	22,071	23,963	231	438,000	1
1993	12	10	108,432		674,526	435.8	11	0	105,485	256	122	133	105,485	12	14	193	191	0.91	0.91	210,000	228,000	24,045	26,106	231	438,000	1
1993	12	10	108,432		677,577	435.9	11	0	105,381	256	122	133	105,381	12	14	193	191	0.91	0.91	210,000	228,000	24,045	26,106	231	438,000	1
1993	12	11	119,276		681,056	436.1	11	0	115,796	255	122	133	115,796	12	14	193	191	0.91	0.91	210,000	228,000	26,449	28,717	231	438,000	1

**Table 1-2 Calculation of Annual Energy with Expansion Plant (10/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1994	1	10	72,873		683,200	436.2	8	0	70,729	255	122	133	70,729	12	14	193	191	0.91	0.91	210,000	228,000	16,170	17,556	231	438,000	1
1994	1	10	72,873		685,394	436.3	8	0	70,680	255	122	133	70,680	12	14	193	191	0.91	0.91	210,000	228,000	16,170	17,556	231	438,000	1
1994	1	11	80,160		687,864	436.4	8	0	77,690	255	122	133	77,690	12	14	194	191	0.91	0.91	210,000	228,000	17,787	19,312	231	438,000	1
1994	2	10	56,431		689,665	436.5	6	0	54,630	255	122	133	54,630	12	14	194	192	0.91	0.91	210,000	228,000	12,516	13,589	231	438,000	1
1994	2	10	56,431		691,496	436.6	6	0	54,599	254	122	133	54,599	12	14	194	192	0.91	0.91	210,000	228,000	12,516	13,589	231	438,000	1
1994	2	8	45,145		692,984	436.6	6	0	43,657	254	122	133	43,657	12	14	194	192	0.91	0.91	210,000	228,000	10,013	10,871	231	438,000	1
1994	3	10	13,053		678,513	436.3	3	0	27,525	255	122	133	27,525	12	14	194	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1994	3	10	13,053		663,911	435.7	3	0	27,655	256	123	133	27,655	12	14	193	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1994	3	11	14,359		647,726	435.0	3	0	30,544	257	123	134	30,544	12	14	192	190	0.91	0.91	209,572	228,000	6,916	7,524	231	437,572	1
1994	4	10	13,559		633,498	434.3	3	0	27,787	257	122	135	27,787	12	14	191	189	0.90	0.91	207,984	228,000	6,240	6,840	231	435,984	1
1994	4	10	13,559		619,199	433.6	3	0	27,858	258	122	136	27,858	12	15	191	188	0.90	0.91	207,116	228,000	6,213	6,840	231	435,116	2
1994	4	10	13,559		604,853	433.0	3	0	27,904	258	122	136	27,904	12	15	190	187	0.90	0.91	205,912	228,000	6,177	6,840	231	433,912	2
1994	5	10	13,931		590,831	432.3	3	0	27,953	259	122	137	27,953	12	15	190	186	0.90	0.91	204,711	228,000	6,141	6,840	231	432,711	2
1994	5	10	13,931		576,757	431.7	3	0	28,006	259	122	138	28,006	12	15	189	186	0.90	0.91	203,524	228,000	6,106	6,840	231	431,524	2
1994	5	11	15,325		561,210	431.0	3	0	30,871	260	121	139	30,871	12	15	188	185	0.90	0.91	202,277	228,000	6,675	7,524	231	430,277	2
1994	6	10	12,112		545,190	430.3	3	0	28,133	260	121	139	28,133	12	15	188	184	0.90	0.91	200,949	228,000	6,028	6,840	231	428,949	2
1994	6	10	12,112		529,449	429.5	3	0	27,853	258	121	137	27,853	12	15	187	184	0.90	0.91	199,406	224,278	5,982	6,728	231	423,684	2
1994	6	10	12,112		513,646	428.5	3	0	27,916	258	120	138	27,916	11	15	186	182	0.90	0.91	197,727	224,102	5,932	6,723	231	421,829	2
1994	7	10	11,772		497,471	427.6	3	0	27,946	259	120	139	27,946	11	15	185	181	0.90	0.91	196,033	223,562	5,881	6,707	231	419,595	2
1994	7	10	11,772		481,388	426.7	3	0	27,855	258	120	138	27,855	11	15	184	180	0.90	0.91	194,333	221,766	5,830	6,653	231	416,099	2
1994	7	11	12,949		463,801	425.7	3	0	30,535	257	119	138	30,535	11	15	183	180	0.90	0.90	192,566	219,895	6,355	7,257	231	412,461	2
1994	8	10	33,128		469,205	425.3	3	0	27,725	257	119	138	27,725	11	15	183	179	0.90	0.90	191,930	219,222	5,758	6,577	231	411,151	3
1994	8	10	33,128		474,577	425.7	3	0	27,755	257	119	138	27,755	11	15	183	180	0.90	0.90	192,491	219,816	5,775	6,594	231	412,307	3
1994	8	11	36,441		480,452	426.0	3	0	30,566	257	119	138	30,566	11	15	184	180	0.90	0.91	193,081	220,441	6,372	7,275	231	413,523	3
1994	9	10	32,028		486,953	426.3	3	0	25,527	236	119	117	25,527	11	11	184	185	0.90	0.92	193,780	193,957	5,813	5,819	231	387,737	3
1994	9	10	32,028		493,257	426.7	3	0	25,723	238	120	119	25,723	11	11	184	185	0.90	0.92	194,450	196,838	5,833	5,905	231	391,288	3
1994	9	10	32,028		499,372	427.1	3	0	25,913	240	120	120	25,913	11	11	185	185	0.90	0.92	195,100	199,631	5,853	5,989	231	394,732	3
1994	10	10	99,341	1,629	570,054	429.3	3	0	27,030	250	121	130	27,030	12	13	187	185	0.90	0.91	199,147	215,284	5,974	6,459	231	414,431	3
1994	10	10	99,341	1,629	639,837	432.7	3	0	27,929	259	122	137	27,929	12	15	190	187	0.90	0.91	205,300	228,000	6,159	6,840	231	433,300	3
1994	10	11	109,275	1,792	716,971	436.0	3	0	30,349	255	122	133	30,349	12	14	193	191	0.91	0.91	210,000	228,000	6,930	7,524	231	438,000	2
1994	11	10	137,166		713,286	437.7	15	0	140,851	253	121	132	140,851	12	14	195	193	0.91	0.91	210,000	228,000	32,529	35,317	231	438,000	1
1994	11	10	137,166		709,442	437.5	15	0	141,009	253	121	132	141,009	12	14	195	193	0.91	0.91	210,000	228,000	32,529	35,317	231	438,000	1
1994	11	10	137,166		714,730	437.5	14	0	131,878	253	121	132	131,878	12	14	195	193	0.91	0.91	210,000	228,000	30,429	33,037	231	438,000	1
1994	12	10	76,689		715,675	437.7	8	0	75,743	253	121	132	75,743	12	14	195	193	0.91	0.91	210,000	228,000	17,493	18,992	231	438,000	0
1994	12	10	76,689		715,723	437.7	8	0	76,641	253	121	132	76,641	12	14	195	193	0.91	0.91	210,000	228,000	17,703	19,220	231	438,000	0
1994	12	11	84,358		716,080	437.7	8	0	84,000	253	121	132	84,000	12	14	195	193	0.91	0.91	210,000	228,000	19,404	21,067	231	438,000	0

**Table 1-2 Calculation of Annual Energy with Expansion Plant (11/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1995	1	10	28,237		717,050	437.8	3	0	27,267	252	121	132	27,267	12	14	195	193	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1995	1	10	28,237		718,028	437.8	3	0	27,260	252	121	132	27,260	12	14	195	193	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1995	1	11	31,061		719,113	437.8	3	0	29,976	252	121	132	29,976	12	14	195	193	0.91	0.91	210,000	228,000	6,930	7,524	231	438,000	1
1995	2	10	27,036		718,901	437.9	3	0	27,248	252	121	132	27,248	12	14	195	193	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1995	2	10	27,036		718,687	437.9	3	0	27,249	252	121	132	27,249	12	14	195	193	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1995	2	8	21,629		718,515	437.8	3	0	21,801	252	121	132	21,801	12	14	195	193	0.91	0.91	210,000	228,000	5,040	5,472	231	438,000	1
1995	3	10	11,602		702,802	437.5	3	0	27,315	253	121	132	27,315	12	14	195	193	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1995	3	10	11,602		686,957	436.8	3	0	27,446	254	122	133	27,446	12	14	194	192	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1995	3	11	12,762		669,368	436.0	3	0	30,351	255	122	133	30,351	12	14	193	191	0.91	0.91	210,000	228,000	6,930	7,524	231	438,000	1
1995	4	10	40,779		670,398	435.6	4	0	39,748	256	123	134	39,748	12	14	193	190	0.91	0.91	210,000	228,000	9,051	9,827	231	438,000	1
1995	4	10	40,779		671,442	435.7	4	0	39,735	256	123	134	39,735	12	14	193	191	0.91	0.91	210,000	228,000	9,051	9,827	231	438,000	1
1995	4	10	40,779		672,500	435.7	4	0	39,721	256	123	133	39,721	12	14	193	191	0.91	0.91	210,000	228,000	9,051	9,827	231	438,000	1
1995	5	10	108,084		675,407	435.8	11	0	105,177	256	122	133	105,177	12	14	193	191	0.91	0.91	210,000	228,000	23,982	26,038	231	438,000	1
1995	5	10	108,084		678,415	435.9	11	0	105,076	256	122	133	105,076	12	14	193	191	0.91	0.91	210,000	228,000	23,982	26,038	231	438,000	1
1995	5	11	118,893		681,845	436.1	11	0	115,463	255	122	133	115,463	12	14	193	191	0.91	0.91	210,000	228,000	26,380	28,641	231	438,000	1
1995	6	10	81,378		684,250	436.2	9	0	78,972	255	122	133	78,972	12	14	193	191	0.91	0.91	210,000	228,000	18,060	19,608	231	438,000	1
1995	6	10	81,378		686,717	436.3	9	0	78,911	255	122	133	78,911	12	14	194	191	0.91	0.91	210,000	228,000	18,060	19,608	231	438,000	1
1995	6	10	81,378		689,246	436.4	9	0	78,849	255	122	133	78,849	12	14	194	191	0.91	0.91	210,000	228,000	18,060	19,608	231	438,000	1
1995	7	10	24,996		686,738	436.4	3	0	27,505	255	122	133	27,505	12	14	194	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1995	7	10	24,996		684,207	436.3	3	0	27,527	255	122	133	27,527	12	14	194	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1995	7	11	27,496		681,397	436.2	3	0	30,306	255	122	133	30,306	12	14	193	191	0.91	0.91	210,000	228,000	6,930	7,524	231	438,000	1
1995	8	10	30,868		682,318	436.2	3	0	29,947	255	122	133	29,947	12	14	193	191	0.91	0.91	210,000	228,000	6,846	7,433	231	438,000	1
1995	8	10	30,868		683,247	436.2	3	0	29,939	255	122	133	29,939	12	14	193	191	0.91	0.91	210,000	228,000	6,846	7,433	231	438,000	1
1995	8	11	33,955		684,280	436.3	3	0	32,922	255	122	133	32,922	12	14	193	191	0.91	0.91	210,000	228,000	7,531	8,176	231	438,000	1
1995	9	10	52,334		685,865	436.3	6	0	50,748	255	122	133	50,748	12	14	194	191	0.91	0.91	210,000	228,000	11,613	12,608	231	438,000	1
1995	9	10	52,334		687,477	436.4	6	0	50,723	255	122	133	50,723	12	14	194	191	0.91	0.91	210,000	228,000	11,613	12,608	231	438,000	1
1995	9	10	52,334		689,114	436.5	6	0	50,696	255	122	133	50,696	12	14	194	191	0.91	0.91	210,000	228,000	11,613	12,608	231	438,000	1
1995	10	10	93,884	1,629	692,142	436.6	10	0	89,226	254	122	133	89,226	12	14	194	192	0.91	0.91	210,000	228,000	20,454	22,207	231	438,000	1
1995	10	10	93,884	1,629	695,256	436.7	10	0	89,141	254	122	133	89,141	12	14	194	192	0.91	0.91	210,000	228,000	20,454	22,207	231	438,000	1
1995	10	11	103,272	1,792	698,782	436.9	10	0	97,955	254	122	132	97,955	12	14	194	192	0.91	0.91	210,000	228,000	22,499	24,428	231	438,000	1
1995	11	10	92,523		702,074	437.0	10	0	89,231	254	121	132	89,231	12	14	194	192	0.91	0.91	210,000	228,000	20,517	22,276	231	438,000	1
1995	11	10	92,523		705,456	437.2	10	0	89,141	253	121	132	89,141	12	14	195	192	0.91	0.91	210,000	228,000	20,517	22,276	231	438,000	1
1995	11	10	92,523		708,929	437.3	10	0	89,049	253	121	132	89,049	12	14	195	192	0.91	0.91	210,000	228,000	20,517	22,276	231	438,000	1
1995	12	10	24,339		705,927	437.3	3	0	27,342	253	121	132	27,342	12	14	195	193	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1995	12	10	24,339		702,899	437.2	3	0	27,366	253	121	132	27,366	12	14	195	192	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1995	12	11	26,773		699,540	437.1	3	0	30,132	254	121	132	30,132	12	14	194	192	0.91	0.91	210,000	228,000	6,930	7,524	231	438,000	1

**Table 1-2 Calculation of Annual Energy with Expansion Plant (12/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1996	1	10	15,710		687,793	436.7	3	0	27,456	254	122	133	27,456	12	14	194	192	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1996	1	10	15,710		675,944	436.2	3	0	27,559	255	122	133	27,559	12	14	193	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1996	1	11	17,281		662,786	435.6	3	0	30,439	256	123	134	30,439	12	14	193	190	0.91	0.91	210,000	228,000	6,930	7,524	231	438,000	1
1996	2	10	15,323		650,339	435.0	3	0	27,769	257	123	134	27,769	12	14	192	190	0.91	0.91	209,684	228,000	6,291	6,840	231	437,684	1
1996	2	10	15,323		637,907	434.4	3	0	27,755	257	122	135	27,755	12	14	192	189	0.90	0.91	208,009	228,000	6,240	6,840	231	436,009	1
1996	2	9	13,790		626,642	433.9	3	0	25,055	258	123	135	25,055	12	15	191	188	0.90	0.91	207,632	228,000	5,606	6,156	231	435,632	2
1996	3	10	7,773		606,526	433.2	3	0	27,889	258	122	136	27,889	12	15	190	188	0.90	0.91	206,299	228,000	6,189	6,840	231	434,299	2
1996	3	10	7,773		586,340	432.3	3	0	27,959	259	122	137	27,959	12	15	189	186	0.90	0.91	204,592	228,000	6,138	6,840	231	432,592	2
1996	3	11	8,550		564,047	431.3	3	0	30,843	260	121	138	30,843	12	15	189	185	0.90	0.91	202,800	228,000	6,692	7,524	231	430,800	2
1996	4	10	34,968		570,944	431.0	3	0	28,071	260	121	139	28,071	12	15	188	185	0.90	0.91	202,150	228,000	6,065	6,840	231	430,150	2
1996	4	10	34,968		577,869	431.3	3	0	28,042	260	121	138	28,042	12	15	189	185	0.90	0.91	202,732	228,000	6,082	6,840	231	430,732	2
1996	4	10	34,968		584,822	431.6	3	0	28,015	259	122	138	28,015	12	15	189	186	0.90	0.91	203,317	228,000	6,100	6,840	231	431,317	2
1996	5	10	7,739		564,520	431.3	3	0	28,041	260	121	138	28,041	12	15	189	185	0.90	0.91	202,755	228,000	6,083	6,840	231	430,755	2
1996	5	10	7,739		544,131	430.4	3	0	28,128	260	121	139	28,128	12	15	188	184	0.90	0.91	201,044	228,000	6,031	6,840	231	429,044	2
1996	5	11	8,513		521,992	429.2	3	0	30,652	258	121	137	30,652	12	15	187	183	0.90	0.91	198,952	224,187	6,565	7,398	231	423,139	2
1996	6	10	30,206		524,278	428.6	3	0	27,921	259	120	138	27,921	12	15	186	182	0.90	0.91	197,896	224,238	5,937	6,727	231	422,134	2
1996	6	10	30,206		526,573	428.8	3	0	27,911	258	120	138	27,911	12	15	186	183	0.90	0.91	198,139	224,264	5,944	6,728	231	422,403	2
1996	6	10	30,206		528,877	428.9	3	0	27,902	258	120	138	27,902	12	15	186	183	0.90	0.91	198,384	224,289	5,952	6,729	231	422,673	2
1996	7	10	33,251		534,239	429.1	3	0	27,889	258	121	138	27,889	12	15	187	183	0.90	0.91	198,792	224,352	5,964	6,731	231	423,143	2
1996	7	10	33,251		539,622	429.4	3	0	27,867	258	121	137	27,867	12	15	187	183	0.90	0.91	199,364	224,411	5,981	6,732	231	423,775	2
1996	7	11	36,576		545,569	429.8	3	0	30,629	258	121	137	30,629	12	15	187	184	0.90	0.91	199,968	224,474	6,599	7,408	231	424,442	2
1996	8	10	37,352		554,774	430.2	3	0	28,146	261	121	140	28,146	12	15	188	184	0.90	0.91	200,695	228,000	6,021	6,840	231	428,695	2
1996	8	10	37,352		564,021	430.6	3	0	28,105	260	121	139	28,105	12	15	188	184	0.90	0.91	201,469	228,000	6,044	6,840	231	429,469	2
1996	8	11	41,087		574,237	431.0	3	0	30,870	260	121	139	30,870	12	15	188	185	0.90	0.91	202,288	228,000	6,676	7,524	231	430,288	2
1996	9	10	76,420		622,706	432.4	3	0	27,951	259	122	137	27,951	12	15	190	186	0.90	0.91	204,763	228,000	6,143	6,840	231	432,763	2
1996	9	10	76,420		671,381	434.6	3	0	27,745	257	122	135	27,745	12	14	192	189	0.91	0.91	208,247	228,000	6,247	6,840	231	436,247	2
1996	9	10	76,420		673,439	435.7	8	0	74,362	256	123	133	74,362	12	14	193	191	0.91	0.91	210,000	228,000	16,947	18,400	231	438,000	1
1996	10	10	99,737	1,629	676,158	435.8	10	0	95,388	256	122	133	95,388	12	14	193	191	0.91	0.91	210,000	228,000	21,756	23,621	231	438,000	1
1996	10	10	99,737	1,629	678,964	436.0	10	0	95,302	256	122	133	95,302	12	14	193	191	0.91	0.91	210,000	228,000	21,756	23,621	231	438,000	1
1996	10	11	109,711	1,792	682,152	436.1	10	0	104,731	255	122	133	104,731	12	14	193	191	0.91	0.91	210,000	228,000	23,932	25,983	231	438,000	1
1996	11	10	43,468		683,467	436.2	5	0	42,152	255	122	133	42,152	12	14	193	191	0.91	0.91	210,000	228,000	9,639	10,465	231	438,000	1
1996	11	10	43,468		684,801	436.3	5	0	42,135	255	122	133	42,135	12	14	193	191	0.91	0.91	210,000	228,000	9,639	10,465	231	438,000	1
1996	11	10	43,468		686,152	436.3	5	0	42,117	255	122	133	42,117	12	14	194	191	0.91	0.91	210,000	228,000	9,639	10,465	231	438,000	1
1996	12	10	30,995		687,154	436.4	3	0	29,993	255	122	133	29,993	12	14	194	191	0.91	0.91	210,000	228,000	6,867	7,456	231	438,000	1
1996	12	10	30,995		688,165	436.4	3	0	29,984	255	122	133	29,984	12	14	194	191	0.91	0.91	210,000	228,000	6,867	7,456	231	438,000	1
1996	12	11	34,095		689,288	436.5	3	0	32,971	255	122	133	32,971	12	14	194	191	0.91	0.91	210,000	228,000	7,554	8,201	231	438,000	1

**Table 1-2 Calculation of Annual Energy with Expansion Plant (13/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1997	1	10	7,428		669,133	436.0	3	0	27,583	255	122	133	27,583	12	14	193	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1997	1	10	7,428		648,803	435.1	3	0	27,758	257	123	134	27,758	12	14	192	190	0.91	0.91	209,844	228,000	6,295	6,840	231	437,844	1
1997	1	11	8,171		626,380	434.2	3	0	30,594	258	123	135	30,594	12	14	191	189	0.90	0.91	207,937	228,000	6,862	7,524	231	435,937	1
1997	2	10	6,566		605,054	433.2	3	0	27,892	258	122	136	27,892	12	15	190	187	0.90	0.91	206,226	228,000	6,187	6,840	231	434,226	2
1997	2	10	6,566		583,654	432.2	3	0	27,966	259	122	137	27,966	12	15	189	186	0.90	0.91	204,416	228,000	6,132	6,840	231	432,416	2
1997	2	8	5,253		566,475	431.3	3	0	22,432	260	121	138	22,432	12	15	189	185	0.90	0.91	202,787	228,000	4,867	5,472	231	430,787	2
1997	3	10	6,785		545,139	430.4	3	0	28,121	260	121	139	28,121	12	15	188	184	0.90	0.91	201,168	228,000	6,035	6,840	231	429,168	2
1997	3	10	6,785		524,064	429.3	3	0	27,860	258	121	137	27,860	12	15	187	183	0.90	0.91	199,116	224,214	5,973	6,726	231	423,330	2
1997	3	11	7,464		500,785	428.0	3	0	30,743	259	120	139	30,743	11	15	186	182	0.90	0.91	196,759	223,948	6,493	7,390	231	420,708	2
1997	4	10	28,009		500,874	427.3	3	0	27,920	259	120	139	27,920	11	15	185	181	0.90	0.91	195,543	223,045	5,866	6,691	231	418,588	3
1997	4	10	28,009		500,962	427.3	3	0	27,921	259	120	139	27,921	11	15	185	181	0.90	0.91	195,552	223,054	5,867	6,692	231	418,607	3
1997	4	10	28,009		501,050	427.3	3	0	27,921	259	120	139	27,921	11	15	185	181	0.90	0.91	195,562	223,064	5,867	6,692	231	418,626	3
1997	5	10	45,965		519,044	427.9	3	0	27,971	259	120	139	27,971	11	15	185	182	0.90	0.91	196,507	224,062	5,895	6,722	231	420,570	2
1997	5	10	45,965		537,098	428.9	3	0	27,911	258	120	138	27,911	12	15	186	183	0.90	0.91	198,421	224,397	5,953	6,732	231	422,818	2
1997	5	11	50,562		556,683	430.0	3	0	30,978	261	121	140	30,978	12	16	187	183	0.90	0.91	200,419	228,000	6,614	7,524	231	428,419	2
1997	6	10	13,571		542,104	430.1	3	0	28,150	261	121	140	28,150	12	15	188	184	0.90	0.91	200,630	228,000	6,019	6,840	231	428,630	2
1997	6	10	13,571		527,812	429.3	3	0	27,863	258	121	137	27,863	12	15	187	183	0.90	0.91	199,154	224,262	5,975	6,728	231	423,416	2
1997	6	10	13,571		513,463	428.5	3	0	27,920	259	120	138	27,920	11	15	186	182	0.90	0.91	197,631	224,101	5,929	6,723	231	421,732	2
1997	7	10	26,102		511,604	428.0	3	0	27,961	259	120	139	27,961	11	15	186	182	0.90	0.91	196,771	224,093	5,903	6,723	231	420,863	2
1997	7	10	26,102		509,737	427.9	3	0	27,969	259	120	139	27,969	11	15	185	182	0.90	0.91	196,573	224,072	5,897	6,722	231	420,645	2
1997	7	11	28,712		507,688	427.8	3	0	30,760	259	120	139	30,760	11	15	185	181	0.90	0.91	196,366	223,913	6,480	7,389	231	420,279	2
1997	8	10	20,234		499,986	427.5	3	0	27,936	259	120	139	27,936	11	15	185	181	0.90	0.91	195,851	223,370	5,876	6,701	231	419,221	2
1997	8	10	20,234		492,328	427.1	3	0	27,893	258	120	139	27,893	11	15	185	181	0.90	0.91	195,041	222,515	5,851	6,675	231	417,556	2
1997	8	11	22,258		483,953	426.6	3	0	30,633	258	119	138	30,633	11	15	184	180	0.90	0.91	194,203	221,629	6,409	7,314	231	415,832	3
1997	9	10	80,306		537,899	427.9	3	0	26,360	244	120	124	26,360	11	12	186	185	0.90	0.92	196,636	206,200	5,899	6,186	231	402,835	3
1997	9	10	80,306		590,229	430.8	3	0	27,976	259	121	138	27,976	12	15	188	185	0.90	0.91	201,859	226,826	6,056	6,805	231	428,685	3
1997	9	10	80,306		642,645	433.2	3	0	27,889	258	122	136	27,889	12	15	190	188	0.90	0.91	206,285	228,000	6,189	6,840	231	434,285	2
1997	10	10	89,779	1,629	703,156	435.8	3	0	27,639	256	123	133	27,639	12	14	193	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	2
1997	10	10	89,779	1,629	706,389	437.2	9	0	84,918	253	121	132	84,918	12	14	195	192	0.91	0.91	210,000	228,000	19,551	21,227	231	438,000	1
1997	10	11	98,757	1,792	710,041	437.4	9	0	93,313	253	121	132	93,313	12	14	195	193	0.91	0.91	210,000	228,000	21,506	23,349	231	438,000	1
1997	11	10	125,707		714,896	437.6	13	0	120,852	253	121	132	120,852	12	14	195	193	0.91	0.91	210,000	228,000	27,888	30,278	231	438,000	1
1997	11	10	125,707		710,664	437.6	14	0	129,940	253	121	132	129,940	12	14	195	193	0.91	0.91	210,000	228,000	29,988	32,558	231	438,000	1
1997	11	10	125,707		715,542	437.6	13	0	120,829	253	121	132	120,829	12	14	195	193	0.91	0.91	210,000	228,000	27,888	30,278	231	438,000	1
1997	12	10	85,301		716,113	437.7	9	0	84,729	253	121	132	84,729	12	14	195	193	0.91	0.91	210,000	228,000	19,572	21,250	231	438,000	0
1997	12	10	85,301		716,147	437.7	9	0	85,267	253	121	132	85,267	12	14	195	193	0.91	0.91	210,000	228,000	19,698	21,386	231	438,000	0
1997	12	11	93,831		716,489	437.7	9	0	93,489	252	121	132	93,489	12	14	195	193	0.91	0.91	210,000	228,000	21,599	23,450	231	438,000	0

**Table 1-2 Calculation of Annual Energy with Expansion Plant (14/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1998	1	10	37,713		718,035	437.8	4	0	36,167	252	121	132	36,167	12	14	195	193	0.91	0.91	210,000	228,000	8,358	9,074	231	438,000	1
1998	1	10	37,713		719,597	437.9	4	0	36,151	252	121	132	36,151	12	14	195	193	0.91	0.91	210,000	228,000	8,358	9,074	231	438,000	1
1998	1	11	41,484		711,275	437.7	5	0	49,807	253	121	132	49,807	12	14	195	193	0.91	0.91	210,000	228,000	11,504	12,490	231	438,000	1
1998	2	10	14,321		698,232	437.2	3	0	27,364	253	121	132	27,364	12	14	195	192	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1998	2	10	14,321		685,079	436.6	3	0	27,474	254	122	133	27,474	12	14	194	192	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1998	2	8	11,457		674,474	436.1	3	0	22,062	255	122	133	22,062	12	14	193	191	0.91	0.91	210,000	228,000	5,040	5,472	231	438,000	1
1998	3	10	10,654		657,424	435.4	3	0	27,703	257	123	134	27,703	12	14	192	190	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1998	3	10	10,654		640,369	434.7	3	0	27,709	257	122	134	27,709	12	14	192	189	0.91	0.91	208,017	228,000	6,241	6,840	231	436,017	1
1998	3	11	11,719		621,461	433.8	3	0	30,628	258	123	135	30,628	12	15	191	188	0.90	0.91	207,504	228,000	6,848	7,524	231	435,504	1
1998	4	10	6,628		600,181	432.9	3	0	27,908	258	122	136	27,908	12	15	190	187	0.90	0.91	205,810	228,000	6,174	6,840	231	433,810	2
1998	4	10	6,628		578,825	432.0	3	0	27,984	259	122	137	27,984	12	15	189	186	0.90	0.91	204,006	228,000	6,120	6,840	231	432,006	2
1998	4	10	6,628		557,385	431.0	3	0	28,068	260	121	139	28,068	12	15	188	185	0.90	0.91	202,202	228,000	6,066	6,840	231	430,202	2
1998	5	10	11,143		540,376	430.1	3	0	28,152	261	121	140	28,152	12	16	187	184	0.90	0.91	200,587	228,000	6,018	6,840	231	428,587	2
1998	5	10	11,143		523,646	429.2	3	0	27,873	258	121	138	27,873	12	15	187	183	0.90	0.91	198,840	224,213	5,965	6,726	231	423,054	2
1998	5	11	12,258		505,166	428.1	3	0	30,737	259	120	139	30,737	11	15	186	182	0.90	0.91	196,969	224,002	6,500	7,392	231	420,971	2
1998	6	10	20,150		497,394	427.4	3	0	27,922	259	120	139	27,922	11	15	185	181	0.90	0.91	195,581	223,085	5,867	6,693	231	418,667	2
1998	6	10	20,150		489,666	426.9	3	0	27,878	258	120	139	27,878	11	15	185	181	0.90	0.91	194,765	222,222	5,843	6,667	231	416,987	2
1998	6	10	20,150		481,982	426.5	3	0	27,834	258	119	138	27,834	11	15	184	180	0.90	0.91	193,954	221,365	5,819	6,641	231	415,319	2
1998	7	10	39,873		494,008	426.6	3	0	27,847	258	119	138	27,847	11	15	184	180	0.90	0.91	194,182	221,607	5,825	6,648	231	415,789	2
1998	7	10	39,873		505,966	427.3	3	0	27,915	258	120	139	27,915	11	15	185	181	0.90	0.91	195,445	222,941	5,863	6,688	231	418,387	2
1998	7	11	43,860		519,058	428.0	3	0	30,768	259	120	139	30,768	11	15	186	182	0.90	0.91	196,768	224,189	6,493	7,398	231	420,957	2
1998	8	10	40,696		531,836	428.8	3	0	27,918	258	120	138	27,918	12	15	186	183	0.90	0.91	198,142	224,333	5,944	6,730	231	422,475	2
1998	8	10	40,696		544,665	429.5	3	0	27,867	258	121	137	27,867	12	15	187	184	0.90	0.91	199,505	224,474	5,985	6,734	231	423,979	2
1998	8	11	44,765		558,477	430.2	3	0	30,954	261	121	140	30,954	12	15	188	184	0.90	0.91	200,812	228,000	6,627	7,524	231	428,812	2
1998	9	10	52,571		582,990	431.1	3	0	28,057	260	121	138	28,057	12	15	188	185	0.90	0.91	202,417	228,000	6,073	6,840	231	430,417	3
1998	9	10	52,571		607,599	432.2	3	0	27,963	259	122	137	27,963	12	15	189	186	0.90	0.91	204,495	228,000	6,135	6,840	231	432,495	2
1998	9	10	52,571		632,292	433.3	3	0	27,878	258	122	136	27,878	12	15	190	188	0.90	0.91	206,584	228,000	6,198	6,840	231	434,584	2
1998	10	10	66,481	1,629	669,438	434.8	3	0	27,706	257	122	134	27,706	12	14	192	189	0.91	0.91	208,225	228,000	6,247	6,840	231	436,225	2
1998	10	10	66,481	1,629	671,125	435.6	7	0	63,165	256	123	134	63,165	12	14	193	190	0.91	0.91	210,000	228,000	14,385	15,618	231	438,000	1
1998	10	11	73,129	1,792	673,023	435.7	7	0	69,440	256	123	133	69,440	12	14	193	191	0.91	0.91	210,000	228,000	15,823	17,180	231	438,000	1
1998	11	10	34,329		673,915	435.8	4	0	33,437	256	122	133	33,437	12	14	193	191	0.91	0.91	210,000	228,000	7,623	8,276	231	438,000	1
1998	11	10	34,329		674,816	435.8	4	0	33,428	256	122	133	33,428	12	14	193	191	0.91	0.91	210,000	228,000	7,623	8,276	231	438,000	1
1998	11	10	34,329		675,728	435.9	4	0	33,418	256	122	133	33,418	12	14	193	191	0.91	0.91	210,000	228,000	7,623	8,276	231	438,000	1
1998	12	10	35,273		676,673	435.9	4	0	34,328	256	122	133	34,328	12	14	193	191	0.91	0.91	210,000	228,000	7,833	8,504	231	438,000	1
1998	12	10	35,273		677,629	436.0	4	0	34,317	256	122	133	34,317	12	14	193	191	0.91	0.91	210,000	228,000	7,833	8,504	231	438,000	1
1998	12	11	38,800		678,692	436.0	4	0	37,737	255	122	133	37,737	12	14	193	191	0.91	0.91	210,000	228,000	8,616	9,355	231	438,000	1

**Table 1-2 Calculation of Annual Energy with Expansion Plant (15/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
1999	1	10	78,011		680,959	436.1	8	0	75,745	255	122	133	75,745	12	14	193	191	0.91	0.91	210,000	228,000	17,304	18,787	231	438,000	1
1999	1	10	78,011		683,280	436.2	8	0	75,689	255	122	133	75,689	12	14	193	191	0.91	0.91	210,000	228,000	17,304	18,787	231	438,000	1
1999	1	11	85,812		685,900	436.3	8	0	83,192	255	122	133	83,192	12	14	193	191	0.91	0.91	210,000	228,000	19,034	20,666	231	438,000	1
1999	2	10	30,541		686,812	436.4	3	0	29,629	255	122	133	29,629	12	14	194	191	0.91	0.91	210,000	228,000	6,783	7,364	231	438,000	1
1999	2	10	30,541		687,733	436.4	3	0	29,621	255	122	133	29,621	12	14	194	191	0.91	0.91	210,000	228,000	6,783	7,364	231	438,000	1
1999	2	8	24,433		688,476	436.5	3	0	23,690	255	122	133	23,690	12	14	194	191	0.91	0.91	210,000	228,000	5,426	5,892	231	438,000	1
1999	3	10	25,128		686,092	436.4	3	0	27,511	255	122	133	27,511	12	14	194	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1999	3	10	25,128		683,688	436.3	3	0	27,532	255	122	133	27,532	12	14	194	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1999	3	11	27,641		681,019	436.2	3	0	30,310	255	122	133	30,310	12	14	193	191	0.91	0.91	210,000	228,000	6,930	7,524	231	438,000	1
1999	4	10	35,399		682,057	436.2	4	0	34,360	255	122	133	34,360	12	14	193	191	0.91	0.91	210,000	228,000	7,854	8,527	231	438,000	1
1999	4	10	35,399		683,107	436.2	4	0	34,349	255	122	133	34,349	12	14	193	191	0.91	0.91	210,000	228,000	7,854	8,527	231	438,000	1
1999	4	10	35,399		684,168	436.3	4	0	34,337	255	122	133	34,337	12	14	193	191	0.91	0.91	210,000	228,000	7,854	8,527	231	438,000	1
1999	5	10	36,682		685,332	436.3	4	0	35,518	255	122	133	35,518	12	14	193	191	0.91	0.91	210,000	228,000	8,127	8,824	231	438,000	1
1999	5	10	36,682		686,508	436.4	4	0	35,505	255	122	133	35,505	12	14	194	191	0.91	0.91	210,000	228,000	8,127	8,824	231	438,000	1
1999	5	11	40,350		687,818	436.4	4	0	39,040	255	122	133	39,040	12	14	194	191	0.91	0.91	210,000	228,000	8,940	9,706	231	438,000	1
1999	6	10	112,000		691,411	436.5	12	0	108,407	255	122	133	108,407	12	14	194	192	0.91	0.91	210,000	228,000	24,843	26,972	231	438,000	1
1999	6	10	112,000		695,128	436.7	12	0	108,283	254	122	133	108,283	12	14	194	192	0.91	0.91	210,000	228,000	24,843	26,972	231	438,000	1
1999	6	10	112,000		698,972	436.9	12	0	108,157	254	122	132	108,157	12	14	194	192	0.91	0.91	210,000	228,000	24,843	26,972	231	438,000	1
1999	7	10	22,024		693,561	436.8	3	0	27,434	254	122	132	27,434	12	14	194	192	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1999	7	10	22,024		688,105	436.6	3	0	27,481	254	122	133	27,481	12	14	194	192	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1999	7	11	24,226		682,047	436.3	3	0	30,284	255	122	133	30,284	12	14	194	191	0.91	0.91	210,000	228,000	6,930	7,524	231	438,000	1
1999	8	10	12,662		667,085	435.8	3	0	27,624	256	122	133	27,624	12	14	193	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
1999	8	10	12,662		651,993	435.2	3	0	27,755	257	123	134	27,755	12	14	192	190	0.91	0.91	209,881	228,000	6,296	6,840	231	437,881	1
1999	8	11	13,929		635,388	434.4	3	0	30,533	257	122	135	30,533	12	14	192	189	0.90	0.91	207,990	228,000	6,864	7,524	231	435,990	1
1999	9	10	18,917		626,462	433.8	3	0	27,843	258	123	135	27,843	12	15	191	188	0.90	0.91	207,505	228,000	6,225	6,840	231	435,505	2
1999	9	10	18,917		617,508	433.4	3	0	27,871	258	122	136	27,871	12	15	191	188	0.90	0.91	206,758	228,000	6,203	6,840	231	434,758	2
1999	9	10	18,917		608,523	433.0	3	0	27,901	258	122	136	27,901	12	15	190	187	0.90	0.91	205,996	228,000	6,180	6,840	231	433,996	2
1999	10	10	33,243	1,629	612,228	432.9	3	0	27,910	258	122	136	27,910	12	15	190	187	0.90	0.91	205,772	228,000	6,173	6,840	231	433,772	2
1999	10	10	33,243	1,629	615,945	433.1	3	0	27,897	258	122	136	27,897	12	15	190	187	0.90	0.91	206,087	228,000	6,183	6,840	231	434,087	2
1999	10	11	36,568	1,792	620,047	433.3	3	0	30,673	258	122	136	30,673	12	15	190	188	0.90	0.91	206,419	228,000	6,812	7,524	231	434,419	2
1999	11	10	30,588		622,762	433.4	3	0	27,873	258	122	136	27,873	12	15	191	188	0.90	0.91	206,708	228,000	6,201	6,840	231	434,708	2
1999	11	10	30,588		625,486	433.5	3	0	27,864	258	122	136	27,864	12	15	191	188	0.90	0.91	206,939	228,000	6,208	6,840	231	434,939	2
1999	11	10	30,588		628,218	433.7	3	0	27,856	258	122	135	27,856	12	15	191	188	0.90	0.91	207,171	228,000	6,215	6,840	231	435,171	2
1999	12	10	29,737		630,107	433.8	3	0	27,849	258	122	135	27,849	12	15	191	188	0.90	0.91	207,368	228,000	6,221	6,840	231	435,367	2
1999	12	10	29,737		632,001	433.9	3	0	27,843	258	123	135	27,843	12	15	191	188	0.90	0.91	207,528	228,000	6,226	6,840	231	435,528	2
1999	12	11	32,711		634,091	433.9	3	0	30,621	258	123	135	30,621	12	15	191	188	0.90	0.91	207,685	228,000	6,854	7,524	231	435,685	2

**Table 1-2 Calculation of Annual Energy with Expansion Plant (16/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
2000	1	10	29,204		635,463	434.0	3	0	27,832	258	123	135	27,832	12	14	191	189	0.90	0.91	207,845	228,000	6,235	6,840	231	435,845	2
2000	1	10	29,204		636,839	434.1	3	0	27,828	258	123	135	27,828	12	14	191	189	0.90	0.91	207,950	228,000	6,238	6,840	231	435,950	2
2000	1	11	32,124		638,361	434.2	3	0	30,601	258	123	135	30,601	12	14	191	189	0.90	0.91	208,024	228,000	6,865	7,524	231	436,024	2
2000	2	10	51,845		662,500	434.7	3	0	27,707	257	122	134	27,707	12	14	192	189	0.91	0.91	208,175	228,000	6,245	6,840	231	436,175	2
2000	2	10	51,845		663,692	435.3	5	0	50,654	257	123	134	50,654	12	14	192	190	0.91	0.91	210,000	228,000	11,508	12,494	231	438,000	1
2000	2	9	46,661		664,782	435.4	5	0	45,571	257	123	134	45,571	12	14	192	190	0.91	0.91	210,000	228,000	10,357	11,245	231	438,000	1
2000	3	10	31,386		665,594	435.4	3	0	30,574	257	123	134	30,574	12	14	192	190	0.91	0.91	210,000	228,000	6,951	7,547	231	438,000	1
2000	3	10	31,386		666,415	435.4	3	0	30,566	257	123	134	30,566	12	14	192	190	0.91	0.91	210,000	228,000	6,951	7,547	231	438,000	1
2000	3	11	34,524		667,327	435.5	3	0	33,612	256	123	134	33,612	12	14	193	190	0.91	0.91	210,000	228,000	7,646	8,301	231	438,000	1
2000	4	10	32,006		668,139	435.5	3	0	31,194	256	123	134	31,194	12	14	193	190	0.91	0.91	210,000	228,000	7,098	7,706	231	438,000	1
2000	4	10	32,006		668,960	435.6	3	0	31,185	256	123	134	31,185	12	14	193	190	0.91	0.91	210,000	228,000	7,098	7,706	231	438,000	1
2000	4	10	32,006		669,790	435.6	3	0	31,177	256	123	134	31,177	12	14	193	190	0.91	0.91	210,000	228,000	7,098	7,706	231	438,000	1
2000	5	10	10,887		652,931	435.2	3	0	27,746	257	123	134	27,746	12	14	192	190	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
2000	5	10	10,887		636,068	434.5	3	0	27,750	257	122	135	27,750	12	14	192	189	0.90	0.91	207,995	228,000	6,240	6,840	231	435,995	1
2000	5	11	11,976		617,402	433.7	3	0	30,642	258	122	135	30,642	12	15	191	188	0.90	0.91	207,149	228,000	6,836	7,524	231	435,149	1
2000	6	10	23,973		613,483	433.1	3	0	27,893	258	122	136	27,893	12	15	190	187	0.90	0.91	206,202	228,000	6,186	6,840	231	434,202	2
2000	6	10	23,973		609,550	433.0	3	0	27,906	258	122	136	27,906	12	15	190	187	0.90	0.91	205,869	228,000	6,176	6,840	231	433,869	2
2000	6	10	23,973		605,604	432.8	3	0	27,919	259	122	136	27,919	12	15	190	187	0.90	0.91	205,535	228,000	6,166	6,840	231	433,535	2
2000	7	10	15,638		593,295	432.4	3	0	27,948	259	122	137	27,948	12	15	190	187	0.90	0.91	204,847	228,000	6,145	6,840	231	432,847	2
2000	7	10	15,638		580,940	431.8	3	0	27,993	259	122	138	27,993	12	15	189	186	0.90	0.91	203,805	228,000	6,114	6,840	231	431,805	2
2000	7	11	17,202		567,294	431.3	3	0	30,848	260	121	138	30,848	12	15	189	185	0.90	0.91	202,709	228,000	6,689	7,524	231	430,709	2
2000	8	10	54,970		594,247	431.6	3	0	28,017	259	122	138	28,017	12	15	189	185	0.90	0.91	203,268	228,000	6,098	6,840	231	431,268	2
2000	8	10	54,970		621,299	432.8	3	0	27,919	259	122	136	27,919	12	15	190	187	0.90	0.91	205,551	228,000	6,167	6,840	231	433,551	2
2000	8	11	60,467		651,156	434.1	3	0	30,610	258	123	135	30,610	12	14	191	189	0.90	0.91	207,956	228,000	6,863	7,524	231	435,956	2
2000	9	10	31,039		651,921	434.8	3	0	30,274	256	122	134	30,274	12	14	192	189	0.91	0.91	208,094	228,000	6,825	7,478	231	436,094	1
2000	9	10	31,039		652,694	434.8	3	0	30,266	256	122	134	30,266	12	14	192	190	0.91	0.91	208,098	228,000	6,826	7,478	231	436,098	1
2000	9	10	31,039		653,474	434.9	3	0	30,259	256	122	134	30,259	12	14	192	190	0.91	0.91	208,102	228,000	6,826	7,478	231	436,102	1
2000	10	10	42,703	1,629	654,523	434.9	4	0	40,025	256	122	134	40,025	12	14	192	190	0.91	0.91	208,101	228,000	9,032	9,895	231	436,101	1
2000	10	10	42,703	1,629	655,586	434.9	4	0	40,011	256	122	134	40,011	12	14	192	190	0.91	0.91	208,106	228,000	9,032	9,895	231	436,106	1
2000	10	11	46,973	1,792	656,583	435.0	4	0	44,184	257	123	134	44,184	12	14	192	190	0.91	0.91	209,580	228,000	10,005	10,885	231	437,580	1
2000	11	10	35,002		657,339	435.0	4	0	34,246	257	123	134	34,246	12	14	192	190	0.91	0.91	209,711	228,000	7,759	8,436	231	437,711	1
2000	11	10	35,002		658,098	435.1	4	0	34,242	257	123	134	34,242	12	14	192	190	0.91	0.91	209,761	228,000	7,761	8,436	231	437,761	1
2000	11	10	35,002		658,863	435.1	4	0	34,237	257	123	134	34,237	12	14	192	190	0.91	0.91	209,812	228,000	7,763	8,436	231	437,812	1
2000	12	10	32,577		659,612	435.1	3	0	31,827	257	123	134	31,827	12	14	192	190	0.91	0.91	209,862	228,000	7,219	7,843	231	437,862	1
2000	12	10	32,577		660,366	435.2	3	0	31,823	257	123	134	31,823	12	14	192	190	0.91	0.91	209,911	228,000	7,221	7,843	231	437,911	1
2000	12	11	35,835		661,200	435.2	3	0	35,001	257	123	134	35,001	12	14	192	190	0.91	0.91	209,963	228,000	7,945	8,628	231	437,963	1



**Table 1-2 Calculation of Annual Energy with Expansion Plant (17/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
2001	1	10	39,973		662,147	435.2	4	0	39,026	257	123	134	39,026	12	14	192	190	0.91	0.91	210,000	228,000	8,862	9,622	231	438,000	1
2001	1	10	39,973		663,107	435.3	4	0	39,013	257	123	134	39,013	12	14	192	190	0.91	0.91	210,000	228,000	8,862	9,622	231	438,000	1
2001	1	11	43,970		664,177	435.3	4	0	42,900	257	123	134	42,900	12	14	192	190	0.91	0.91	210,000	228,000	9,748	10,584	231	438,000	1
2001	2	10	33,248		664,997	435.4	4	0	32,428	257	123	134	32,428	12	14	192	190	0.91	0.91	210,000	228,000	7,371	8,003	231	438,000	1
2001	2	10	33,248		665,826	435.4	4	0	32,419	257	123	134	32,419	12	14	192	190	0.91	0.91	210,000	228,000	7,371	8,003	231	438,000	1
2001	2	8	26,598		666,496	435.5	4	0	25,929	256	123	134	25,929	12	14	192	190	0.91	0.91	210,000	228,000	5,897	6,402	231	438,000	1
2001	3	10	11,557		650,293	435.1	3	0	27,760	257	123	134	27,760	12	14	192	190	0.91	0.91	209,806	228,000	6,294	6,840	231	437,806	1
2001	3	10	11,557		634,078	434.4	3	0	27,771	257	122	135	27,771	12	14	191	189	0.90	0.91	207,985	228,000	6,240	6,840	231	435,985	1
2001	3	11	12,713		616,144	433.6	3	0	30,648	258	122	136	30,648	12	15	191	188	0.90	0.91	207,011	228,000	6,831	7,524	231	435,011	2
2001	4	10	31,707		619,967	433.3	3	0	27,884	258	122	136	27,884	12	15	190	188	0.90	0.91	206,424	228,000	6,193	6,840	231	434,424	2
2001	4	10	31,707		623,802	433.4	3	0	27,872	258	122	136	27,872	12	15	191	188	0.90	0.91	206,749	228,000	6,202	6,840	231	434,749	2
2001	4	10	31,707		627,650	433.6	3	0	27,859	258	122	136	27,859	12	15	191	188	0.90	0.91	207,075	228,000	6,212	6,840	231	435,075	2
2001	5	10	15,552		615,329	433.4	3	0	27,873	258	122	136	27,873	12	15	191	188	0.90	0.91	206,716	228,000	6,201	6,840	231	434,716	1
2001	5	10	15,552		602,967	432.9	3	0	27,914	258	122	136	27,914	12	15	190	187	0.90	0.91	205,668	228,000	6,170	6,840	231	433,668	2
2001	5	11	17,107		589,318	432.3	3	0	30,756	259	122	137	30,756	12	15	189	186	0.90	0.91	204,568	228,000	6,751	7,524	231	432,568	2
2001	6	10	12,657		573,961	431.6	3	0	28,014	259	122	138	28,014	12	15	189	186	0.90	0.91	203,342	228,000	6,100	6,840	231	431,342	2
2001	6	10	12,657		558,543	430.9	3	0	28,076	260	121	139	28,076	12	15	188	185	0.90	0.91	202,046	228,000	6,061	6,840	231	430,046	2
2001	6	10	12,657		543,057	430.2	3	0	28,143	261	121	140	28,143	12	15	188	184	0.90	0.91	200,748	228,000	6,022	6,840	231	428,748	2
2001	7	10	32,476		547,700	429.9	3	0	27,833	258	121	137	27,833	12	15	187	184	0.90	0.91	200,266	224,499	6,008	6,735	231	424,765	2
2001	7	10	32,476		552,028	430.1	3	0	28,148	261	121	140	28,148	12	15	188	184	0.90	0.91	200,669	228,000	6,020	6,840	231	428,669	2
2001	7	11	35,724		556,813	430.4	3	0	30,940	260	121	139	30,940	12	15	188	184	0.90	0.91	201,052	228,000	6,635	7,524	231	429,052	2
2001	8	10	22,735		551,419	430.3	3	0	28,129	260	121	139	28,129	12	15	188	184	0.90	0.91	201,026	228,000	6,031	6,840	231	429,026	2
2001	8	10	22,735		546,000	430.1	3	0	28,153	261	121	140	28,153	12	16	187	184	0.90	0.91	200,572	228,000	6,017	6,840	231	428,572	2
2001	8	11	25,008		540,390	429.8	3	0	30,619	258	121	137	30,619	12	15	187	184	0.90	0.91	200,032	224,406	6,601	7,405	231	424,438	2
2001	9	10	30,238		543,321	429.7	3	0	27,307	253	121	132	27,307	12	14	187	185	0.90	0.91	199,915	218,674	5,997	6,560	231	418,589	3
2001	9	10	30,238		546,163	429.9	3	0	27,395	254	121	133	27,395	12	14	187	185	0.90	0.91	200,220	219,779	6,007	6,593	231	419,999	3
2001	9	10	30,238		548,921	430.0	3	0	27,480	254	121	134	27,480	12	14	187	185	0.90	0.91	200,492	220,828	6,015	6,625	231	421,320	3
2001	10	10	59,352	1,629	578,737	430.8	3	0	27,908	258	121	137	27,908	12	15	188	185	0.90	0.91	201,841	226,078	6,055	6,782	231	427,920	3
2001	10	10	59,352	1,629	608,492	432.1	3	0	27,969	259	122	137	27,969	12	15	189	186	0.90	0.91	204,352	228,000	6,131	6,840	231	432,352	2
2001	10	11	65,288	1,792	641,339	433.6	3	0	30,648	258	122	136	30,648	12	15	191	188	0.90	0.91	207,007	228,000	6,831	7,524	231	435,007	2
2001	11	10	35,227		642,118	434.3	4	0	34,448	257	122	135	34,448	12	14	191	189	0.90	0.91	208,040	228,000	7,739	8,482	231	436,040	1
2001	11	10	35,227		642,906	434.4	4	0	34,438	257	122	135	34,438	12	14	191	189	0.90	0.91	208,044	228,000	7,739	8,482	231	436,044	1
2001	11	10	35,227		643,704	434.4	4	0	34,429	257	122	135	34,429	12	14	192	189	0.90	0.91	208,048	228,000	7,739	8,482	231	436,048	1
2001	12	10	41,612		644,605	434.4	4	0	40,711	257	122	135	40,711	12	14	192	189	0.90	0.91	208,049	228,000	9,154	10,032	231	436,049	1
2001	12	10	41,612		645,518	434.5	4	0	40,699	257	122	135	40,699	12	14	192	189	0.90	0.91	208,054	228,000	9,154	10,032	231	436,054	1
2001	12	11	45,773		646,537	434.5	4	0	44,754	257	122	135	44,754	12	14	192	189	0.91	0.91	208,057	228,000	10,070	11,035	231	436,057	1

**Table 1-2 Calculation of Annual Energy with Expansion Plant (18/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
2002	1	10	20,217		638,986	434.4	3	0	27,769	257	122	135	27,769	12	14	192	189	0.90	0.91	208,020	228,000	6,241	6,840	231	436,020	2
2002	1	10	20,217		631,373	434.0	3	0	27,831	258	123	135	27,831	12	14	191	189	0.90	0.91	207,867	228,000	6,236	6,840	231	435,867	2
2002	1	11	22,239		622,971	433.7	3	0	30,640	258	122	135	30,640	12	15	191	188	0.90	0.91	207,186	228,000	6,837	7,524	231	435,186	2
2002	2	10	11,400		606,476	433.1	3	0	27,895	258	122	136	27,895	12	15	190	187	0.90	0.91	206,141	228,000	6,184	6,840	231	434,141	2
2002	2	10	11,400		589,923	432.4	3	0	27,952	259	122	137	27,952	12	15	190	186	0.90	0.91	204,741	228,000	6,142	6,840	231	432,741	2
2002	2	8	9,120		576,637	431.7	3	0	22,406	259	122	138	22,406	12	15	189	186	0.90	0.91	203,479	228,000	4,883	5,472	231	431,479	2
2002	3	10	7,926		556,488	430.9	3	0	28,075	260	121	139	28,075	12	15	188	185	0.90	0.91	202,072	228,000	6,062	6,840	231	430,072	2
2002	3	10	7,926		536,361	430.0	3	0	28,054	260	121	139	28,054	12	15	187	184	0.90	0.91	200,379	226,854	6,011	6,806	231	427,233	2
2002	3	11	8,719		514,394	428.8	3	0	30,686	258	120	138	30,686	12	15	186	183	0.90	0.91	198,134	224,103	6,538	7,395	231	422,237	2
2002	4	10	49,671		536,008	428.8	3	0	28,057	260	120	139	28,057	13	16	185	182	0.90	0.91	196,601	225,376	5,898	6,761	231	421,977	3
2002	4	10	49,671		557,517	430.0	3	0	28,162	261	121	140	28,162	12	16	187	183	0.90	0.91	200,408	228,000	6,012	6,840	231	428,408	2
2002	4	10	49,671		579,121	431.0	3	0	28,067	260	121	139	28,067	12	15	188	185	0.90	0.91	202,219	228,000	6,067	6,840	231	430,219	2
2002	5	10	31,333		582,437	431.6	3	0	28,017	259	122	138	28,017	12	15	189	185	0.90	0.91	203,269	228,000	6,098	6,840	231	431,269	2
2002	5	10	31,333		585,766	431.7	3	0	28,004	259	122	138	28,004	12	15	189	186	0.90	0.91	203,550	228,000	6,106	6,840	231	431,550	2
2002	5	11	34,467		589,442	431.9	3	0	30,790	259	122	137	30,790	12	15	189	186	0.90	0.91	203,846	228,000	6,727	7,524	231	431,846	2
2002	6	10	27,567		589,025	431.9	3	0	27,985	259	122	137	27,985	12	15	189	186	0.90	0.91	203,983	228,000	6,119	6,840	231	431,983	2
2002	6	10	27,567		588,606	431.9	3	0	27,986	259	122	137	27,986	12	15	189	186	0.90	0.91	203,948	228,000	6,118	6,840	231	431,948	2
2002	6	10	27,567		588,185	431.9	3	0	27,988	259	122	137	27,988	12	15	189	186	0.90	0.91	203,912	228,000	6,117	6,840	231	431,912	2
2002	7	10	12,355		572,522	431.5	3	0	28,019	259	122	138	28,019	12	15	189	185	0.90	0.91	203,234	228,000	6,097	6,840	231	431,234	2
2002	7	10	12,355		556,794	430.8	3	0	28,083	260	121	139	28,083	12	15	188	185	0.90	0.91	201,912	228,000	6,057	6,840	231	429,912	2
2002	7	11	13,591		539,414	430.1	3	0	30,971	261	121	140	30,971	12	16	187	184	0.90	0.91	200,523	228,000	6,617	7,524	231	428,523	2
2002	8	10	25,849		537,406	429.5	3	0	27,857	258	121	137	27,857	12	15	187	184	0.90	0.91	199,522	224,380	5,986	6,731	231	423,902	2
2002	8	10	25,849		535,390	429.4	3	0	27,865	258	121	137	27,865	12	15	187	183	0.90	0.91	199,307	224,356	5,979	6,731	231	423,664	2
2002	8	11	28,434		533,164	429.3	3	0	30,660	258	121	137	30,660	12	15	187	183	0.90	0.91	199,081	224,329	6,570	7,403	231	423,410	2
2002	9	10	30,843		536,909	429.3	3	0	27,098	251	121	130	27,098	12	13	187	185	0.90	0.91	199,180	216,048	5,975	6,481	231	415,228	3
2002	9	10	30,843		540,541	429.5	3	0	27,211	252	121	131	27,211	12	14	187	185	0.90	0.91	199,571	217,470	5,987	6,524	231	417,041	3
2002	9	10	30,843		544,062	429.7	3	0	27,321	253	121	132	27,321	12	14	187	185	0.90	0.91	199,962	218,845	5,999	6,565	231	418,807	3
2002	10	10	29,633	1,629	544,740	429.9	3	0	27,326	253	121	132	27,326	12	14	187	185	0.90	0.91	200,186	219,008	6,006	6,570	231	419,194	3
2002	10	10	29,633	1,629	545,398	429.9	3	0	27,346	253	121	132	27,346	12	14	187	185	0.90	0.91	200,257	219,263	6,008	6,578	231	419,520	3
2002	10	11	32,596	1,792	546,098	430.0	3	0	30,104	253	121	133	30,104	12	14	187	185	0.90	0.91	200,329	219,522	6,611	7,244	231	419,852	3
2002	11	10	61,551		579,707	430.7	3	0	27,942	259	121	138	27,942	12	15	188	185	0.90	0.91	201,762	226,412	6,053	6,792	231	428,174	3
2002	11	10	61,551		613,299	432.3	3	0	27,958	259	122	137	27,958	12	15	189	186	0.90	0.91	204,596	228,000	6,138	6,840	231	432,596	2
2002	11	10	61,551		647,004	433.8	3	0	27,846	258	123	135	27,846	12	15	191	188	0.90	0.91	207,451	228,000	6,224	6,840	231	435,451	2
2002	12	10	46,131		648,127	434.6	5	0	45,008	257	122	135	45,008	12	14	192	189	0.91	0.91	208,065	228,000	10,133	11,104	231	436,065	1
2002	12	10	46,131		649,267	434.7	5	0	44,991	257	122	134	44,991	12	14	192	189	0.91	0.91	208,071	228,000	10,133	11,104	231	436,071	1
2002	12	11	50,744		650,541	434.7	5	0	49,470	257	122	134	49,470	12	14	192	189	0.91	0.91	208,074	228,000	11,147	12,214	231	436,074	1

**Table 1-2 Calculation of Annual Energy with Expansion Plant (19/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
2003	1	10	42,961		651,592	434.8	5	0	41,910	256	122	134	41,910	12	14	192	189	0.91	0.91	208,085	228,000	9,447	10,351	231	436,085	1
2003	1	10	42,961		652,659	434.8	5	0	41,895	256	122	134	41,895	12	14	192	189	0.91	0.91	208,090	228,000	9,447	10,351	231	436,090	1
2003	1	11	47,257		653,849	434.9	5	0	46,067	256	122	134	46,067	12	14	192	190	0.91	0.91	208,094	228,000	10,392	11,386	231	436,094	1
2003	2	10	23,124		649,286	434.8	3	0	27,688	256	122	134	27,688	12	14	192	189	0.91	0.91	208,076	228,000	6,242	6,840	231	436,076	1
2003	2	10	23,124		644,680	434.6	3	0	27,730	257	122	135	27,730	12	14	192	189	0.91	0.91	208,052	228,000	6,242	6,840	231	436,052	1
2003	2	8	18,499		640,964	434.4	3	0	22,215	257	122	135	22,215	12	14	192	189	0.90	0.91	208,038	228,000	4,993	5,472	231	436,038	1
2003	3	10	37,129		641,790	434.3	4	0	36,304	257	122	135	36,304	12	14	191	189	0.90	0.91	208,037	228,000	8,155	8,938	231	436,037	1
2003	3	10	37,129		642,625	434.4	4	0	36,294	257	122	135	36,294	12	14	191	189	0.90	0.91	208,042	228,000	8,155	8,938	231	436,042	1
2003	3	11	40,842		643,557	434.4	4	0	39,911	257	122	135	39,911	12	14	192	189	0.90	0.91	208,044	228,000	8,971	9,831	231	436,044	1
2003	4	10	38,232		644,406	434.4	4	0	37,382	257	122	135	37,382	12	14	192	189	0.90	0.91	208,050	228,000	8,405	9,211	231	436,050	1
2003	4	10	38,232		645,266	434.5	4	0	37,372	257	122	135	37,372	12	14	192	189	0.90	0.91	208,055	228,000	8,405	9,211	231	436,055	1
2003	4	10	38,232		646,137	434.5	4	0	37,361	257	122	135	37,361	12	14	192	189	0.91	0.91	208,059	228,000	8,406	9,211	231	436,059	1
2003	5	10	40,726		647,110	434.6	4	0	39,753	257	122	135	39,753	12	14	192	189	0.91	0.91	208,063	228,000	8,947	9,804	231	436,063	1
2003	5	10	40,726		648,096	434.6	4	0	39,740	257	122	135	39,740	12	14	192	189	0.91	0.91	208,068	228,000	8,947	9,804	231	436,068	1
2003	5	11	44,799		649,196	434.7	4	0	43,698	257	122	134	43,698	12	14	192	189	0.91	0.91	208,071	228,000	9,842	10,784	231	436,071	1
2003	6	10	7,742		629,139	434.2	3	0	27,798	257	122	135	27,798	12	14	191	189	0.90	0.91	207,956	228,000	6,239	6,840	231	435,956	1
2003	6	10	7,742		608,999	433.3	3	0	27,881	258	122	136	27,881	12	15	190	188	0.90	0.91	206,510	228,000	6,195	6,840	231	434,510	1
2003	6	10	7,742		588,791	432.4	3	0	27,950	259	122	137	27,950	12	15	190	187	0.90	0.91	204,800	228,000	6,144	6,840	231	432,800	2
2003	7	10	19,969		580,758	431.7	3	0	28,002	259	122	138	28,002	12	15	189	186	0.90	0.91	203,607	228,000	6,108	6,840	231	431,607	2
2003	7	10	19,969		572,694	431.4	3	0	28,033	260	121	138	28,033	12	15	189	185	0.90	0.91	202,928	228,000	6,088	6,840	231	430,928	2
2003	7	11	21,966		563,785	431.0	3	0	30,875	260	121	139	30,875	12	15	188	185	0.90	0.91	202,214	228,000	6,673	7,524	231	430,214	2
2003	8	10	38,715		574,436	431.0	3	0	28,064	260	121	139	28,064	12	15	188	185	0.90	0.91	202,286	228,000	6,069	6,840	231	430,286	2
2003	8	10	38,715		585,129	431.5	3	0	28,021	259	122	138	28,021	12	15	189	185	0.90	0.91	203,185	228,000	6,096	6,840	231	431,185	2
2003	8	11	42,586		596,939	432.0	3	0	30,776	259	122	137	30,776	12	15	189	186	0.90	0.91	204,136	228,000	6,736	7,524	231	432,136	2
2003	9	10	36,456		605,454	432.5	3	0	27,941	259	122	137	27,941	12	15	190	187	0.90	0.91	204,994	228,000	6,150	6,840	231	432,994	2
2003	9	10	36,456		613,999	432.9	3	0	27,912	258	122	136	27,912	12	15	190	187	0.90	0.91	205,717	228,000	6,172	6,840	231	433,717	2
2003	9	10	36,456		622,571	433.3	3	0	27,884	258	122	136	27,884	12	15	190	188	0.90	0.91	206,443	228,000	6,193	6,840	231	434,443	2
2003	10	10	11,857	1,629	604,901	433.1	3	0	27,899	258	122	136	27,899	12	15	190	187	0.90	0.91	206,058	228,000	6,182	6,840	231	434,058	2
2003	10	10	11,857	1,629	587,169	432.3	3	0	27,960	259	122	137	27,960	12	15	189	186	0.90	0.91	204,558	228,000	6,137	6,840	231	432,558	2
2003	10	11	13,043	1,792	567,586	431.4	3	0	30,834	260	122	138	30,834	12	15	189	185	0.90	0.91	202,984	228,000	6,698	7,524	231	430,984	2
2003	11	10	13,918		553,631	430.6	3	0	27,873	258	121	137	27,873	12	15	188	185	0.90	0.91	201,571	225,577	6,047	6,767	231	427,148	3
2003	11	10	13,918		540,089	430.0	3	0	27,461	254	121	133	27,461	12	14	187	185	0.90	0.91	200,435	220,594	6,013	6,618	231	421,029	3
2003	11	10	13,918		526,954	429.2	3	0	27,053	250	121	130	27,053	12	13	187	185	0.90	0.91	199,020	215,474	5,971	6,464	231	414,494	3
2003	12	10	6,448		506,880	428.3	3	0	26,523	246	120	125	26,523	11	12	186	185	0.90	0.92	197,267	208,613	5,918	6,258	231	405,880	3
2003	12	10	6,448		487,409	427.1	3	0	25,918	240	120	120	25,918	11	11	185	185	0.90	0.92	195,188	199,736	5,856	5,992	231	394,923	3
2003	12	11	7,093		466,668	426.0	3	0	27,835	234	119	115	27,835	11	11	184	184	0.90	0.92	193,089	190,698	6,372	6,293	231	383,787	3

**Table 1-2 Calculation of Annual Energy with Expansion Plant (20/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
2004	1	10	8,207		447,204	424.8	3	0	27,671	256	119	137	27,671	11	15	183	179	0.90	0.90	190,930	218,161	5,728	6,545	231	409,091	3
2004	1	10	8,207		427,849	423.7	3	0	27,561	255	118	137	27,561	11	15	182	178	0.90	0.90	188,909	216,013	5,667	6,480	231	404,922	3
2004	1	11	9,027		406,686	422.5	3	0	30,191	254	118	136	30,191	11	15	180	177	0.90	0.90	186,809	213,777	6,165	7,055	231	400,586	3
2004	2	10	5,822		385,183	421.2	3	0	27,325	253	117	136	27,325	11	15	179	176	0.90	0.90	184,610	211,430	5,538	6,343	231	396,040	3
2004	2	10	5,822		363,802	420.0	3	0	27,203	252	117	135	27,203	11	15	178	174	0.89	0.90	182,400	209,066	5,472	6,272	231	391,465	3
2004	2	9	5,240		344,699	418.4	3	0	24,343	250	116	134	24,343	11	14	177	173	0.89	0.90	179,598	206,061	4,849	5,564	231	385,659	3
2004	3	10	7,188		324,989	416.8	3	0	26,898	249	115	134	26,898	11	14	175	172	0.89	0.90	176,931	203,192	5,308	6,096	231	380,122	3
2004	3	10	7,188		305,430	415.3	3	0	26,747	248	115	133	26,747	10	14	174	170	0.89	0.90	174,250	200,301	5,228	6,009	231	374,551	3
2004	3	11	7,907		284,088	413.7	3	0	29,249	246	114	132	29,249	10	14	172	169	0.89	0.90	171,478	197,303	5,659	6,511	231	368,781	3
2004	4	10	22,315		279,911	412.7	3	0	26,492	245	114	132	26,492	10	14	171	168	0.89	0.90	169,760	195,440	5,093	5,863	231	365,200	3
2004	4	10	22,315		275,766	412.3	3	0	26,460	245	114	131	26,460	10	14	171	168	0.89	0.90	169,201	194,834	5,076	5,845	231	364,034	3
2004	4	10	22,315		271,653	412.0	3	0	26,428	245	113	131	26,428	10	14	171	167	0.89	0.90	168,647	194,232	5,059	5,827	231	362,880	3
2004	5	10	28,755		273,987	411.9	3	0	26,422	245	113	131	26,422	10	14	171	167	0.89	0.90	168,528	194,103	5,056	5,823	231	362,631	3
2004	5	10	28,755		276,302	412.1	3	0	26,439	245	113	131	26,439	10	14	171	167	0.89	0.90	168,840	194,441	5,065	5,833	231	363,281	3
2004	5	11	31,631		278,829	412.3	3	0	29,104	245	114	131	29,104	10	14	171	168	0.89	0.90	169,164	194,794	5,582	6,428	231	363,958	3
2004	6	10	44,331		296,624	413.1	3	0	26,536	246	114	132	26,536	10	14	172	168	0.89	0.90	170,531	196,276	5,116	5,888	231	366,807	3
2004	6	10	44,331		314,283	414.5	3	0	26,673	247	114	133	26,673	10	14	173	170	0.89	0.90	172,926	198,870	5,188	5,966	231	371,796	3
2004	6	10	44,331		331,806	415.9	3	0	26,808	248	115	133	26,808	11	14	174	171	0.89	0.90	175,318	201,453	5,260	6,044	231	376,771	3
2004	7	10	41,971		346,845	417.2	3	0	26,933	249	116	134	26,933	11	14	176	172	0.89	0.90	177,545	203,854	5,326	6,116	231	381,399	3
2004	7	10	41,971		361,768	418.4	3	0	27,048	250	116	134	27,048	11	14	177	173	0.89	0.90	179,606	206,069	5,388	6,182	231	385,676	3
2004	7	11	46,168		378,051	419.6	3	0	29,885	252	117	135	29,885	11	14	178	174	0.89	0.90	181,764	208,385	5,998	6,877	231	390,148	3
2004	8	10	30,177		380,996	420.3	3	0	27,232	252	117	135	27,232	11	15	178	175	0.89	0.90	182,926	209,629	5,488	6,289	231	392,555	3
2004	8	10	30,177		383,923	420.4	3	0	27,249	252	117	135	27,249	11	15	179	175	0.89	0.90	183,227	209,951	5,497	6,299	231	393,178	3
2004	8	11	33,194		387,124	420.6	3	0	29,993	252	117	135	29,993	11	15	179	175	0.89	0.90	183,541	210,287	6,057	6,939	231	393,828	3
2004	9	10	34,463		394,292	420.9	3	0	27,296	253	117	136	27,296	11	15	179	175	0.89	0.90	184,073	210,856	5,522	6,326	231	394,929	3
2004	9	10	34,463		401,418	421.3	3	0	27,336	253	117	136	27,336	11	15	179	176	0.90	0.90	184,807	211,641	5,544	6,349	231	396,448	3
2004	9	10	34,463		408,505	421.8	3	0	27,376	253	117	136	27,376	11	15	180	176	0.90	0.90	185,539	212,423	5,566	6,373	231	397,962	3
2004	10	10	51,375	1,629	430,791	422.6	3	0	27,460	254	118	136	27,460	11	15	181	177	0.90	0.90	187,055	214,040	5,612	6,421	231	401,095	3
2004	10	10	51,375	1,629	452,951	423.9	3	0	27,585	255	118	137	27,585	11	15	182	178	0.90	0.90	189,360	216,494	5,681	6,495	231	405,854	3
2004	10	11	56,512	1,792	480,222	425.3	3	0	27,449	231	119	112	27,449	11	10	183	184	0.90	0.92	192,000	185,570	6,336	6,124	231	377,570	3
2004	11	10	50,400		504,824	426.9	3	0	25,798	239	120	119	25,798	11	11	185	185	0.90	0.92	194,703	197,939	5,841	5,938	231	392,642	3
2004	11	10	50,400		528,685	428.3	3	0	26,539	246	120	126	26,539	11	13	186	185	0.90	0.92	197,249	208,831	5,917	6,265	231	406,081	3
2004	11	10	50,400		551,825	429.6	3	0	27,259	252	121	132	27,259	12	14	187	185	0.90	0.91	199,746	218,071	5,992	6,542	231	417,817	3
2004	12	10	74,094		597,879	431.3	3	0	28,040	260	121	138	28,040	12	15	189	185	0.90	0.91	202,764	228,000	6,083	6,840	231	430,764	3
2004	12	10	74,094		644,098	433.4	3	0	27,874	258	122	136	27,874	12	15	191	188	0.90	0.91	206,672	228,000	6,200	6,840	231	434,672	2
2004	12	11	81,503		645,938	434.5	8	0	79,663	257	122	135	79,663	12	14	192	189	0.90	0.91	208,031	228,000	17,918	19,638	231	436,031	1

**Table 1-2 Calculation of Annual Energy with Expansion Plant (21/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
2005	1	10	24,488		642,670	434.5	3	0	27,755	257	122	135	27,755	12	14	192	189	0.90	0.91	208,043	228,000	6,241	6,840	231	436,043	2
2005	1	10	24,488		639,371	434.3	3	0	27,786	257	122	135	27,786	12	14	191	189	0.90	0.91	208,026	228,000	6,241	6,840	231	436,026	2
2005	1	11	26,936		635,707	434.1	3	0	30,600	258	123	135	30,600	12	14	191	189	0.90	0.91	208,005	228,000	6,864	7,524	231	436,005	2
2005	2	10	24,414		632,287	434.0	3	0	27,834	258	123	135	27,834	12	15	191	188	0.90	0.91	207,766	228,000	6,233	6,840	231	435,766	2
2005	2	10	24,414		628,856	433.8	3	0	27,845	258	123	135	27,845	12	15	191	188	0.90	0.91	207,488	228,000	6,225	6,840	231	435,488	2
2005	2	8	19,531		626,104	433.7	3	0	22,283	258	122	135	22,283	12	15	191	188	0.90	0.91	207,222	228,000	4,973	5,472	231	435,222	2
2005	3	10	9,878		608,094	433.2	3	0	27,888	258	122	136	27,888	12	15	190	188	0.90	0.91	206,343	228,000	6,190	6,840	231	434,343	2
2005	3	10	9,878		590,022	432.4	3	0	27,949	259	122	137	27,949	12	15	190	187	0.90	0.91	204,814	228,000	6,144	6,840	231	432,814	2
2005	3	11	10,865		570,066	431.5	3	0	30,822	259	122	138	30,822	12	15	189	185	0.90	0.91	203,209	228,000	6,706	7,524	231	431,209	2
2005	4	10	12,649		554,622	430.7	3	0	28,093	260	121	139	28,093	12	15	188	184	0.90	0.91	201,717	228,000	6,052	6,840	231	429,717	2
2005	4	10	12,649		539,110	430.0	3	0	28,162	261	121	140	28,162	12	16	187	183	0.90	0.91	200,418	228,000	6,013	6,840	231	428,418	2
2005	4	10	12,649		523,883	429.1	3	0	27,876	258	121	138	27,876	12	15	187	183	0.90	0.91	198,785	224,218	5,964	6,727	231	423,003	2
2005	5	10	13,263		509,209	428.3	3	0	27,937	259	120	138	27,937	11	15	186	182	0.90	0.91	197,196	224,053	5,916	6,722	231	421,250	2
2005	5	10	13,263		494,546	427.4	3	0	27,925	259	120	139	27,925	11	15	185	181	0.90	0.91	195,644	223,152	5,869	6,695	231	418,796	2
2005	5	11	14,589		478,513	426.5	3	0	30,622	258	119	138	30,622	11	15	184	180	0.90	0.91	194,028	221,443	6,403	7,308	231	415,471	2
2005	6	10	13,110		463,872	425.6	3	0	27,751	257	119	138	27,751	11	15	183	180	0.90	0.90	192,419	219,740	5,773	6,592	231	412,159	2
2005	6	10	13,110		449,313	424.8	3	0	27,669	256	119	137	27,669	11	15	183	179	0.90	0.90	190,893	218,121	5,727	6,544	231	409,014	2
2005	6	10	13,110		434,835	423.9	3	0	27,588	255	118	137	27,588	11	15	182	178	0.90	0.90	189,390	216,524	5,682	6,496	231	405,913	2
2005	7	10	15,966		423,287	423.2	3	0	27,514	255	118	137	27,514	11	15	181	177	0.90	0.90	188,036	215,084	5,641	6,453	231	403,120	2
2005	7	10	15,966		411,806	422.5	3	0	27,448	254	118	136	27,448	14	17	178	175	0.90	0.90	183,764	211,341	5,513	6,340	231	395,105	3
2005	7	11	17,563		399,251	421.8	3	0	30,118	254	117	136	30,118	11	15	180	176	0.90	0.90	185,598	212,485	6,125	7,012	231	398,083	3
2005	8	10	11,197		383,150	421.0	3	0	27,299	253	117	136	27,299	11	15	179	175	0.89	0.90	184,123	210,910	5,524	6,327	231	395,034	3
2005	8	10	11,197		367,140	420.0	3	0	27,208	252	117	135	27,208	11	15	178	175	0.89	0.90	182,478	209,150	5,474	6,274	231	391,627	3
2005	8	11	12,317		349,669	418.7	3	0	29,788	251	116	135	29,788	11	14	177	173	0.89	0.90	180,171	206,676	5,946	6,820	231	386,848	3
2005	9	10	53,809		376,364	419.1	3	0	27,115	251	116	135	27,115	11	14	177	174	0.89	0.90	180,809	207,360	5,424	6,221	231	388,169	3
2005	9	10	53,809		402,883	420.9	3	0	27,290	253	117	136	27,290	11	15	179	175	0.89	0.90	183,961	210,737	5,519	6,322	231	394,698	3
2005	9	10	53,809		429,253	422.4	3	0	27,439	254	118	136	27,439	11	15	180	177	0.90	0.90	186,685	213,645	5,601	6,409	231	400,331	3
2005	10	10	39,311	1,629	439,393	423.5	3	0	27,543	255	118	137	27,543	11	15	181	178	0.90	0.90	188,576	215,659	5,657	6,470	231	404,235	3
2005	10	10	39,311	1,629	449,474	424.1	3	0	27,600	256	118	137	27,600	11	15	182	178	0.90	0.90	189,627	216,777	5,689	6,503	231	406,403	3
2005	10	11	43,242	1,792	460,499	424.7	3	0	30,426	256	119	137	30,426	11	15	182	179	0.90	0.90	190,726	217,945	6,294	7,192	231	408,671	3
2005	11	10	98,866		533,431	427.1	3	0	25,934	240	120	120	25,934	11	12	185	185	0.90	0.92	195,169	199,937	5,855	5,998	231	395,105	3
2005	11	10	98,866		604,232	431.0	3	0	28,065	260	121	139	28,065	12	15	188	185	0.90	0.91	202,258	228,000	6,068	6,840	231	430,258	3
2005	11	10	98,866		675,281	434.2	3	0	27,817	258	123	135	27,817	12	14	191	189	0.90	0.91	208,268	228,000	6,248	6,840	231	436,268	2
2005	12	10	51,801		676,737	435.9	5	0	50,344	256	122	133	50,344	12	14	193	191	0.91	0.91	210,000	228,000	11,487	12,472	231	438,000	1
2005	12	10	51,801		678,218	436.0	5	0	50,320	256	122	133	50,320	12	14	193	191	0.91	0.91	210,000	228,000	11,487	12,472	231	438,000	1
2005	12	11	56,981		679,875	436.0	5	0	55,324	255	122	133	55,324	12	14	193	191	0.91	0.91	210,000	228,000	12,636	13,719	231	438,000	1

**Table 1-2 Calculation of Annual Energy with Expansion Plant (22/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL(m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)	Total Release (1000 m <sup>3</sup> )	Head loss per unit	Head loss per unit	Effective Head for existing (m)	Effective Head for expansion (m)	Eff for existing units	Eff for expansion units	Power existing (KW)	Power expansion (KW)	Energy by existing units (MWh)	Energy by expansion units (MWh)	Tail water level	Victoria Power Combined (kW)	Victoria Generation mode
2006	1	10	53,941		681,433	436.1	6	0	52,382	255	122	133	52,382	12	14	193	191	0.91	0.91	210,000	228,000	11,970	12,996	231	438,000	1
2006	1	10	53,941		683,017	436.2	6	0	52,356	255	122	133	52,356	12	14	193	191	0.91	0.91	210,000	228,000	11,970	12,996	231	438,000	1
2006	1	11	59,335		684,791	436.3	6	0	57,561	255	122	133	57,561	12	14	193	191	0.91	0.91	210,000	228,000	13,167	14,296	231	438,000	1
2006	2	10	27,967		685,227	436.3	3	0	27,531	255	122	133	27,531	12	14	194	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
2006	2	10	27,967		685,667	436.3	3	0	27,527	255	122	133	27,527	12	14	194	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
2006	2	8	22,374		686,021	436.4	3	0	22,019	255	122	133	22,019	12	14	194	191	0.91	0.91	210,000	228,000	5,040	5,472	231	438,000	1
2006	3	10	38,004		687,243	436.4	4	0	36,781	255	122	133	36,781	12	14	194	191	0.91	0.91	210,000	228,000	8,421	9,143	231	438,000	1
2006	3	10	38,004		688,480	436.4	4	0	36,767	255	122	133	36,767	12	14	194	191	0.91	0.91	210,000	228,000	8,421	9,143	231	438,000	1
2006	3	11	41,804		689,857	436.5	4	0	40,427	255	122	133	40,427	12	14	194	192	0.91	0.91	210,000	228,000	9,263	10,057	231	438,000	1
2006	4	10	30,471		690,827	436.6	3	0	29,501	254	122	133	29,501	12	14	194	192	0.91	0.91	210,000	228,000	6,762	7,342	231	438,000	1
2006	4	10	30,471		691,807	436.6	3	0	29,492	254	122	133	29,492	12	14	194	192	0.91	0.91	210,000	228,000	6,762	7,342	231	438,000	1
2006	4	10	30,471		692,795	436.6	3	0	29,482	254	122	133	29,482	12	14	194	192	0.91	0.91	210,000	228,000	6,762	7,342	231	438,000	1
2006	5	10	27,832		693,165	436.7	3	0	27,462	254	122	133	27,462	12	14	194	192	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
2006	5	10	27,832		693,538	436.7	3	0	27,459	254	122	133	27,459	12	14	194	192	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
2006	5	11	30,615		693,952	436.7	3	0	30,201	254	122	133	30,201	12	14	194	192	0.91	0.91	210,000	228,000	6,930	7,524	231	438,000	1
2006	6	10	33,007		695,026	436.7	3	0	31,933	254	122	133	31,933	12	14	194	192	0.91	0.91	210,000	228,000	7,329	7,957	231	438,000	1
2006	6	10	33,007		696,111	436.8	3	0	31,922	254	122	132	31,922	12	14	194	192	0.91	0.91	210,000	228,000	7,329	7,957	231	438,000	1
2006	6	10	33,007		697,206	436.8	3	0	31,911	254	122	132	31,911	12	14	194	192	0.91	0.91	210,000	228,000	7,329	7,957	231	438,000	1
2006	7	10	45,011		698,803	436.9	5	0	43,415	254	121	132	43,415	12	14	194	192	0.91	0.91	210,000	228,000	9,975	10,830	231	438,000	1
2006	7	10	45,011		700,421	437.0	5	0	43,393	254	121	132	43,393	12	14	194	192	0.91	0.91	210,000	228,000	9,975	10,830	231	438,000	1
2006	7	11	49,512		702,225	437.1	5	0	47,708	254	121	132	47,708	12	14	194	192	0.91	0.91	210,000	228,000	10,972	11,913	231	438,000	1
2006	8	10	17,651		692,451	436.9	3	0	27,425	254	122	132	27,425	12	14	194	192	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
2006	8	10	17,651		682,593	436.4	3	0	27,509	255	122	133	27,509	12	14	194	191	0.91	0.91	210,000	228,000	6,300	6,840	231	438,000	1
2006	8	11	19,416		671,648	436.0	3	0	30,361	256	122	133	30,361	12	14	193	191	0.91	0.91	210,000	228,000	6,930	7,524	231	438,000	1
2006	9	10	29,238		672,409	435.7	3	0	28,477	256	123	133	28,477	12	14	193	191	0.91	0.91	210,000	228,000	6,489	7,045	231	438,000	1
2006	9	10	29,238		673,178	435.8	3	0	28,470	256	123	133	28,470	12	14	193	191	0.91	0.91	210,000	228,000	6,489	7,045	231	438,000	1
2006	9	10	29,238		673,954	435.8	3	0	28,462	256	122	133	28,462	12	14	193	191	0.91	0.91	210,000	228,000	6,489	7,045	231	438,000	1
2006	10	10	52,291	1,629	675,354	435.8	5	0	49,262	256	122	133	49,262	12	14	193	191	0.91	0.91	210,000	228,000	11,235	12,198	231	438,000	1
2006	10	10	52,291	1,629	676,777	435.9	5	0	49,239	256	122	133	49,239	12	14	193	191	0.91	0.91	210,000	228,000	11,235	12,198	231	438,000	1
2006	10	11	57,520	1,792	678,368	436.0	5	0	54,136	256	122	133	54,136	12	14	193	191	0.91	0.91	210,000	228,000	12,358	13,418	231	438,000	1
2006	11	10	211,050		684,632	436.2	22	0	204,786	255	122	133	204,786	12	14	193	191	0.91	0.91	210,000	228,000	46,809	50,821	231	438,000	1
2006	11	10	211,050		691,318	436.4	22	0	204,364	255	122	133	204,364	12	14	194	191	0.91	0.91	210,000	228,000	46,809	50,821	231	438,000	1
2006	11	10	211,050		698,444	436.8	22	0	203,924	254	122	133	203,924	12	14	194	192	0.91	0.91	210,000	228,000	46,809	50,821	231	438,000	1
2006	12	10	77,765		701,212	437.0	8	0	74,997	254	121	132	74,997	12	14	194	192	0.91	0.91	210,000	228,000	17,241	18,719	231	438,000	1
2006	12	10	77,765		704,044	437.1	8	0	74,933	254	121	132	74,933	12	14	194	192	0.91	0.91	210,000	228,000	17,241	18,719	231	438,000	1
2006	12	11	85,541		707,233	437.3	8	0	82,352	253	121	132	82,352	12	14	195	192	0.91	0.91	210,000	228,000	18,965	20,591	231	438,000	1

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (1/22)**

Victoria Reservoir Ini	512240	Randenigala Reservoir Ini	860000	Peak hour	3	Normal WL add	415
Victoria Reservoir Max	722000	Randenigala Reservoir Max	860000	Max output	207	Normal WL exist	435
Vicotira Resv MOL	32000	Vicotira Resv MOL	5000	Max for expansion	0	tailwater level	varies
Peak hour	3	Firm plant discharge	140	Max Q for existing	123		
Victoria Energy	12,590,028	Randenigala Energy	0	Max Q for expansion	0		
Victoria Annual Energy	572	Average hours	7.557	Total Energy	12,590,028		
Dependable power	207,000	Average power	207	Firm Energy	227		

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode	
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for exsting (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Exisging	Expansion	Exisging	Expansion	Exisging	Expansion	Exisging	Expansion	Exisging	Expansion				
				162.9	512,240	437.4		637				33,100	9														
1985	1	10	19,285		518,241	428.2	3	0	13,284	123	123	13,284	10		187	197	0.90			203,420	0	6,103	0	231	203,420	3	
1985	1	10	19,285		524,262	428.5	3	0	13,264	123	123	13,264	10		188	198	0.90			203,581	0	6,107	0	231	203,581	3	
1985	1	11	21,213		530,895	428.9	3	0	14,581	123	123	14,581	10		188	198	0.90			203,929	0	6,730	0	231	203,929	3	
1985	2	10	9,800		527,418	429.0	3	0	13,277	123	123	13,277	10		188	198	0.90			204,341	0	6,130	0	231	204,341	3	
1985	2	10	9,800		523,940	428.8	3	0	13,279	123	123	13,279	10		188	198	0.90			204,113	0	6,123	0	231	204,113	3	
1985	2	8	7,840		521,156	428.6	3	0	10,624	123	123	10,624	10		188	198	0.90			203,897	0	4,894	0	231	203,897	3	
1985	3	10	9,741		517,613	428.4	3	0	13,284	123	123	13,284	10		188	198	0.90			203,726	0	6,112	0	231	203,726	3	
1985	3	10	9,741		514,069	428.2	3	0	13,284	123	123	13,284	10		187	198	0.90			203,468	0	6,104	0	231	203,468	3	
1985	3	11	10,715		510,171	428.0	3	0	14,612	123	123	14,612	10		187	197	0.90			203,197	0	6,706	0	231	203,197	3	
1985	4	10	8,285		505,172	427.7	3	0	13,284	123	123	13,284	10		187	197	0.90			202,873	0	6,086	0	231	202,873	3	
1985	4	10	8,285		500,173	427.4	3	0	13,284	123	123	13,284	10		187	197	0.90			202,510	0	6,075	0	231	202,510	3	
1985	4	10	8,285		495,174	427.2	3	0	13,284	123	123	13,284	10		186	196	0.90			202,147	0	6,064	0	231	202,147	3	
1985	5	10	28,142		510,033	427.4	3	0	13,284	123	123	13,284	10		187	197	0.90			202,506	0	6,075	0	231	202,506	2	
1985	5	10	28,142		524,891	428.3	3	0	13,284	123	123	13,284	10		187	198	0.90			203,587	0	6,108	0	231	203,587	2	
1985	5	11	30,957		541,236	429.2	3	0	14,612	123	123	14,612	10		188	199	0.90			204,721	0	6,756	0	231	204,721	2	
1985	6	10	188,660		716,926	433.8	3	0	12,969	120	120	12,969	10		193	203	0.91			206,278	0	6,188	0	231	206,278	2	
1985	6	10	188,660		722,000	437.9	24	82,279	101,306	117	117	183,586	9		198	207	0.91			207,000	0	49,680	0	231	207,000	1	
1985	6	10	188,660		722,000	438.0	24	87,427	101,233	117	117	188,660	9		198	207	0.91			207,000	0	49,680	0	231	207,000	0	
1985	7	10	107,730		722,000	438.0	24	6,498	101,233	117	117	107,730	9		198	207	0.91			207,000	0	49,680	0	231	207,000	0	
1985	7	10	107,730		722,000	438.0	24	6,498	101,233	117	117	107,730	9		198	207	0.91			207,000	0	49,680	0	231	207,000	0	
1985	7	11	118,503		722,000	438.0	24	7,147	111,356	117	117	118,503	9		198	207	0.91			207,000	0	54,648	0	231	207,000	0	
1985	8	10	40,572		718,812	437.9	10	0	43,760	117	117	43,760	9		198	207	0.91			207,000	0	21,466	0	231	207,000	0	
1985	8	10	40,572		720,171	437.9	9	0	39,213	117	117	39,213	9		198	207	0.91			207,000	0	19,230	0	231	207,000	1	
1985	8	11	44,630		717,011	437.8	10	0	47,790	117	117	47,790	9		198	207	0.91			207,000	0	23,430	0	231	207,000	1	
1985	9	10	12,921		717,261	437.8	3	0	12,671	117	117	12,671	9		198	207	0.91			207,000	0	6,210	0	231	207,000	1	
1985	9	10	12,921		717,512	437.8	3	0	12,671	117	117	12,671	9		198	207	0.91			207,000	0	6,210	0	231	207,000	1	
1985	9	10	12,921		717,763	437.8	3	0	12,670	117	117	12,670	9		198	207	0.91			207,000	0	6,210	0	231	207,000	1	
1985	10	10	55,264	1,629	717,935	437.8	13	0	53,463	117	117	53,463	9		198	207	0.91			207,000	0	26,206	0	231	207,000	1	
1985	10	10	55,264	1,629	718,109	437.8	13	0	53,460	117	117	53,460	9		198	207	0.91			207,000	0	26,206	0	231	207,000	1	
1985	10	11	60,790	1,792	718,304	437.8	13	0	58,803	117	117	58,803	9		198	207	0.91			207,000	0	28,827	0	231	207,000	1	
1985	11	10	86,393		715,484	437.8	21	0	89,213	117	117	89,213	9		198	207	0.91			207,000	0	43,718	0	231	207,000	1	
1985	11	10	86,393		716,871	437.7	20	0	85,007	117	117	85,007	9		198	207	0.91			207,000	0	41,648	0	231	207,000	1	
1985	11	10	86,393		718,292	437.8	20	0	84,973	117	117	84,973	9		198	207	0.91			207,000	0	41,648	0	231	207,000	1	
1985	12	10	36,721		719,211	437.9	8	0	35,802	117	117	35,802	9		198	207	0.91			207,000	0	17,554	0	231	207,000	0	
1985	12	10	36,721		719,716	437.9	9	0	36,217	117	117	36,217	9		198	207	0.91			207,000	0	17,761	0	231	207,000	0	
1985	12	11	40,393		720,370	437.9	9	0	39,739	117	117	39,739	9		198	207	0.91			207,000	0	19,491	0	231	207,000	0	

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (2/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1986	1	10	97,500		716,538	437.8	24	0	101,332	117	117		101,332	9		198	207	0.91		207,000	0	49,680	0	231	207,000	1
1986	1	10	97,500		715,592	437.7	23	0	98,445	117	117		98,445	9		198	207	0.91		207,000	0	48,231	0	231	207,000	1
1986	1	11	107,249		714,521	437.7	23	0	108,321	117	117		108,321	9		198	207	0.91		207,000	0	53,054	0	231	207,000	1
1986	2	10	43,097		717,266	437.7	10	0	40,352	117	117		40,352	9		198	207	0.91		207,000	0	19,768	0	231	207,000	1
1986	2	10	43,097		720,043	437.8	10	0	40,320	117	117		40,320	9		198	207	0.91		207,000	0	19,769	0	231	207,000	1
1986	2	8	34,478		718,896	437.9	11	0	35,626	117	117		35,626	9		198	207	0.91		207,000	0	17,471	0	231	207,000	1
1986	3	10	37,370		718,479	437.8	9	0	37,787	117	117		37,787	9		198	207	0.91		207,000	0	18,527	0	231	207,000	1
1986	3	10	37,370		718,058	437.8	9	0	37,791	117	117		37,791	9		198	207	0.91		207,000	0	18,527	0	231	207,000	1
1986	3	11	41,107		717,589	437.8	9	0	41,575	117	117		41,575	9		198	207	0.91		207,000	0	20,379	0	231	207,000	1
1986	4	10	52,014		716,849	437.8	12	0	52,754	117	117		52,754	9		198	207	0.91		207,000	0	25,854	0	231	207,000	1
1986	4	10	52,014		716,098	437.7	12	0	52,766	117	117		52,766	9		198	207	0.91		207,000	0	25,854	0	231	207,000	1
1986	4	10	52,014		719,590	437.8	11	0	48,522	117	117		48,522	9		198	207	0.91		207,000	0	23,784	0	231	207,000	1
1986	5	10	27,751		717,787	437.8	7	0	29,554	117	117		29,554	9		198	207	0.91		207,000	0	14,490	0	231	207,000	1
1986	5	10	27,751		720,208	437.9	6	0	25,330	117	117		25,330	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1986	5	11	30,526		718,230	437.9	7	0	32,504	117	117		32,504	9		198	207	0.91		207,000	0	15,939	0	231	207,000	1
1986	6	10	16,038		717,377	437.8	4	0	16,892	117	117		16,892	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1
1986	6	10	16,038		720,751	437.9	3	0	12,664	117	117		12,664	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1986	6	10	16,038		719,910	437.9	4	0	16,880	117	117		16,880	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1
1986	7	10	13,178		720,427	437.9	3	0	12,660	117	117		12,660	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1986	7	10	13,178		720,947	437.9	3	0	12,659	117	117		12,659	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1986	7	11	14,496		716,867	437.9	4	0	18,575	117	117		18,575	9		198	207	0.91		207,000	0	9,108	0	231	207,000	1
1986	8	10	44,246		720,285	437.8	10	0	40,828	117	117		40,828	9		198	207	0.91		207,000	0	20,017	0	231	207,000	1
1986	8	10	44,246		719,498	437.9	11	0	45,033	117	117		45,033	9		198	207	0.91		207,000	0	22,087	0	231	207,000	1
1986	8	11	48,670		718,620	437.9	11	0	49,548	117	117		49,548	9		198	207	0.91		207,000	0	24,296	0	231	207,000	1
1986	9	10	55,351		719,727	437.9	13	0	54,245	117	117		54,245	9		198	207	0.91		207,000	0	26,600	0	231	207,000	1
1986	9	10	55,351		716,595	437.8	14	0	58,483	117	117		58,483	9		198	207	0.91		207,000	0	28,670	0	231	207,000	1
1986	9	10	55,351		717,670	437.8	13	0	54,276	117	117		54,276	9		198	207	0.91		207,000	0	26,600	0	231	207,000	1
1986	10	10	99,378	1,629	716,924	437.8	23	0	98,495	117	117		98,495	9		198	207	0.91		207,000	0	48,272	0	231	207,000	1
1986	10	10	99,378	1,629	716,156	437.8	23	0	98,516	117	117		98,516	9		198	207	0.91		207,000	0	48,272	0	231	207,000	1
1986	10	11	109,316	1,792	715,287	437.7	23	0	108,393	117	117		108,393	9		198	207	0.91		207,000	0	53,100	0	231	207,000	1
1986	11	10	62,541		716,092	437.7	15	0	61,736	117	117		61,736	9		198	207	0.91		207,000	0	30,243	0	231	207,000	1
1986	11	10	62,541		716,912	437.7	15	0	61,721	117	117		61,721	9		198	207	0.91		207,000	0	30,243	0	231	207,000	1
1986	11	10	62,541		717,746	437.8	15	0	61,707	117	117		61,707	9		198	207	0.91		207,000	0	30,243	0	231	207,000	1
1986	12	10	16,300		721,383	437.9	3	0	12,663	117	117		12,663	9		198	207	0.91		207,000	0	6,210	0	231	207,000	0
1986	12	10	16,300		720,807	438.0	4	0	16,876	117	117		16,876	9		198	207	0.91		207,000	0	8,280	0	231	207,000	0
1986	12	11	17,930		720,171	437.9	4	0	18,567	117	117		18,567	9		198	207	0.91		207,000	0	9,108	0	231	207,000	0



**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (3/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1987	1	10	13,742		721,255	437.9	3	0	12,658	117	117		12,658	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1987	1	10	13,742		718,114	437.9	4	0	16,883	117	117		16,883	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1
1987	1	11	15,117		719,299	437.8	3	0	13,932	117	117		13,932	9		198	207	0.91		207,000	0	6,831	0	231	207,000	1
1987	2	10	5,515		712,137	437.7	3	0	12,677	117	117		12,677	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1987	2	10	5,515		704,949	437.4	3	0	12,703	118	118		12,703	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
1987	2	8	4,412		699,180	437.1	3	0	10,181	118	118		10,181	9		197	206	0.91		207,000	0	4,968	0	231	207,000	1
1987	3	10	4,288		690,715	436.8	3	0	12,753	118	118		12,753	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1987	3	10	4,288		682,218	436.4	3	0	12,785	118	118		12,785	9		196	206	0.91		207,000	0	6,210	0	231	207,000	1
1987	3	11	4,717		672,834	436.0	3	0	14,101	119	119		14,101	10		196	205	0.91		207,000	0	6,831	0	231	207,000	1
1987	4	10	10,776		670,768	435.7	3	0	12,841	119	119		12,841	10		195	205	0.91		207,000	0	6,210	0	231	207,000	1
1987	4	10	10,776		668,694	435.6	3	0	12,849	119	119		12,849	10		195	205	0.91		207,000	0	6,210	0	231	207,000	1
1987	4	10	10,776		666,612	435.5	3	0	12,857	119	119		12,857	10		195	205	0.91		207,000	0	6,210	0	231	207,000	1
1987	5	10	16,459		670,217	435.6	3	0	12,854	119	119		12,854	10		195	205	0.91		207,000	0	6,210	0	231	207,000	1
1987	5	10	16,459		673,836	435.7	3	0	12,840	119	119		12,840	10		195	205	0.91		207,000	0	6,210	0	231	207,000	1
1987	5	11	18,105		677,833	435.9	3	0	14,108	119	119		14,108	10		196	205	0.91		207,000	0	6,831	0	231	207,000	1
1987	6	10	19,301		684,328	436.1	3	0	12,805	119	119		12,805	10		196	205	0.91		207,000	0	6,210	0	231	207,000	1
1987	6	10	19,301		690,848	436.4	3	0	12,781	118	118		12,781	9		196	206	0.91		207,000	0	6,210	0	231	207,000	1
1987	6	10	19,301		697,393	436.7	3	0	12,756	118	118		12,756	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1987	7	10	15,392		700,046	436.9	3	0	12,739	118	118		12,739	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1987	7	10	15,392		702,710	437.1	3	0	12,729	118	118		12,729	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1987	7	11	16,932		705,651	437.2	3	0	13,991	118	118		13,991	9		197	207	0.91		207,000	0	6,831	0	231	207,000	1
1987	8	10	18,529		711,478	437.4	3	0	12,703	118	118		12,703	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
1987	8	10	18,529		717,326	437.7	3	0	12,681	117	117		12,681	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1987	8	11	20,382		719,129	437.8	4	0	18,579	117	117		18,579	9		198	207	0.91		207,000	0	9,108	0	231	207,000	1
1987	9	10	61,643		719,522	437.9	15	0	61,250	117	117		61,250	9		198	207	0.91		207,000	0	30,036	0	231	207,000	1
1987	9	10	61,643		715,662	437.8	16	0	65,503	117	117		65,503	9		198	207	0.91		207,000	0	32,106	0	231	207,000	1
1987	9	10	61,643		715,995	437.7	15	0	61,311	117	117		61,311	9		198	207	0.91		207,000	0	30,036	0	231	207,000	1
1987	10	10	98,035	1,629	718,722	437.8	22	0	93,679	117	117		93,679	9		198	207	0.91		207,000	0	45,913	0	231	207,000	1
1987	10	10	98,035	1,629	717,243	437.8	23	0	97,885	117	117		97,885	9		198	207	0.91		207,000	0	47,983	0	231	207,000	1
1987	10	11	107,838	1,792	715,568	437.7	23	0	107,721	117	117		107,721	9		198	207	0.91		207,000	0	52,781	0	231	207,000	1
1987	11	10	67,452		719,160	437.8	15	0	63,860	117	117		63,860	9		198	207	0.91		207,000	0	31,298	0	231	207,000	1
1987	11	10	67,452		718,557	437.9	16	0	68,055	117	117		68,055	9		198	207	0.91		207,000	0	33,368	0	231	207,000	1
1987	11	10	67,452		717,943	437.8	16	0	68,067	117	117		68,067	9		198	207	0.91		207,000	0	33,368	0	231	207,000	1
1987	12	10	24,717		720,794	437.9	5	0	21,866	117	117		21,866	9		198	207	0.91		207,000	0	10,723	0	231	207,000	0
1987	12	10	24,717		718,159	437.9	6	0	27,352	117	117		27,352	9		198	207	0.91		207,000	0	13,414	0	231	207,000	0
1987	12	11	27,188		716,776	437.8	6	0	28,572	117	117		28,572	9		198	207	0.91		207,000	0	14,004	0	231	207,000	0

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (4/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1988	1	10	6,889		710,982	437.6	3	0	12,683	117	117		12,683	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1988	1	10	6,889		705,166	437.4	3	0	12,704	118	118		12,704	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
1988	1	11	7,578		698,745	437.1	3	0	14,000	118	118		14,000	9		197	206	0.91		207,000	0	6,831	0	231	207,000	1
1988	2	10	5,431		691,423	436.8	3	0	12,752	118	118		12,752	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1988	2	10	5,431		684,074	436.4	3	0	12,780	118	118		12,780	9		196	206	0.91		207,000	0	6,210	0	231	207,000	1
1988	2	9	4,888		677,436	436.1	3	0	11,526	119	119		11,526	10		196	205	0.91		207,000	0	5,589	0	231	207,000	1
1988	3	10	9,656		674,267	435.9	3	0	12,825	119	119		12,825	10		196	205	0.91		207,000	0	6,210	0	231	207,000	1
1988	3	10	9,656		671,085	435.8	3	0	12,838	119	119		12,838	10		196	205	0.91		207,000	0	6,210	0	231	207,000	1
1988	3	11	10,621		667,570	435.6	3	0	14,136	119	119		14,136	10		195	205	0.91		207,000	0	6,831	0	231	207,000	1
1988	4	10	37,390		688,084	436.0	4	0	16,877	119	119		16,877	10		196	205	0.91		207,000	0	8,177	0	231	207,000	1
1988	4	10	37,390		708,700	436.9	4	0	16,774	118	118		16,774	9		197	206	0.91		207,000	0	8,177	0	231	207,000	1
1988	4	10	37,390		720,942	437.7	6	0	25,148	117	117		25,148	9		198	207	0.91		207,000	0	12,317	0	231	207,000	1
1988	5	10	18,835		718,673	437.9	5	0	21,103	117	117		21,103	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1
1988	5	10	18,835		720,625	437.9	4	0	16,883	117	117		16,883	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1
1988	5	11	20,718		718,127	437.9	5	0	23,216	117	117		23,216	9		198	207	0.91		207,000	0	11,385	0	231	207,000	1
1988	6	10	20,527		717,539	437.8	5	0	21,115	117	117		21,115	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1
1988	6	10	20,527		721,182	437.9	4	0	16,884	117	117		16,884	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1
1988	6	10	20,527		720,613	437.9	5	0	21,096	117	117		21,096	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1
1988	7	10	59,285		719,718	437.9	14	0	60,180	117	117		60,180	9		198	207	0.91		207,000	0	29,518	0	231	207,000	1
1988	7	10	59,285		718,808	437.9	14	0	60,195	117	117		60,195	9		198	207	0.91		207,000	0	29,518	0	231	207,000	1
1988	7	11	65,214		717,788	437.8	14	0	66,233	117	117		66,233	9		198	207	0.91		207,000	0	32,470	0	231	207,000	1
1988	8	10	74,754		716,941	437.8	18	0	75,602	117	117		75,602	9		198	207	0.91		207,000	0	37,053	0	231	207,000	1
1988	8	10	74,754		716,075	437.7	18	0	75,620	117	117		75,620	9		198	207	0.91		207,000	0	37,053	0	231	207,000	1
1988	8	11	82,229		715,100	437.7	18	0	83,204	117	117		83,204	9		198	207	0.91		207,000	0	40,758	0	231	207,000	1
1988	9	10	94,311		716,623	437.7	22	0	92,789	117	117		92,789	9		198	207	0.91		207,000	0	45,457	0	231	207,000	1
1988	9	10	94,311		718,186	437.8	22	0	92,748	117	117		92,748	9		198	207	0.91		207,000	0	45,457	0	231	207,000	1
1988	9	10	94,311		715,510	437.8	23	0	96,987	117	117		96,987	9		198	207	0.91		207,000	0	47,527	0	231	207,000	1
1988	10	10	47,051	1,629	719,543	437.8	10	0	41,389	117	117		41,389	9		198	207	0.91		207,000	0	20,286	0	231	207,000	1
1988	10	10	47,051	1,629	719,378	437.9	11	0	45,587	117	117		45,587	9		198	207	0.91		207,000	0	22,356	0	231	207,000	1
1988	10	11	51,756	1,792	719,194	437.9	11	0	50,148	117	117		50,148	9		198	207	0.91		207,000	0	24,592	0	231	207,000	1
1988	11	10	66,465		718,021	437.8	16	0	67,637	117	117		67,637	9		198	207	0.91		207,000	0	33,161	0	231	207,000	1
1988	11	10	66,465		716,825	437.8	16	0	67,660	117	117		67,660	9		198	207	0.91		207,000	0	33,161	0	231	207,000	1
1988	11	10	66,465		715,607	437.7	16	0	67,683	117	117		67,683	9		198	207	0.91		207,000	0	33,161	0	231	207,000	1
1988	12	10	28,443		717,307	437.7	6	0	26,742	117	117		26,742	9		198	207	0.91		207,000	0	13,103	0	231	207,000	0
1988	12	10	28,443		718,301	437.8	7	0	27,450	117	117		27,450	9		198	207	0.91		207,000	0	13,455	0	231	207,000	0
1988	12	11	31,287		719,169	437.9	7	0	30,419	117	117		30,419	9		198	207	0.91		207,000	0	14,914	0	231	207,000	0

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (5/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1989	1	10	26,633		720,478	437.9	6	0	25,324	117	117		25,324	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1989	1	10	26,633		717,560	437.9	7	0	29,551	117	117		29,551	9		198	207	0.91		207,000	0	14,490	0	231	207,000	1
1989	1	11	29,296		718,988	437.8	6	0	27,868	117	117		27,868	9		198	207	0.91		207,000	0	13,662	0	231	207,000	1
1989	2	10	7,848		714,162	437.8	3	0	12,674	117	117		12,674	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1989	2	10	7,848		709,320	437.5	3	0	12,691	118	118		12,691	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1989	2	8	6,279		705,433	437.3	3	0	10,166	118	118		10,166	9		197	207	0.91		207,000	0	4,968	0	231	207,000	1
1989	3	10	5,238		697,943	437.1	3	0	12,728	118	118		12,728	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1989	3	10	5,238		690,425	436.7	3	0	12,756	118	118		12,756	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1989	3	11	5,762		682,123	436.4	3	0	14,064	118	118		14,064	9		196	206	0.91		207,000	0	6,831	0	231	207,000	1
1989	4	10	6,180		675,489	436.0	3	0	12,814	119	119		12,814	10		196	205	0.91		207,000	0	6,210	0	231	207,000	1
1989	4	10	6,180		668,829	435.7	3	0	12,840	119	119		12,840	10		196	205	0.91		207,000	0	6,210	0	231	207,000	1
1989	4	10	6,180		662,143	435.4	3	0	12,866	119	119		12,866	10		195	205	0.91		207,000	0	6,210	0	231	207,000	1
1989	5	10	18,317		667,591	435.4	3	0	12,868	119	119		12,868	10		195	205	0.91		207,000	0	6,210	0	231	207,000	1
1989	5	10	18,317		673,061	435.6	3	0	12,847	119	119		12,847	10		195	205	0.91		207,000	0	6,210	0	231	207,000	1
1989	5	11	20,149		679,103	435.9	3	0	14,107	119	119		14,107	10		196	205	0.91		207,000	0	6,831	0	231	207,000	1
1989	6	10	80,076		719,013	437.0	9	0	40,166	118	118		40,166	9		197	206	0.91		207,000	0	19,582	0	231	207,000	1
1989	6	10	80,076		716,913	437.8	19	0	82,176	117	117		82,176	9		198	207	0.91		207,000	0	40,282	0	231	207,000	1
1989	6	10	80,076		719,036	437.8	18	0	77,953	117	117		77,953	9		198	207	0.91		207,000	0	38,212	0	231	207,000	1
1989	7	10	146,035		722,000	437.9	24	41,797	101,274	117	117		143,071	9		198	207	0.91		207,000	0	49,680	0	231	207,000	1
1989	7	10	146,035		722,000	438.0	24	44,801	101,234	117	117		146,035	9		198	207	0.91		207,000	0	49,680	0	231	207,000	0
1989	7	11	160,638		722,000	438.0	24	49,282	111,356	117	117		160,638	9		198	207	0.91		207,000	0	54,648	0	231	207,000	0
1989	8	10	70,689		718,628	437.9	18	0	74,061	117	117		74,061	9		198	207	0.91		207,000	0	36,328	0	231	207,000	0
1989	8	10	70,689		715,525	437.8	17	0	73,791	117	117		73,791	9		198	207	0.91		207,000	0	36,163	0	231	207,000	1
1989	8	11	77,758		716,739	437.7	16	0	76,545	117	117		76,545	9		198	207	0.91		207,000	0	37,502	0	231	207,000	1
1989	9	10	59,955		716,154	437.7	14	0	60,539	117	117		60,539	9		198	207	0.91		207,000	0	29,663	0	231	207,000	1
1989	9	10	59,955		719,819	437.8	13	0	56,290	117	117		56,290	9		198	207	0.91		207,000	0	27,593	0	231	207,000	1
1989	9	10	59,955		719,288	437.9	14	0	60,486	117	117		60,486	9		198	207	0.91		207,000	0	29,663	0	231	207,000	1
1989	10	10	54,797	1,629	719,183	437.9	13	0	53,273	117	117		53,273	9		198	207	0.91		207,000	0	26,123	0	231	207,000	1
1989	10	10	54,797	1,629	719,076	437.9	13	0	53,275	117	117		53,275	9		198	207	0.91		207,000	0	26,123	0	231	207,000	1
1989	10	11	60,276	1,792	718,956	437.9	13	0	58,604	117	117		58,604	9		198	207	0.91		207,000	0	28,736	0	231	207,000	1
1989	11	10	102,014		719,661	437.9	24	0	101,309	117	117		101,309	9		198	207	0.91		207,000	0	49,680	0	231	207,000	1
1989	11	10	102,014		720,387	437.9	24	0	101,288	117	117		101,288	9		198	207	0.91		207,000	0	49,680	0	231	207,000	1
1989	11	10	102,014		721,134	437.9	24	0	101,267	117	117		101,267	9		198	207	0.91		207,000	0	49,680	0	231	207,000	1
1989	12	10	29,783		716,933	437.9	8	0	33,984	117	117		33,984	9		198	207	0.91		207,000	0	16,664	0	231	207,000	0
1989	12	10	29,783		718,802	437.8	7	0	27,914	117	117		27,914	9		198	207	0.91		207,000	0	13,683	0	231	207,000	0
1989	12	11	32,761		720,269	437.9	7	0	31,294	117	117		31,294	9		198	207	0.91		207,000	0	15,347	0	231	207,000	0

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (6/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1990	1	10	52,470		719,816	437.9	13	0	52,923	117	117		52,923	9		198	207	0.91		207,000	0	25,958	0	231	207,000	1
1990	1	10	52,470		719,357	437.9	13	0	52,930	117	117		52,930	9		198	207	0.91		207,000	0	25,958	0	231	207,000	1
1990	1	11	57,717		718,843	437.9	13	0	58,231	117	117		58,231	9		198	207	0.91		207,000	0	28,554	0	231	207,000	1
1990	2	10	17,169		719,125	437.9	4	0	16,886	117	117		16,886	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1
1990	2	10	17,169		719,409	437.9	4	0	16,885	117	117		16,885	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1
1990	2	8	13,735		719,637	437.9	4	0	13,507	117	117		13,507	9		198	207	0.91		207,000	0	6,624	0	231	207,000	1
1990	3	10	13,316		720,292	437.9	3	0	12,661	117	117		12,661	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1990	3	10	13,316		720,949	437.9	3	0	12,659	117	117		12,659	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1990	3	11	14,648		717,022	437.9	4	0	18,575	117	117		18,575	9		198	207	0.91		207,000	0	9,108	0	231	207,000	1
1990	4	10	6,023		710,361	437.6	3	0	12,684	117	117		12,684	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1990	4	10	6,023		703,676	437.3	3	0	12,708	118	118		12,708	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
1990	4	10	6,023		696,966	437.0	3	0	12,733	118	118		12,733	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1990	5	10	30,449		713,769	437.2	3	0	13,647	118	118		13,647	9		197	207	0.91		207,000	0	6,665	0	231	207,000	1
1990	5	10	30,449		717,936	437.7	6	0	26,282	117	117		26,282	9		198	207	0.91		207,000	0	12,875	0	231	207,000	1
1990	5	11	33,494		717,892	437.8	7	0	33,538	117	117		33,538	9		198	207	0.91		207,000	0	16,440	0	231	207,000	1
1990	6	10	32,738		719,132	437.8	7	0	31,497	117	117		31,497	9		198	207	0.91		207,000	0	15,442	0	231	207,000	1
1990	6	10	32,738		720,384	437.9	7	0	31,486	117	117		31,486	9		198	207	0.91		207,000	0	15,442	0	231	207,000	1
1990	6	10	32,738		717,406	437.9	8	0	35,716	117	117		35,716	9		198	207	0.91		207,000	0	17,512	0	231	207,000	1
1990	7	10	28,958		720,782	437.9	6	0	25,582	117	117		25,582	9		198	207	0.91		207,000	0	12,544	0	231	207,000	1
1990	7	10	28,958		719,947	437.9	7	0	29,793	117	117		29,793	9		198	207	0.91		207,000	0	14,614	0	231	207,000	1
1990	7	11	31,854		719,021	437.9	7	0	32,780	117	117		32,780	9		198	207	0.91		207,000	0	16,076	0	231	207,000	1
1990	8	10	26,100		719,795	437.9	6	0	25,327	117	117		25,327	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1990	8	10	26,100		720,574	437.9	6	0	25,321	117	117		25,321	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1990	8	11	28,710		716,775	437.8	7	0	32,509	117	117		32,509	9		198	207	0.91		207,000	0	15,939	0	231	207,000	1
1990	9	10	13,451		717,555	437.8	3	0	12,671	117	117		12,671	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1990	9	10	13,451		718,337	437.8	3	0	12,669	117	117		12,669	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1990	9	10	13,451		719,123	437.9	3	0	12,666	117	117		12,666	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1990	10	10	29,434	1,629	717,370	437.8	7	0	29,557	117	117		29,557	9		198	207	0.91		207,000	0	14,490	0	231	207,000	1
1990	10	10	29,434	1,629	719,842	437.8	6	0	25,332	117	117		25,332	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1990	10	11	32,377	1,792	717,920	437.9	7	0	32,507	117	117		32,507	9		198	207	0.91		207,000	0	15,939	0	231	207,000	1
1990	11	10	41,152		719,598	437.9	9	0	39,475	117	117		39,475	9		198	207	0.91		207,000	0	19,355	0	231	207,000	1
1990	11	10	41,152		717,048	437.8	10	0	43,702	117	117		43,702	9		198	207	0.91		207,000	0	21,425	0	231	207,000	1
1990	11	10	41,152		718,716	437.8	9	0	39,484	117	117		39,484	9		198	207	0.91		207,000	0	19,354	0	231	207,000	1
1990	12	10	37,541		719,912	437.9	9	0	36,345	117	117		36,345	9		198	207	0.91		207,000	0	17,823	0	231	207,000	0
1990	12	10	37,541		720,569	437.9	9	0	36,884	117	117		36,884	9		198	207	0.91		207,000	0	18,092	0	231	207,000	0
1990	12	11	41,295		716,676	437.8	10	0	45,189	117	117		45,189	9		198	207	0.91		207,000	0	22,155	0	231	207,000	0

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (7/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1991	1	10	39,991		717,723	437.8	9	0	38,943	117	117	38,943	9		198	207	0.91		207,000	0	19,085	0	231	207,000	1	
1991	1	10	39,991		718,783	437.8	9	0	38,931	117	117	38,931	9		198	207	0.91		207,000	0	19,085	0	231	207,000	1	
1991	1	11	43,990		719,962	437.9	9	0	42,811	117	117	42,811	9		198	207	0.91		207,000	0	20,994	0	231	207,000	1	
1991	2	10	11,984		719,284	437.9	3	0	12,662	117	117	12,662	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1991	2	10	11,984		718,603	437.9	3	0	12,665	117	117	12,665	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1991	2	8	9,587		718,057	437.8	3	0	10,134	117	117	10,134	9		198	207	0.91		207,000	0	4,968	0	231	207,000	1	
1991	3	10	8,549		713,931	437.7	3	0	12,676	117	117	12,676	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1991	3	10	8,549		709,790	437.5	3	0	12,691	118	118	12,691	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1991	3	11	9,404		705,217	437.3	3	0	13,977	118	118	13,977	9		197	207	0.91		207,000	0	6,831	0	231	207,000	1	
1991	4	10	8,415		700,909	437.1	3	0	12,723	118	118	12,723	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1	
1991	4	10	8,415		696,586	436.9	3	0	12,739	118	118	12,739	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1	
1991	4	10	8,415		692,246	436.7	3	0	12,755	118	118	12,755	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1	
1991	5	10	6,177		685,648	436.5	3	0	12,775	118	118	12,775	9		196	206	0.91		207,000	0	6,210	0	231	207,000	1	
1991	5	10	6,177		679,024	436.2	3	0	12,801	119	119	12,801	9		196	206	0.91		207,000	0	6,210	0	231	207,000	1	
1991	5	11	6,795		671,709	435.9	3	0	14,110	119	119	14,110	10		196	205	0.91		207,000	0	6,831	0	231	207,000	1	
1991	6	10	35,189		691,021	436.1	4	0	15,877	119	119	15,877	9		196	205	0.91		207,000	0	7,700	0	231	207,000	1	
1991	6	10	35,189		710,423	437.0	4	0	15,787	118	118	15,787	9		197	206	0.91		207,000	0	7,700	0	231	207,000	1	
1991	6	10	35,189		717,202	437.6	7	0	28,411	117	117	28,411	9		198	207	0.91		207,000	0	13,910	0	231	207,000	1	
1991	7	10	16,573		721,111	437.9	3	0	12,664	117	117	12,664	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1991	7	10	16,573		720,807	438.0	4	0	16,877	117	117	16,877	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1	
1991	7	11	18,230		720,472	437.9	4	0	18,566	117	117	18,566	9		198	207	0.91		207,000	0	9,108	0	231	207,000	1	
1991	8	10	12,080		719,891	437.9	3	0	12,660	117	117	12,660	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1991	8	10	12,080		719,308	437.9	3	0	12,662	117	117	12,662	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1991	8	11	13,288		718,664	437.9	3	0	13,931	117	117	13,931	9		198	207	0.91		207,000	0	6,831	0	231	207,000	1	
1991	9	10	12,194		718,191	437.8	3	0	12,667	117	117	12,667	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1991	9	10	12,194		717,717	437.8	3	0	12,669	117	117	12,669	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1991	9	10	12,194		717,240	437.8	3	0	12,670	117	117	12,670	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1991	10	10	36,965	1,629	719,939	437.8	8	0	32,637	117	117	32,637	9		198	207	0.91		207,000	0	16,001	0	231	207,000	1	
1991	10	10	36,965	1,629	718,422	437.9	9	0	36,853	117	117	36,853	9		198	207	0.91		207,000	0	18,071	0	231	207,000	1	
1991	10	11	40,661	1,792	716,735	437.8	9	0	40,556	117	117	40,556	9		198	207	0.91		207,000	0	19,878	0	231	207,000	1	
1991	11	10	33,319		718,295	437.8	8	0	31,760	117	117	31,760	9		198	207	0.91		207,000	0	15,566	0	231	207,000	1	
1991	11	10	33,319		719,868	437.9	8	0	31,746	117	117	31,746	9		198	207	0.91		207,000	0	15,566	0	231	207,000	1	
1991	11	10	33,319		717,215	437.8	9	0	35,973	117	117	35,973	9		198	207	0.91		207,000	0	17,636	0	231	207,000	1	
1991	12	10	45,945		719,501	437.8	10	0	43,659	117	117	43,659	9		198	207	0.91		207,000	0	21,404	0	231	207,000	0	
1991	12	10	45,945		716,547	437.8	12	0	48,900	117	117	48,900	9		198	207	0.91		207,000	0	23,971	0	231	207,000	0	
1991	12	11	50,540		719,568	437.8	10	0	47,518	117	117	47,518	9		198	207	0.91		207,000	0	23,294	0	231	207,000	0	

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (8/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1992	1	10	24,316		718,556	437.9	6	0	25,329	117	117		25,329	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1992	1	10	24,316		717,535	437.8	6	0	25,336	117	117		25,336	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1992	1	11	26,748		721,067	437.9	5	0	23,217	117	117		23,217	9		198	207	0.91		207,000	0	11,385	0	231	207,000	1
1992	2	10	12,971		721,381	438.0	3	0	12,657	117	117		12,657	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1992	2	10	12,971		717,468	437.9	4	0	16,884	117	117		16,884	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1
1992	2	9	11,674		717,740	437.8	3	0	11,403	117	117		11,403	9		198	207	0.91		207,000	0	5,589	0	231	207,000	1
1992	3	10	5,736		710,794	437.6	3	0	12,682	117	117		12,682	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1992	3	10	5,736		703,823	437.3	3	0	12,707	118	118		12,707	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
1992	3	11	6,310		696,125	437.0	3	0	14,008	118	118		14,008	9		197	206	0.91		207,000	0	6,831	0	231	207,000	1
1992	4	10	10,421		693,793	436.8	3	0	12,753	118	118		12,753	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1992	4	10	10,421		691,452	436.7	3	0	12,762	118	118		12,762	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1992	4	10	10,421		689,103	436.6	3	0	12,770	118	118		12,770	9		196	206	0.91		207,000	0	6,210	0	231	207,000	1
1992	5	10	14,629		690,961	436.5	3	0	12,771	118	118		12,771	9		196	206	0.91		207,000	0	6,210	0	231	207,000	1
1992	5	10	14,629		692,826	436.6	3	0	12,764	118	118		12,764	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1992	5	11	16,092		694,885	436.7	3	0	14,033	118	118		14,033	9		197	206	0.91		207,000	0	6,831	0	231	207,000	1
1992	6	10	26,658		708,816	437.1	3	0	12,727	118	118		12,727	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1992	6	10	26,658		718,562	437.6	4	0	16,912	117	117		16,912	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1
1992	6	10	26,658		719,893	437.9	6	0	25,328	117	117		25,328	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1992	7	10	51,108		718,657	437.9	12	0	52,344	117	117		52,344	9		198	207	0.91		207,000	0	25,668	0	231	207,000	1
1992	7	10	51,108		717,402	437.8	12	0	52,362	117	117		52,362	9		198	207	0.91		207,000	0	25,668	0	231	207,000	1
1992	7	11	56,219		716,001	437.8	12	0	57,620	117	117		57,620	9		198	207	0.91		207,000	0	28,235	0	231	207,000	1
1992	8	10	56,561		717,775	437.8	13	0	54,787	117	117		54,787	9		198	207	0.91		207,000	0	26,848	0	231	207,000	1
1992	8	10	56,561		719,578	437.8	13	0	54,759	117	117		54,759	9		198	207	0.91		207,000	0	26,848	0	231	207,000	1
1992	8	11	62,218		716,908	437.8	14	0	64,887	117	117		64,887	9		198	207	0.91		207,000	0	31,810	0	231	207,000	1
1992	9	10	37,463		720,766	437.9	8	0	33,605	117	117		33,605	9		198	207	0.91		207,000	0	16,477	0	231	207,000	1
1992	9	10	37,463		720,209	437.9	9	0	38,021	117	117		38,021	9		198	207	0.91		207,000	0	18,651	0	231	207,000	0
1992	9	10	37,463		719,858	437.9	9	0	37,814	117	117		37,814	9		198	207	0.91		207,000	0	18,547	0	231	207,000	1
1992	10	10	47,081	1,629	719,728	437.9	11	0	45,583	117	117		45,583	9		198	207	0.91		207,000	0	22,356	0	231	207,000	1
1992	10	10	47,081	1,629	719,595	437.9	11	0	45,585	117	117		45,585	9		198	207	0.91		207,000	0	22,356	0	231	207,000	1
1992	10	11	51,789	1,792	719,448	437.9	11	0	50,145	117	117		50,145	9		198	207	0.91		207,000	0	24,592	0	231	207,000	1
1992	11	10	64,655		717,262	437.8	16	0	66,840	117	117		66,840	9		198	207	0.91		207,000	0	32,768	0	231	207,000	1
1992	11	10	64,655		719,298	437.8	15	0	62,619	117	117		62,619	9		198	207	0.91		207,000	0	30,698	0	231	207,000	1
1992	11	10	64,655		717,110	437.8	16	0	66,843	117	117		66,843	9		198	207	0.91		207,000	0	32,768	0	231	207,000	1
1992	12	10	43,979		718,351	437.8	10	0	42,738	117	117		42,738	9		198	207	0.91		207,000	0	20,948	0	231	207,000	0
1992	12	10	43,979		719,012	437.8	10	0	43,317	117	117		43,317	9		198	207	0.91		207,000	0	21,238	0	231	207,000	0
1992	12	11	48,377		719,749	437.9	10	0	47,640	117	117		47,640	9		198	207	0.91		207,000	0	23,362	0	231	207,000	0

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (9/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1993	1	10	12,684		719,771	437.9	3	0	12,662	117	117		12,662	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1993	1	10	12,684		719,794	437.9	3	0	12,662	117	117		12,662	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1993	1	11	13,952		719,818	437.9	3	0	13,928	117	117		13,928	9		198	207	0.91		207,000	0	6,831	0	231	207,000	1
1993	2	10	8,482		715,631	437.8	3	0	12,669	117	117		12,669	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1993	2	10	8,482		711,428	437.6	3	0	12,685	117	117		12,685	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1993	2	8	6,786		708,055	437.4	3	0	10,159	118	118		10,159	9		197	207	0.91		207,000	0	4,968	0	231	207,000	1
1993	3	10	5,803		701,141	437.2	3	0	12,717	118	118		12,717	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
1993	3	10	5,803		694,202	436.9	3	0	12,743	118	118		12,743	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1993	3	11	6,383		686,538	436.6	3	0	14,047	118	118		14,047	9		196	206	0.91		207,000	0	6,831	0	231	207,000	1
1993	4	10	5,791		679,531	436.2	3	0	12,798	118	118		12,798	9		196	206	0.91		207,000	0	6,210	0	231	207,000	1
1993	4	10	5,791		672,497	435.9	3	0	12,825	119	119		12,825	10		196	205	0.91		207,000	0	6,210	0	231	207,000	1
1993	4	10	5,791		665,436	435.6	3	0	12,852	119	119		12,852	10		195	205	0.91		207,000	0	6,210	0	231	207,000	1
1993	5	10	28,854		681,241	435.8	3	0	13,049	119	119		13,049	10		196	205	0.91		207,000	0	6,313	0	231	207,000	1
1993	5	10	28,854		697,108	436.5	3	0	12,988	118	118		12,988	9		196	206	0.91		207,000	0	6,313	0	231	207,000	1
1993	5	11	31,739		714,630	437.3	3	0	14,217	118	118		14,217	9		197	207	0.91		207,000	0	6,945	0	231	207,000	1
1993	6	10	85,327		715,387	437.7	20	0	84,570	117	117		84,570	9		198	207	0.91		207,000	0	41,421	0	231	207,000	1
1993	6	10	85,327		716,163	437.7	20	0	84,551	117	117		84,551	9		198	207	0.91		207,000	0	41,421	0	231	207,000	1
1993	6	10	85,327		716,958	437.8	20	0	84,533	117	117		84,533	9		198	207	0.91		207,000	0	41,421	0	231	207,000	1
1993	7	10	66,162		715,564	437.7	16	0	67,556	117	117		67,556	9		198	207	0.91		207,000	0	33,099	0	231	207,000	1
1993	7	10	66,162		718,408	437.8	15	0	63,318	117	117		63,318	9		198	207	0.91		207,000	0	31,029	0	231	207,000	1
1993	7	11	72,778		716,904	437.8	16	0	74,282	117	117		74,282	9		198	207	0.91		207,000	0	36,409	0	231	207,000	1
1993	8	10	23,995		719,787	437.8	5	0	21,112	117	117		21,112	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1
1993	8	10	23,995		718,453	437.9	6	0	25,329	117	117		25,329	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1993	8	11	26,394		716,975	437.8	6	0	27,873	117	117		27,873	9		198	207	0.91		207,000	0	13,662	0	231	207,000	1
1993	9	10	7,003		711,296	437.6	3	0	12,682	117	117		12,682	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1993	9	10	7,003		705,596	437.4	3	0	12,703	118	118		12,703	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
1993	9	10	7,003		699,875	437.1	3	0	12,724	118	118		12,724	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1993	10	10	59,245	1,629	719,012	437.4	9	0	38,479	118	118		38,479	9		197	207	0.91		207,000	0	18,816	0	231	207,000	1
1993	10	10	59,245	1,629	717,130	437.8	14	0	59,498	117	117		59,498	9		198	207	0.91		207,000	0	29,166	0	231	207,000	1
1993	10	11	65,170	1,792	719,711	437.8	13	0	60,797	117	117		60,797	9		198	207	0.91		207,000	0	29,806	0	231	207,000	1
1993	11	10	77,306		716,106	437.8	19	0	80,911	117	117		80,911	9		198	207	0.91		207,000	0	39,661	0	231	207,000	1
1993	11	10	77,306		716,691	437.7	18	0	76,721	117	117		76,721	9		198	207	0.91		207,000	0	37,591	0	231	207,000	1
1993	11	10	77,306		717,289	437.8	18	0	76,708	117	117		76,708	9		198	207	0.91		207,000	0	37,591	0	231	207,000	1
1993	12	10	86,039		716,352	437.8	21	0	86,976	117	117		86,976	9		198	207	0.91		207,000	0	42,621	0	231	207,000	0
1993	12	10	86,039		715,818	437.7	20	0	86,572	117	117		86,572	9		198	207	0.91		207,000	0	42,414	0	231	207,000	0
1993	12	11	94,642		715,640	437.7	20	0	94,821	117	117		94,821	9		198	207	0.91		207,000	0	46,451	0	231	207,000	0

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (10/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1994	1	10	59,699		719,124	437.8	13	0	56,215	117	117		56,215	9		198	207	0.91		207,000	0	27,552	0	231	207,000	1
1994	1	10	59,699		718,409	437.9	14	0	60,415	117	117		60,415	9		198	207	0.91		207,000	0	29,622	0	231	207,000	1
1994	1	11	65,669		717,608	437.8	14	0	66,471	117	117		66,471	9		198	207	0.91		207,000	0	32,584	0	231	207,000	1
1994	2	10	46,451		717,985	437.8	11	0	46,073	117	117		46,073	9		198	207	0.91		207,000	0	22,584	0	231	207,000	1
1994	2	10	46,451		718,367	437.8	11	0	46,068	117	117		46,068	9		198	207	0.91		207,000	0	22,584	0	231	207,000	1
1994	2	8	37,160		718,676	437.8	11	0	36,851	117	117		36,851	9		198	207	0.91		207,000	0	18,067	0	231	207,000	1
1994	3	10	12,090		718,100	437.8	3	0	12,667	117	117		12,667	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1994	3	10	12,090		717,520	437.8	3	0	12,669	117	117		12,669	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1994	3	11	13,299		716,881	437.8	3	0	13,938	117	117		13,938	9		198	207	0.91		207,000	0	6,831	0	231	207,000	1
1994	4	10	12,978		717,187	437.8	3	0	12,672	117	117		12,672	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1994	4	10	12,978		717,495	437.8	3	0	12,671	117	117		12,671	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1994	4	10	12,978		717,803	437.8	3	0	12,670	117	117		12,670	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1994	5	10	11,982		717,115	437.8	3	0	12,670	117	117		12,670	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1994	5	10	11,982		716,424	437.8	3	0	12,673	117	117		12,673	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1994	5	11	13,180		715,661	437.7	3	0	13,943	117	117		13,943	9		198	207	0.91		207,000	0	6,831	0	231	207,000	1
1994	6	10	10,312		713,292	437.7	3	0	12,681	117	117		12,681	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1994	6	10	10,312		710,915	437.5	3	0	12,690	117	117		12,690	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1994	6	10	10,312		708,529	437.4	3	0	12,698	118	118		12,698	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
1994	7	10	10,502		706,325	437.3	3	0	12,707	118	118		12,707	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
1994	7	10	10,502		704,112	437.2	3	0	12,715	118	118		12,715	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
1994	7	11	11,553		701,669	437.1	3	0	13,996	118	118		13,996	9		197	206	0.91		207,000	0	6,831	0	231	207,000	1
1994	8	10	24,940		713,904	437.4	3	0	12,705	118	118		12,705	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
1994	8	10	24,940		717,717	437.7	5	0	21,127	117	117		21,127	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1
1994	8	11	27,434		717,277	437.8	6	0	27,874	117	117		27,874	9		198	207	0.91		207,000	0	13,662	0	231	207,000	1
1994	9	10	25,864		717,801	437.8	6	0	25,340	117	117		25,340	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1994	9	10	25,864		718,329	437.8	6	0	25,336	117	117		25,336	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1994	9	10	25,864		718,861	437.8	6	0	25,332	117	117		25,332	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1994	10	10	77,850	1,629	718,879	437.9	18	0	76,203	117	117		76,203	9		198	207	0.91		207,000	0	37,363	0	231	207,000	1
1994	10	10	77,850	1,629	718,899	437.9	18	0	76,202	117	117		76,202	9		198	207	0.91		207,000	0	37,363	0	231	207,000	1
1994	10	11	85,635	1,792	718,920	437.9	18	0	83,822	117	117		83,822	9		198	207	0.91		207,000	0	41,100	0	231	207,000	1
1994	11	10	105,472		722,000	437.9	24	1,117	101,276	117	117		102,392	9		198	207	0.91		207,000	0	49,680	0	231	207,000	1
1994	11	10	105,472		722,000	438.0	24	4,240	101,232	117	117		105,472	9		198	207	0.91		207,000	0	49,680	0	231	207,000	0
1994	11	10	105,472		722,000	438.0	24	4,240	101,232	117	117		105,472	9		198	207	0.91		207,000	0	49,680	0	231	207,000	0
1994	12	10	61,117		717,912	437.9	15	0	65,206	117	117		65,206	9		198	207	0.91		207,000	0	31,982	0	231	207,000	0
1994	12	10	61,117		719,840	437.9	14	0	59,189	117	117		59,189	9		198	207	0.91		207,000	0	29,021	0	231	207,000	0
1994	12	11	67,229		716,702	437.8	15	0	70,367	117	117		70,367	9		198	207	0.91		207,000	0	34,497	0	231	207,000	0



**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (11/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for exsting (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1995	1	10	26,060		717,419	437.8	6	0	25,344	117	117	25,344	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
1995	1	10	26,060		718,141	437.8	6	0	25,338	117	117	25,338	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
1995	1	11	28,666		718,941	437.8	6	0	27,866	117	117	27,866	9		198	207	0.91		207,000	0	13,662	0	231	207,000	1	
1995	2	10	23,622		717,227	437.8	6	0	25,336	117	117	25,336	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
1995	2	10	23,622		719,738	437.8	5	0	21,111	117	117	21,111	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
1995	2	8	18,898		718,373	437.9	6	0	20,263	117	117	20,263	9		198	207	0.91		207,000	0	9,936	0	231	207,000	1	
1995	3	10	10,600		716,302	437.8	3	0	12,671	117	117	12,671	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1995	3	10	10,600		714,224	437.7	3	0	12,678	117	117	12,678	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1995	3	11	11,660		711,929	437.6	3	0	13,955	117	117	13,955	9		198	207	0.91		207,000	0	6,831	0	231	207,000	1	
1995	4	10	33,666		717,870	437.7	7	0	27,726	117	117	27,726	9		198	207	0.91		207,000	0	13,579	0	231	207,000	1	
1995	4	10	33,666		719,618	437.9	8	0	31,918	117	117	31,918	9		198	207	0.91		207,000	0	15,649	0	231	207,000	1	
1995	4	10	33,666		717,142	437.8	9	0	36,143	117	117	36,143	9		198	207	0.91		207,000	0	17,719	0	231	207,000	1	
1995	5	10	80,513		715,269	437.7	20	0	82,386	117	117	82,386	9		198	207	0.91		207,000	0	40,365	0	231	207,000	1	
1995	5	10	80,513		717,626	437.7	19	0	78,156	117	117	78,156	9		198	207	0.91		207,000	0	38,295	0	231	207,000	1	
1995	5	11	88,565		715,576	437.8	20	0	90,615	117	117	90,615	9		198	207	0.91		207,000	0	44,402	0	231	207,000	1	
1995	6	10	59,834		719,153	437.8	13	0	56,258	117	117	56,258	9		198	207	0.91		207,000	0	27,572	0	231	207,000	1	
1995	6	10	59,834		718,531	437.9	14	0	60,456	117	117	60,456	9		198	207	0.91		207,000	0	29,642	0	231	207,000	1	
1995	6	10	59,834		717,898	437.8	14	0	60,467	117	117	60,467	9		198	207	0.91		207,000	0	29,642	0	231	207,000	1	
1995	7	10	19,280		720,292	437.9	4	0	16,886	117	117	16,886	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1	
1995	7	10	19,280		718,466	437.9	5	0	21,106	117	117	21,106	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
1995	7	11	21,208		721,103	437.9	4	0	18,571	117	117	18,571	9		198	207	0.91		207,000	0	9,108	0	231	207,000	1	
1995	8	10	23,311		719,093	437.9	6	0	25,322	117	117	25,322	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
1995	8	10	23,311		717,068	437.8	6	0	25,336	117	117	25,336	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
1995	8	11	25,642		719,487	437.8	5	0	23,224	117	117	23,224	9		198	207	0.91		207,000	0	11,385	0	231	207,000	1	
1995	9	10	38,276		719,605	437.9	9	0	38,157	117	117	38,157	9		198	207	0.91		207,000	0	18,713	0	231	207,000	1	
1995	9	10	38,276		719,724	437.9	9	0	38,156	117	117	38,156	9		198	207	0.91		207,000	0	18,713	0	231	207,000	1	
1995	9	10	38,276		719,845	437.9	9	0	38,155	117	117	38,155	9		198	207	0.91		207,000	0	18,713	0	231	207,000	1	
1995	10	10	70,908	1,629	715,984	437.8	17	0	73,140	117	117	73,140	9		198	207	0.91		207,000	0	35,852	0	231	207,000	1	
1995	10	10	70,908	1,629	716,310	437.7	16	0	68,952	117	117	68,952	9		198	207	0.91		207,000	0	33,782	0	231	207,000	1	
1995	10	11	77,999	1,792	716,677	437.7	16	0	75,840	117	117	75,840	9		198	207	0.91		207,000	0	37,161	0	231	207,000	1	
1995	11	10	70,233		717,554	437.8	16	0	69,356	117	117	69,356	9		198	207	0.91		207,000	0	33,989	0	231	207,000	1	
1995	11	10	70,233		718,449	437.8	16	0	69,338	117	117	69,338	9		198	207	0.91		207,000	0	33,989	0	231	207,000	1	
1995	11	10	70,233		719,361	437.9	16	0	69,320	117	117	69,320	9		198	207	0.91		207,000	0	33,989	0	231	207,000	1	
1995	12	10	21,470		719,727	437.9	5	0	21,105	117	117	21,105	9		198	207	0.91		207,000	0	10,350	0	231	207,000	0	
1995	12	10	21,470		720,010	437.9	5	0	21,187	117	117	21,187	9		198	207	0.91		207,000	0	10,391	0	231	207,000	0	
1995	12	11	23,618		720,417	437.9	5	0	23,210	117	117	23,210	9		198	207	0.91		207,000	0	11,385	0	231	207,000	0	

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (12/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1996	1	10	15,423		718,957	437.9	4	0	16,883	117	117	16,883	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1	
1996	1	10	15,423		717,490	437.8	4	0	16,890	117	117	16,890	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1	
1996	1	11	16,965		720,524	437.9	3	0	13,931	117	117	13,931	9		198	207	0.91		207,000	0	6,831	0	231	207,000	1	
1996	2	10	14,912		718,552	437.9	4	0	16,884	117	117	16,884	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1	
1996	2	10	14,912		720,802	437.9	3	0	12,662	117	117	12,662	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1996	2	9	13,421		719,029	437.9	4	0	15,194	117	117	15,194	9		198	207	0.91		207,000	0	7,452	0	231	207,000	1	
1996	3	10	7,373		713,728	437.7	3	0	12,674	117	117	12,674	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1996	3	10	7,373		708,407	437.5	3	0	12,693	118	118	12,693	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1	
1996	3	11	8,110		702,532	437.2	3	0	13,985	118	118	13,985	9		197	207	0.91		207,000	0	6,831	0	231	207,000	1	
1996	4	10	28,706		718,415	437.5	3	0	12,823	118	118	12,823	9		197	207	0.91		207,000	0	6,272	0	231	207,000	1	
1996	4	10	28,706		717,434	437.8	7	0	29,687	117	117	29,687	9		198	207	0.91		207,000	0	14,552	0	231	207,000	1	
1996	4	10	28,706		720,684	437.9	6	0	25,456	117	117	25,456	9		198	207	0.91		207,000	0	12,482	0	231	207,000	1	
1996	5	10	7,283		715,299	437.8	3	0	12,668	117	117	12,668	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1996	5	10	7,283		709,894	437.6	3	0	12,688	117	117	12,688	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1996	5	11	8,011		703,926	437.3	3	0	13,979	118	118	13,979	9		197	207	0.91		207,000	0	6,831	0	231	207,000	1	
1996	6	10	22,849		714,074	437.4	3	0	12,701	118	118	12,701	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1	
1996	6	10	22,849		720,027	437.8	4	0	16,896	117	117	16,896	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1	
1996	6	10	22,849		717,544	437.9	6	0	25,331	117	117	25,331	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
1996	7	10	25,098		717,301	437.8	6	0	25,341	117	117	25,341	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
1996	7	10	25,098		717,056	437.8	6	0	25,343	117	117	25,343	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
1996	7	11	27,608		716,785	437.8	6	0	27,879	117	117	27,879	9		198	207	0.91		207,000	0	13,662	0	231	207,000	1	
1996	8	10	27,798		719,246	437.8	6	0	25,337	117	117	25,337	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
1996	8	10	27,798		717,488	437.8	7	0	29,556	117	117	29,556	9		198	207	0.91		207,000	0	14,490	0	231	207,000	1	
1996	8	11	30,578		720,202	437.9	6	0	27,864	117	117	27,864	9		198	207	0.91		207,000	0	13,662	0	231	207,000	1	
1996	9	10	55,394		717,121	437.8	14	0	58,475	117	117	58,475	9		198	207	0.91		207,000	0	28,670	0	231	207,000	1	
1996	9	10	55,394		718,248	437.8	13	0	54,268	117	117	54,268	9		198	207	0.91		207,000	0	26,600	0	231	207,000	1	
1996	9	10	55,394		719,391	437.9	13	0	54,250	117	117	54,250	9		198	207	0.91		207,000	0	26,600	0	231	207,000	1	
1996	10	10	74,486	1,629	717,515	437.8	18	0	74,734	117	117	74,734	9		198	207	0.91		207,000	0	36,639	0	231	207,000	1	
1996	10	10	74,486	1,629	715,598	437.8	18	0	74,774	117	117	74,774	9		198	207	0.91		207,000	0	36,639	0	231	207,000	1	
1996	10	11	81,935	1,792	718,144	437.8	17	0	77,598	117	117	77,598	9		198	207	0.91		207,000	0	38,026	0	231	207,000	1	
1996	11	10	36,738		717,380	437.8	9	0	37,501	117	117	37,501	9		198	207	0.91		207,000	0	18,382	0	231	207,000	1	
1996	11	10	36,738		716,609	437.8	9	0	37,509	117	117	37,509	9		198	207	0.91		207,000	0	18,382	0	231	207,000	1	
1996	11	10	36,738		720,074	437.8	8	0	33,272	117	117	33,272	9		198	207	0.91		207,000	0	16,312	0	231	207,000	1	
1996	12	10	26,356		718,655	437.9	7	0	27,775	117	117	27,775	9		198	207	0.91		207,000	0	13,621	0	231	207,000	0	
1996	12	10	26,356		717,860	437.8	6	0	27,151	117	117	27,151	9		198	207	0.91		207,000	0	13,310	0	231	207,000	0	
1996	12	11	28,992		717,632	437.8	6	0	29,220	117	117	29,220	9		198	207	0.91		207,000	0	14,322	0	231	207,000	0	

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (13/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1997	1	10	7,008		711,960	437.7	3	0	12,680	117	117	12,680	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1997	1	10	7,008		706,267	437.4	3	0	12,701	118	118	12,701	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1	
1997	1	11	7,708		699,981	437.1	3	0	13,995	118	118	13,995	9		197	206	0.91		207,000	0	6,831	0	231	207,000	1	
1997	2	10	6,546		693,781	436.9	3	0	12,746	118	118	12,746	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1	
1997	2	10	6,546		687,558	436.6	3	0	12,769	118	118	12,769	9		196	206	0.91		207,000	0	6,210	0	231	207,000	1	
1997	2	8	5,237		682,563	436.3	3	0	10,232	118	118	10,232	9		196	206	0.91		207,000	0	4,968	0	231	207,000	1	
1997	3	10	6,439		676,190	436.1	3	0	12,812	119	119	12,812	10		196	205	0.91		207,000	0	6,210	0	231	207,000	1	
1997	3	10	6,439		669,792	435.8	3	0	12,837	119	119	12,837	10		196	205	0.91		207,000	0	6,210	0	231	207,000	1	
1997	3	11	7,083		662,725	435.5	3	0	14,149	119	119	14,149	10		195	205	0.91		207,000	0	6,831	0	231	207,000	1	
1997	4	10	24,342		674,213	435.6	3	0	12,854	119	119	12,854	10		195	205	0.91		207,000	0	6,210	0	231	207,000	1	
1997	4	10	24,342		685,746	436.1	3	0	12,810	119	119	12,810	10		196	205	0.91		207,000	0	6,210	0	231	207,000	1	
1997	4	10	24,342		697,323	436.6	3	0	12,766	118	118	12,766	9		196	206	0.91		207,000	0	6,210	0	231	207,000	1	
1997	5	10	36,033		717,218	437.3	4	0	16,138	118	118	16,138	9		197	207	0.91		207,000	0	7,887	0	231	207,000	1	
1997	5	10	36,033		720,278	437.9	8	0	32,973	117	117	32,973	9		198	207	0.91		207,000	0	16,167	0	231	207,000	1	
1997	5	11	39,636		719,010	437.9	9	0	40,904	117	117	40,904	9		198	207	0.91		207,000	0	20,060	0	231	207,000	1	
1997	6	10	12,243		718,588	437.9	3	0	12,665	117	117	12,665	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1997	6	10	12,243		718,165	437.8	3	0	12,667	117	117	12,667	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1997	6	10	12,243		717,740	437.8	3	0	12,669	117	117	12,669	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
1997	7	10	20,492		721,348	437.9	4	0	16,884	117	117	16,884	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1	
1997	7	10	20,492		720,744	438.0	5	0	21,095	117	117	21,095	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
1997	7	11	22,541		720,076	437.9	5	0	23,209	117	117	23,209	9		198	207	0.91		207,000	0	11,385	0	231	207,000	1	
1997	8	10	16,269		719,463	437.9	4	0	16,882	117	117	16,882	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1	
1997	8	10	16,269		718,847	437.9	4	0	16,886	117	117	16,886	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1	
1997	8	11	17,896		718,165	437.8	4	0	18,578	117	117	18,578	9		198	207	0.91		207,000	0	9,108	0	231	207,000	1	
1997	9	10	60,874		718,107	437.8	14	0	60,933	117	117	60,933	9		198	207	0.91		207,000	0	29,870	0	231	207,000	1	
1997	9	10	60,874		718,047	437.8	14	0	60,934	117	117	60,934	9		198	207	0.91		207,000	0	29,870	0	231	207,000	1	
1997	9	10	60,874		717,987	437.8	14	0	60,935	117	117	60,935	9		198	207	0.91		207,000	0	29,870	0	231	207,000	1	
1997	10	10	73,860	1,629	715,746	437.8	18	0	74,472	117	117	74,472	9		198	207	0.91		207,000	0	36,494	0	231	207,000	1	
1997	10	10	73,860	1,629	717,727	437.8	17	0	70,250	117	117	70,250	9		198	207	0.91		207,000	0	34,424	0	231	207,000	1	
1997	10	11	81,246	1,792	715,253	437.7	18	0	81,928	117	117	81,928	9		198	207	0.91		207,000	0	40,144	0	231	207,000	1	
1997	11	10	98,710		714,942	437.7	23	0	99,022	117	117	99,022	9		198	207	0.91		207,000	0	48,500	0	231	207,000	1	
1997	11	10	98,710		714,621	437.7	23	0	99,031	117	117	99,031	9		198	207	0.91		207,000	0	48,500	0	231	207,000	1	
1997	11	10	98,710		718,576	437.8	22	0	94,755	117	117	94,755	9		198	207	0.91		207,000	0	46,430	0	231	207,000	1	
1997	12	10	68,731		715,969	437.8	17	0	71,338	117	117	71,338	9		198	207	0.91		207,000	0	34,962	0	231	207,000	0	
1997	12	10	68,731		718,728	437.8	16	0	65,972	117	117	65,972	9		198	207	0.91		207,000	0	32,333	0	231	207,000	0	
1997	12	11	75,604		716,049	437.8	17	0	78,283	117	117	78,283	9		198	207	0.91		207,000	0	38,367	0	231	207,000	0	

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (14/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1998	1	10	33,174		717,541	437.8	8	0	31,682	117	117		31,682	9		198	207	0.91		207,000	0	15,525	0	231	207,000	1
1998	1	10	33,174		719,047	437.8	8	0	31,668	117	117		31,668	9		198	207	0.91		207,000	0	15,525	0	231	207,000	1
1998	1	11	36,491		720,719	437.9	8	0	34,819	117	117		34,819	9		198	207	0.91		207,000	0	17,077	0	231	207,000	1
1998	2	10	13,889		717,723	437.9	4	0	16,885	117	117		16,885	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1
1998	2	10	13,889		718,945	437.8	3	0	12,667	117	117		12,667	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1998	2	8	11,111		719,926	437.9	3	0	10,130	117	117		10,130	9		198	207	0.91		207,000	0	4,968	0	231	207,000	1
1998	3	10	9,354		716,612	437.8	3	0	12,667	117	117		12,667	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1998	3	10	9,354		713,287	437.7	3	0	12,679	117	117		12,679	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1998	3	11	10,289		709,614	437.5	3	0	13,961	118	118		13,961	9		198	207	0.91		207,000	0	6,831	0	231	207,000	1
1998	4	10	6,628		703,533	437.3	3	0	12,710	118	118		12,710	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
1998	4	10	6,628		697,428	437.0	3	0	12,732	118	118		12,732	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1998	4	10	6,628		691,301	436.7	3	0	12,755	118	118		12,755	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1998	5	10	9,972		688,501	436.5	3	0	12,772	118	118		12,772	9		196	206	0.91		207,000	0	6,210	0	231	207,000	1
1998	5	10	9,972		685,691	436.4	3	0	12,782	118	118		12,782	9		196	206	0.91		207,000	0	6,210	0	231	207,000	1
1998	5	11	10,969		682,587	436.3	3	0	14,073	118	118		14,073	9		196	206	0.91		207,000	0	6,831	0	231	207,000	1
1998	6	10	16,450		686,245	436.3	3	0	12,793	118	118		12,793	9		196	206	0.91		207,000	0	6,210	0	231	207,000	1
1998	6	10	16,450		689,917	436.5	3	0	12,779	118	118		12,779	9		196	206	0.91		207,000	0	6,210	0	231	207,000	1
1998	6	10	16,450		693,602	436.6	3	0	12,765	118	118		12,765	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
1998	7	10	30,879		710,653	437.1	3	0	13,829	118	118		13,829	9		197	206	0.91		207,000	0	6,748	0	231	207,000	1
1998	7	10	30,879		719,301	437.7	5	0	22,231	117	117		22,231	9		198	207	0.91		207,000	0	10,888	0	231	207,000	1
1998	7	11	33,967		719,559	437.9	7	0	33,710	117	117		33,710	9		198	207	0.91		207,000	0	16,531	0	231	207,000	1
1998	8	10	31,077		719,909	437.9	7	0	30,727	117	117		30,727	9		198	207	0.91		207,000	0	15,070	0	231	207,000	1
1998	8	10	31,077		720,262	437.9	7	0	30,724	117	117		30,724	9		198	207	0.91		207,000	0	15,070	0	231	207,000	1
1998	8	11	34,185		720,654	437.9	7	0	33,793	117	117		33,793	9		198	207	0.91		207,000	0	16,577	0	231	207,000	1
1998	9	10	39,911		717,251	437.9	10	0	43,314	117	117		43,314	9		198	207	0.91		207,000	0	21,238	0	231	207,000	0
1998	9	10	39,911		718,225	437.8	9	0	38,937	117	117		38,937	9		198	207	0.91		207,000	0	19,085	0	231	207,000	1
1998	9	10	39,911		719,210	437.9	9	0	38,926	117	117		38,926	9		198	207	0.91		207,000	0	19,085	0	231	207,000	1
1998	10	10	49,088	1,629	720,198	437.9	11	0	46,470	117	117		46,470	9		198	207	0.91		207,000	0	22,791	0	231	207,000	1
1998	10	10	49,088	1,629	716,950	437.8	12	0	50,707	117	117		50,707	9		198	207	0.91		207,000	0	24,861	0	231	207,000	1
1998	10	11	53,996	1,792	718,004	437.8	11	0	51,150	117	117		51,150	9		198	207	0.91		207,000	0	25,070	0	231	207,000	1
1998	11	10	27,393		720,068	437.9	6	0	25,329	117	117		25,329	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1998	11	10	27,393		717,909	437.9	7	0	29,551	117	117		29,551	9		198	207	0.91		207,000	0	14,490	0	231	207,000	1
1998	11	10	27,393		719,972	437.9	6	0	25,330	117	117		25,330	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1998	12	10	30,862		716,887	437.8	8	0	33,947	117	117		33,947	9		198	207	0.91		207,000	0	16,643	0	231	207,000	0
1998	12	10	30,862		719,373	437.8	7	0	28,376	117	117		28,376	9		198	207	0.91		207,000	0	13,910	0	231	207,000	0
1998	12	11	33,948		716,578	437.8	8	0	36,743	117	117		36,743	9		198	207	0.91		207,000	0	18,011	0	231	207,000	0

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (15/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for exsting (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1999	1	10	63,197		717,813	437.8	15	0	61,962	117	117		61,962	9		198	207	0.91		207,000	0	30,367	0	231	207,000	1
1999	1	10	63,197		719,069	437.8	15	0	61,941	117	117		61,941	9		198	207	0.91		207,000	0	30,367	0	231	207,000	1
1999	1	11	69,517		715,786	437.8	16	0	72,800	117	117		72,800	9		198	207	0.91		207,000	0	35,681	0	231	207,000	1
1999	2	10	28,287		718,732	437.8	6	0	25,342	117	117		25,342	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1999	2	10	28,287		717,460	437.8	7	0	29,559	117	117		29,559	9		198	207	0.91		207,000	0	14,490	0	231	207,000	1
1999	2	8	22,630		719,824	437.8	6	0	20,266	117	117		20,266	9		198	207	0.91		207,000	0	9,936	0	231	207,000	1
1999	3	10	20,385		719,104	437.9	5	0	21,105	117	117		21,105	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1
1999	3	10	20,385		718,380	437.9	5	0	21,110	117	117		21,110	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1
1999	3	11	22,424		717,578	437.8	5	0	23,225	117	117		23,225	9		198	207	0.91		207,000	0	11,385	0	231	207,000	1
1999	4	10	27,999		720,246	437.9	6	0	25,330	117	117		25,330	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1999	4	10	27,999		718,698	437.9	7	0	29,547	117	117		29,547	9		198	207	0.91		207,000	0	14,490	0	231	207,000	1
1999	4	10	27,999		717,137	437.8	7	0	29,560	117	117		29,560	9		198	207	0.91		207,000	0	14,490	0	231	207,000	1
1999	5	10	28,945		720,498	437.9	6	0	25,584	117	117		25,584	9		198	207	0.91		207,000	0	12,544	0	231	207,000	1
1999	5	10	28,945		719,648	437.9	7	0	29,795	117	117		29,795	9		198	207	0.91		207,000	0	14,614	0	231	207,000	1
1999	5	11	31,840		718,704	437.9	7	0	32,783	117	117		32,783	9		198	207	0.91		207,000	0	16,076	0	231	207,000	1
1999	6	10	82,078		717,725	437.8	20	0	83,057	117	117		83,057	9		198	207	0.91		207,000	0	40,717	0	231	207,000	1
1999	6	10	82,078		716,722	437.8	20	0	83,081	117	117		83,081	9		198	207	0.91		207,000	0	40,717	0	231	207,000	1
1999	6	10	82,078		715,695	437.7	20	0	83,105	117	117		83,105	9		198	207	0.91		207,000	0	40,717	0	231	207,000	1
1999	7	10	17,503		720,530	437.8	3	0	12,668	117	117		12,668	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1999	7	10	17,503		721,155	437.9	4	0	16,877	117	117		16,877	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1
1999	7	11	19,253		717,191	437.9	5	0	23,218	117	117		23,218	9		198	207	0.91		207,000	0	11,385	0	231	207,000	1
1999	8	10	10,730		715,246	437.7	3	0	12,675	117	117		12,675	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1999	8	10	10,730		713,294	437.6	3	0	12,682	117	117		12,682	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1999	8	11	11,803		711,139	437.6	3	0	13,958	117	117		13,958	9		198	207	0.91		207,000	0	6,831	0	231	207,000	1
1999	9	10	15,039		713,489	437.6	3	0	12,689	117	117		12,689	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1999	9	10	15,039		715,848	437.7	3	0	12,680	117	117		12,680	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1999	9	10	15,039		718,215	437.8	3	0	12,672	117	117		12,672	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
1999	10	10	28,352	1,629	719,608	437.9	6	0	25,330	117	117		25,330	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1999	10	10	28,352	1,629	721,011	437.9	6	0	25,320	117	117		25,320	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1999	10	11	31,187	1,792	717,905	437.9	7	0	32,502	117	117		32,502	9		198	207	0.91		207,000	0	15,939	0	231	207,000	1
1999	11	10	27,086		719,660	437.9	6	0	25,331	117	117		25,331	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1999	11	10	27,086		717,190	437.8	7	0	29,556	117	117		29,556	9		198	207	0.91		207,000	0	14,490	0	231	207,000	1
1999	11	10	27,086		718,940	437.8	6	0	25,336	117	117		25,336	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
1999	12	10	25,605		717,606	437.8	6	0	26,939	117	117		26,939	9		198	207	0.91		207,000	0	13,207	0	231	207,000	0
1999	12	10	25,605		721,092	437.9	5	0	22,119	117	117		22,119	9		198	207	0.91		207,000	0	10,847	0	231	207,000	0
1999	12	11	28,166		718,989	437.9	7	0	30,268	117	117		30,268	9		198	207	0.91		207,000	0	14,846	0	231	207,000	0

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (16/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
2000	1	10	25,586		719,247	437.9	6	0	25,329	117	117	25,329	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2000	1	10	25,586		719,506	437.9	6	0	25,327	117	117	25,327	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2000	1	11	28,145		719,793	437.9	6	0	27,857	117	117	27,857	9		198	207	0.91		207,000	0	13,662	0	231	207,000	1	
2000	2	10	41,818		717,618	437.8	10	0	43,993	117	117	43,993	9		198	207	0.91		207,000	0	21,569	0	231	207,000	1	
2000	2	10	41,818		719,665	437.8	9	0	39,771	117	117	39,771	9		198	207	0.91		207,000	0	19,499	0	231	207,000	1	
2000	2	9	37,636		717,707	437.8	10	0	39,594	117	117	39,594	9		198	207	0.91		207,000	0	19,412	0	231	207,000	1	
2000	3	10	24,570		721,172	437.9	5	0	21,105	117	117	21,105	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2000	3	10	24,570		720,426	437.9	6	0	25,317	117	117	25,317	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2000	3	11	27,027		719,598	437.9	6	0	27,855	117	117	27,855	9		198	207	0.91		207,000	0	13,662	0	231	207,000	1	
2000	4	10	25,107		719,379	437.9	6	0	25,326	117	117	25,326	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2000	4	10	25,107		719,158	437.9	6	0	25,328	117	117	25,328	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2000	4	10	25,107		718,936	437.9	6	0	25,329	117	117	25,329	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2000	5	10	9,463		715,728	437.8	3	0	12,671	117	117	12,671	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2000	5	10	9,463		712,509	437.6	3	0	12,682	117	117	12,682	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2000	5	11	10,410		708,955	437.5	3	0	13,964	118	118	13,964	9		197	207	0.91		207,000	0	6,831	0	231	207,000	1	
2000	6	10	19,115		715,381	437.6	3	0	12,689	117	117	12,689	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2000	6	10	19,115		717,598	437.7	4	0	16,898	117	117	16,898	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1	
2000	6	10	19,115		719,826	437.9	4	0	16,888	117	117	16,888	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1	
2000	7	10	12,787		719,951	437.9	3	0	12,661	117	117	12,661	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2000	7	10	12,787		720,077	437.9	3	0	12,661	117	117	12,661	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2000	7	11	14,066		720,216	437.9	3	0	13,927	117	117	13,927	9		198	207	0.91		207,000	0	6,831	0	231	207,000	1	
2000	8	10	41,729		717,999	437.9	10	0	43,945	117	117	43,945	9		198	207	0.91		207,000	0	21,549	0	231	207,000	1	
2000	8	10	41,729		720,003	437.9	9	0	39,725	117	117	39,725	9		198	207	0.91		207,000	0	19,479	0	231	207,000	1	
2000	8	11	45,901		717,560	437.9	10	0	48,344	117	117	48,344	9		198	207	0.91		207,000	0	23,704	0	231	207,000	1	
2000	9	10	24,126		720,578	437.9	5	0	21,108	117	117	21,108	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2000	9	10	24,126		719,381	437.9	6	0	25,323	117	117	25,323	9		198	207	0.91		207,000	0	12,420	0	231	207,000	0	
2000	9	10	24,126		718,175	437.9	6	0	25,331	117	117	25,331	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2000	10	10	32,539	1,629	718,430	437.8	7	0	30,655	117	117	30,655	9		198	207	0.91		207,000	0	15,028	0	231	207,000	1	
2000	10	10	32,539	1,629	718,687	437.8	7	0	30,653	117	117	30,653	9		198	207	0.91		207,000	0	15,028	0	231	207,000	1	
2000	10	11	35,792	1,792	718,972	437.9	7	0	33,715	117	117	33,715	9		198	207	0.91		207,000	0	16,531	0	231	207,000	1	
2000	11	10	30,481		718,973	437.9	7	0	30,480	117	117	30,480	9		198	207	0.91		207,000	0	14,945	0	231	207,000	1	
2000	11	10	30,481		718,974	437.9	7	0	30,480	117	117	30,480	9		198	207	0.91		207,000	0	14,945	0	231	207,000	1	
2000	11	10	30,481		718,975	437.9	7	0	30,480	117	117	30,480	9		198	207	0.91		207,000	0	14,945	0	231	207,000	1	
2000	12	10	28,349		719,166	437.9	7	0	28,157	117	117	28,157	9		198	207	0.91		207,000	0	13,807	0	231	207,000	0	
2000	12	10	28,349		719,274	437.9	7	0	28,241	117	117	28,241	9		198	207	0.91		207,000	0	13,848	0	231	207,000	0	
2000	12	11	31,184		719,627	437.9	7	0	30,831	117	117	30,831	9		198	207	0.91		207,000	0	15,119	0	231	207,000	0	

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (17/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
2001	1	10	34,214		717,489	437.8	9	0	36,352	117	117	36,352	9		198	207	0.91		207,000	0	17,823	0	231	207,000	1	
2001	1	10	34,214		719,572	437.8	8	0	32,131	117	117	32,131	9		198	207	0.91		207,000	0	15,753	0	231	207,000	1	
2001	1	11	37,635		717,218	437.8	9	0	39,990	117	117	39,990	9		198	207	0.91		207,000	0	19,605	0	231	207,000	1	
2001	2	10	26,417		718,297	437.8	6	0	25,338	117	117	25,338	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2001	2	10	26,417		719,384	437.9	6	0	25,331	117	117	25,331	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2001	2	8	21,134		720,259	437.9	6	0	20,259	117	117	20,259	9		198	207	0.91		207,000	0	9,936	0	231	207,000	1	
2001	3	10	9,903		717,497	437.9	3	0	12,665	117	117	12,665	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2001	3	10	9,903		714,725	437.7	3	0	12,675	117	117	12,675	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2001	3	11	10,893		711,663	437.6	3	0	13,954	117	117	13,954	9		198	207	0.91		207,000	0	6,831	0	231	207,000	1	
2001	4	10	26,920		717,449	437.7	5	0	21,135	117	117	21,135	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2001	4	10	26,920		719,034	437.8	6	0	25,335	117	117	25,335	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2001	4	10	26,920		720,631	437.9	6	0	25,324	117	117	25,324	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2001	5	10	12,820		720,792	437.9	3	0	12,658	117	117	12,658	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2001	5	10	12,820		720,953	437.9	3	0	12,658	117	117	12,658	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2001	5	11	14,101		721,132	438.0	3	0	13,923	117	117	13,923	9		198	207	0.91		207,000	0	6,831	0	231	207,000	1	
2001	6	10	10,653		719,124	437.9	3	0	12,661	117	117	12,661	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2001	6	10	10,653		717,109	437.8	3	0	12,668	117	117	12,668	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2001	6	10	10,653		715,087	437.7	3	0	12,675	117	117	12,675	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2001	7	10	24,312		718,277	437.8	5	0	21,122	117	117	21,122	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2001	7	10	24,312		717,250	437.8	6	0	25,338	117	117	25,338	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2001	7	11	26,743		720,774	437.9	5	0	23,219	117	117	23,219	9		198	207	0.91		207,000	0	11,385	0	231	207,000	1	
2001	8	10	17,453		721,351	438.0	4	0	16,876	117	117	16,876	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1	
2001	8	10	17,453		717,700	437.9	5	0	21,105	117	117	21,105	9		198	207	0.91		207,000	0	10,350	0	231	207,000	0	
2001	8	11	19,199		718,318	437.8	4	0	18,580	117	117	18,580	9		198	207	0.91		207,000	0	9,108	0	231	207,000	1	
2001	9	10	23,373		720,586	437.9	5	0	21,105	117	117	21,105	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2001	9	10	23,373		718,634	437.9	6	0	25,325	117	117	25,325	9		198	207	0.91		207,000	0	12,420	0	231	207,000	0	
2001	9	10	23,373		720,904	437.9	5	0	21,103	117	117	21,103	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2001	10	10	44,721	1,629	719,474	437.9	11	0	44,523	117	117	44,523	9		198	207	0.91		207,000	0	21,839	0	231	207,000	1	
2001	10	10	44,721	1,629	718,025	437.9	11	0	44,541	117	117	44,541	9		198	207	0.91		207,000	0	21,838	0	231	207,000	1	
2001	10	11	49,194	1,792	716,411	437.8	11	0	49,016	117	117	49,016	9		198	207	0.91		207,000	0	24,022	0	231	207,000	1	
2001	11	10	27,555		718,626	437.8	6	0	25,340	117	117	25,340	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2001	11	10	27,555		720,857	437.9	6	0	25,324	117	117	25,324	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2001	11	10	27,555		718,868	437.9	7	0	29,544	117	117	29,544	9		198	207	0.91		207,000	0	14,490	0	231	207,000	1	
2001	12	10	34,405		718,230	437.8	8	0	35,044	117	117	35,044	9		198	207	0.91		207,000	0	17,181	0	231	207,000	0	
2001	12	10	34,405		717,881	437.8	8	0	34,753	117	117	34,753	9		198	207	0.91		207,000	0	17,036	0	231	207,000	0	
2001	12	11	37,845		717,915	437.8	8	0	37,812	117	117	37,812	9		198	207	0.91		207,000	0	18,535	0	231	207,000	0	

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (18/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
2002	1	10	17,056		718,079	437.8	4	0	16,891	117	117	16,891	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1	
2002	1	10	17,056		718,245	437.8	4	0	16,890	117	117	16,890	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1	
2002	1	11	18,761		718,427	437.8	4	0	18,579	117	117	18,579	9		198	207	0.91		207,000	0	9,108	0	231	207,000	1	
2002	2	10	10,174		715,930	437.8	3	0	12,671	117	117	12,671	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2002	2	10	10,174		713,423	437.7	3	0	12,680	117	117	12,680	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2002	2	8	8,139		711,411	437.6	3	0	10,151	117	117	10,151	9		198	207	0.91		207,000	0	4,968	0	231	207,000	1	
2002	3	10	7,204		705,913	437.4	3	0	12,702	118	118	12,702	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1	
2002	3	10	7,204		700,394	437.1	3	0	12,722	118	118	12,722	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1	
2002	3	11	7,924		694,300	436.9	3	0	14,018	118	118	14,018	9		197	206	0.91		207,000	0	6,831	0	231	207,000	1	
2002	4	10	38,022		715,282	437.2	4	0	17,040	118	118	17,040	9		197	207	0.91		207,000	0	8,321	0	231	207,000	1	
2002	4	10	38,022		719,430	437.8	8	0	33,873	117	117	33,873	9		198	207	0.91		207,000	0	16,601	0	231	207,000	1	
2002	4	10	38,022		719,378	437.9	9	0	38,074	117	117	38,074	9		198	207	0.91		207,000	0	18,671	0	231	207,000	1	
2002	5	10	23,609		717,653	437.8	6	0	25,333	117	117	25,333	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2002	5	10	23,609		720,154	437.9	5	0	21,109	117	117	21,109	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2002	5	11	25,970		718,263	437.9	6	0	27,861	117	117	27,861	9		198	207	0.91		207,000	0	13,662	0	231	207,000	1	
2002	6	10	20,722		717,871	437.8	5	0	21,114	117	117	21,114	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2002	6	10	20,722		717,478	437.8	5	0	21,116	117	117	21,116	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2002	6	10	20,722		721,316	437.9	4	0	16,884	117	117	16,884	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1	
2002	7	10	10,126		718,781	437.9	3	0	12,661	117	117	12,661	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2002	7	10	10,126		716,237	437.8	3	0	12,670	117	117	12,670	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2002	7	11	11,139		713,428	437.7	3	0	13,948	117	117	13,948	9		198	207	0.91		207,000	0	6,831	0	231	207,000	1	
2002	8	10	19,617		720,373	437.8	3	0	12,672	117	117	12,672	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2002	8	10	19,617		718,887	437.9	5	0	21,104	117	117	21,104	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2002	8	11	21,579		717,241	437.8	5	0	23,225	117	117	23,225	9		198	207	0.91		207,000	0	11,385	0	231	207,000	1	
2002	9	10	22,844		718,971	437.8	5	0	21,113	117	117	21,113	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2002	9	10	22,844		720,712	437.9	5	0	21,103	117	117	21,103	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2002	9	10	22,844		718,230	437.9	6	0	25,326	117	117	25,326	9		198	207	0.91		207,000	0	12,420	0	231	207,000	0	
2002	10	10	23,648	1,629	719,138	437.8	5	0	21,110	117	117	21,110	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2002	10	10	23,648	1,629	720,053	437.9	5	0	21,104	117	117	21,104	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2002	10	11	26,012	1,792	721,065	437.9	5	0	23,208	117	117	23,208	9		198	207	0.91		207,000	0	11,385	0	231	207,000	1	
2002	11	10	48,622		718,448	437.9	12	0	51,239	117	117	51,239	9		198	207	0.91		207,000	0	25,130	0	231	207,000	1	
2002	11	10	48,622		720,045	437.9	11	0	47,025	117	117	47,025	9		198	207	0.91		207,000	0	23,060	0	231	207,000	1	
2002	11	10	48,622		717,413	437.9	12	0	51,254	117	117	51,254	9		198	207	0.91		207,000	0	25,130	0	231	207,000	1	
2002	12	10	37,214		718,989	437.8	8	0	35,638	117	117	35,638	9		198	207	0.91		207,000	0	17,471	0	231	207,000	0	
2002	12	10	37,214		719,860	437.9	9	0	36,344	117	117	36,344	9		198	207	0.91		207,000	0	17,823	0	231	207,000	0	
2002	12	11	40,936		716,063	437.8	10	0	44,733	117	117	44,733	9		198	207	0.91		207,000	0	21,928	0	231	207,000	0	



**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (19/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for exsting (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Exisging	Expansion	Exisging	Expansion	Exisging	Expansion	Exisging	Expansion	Exisging	Expansion			
2003	1	10	34,978		718,561	437.8	8	0	32,480	117	117		32,480	9		198	207	0.91		207,000	0	15,918	0	231	207,000	1
2003	1	10	34,978		716,841	437.8	9	0	36,699	117	117		36,699	9		198	207	0.91		207,000	0	17,988	0	231	207,000	1
2003	1	11	38,476		719,598	437.8	8	0	35,718	117	117		35,718	9		198	207	0.91		207,000	0	17,510	0	231	207,000	1
2003	2	10	18,746		717,233	437.8	5	0	21,111	117	117		21,111	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1
2003	2	10	18,746		719,088	437.8	4	0	16,890	117	117		16,890	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1
2003	2	8	14,997		720,579	437.9	4	0	13,506	117	117		13,506	9		198	207	0.91		207,000	0	6,624	0	231	207,000	1
2003	3	10	28,545		719,540	437.9	7	0	29,584	117	117		29,584	9		198	207	0.91		207,000	0	14,511	0	231	207,000	1
2003	3	10	28,545		718,492	437.9	7	0	29,593	117	117		29,593	9		198	207	0.91		207,000	0	14,511	0	231	207,000	1
2003	3	11	31,400		717,329	437.8	7	0	32,563	117	117		32,563	9		198	207	0.91		207,000	0	15,962	0	231	207,000	1
2003	4	10	29,618		721,070	437.9	6	0	25,877	117	117		25,877	9		198	207	0.91		207,000	0	12,689	0	231	207,000	1
2003	4	10	29,618		720,604	437.9	7	0	30,084	117	117		30,084	9		198	207	0.91		207,000	0	14,759	0	231	207,000	1
2003	4	10	29,618		720,134	437.9	7	0	30,088	117	117		30,088	9		198	207	0.91		207,000	0	14,759	0	231	207,000	1
2003	5	10	29,644		719,686	437.9	7	0	30,092	117	117		30,092	9		198	207	0.91		207,000	0	14,759	0	231	207,000	1
2003	5	10	29,644		719,233	437.9	7	0	30,096	117	117		30,096	9		198	207	0.91		207,000	0	14,759	0	231	207,000	1
2003	5	11	32,608		718,732	437.9	7	0	33,110	117	117		33,110	9		198	207	0.91		207,000	0	16,235	0	231	207,000	1
2003	6	10	6,910		712,966	437.7	3	0	12,676	117	117		12,676	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
2003	6	10	6,910		707,179	437.5	3	0	12,697	118	118		12,697	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
2003	6	10	6,910		701,371	437.2	3	0	12,718	118	118		12,718	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
2003	7	10	15,271		703,918	437.1	3	0	12,724	118	118		12,724	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
2003	7	10	15,271		706,474	437.2	3	0	12,715	118	118		12,715	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
2003	7	11	16,798		709,297	437.4	3	0	13,976	118	118		13,976	9		197	207	0.91		207,000	0	6,831	0	231	207,000	1
2003	8	10	28,126		720,517	437.7	4	0	16,906	117	117		16,906	9		198	207	0.91		207,000	0	8,280	0	231	207,000	1
2003	8	10	28,126		719,098	437.9	7	0	29,544	117	117		29,544	9		198	207	0.91		207,000	0	14,490	0	231	207,000	1
2003	8	11	30,939		717,525	437.8	7	0	32,513	117	117		32,513	9		198	207	0.91		207,000	0	15,939	0	231	207,000	1
2003	9	10	26,560		718,748	437.8	6	0	25,336	117	117		25,336	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
2003	9	10	26,560		719,981	437.9	6	0	25,327	117	117		25,327	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
2003	9	10	26,560		716,985	437.8	7	0	29,555	117	117		29,555	9		198	207	0.91		207,000	0	14,490	0	231	207,000	1
2003	10	10	9,582	1,629	712,258	437.7	3	0	12,681	117	117		12,681	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1
2003	10	10	9,582	1,629	707,513	437.4	3	0	12,698	118	118		12,698	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
2003	10	11	10,540	1,792	702,274	437.2	3	0	13,988	118	118		13,988	9		197	207	0.91		207,000	0	6,831	0	231	207,000	1
2003	11	10	13,720		703,270	437.1	3	0	12,724	118	118		12,724	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
2003	11	10	13,720		704,270	437.2	3	0	12,720	118	118		12,720	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
2003	11	10	13,720		705,274	437.2	3	0	12,716	118	118		12,716	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1
2003	12	10	6,448		698,995	437.1	3	0	12,726	118	118		12,726	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
2003	12	10	6,448		692,693	436.8	3	0	12,750	118	118		12,750	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1
2003	12	11	7,093		685,734	436.5	3	0	14,052	118	118		14,052	9		196	206	0.91		207,000	0	6,831	0	231	207,000	1

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (20/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
2004	1	10	8,206		681,144	436.2	3	0	12,796	118	118		12,796	9		196	206	0.91		207,000	0	6,210	0	231	207,000	1
2004	1	10	8,206		676,536	436.0	3	0	12,814	119	119		12,814	10		196	205	0.91		207,000	0	6,210	0	231	207,000	1
2004	1	11	9,027		671,447	435.8	3	0	14,116	119	119		14,116	10		196	205	0.91		207,000	0	6,831	0	231	207,000	1
2004	2	10	5,822		664,413	435.5	3	0	12,856	119	119		12,856	10		195	205	0.91		207,000	0	6,210	0	231	207,000	1
2004	2	10	5,822		657,351	435.2	3	0	12,884	119	119		12,884	10		195	205	0.91		207,000	0	6,210	0	231	207,000	1
2004	2	9	5,240		651,056	434.9	3	0	11,535	119	119		11,535	10		195	204	0.91		205,755	0	5,555	0	231	205,755	1
2004	3	10	6,555		644,768	434.6	3	0	12,843	119	119		12,843	10		194	204	0.91		205,729	0	6,172	0	231	205,729	1
2004	3	10	6,555		638,454	434.3	3	0	12,869	119	119		12,869	10		194	204	0.91		205,703	0	6,171	0	231	205,703	1
2004	3	11	7,211		631,478	434.0	3	0	14,186	119	119		14,186	10		194	203	0.91		205,674	0	6,787	0	231	205,674	1
2004	4	10	17,728		636,303	434.0	3	0	12,904	119	119		12,904	10		194	203	0.91		205,709	0	6,171	0	231	205,709	2
2004	4	10	17,728		641,147	434.2	3	0	12,884	119	119		12,884	10		194	204	0.91		205,728	0	6,172	0	231	205,728	1
2004	4	10	17,728		646,012	434.4	3	0	12,864	119	119		12,864	10		194	204	0.91		205,748	0	6,172	0	231	205,748	1
2004	5	10	21,804		654,980	434.7	3	0	12,836	119	119		12,836	10		195	204	0.91		205,789	0	6,174	0	231	205,789	1
2004	5	10	21,804		663,894	435.1	3	0	12,890	119	119		12,890	10		195	204	0.91		207,000	0	6,210	0	231	207,000	1
2004	5	11	23,985		673,741	435.6	3	0	14,138	119	119		14,138	10		195	205	0.91		207,000	0	6,831	0	231	207,000	1
2004	6	10	32,339		691,488	436.2	3	0	14,591	119	119		14,591	9		196	206	0.91		207,000	0	7,079	0	231	207,000	1
2004	6	10	32,339		709,312	437.0	3	0	14,515	118	118		14,515	9		197	206	0.91		207,000	0	7,079	0	231	207,000	1
2004	6	10	32,339		718,737	437.6	5	0	22,913	117	117		22,913	9		198	207	0.91		207,000	0	11,219	0	231	207,000	1
2004	7	10	30,590		718,803	437.9	7	0	30,524	117	117		30,524	9		198	207	0.91		207,000	0	14,966	0	231	207,000	1
2004	7	10	30,590		718,869	437.9	7	0	30,524	117	117		30,524	9		198	207	0.91		207,000	0	14,966	0	231	207,000	1
2004	7	11	33,649		718,942	437.9	7	0	33,575	117	117		33,575	9		198	207	0.91		207,000	0	16,463	0	231	207,000	1
2004	8	10	22,115		719,952	437.9	5	0	21,105	117	117		21,105	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1
2004	8	10	22,115		720,969	437.9	5	0	21,099	117	117		21,099	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1
2004	8	11	24,327		717,434	437.9	6	0	27,861	117	117		27,861	9		198	207	0.91		207,000	0	13,662	0	231	207,000	1
2004	9	10	25,837		717,933	437.8	6	0	25,339	117	117		25,339	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
2004	9	10	25,837		718,435	437.8	6	0	25,335	117	117		25,335	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
2004	9	10	25,837		718,940	437.8	6	0	25,332	117	117		25,332	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1
2004	10	10	40,463	1,629	719,359	437.9	9	0	38,415	117	117		38,415	9		198	207	0.91		207,000	0	18,837	0	231	207,000	1
2004	10	10	40,463	1,629	719,783	437.9	9	0	38,410	117	117		38,410	9		198	207	0.91		207,000	0	18,837	0	231	207,000	1
2004	10	11	44,509	1,792	720,255	437.9	9	0	42,246	117	117		42,246	9		198	207	0.91		207,000	0	20,721	0	231	207,000	1
2004	11	10	42,044		718,228	437.9	10	0	44,070	117	117		44,070	9		198	207	0.91		207,000	0	21,611	0	231	207,000	1
2004	11	10	42,044		720,423	437.9	9	0	39,848	117	117		39,848	9		198	207	0.91		207,000	0	19,541	0	231	207,000	1
2004	11	10	42,044		718,398	437.9	10	0	44,068	117	117		44,068	9		198	207	0.91		207,000	0	21,611	0	231	207,000	1
2004	12	10	61,758		716,211	437.8	15	0	63,946	117	117		63,946	9		198	207	0.91		207,000	0	31,340	0	231	207,000	0
2004	12	10	61,758		719,225	437.8	14	0	58,744	117	117		58,744	9		198	207	0.91		207,000	0	28,794	0	231	207,000	0
2004	12	11	67,934		716,739	437.8	15	0	70,420	117	117		70,420	9		198	207	0.91		207,000	0	34,519	0	231	207,000	0

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (21/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
2005	1	10	22,245		717,866	437.8	5	0	21,118	117	117	21,118	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2005	1	10	22,245		719,000	437.8	5	0	21,111	117	117	21,111	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2005	1	11	24,470		720,254	437.9	5	0	23,215	117	117	23,215	9		198	207	0.91		207,000	0	11,385	0	231	207,000	1	
2005	2	10	20,069		719,219	437.9	5	0	21,104	117	117	21,104	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2005	2	10	20,069		718,178	437.8	5	0	21,110	117	117	21,110	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2005	2	8	16,055		720,726	437.9	4	0	13,507	117	117	13,507	9		198	207	0.91		207,000	0	6,624	0	231	207,000	1	
2005	3	10	8,271		716,331	437.8	3	0	12,666	117	117	12,666	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2005	3	10	8,271		711,919	437.6	3	0	12,682	117	117	12,682	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2005	3	11	9,098		707,049	437.4	3	0	13,969	118	118	13,969	9		197	207	0.91		207,000	0	6,831	0	231	207,000	1	
2005	4	10	11,320		705,658	437.3	3	0	12,711	118	118	12,711	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1	
2005	4	10	11,320		704,261	437.2	3	0	12,716	118	118	12,716	9		197	207	0.91		207,000	0	6,210	0	231	207,000	1	
2005	4	10	11,320		702,860	437.2	3	0	12,721	118	118	12,721	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1	
2005	5	10	11,430		701,564	437.1	3	0	12,726	118	118	12,726	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1	
2005	5	10	11,430		700,263	437.0	3	0	12,731	118	118	12,731	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1	
2005	5	11	12,573		698,827	437.0	3	0	14,009	118	118	14,009	9		197	206	0.91		207,000	0	6,831	0	231	207,000	1	
2005	6	10	11,555		697,641	436.9	3	0	12,741	118	118	12,741	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1	
2005	6	10	11,555		696,450	436.9	3	0	12,745	118	118	12,745	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1	
2005	6	10	11,555		695,255	436.8	3	0	12,750	118	118	12,750	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1	
2005	7	10	13,891		696,396	436.8	3	0	12,750	118	118	12,750	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1	
2005	7	10	13,891		697,541	436.9	3	0	12,745	118	118	12,745	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1	
2005	7	11	15,280		698,806	436.9	3	0	14,015	118	118	14,015	9		197	206	0.91		207,000	0	6,831	0	231	207,000	1	
2005	8	10	9,346		695,407	436.9	3	0	12,745	118	118	12,745	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1	
2005	8	10	9,346		691,995	436.7	3	0	12,758	118	118	12,758	9		197	206	0.91		207,000	0	6,210	0	231	207,000	1	
2005	8	11	10,280		688,227	436.5	3	0	14,048	118	118	14,048	9		196	206	0.91		207,000	0	6,831	0	231	207,000	1	
2005	9	10	39,618		710,098	437.0	4	0	17,747	118	118	17,747	9		197	206	0.91		207,000	0	8,653	0	231	207,000	1	
2005	9	10	39,618		719,369	437.7	7	0	30,348	117	117	30,348	9		198	207	0.91		207,000	0	14,863	0	231	207,000	1	
2005	9	10	39,618		720,242	437.9	9	0	38,745	117	117	38,745	9		198	207	0.91		207,000	0	19,003	0	231	207,000	1	
2005	10	10	31,103	1,629	719,709	437.9	7	0	30,007	117	117	30,007	9		198	207	0.91		207,000	0	14,718	0	231	207,000	1	
2005	10	10	31,103	1,629	719,172	437.9	7	0	30,012	117	117	30,012	9		198	207	0.91		207,000	0	14,718	0	231	207,000	1	
2005	10	11	34,214	1,792	718,575	437.9	7	0	33,018	117	117	33,018	9		198	207	0.91		207,000	0	16,189	0	231	207,000	1	
2005	11	10	76,584		718,784	437.8	18	0	76,376	117	117	76,376	9		198	207	0.91		207,000	0	37,446	0	231	207,000	1	
2005	11	10	76,584		718,997	437.9	18	0	76,371	117	117	76,371	9		198	207	0.91		207,000	0	37,446	0	231	207,000	1	
2005	11	10	76,584		719,215	437.9	18	0	76,366	117	117	76,366	9		198	207	0.91		207,000	0	37,446	0	231	207,000	1	
2005	12	10	41,213		717,996	437.8	10	0	42,432	117	117	42,432	9		198	207	0.91		207,000	0	20,804	0	231	207,000	0	
2005	12	10	41,213		717,273	437.8	10	0	41,937	117	117	41,937	9		198	207	0.91		207,000	0	20,555	0	231	207,000	0	
2005	12	11	45,334		717,074	437.8	10	0	45,532	117	117	45,532	9		198	207	0.91		207,000	0	22,315	0	231	207,000	0	

**Table 2-1 Calculation of Annual Energy without Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (22/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
2006	1	10	46,121		717,283	437.8	11	0	45,912	117	117	45,912	9		198	207	0.91		207,000	0	22,501	0	231	207,000	1	
2006	1	10	46,121		717,494	437.8	11	0	45,910	117	117	45,910	9		198	207	0.91		207,000	0	22,501	0	231	207,000	1	
2006	1	11	50,733		717,730	437.8	11	0	50,497	117	117	50,497	9		198	207	0.91		207,000	0	24,751	0	231	207,000	1	
2006	2	10	24,584		721,209	437.9	5	0	21,105	117	117	21,105	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2006	2	10	24,584		720,477	437.9	6	0	25,316	117	117	25,316	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2006	2	8	19,667		719,888	437.9	6	0	20,257	117	117	20,257	9		198	207	0.91		207,000	0	9,936	0	231	207,000	1	
2006	3	10	30,380		719,838	437.9	7	0	30,430	117	117	30,430	9		198	207	0.91		207,000	0	14,925	0	231	207,000	1	
2006	3	10	30,380		719,787	437.9	7	0	30,431	117	117	30,431	9		198	207	0.91		207,000	0	14,925	0	231	207,000	1	
2006	3	11	33,418		719,732	437.9	7	0	33,474	117	117	33,474	9		198	207	0.91		207,000	0	16,417	0	231	207,000	1	
2006	4	10	24,935		719,341	437.9	6	0	25,326	117	117	25,326	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2006	4	10	24,935		718,947	437.9	6	0	25,329	117	117	25,329	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2006	4	10	24,935		718,551	437.9	6	0	25,331	117	117	25,331	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2006	5	10	23,417		720,865	437.9	5	0	21,103	117	117	21,103	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2006	5	10	23,417		718,959	437.9	6	0	25,323	117	117	25,323	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2006	5	11	25,759		716,846	437.8	6	0	27,871	117	117	27,871	9		198	207	0.91		207,000	0	13,662	0	231	207,000	1	
2006	6	10	26,476		717,981	437.8	6	0	25,341	117	117	25,341	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2006	6	10	26,476		719,124	437.8	6	0	25,333	117	117	25,333	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2006	6	10	26,476		720,276	437.9	6	0	25,325	117	117	25,325	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2006	7	10	34,267		718,154	437.9	9	0	36,388	117	117	36,388	9		198	207	0.91		207,000	0	17,843	0	231	207,000	1	
2006	7	10	34,267		720,254	437.9	8	0	32,167	117	117	32,167	9		198	207	0.91		207,000	0	15,773	0	231	207,000	1	
2006	7	11	37,693		717,920	437.9	9	0	40,028	117	117	40,028	9		198	207	0.91		207,000	0	19,628	0	231	207,000	1	
2006	8	10	14,036		719,289	437.8	3	0	12,666	117	117	12,666	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2006	8	10	14,036		720,664	437.9	3	0	12,661	117	117	12,661	9		198	207	0.91		207,000	0	6,210	0	231	207,000	1	
2006	8	11	15,439		717,528	437.9	4	0	18,575	117	117	18,575	9		198	207	0.91		207,000	0	9,108	0	231	207,000	1	
2006	9	10	22,422		718,838	437.8	5	0	21,113	117	117	21,113	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2006	9	10	22,422		720,155	437.9	5	0	21,105	117	117	21,105	9		198	207	0.91		207,000	0	10,350	0	231	207,000	1	
2006	9	10	22,422		717,246	437.8	6	0	25,332	117	117	25,332	9		198	207	0.91		207,000	0	12,420	0	231	207,000	1	
2006	10	10	43,528	1,629	719,327	437.8	9	0	39,818	117	117	39,818	9		198	207	0.91		207,000	0	19,520	0	231	207,000	1	
2006	10	10	43,528	1,629	717,186	437.8	10	0	44,040	117	117	44,040	9		198	207	0.91		207,000	0	21,590	0	231	207,000	1	
2006	10	11	47,881	1,792	719,476	437.8	9	0	43,799	117	117	43,799	9		198	207	0.91		207,000	0	21,472	0	231	207,000	1	
2006	11	10	158,385		722,000	437.9	24	54,591	101,270	117	117	155,861	9		198	207	0.91		207,000	0	49,680	0	231	207,000	1	
2006	11	10	158,385		722,000	438.0	24	57,152	101,233	117	117	158,385	9		198	207	0.91		207,000	0	49,680	0	231	207,000	0	
2006	11	10	158,385		722,000	438.0	24	57,152	101,233	117	117	158,385	9		198	207	0.91		207,000	0	49,680	0	231	207,000	0	
2006	12	10	65,814		716,261	437.9	17	0	71,553	117	117	71,553	9		198	207	0.91		207,000	0	35,087	0	231	207,000	0	
2006	12	10	65,814		717,274	437.8	15	0	64,800	117	117	64,800	9		198	207	0.91		207,000	0	31,754	0	231	207,000	0	
2006	12	11	72,395		718,130	437.8	15	0	71,540	117	117	71,540	9		198	207	0.91		207,000	0	35,066	0	231	207,000	0	

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (1/22)**

Victoria Reservoir Ini	512240	Randenigala Reservoir Ini	860000	Peak hour	3	Normal WL	430
Victoria Reservoir Max	722000	Randenigala Reservoir Max	860000	Max output	435	Normal WL exist	435
Vicotira Resv MOL	32000	Vicotira Resv MOL	5000	Max for expansion	228	tailwater level	varies
Peak hour	3	Firm plant discharge	263	Max Q for existing	123		
Victoria Energy	12,581,553	Randenigala Energy	0	Max Q for expansion	140		
Victoria Annual Energy	572	Average hours	4.295	Total Energy	12,581,553		
Dependable power	351,753	Average power	364	Firm Energy	399		

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode	
									Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion				
				162.9	512,240	434.2		4					4	14													
1985	1	10	19,285		509,476	427.9	3	0	22,049	204	80	124	22,049	4	12	193	185	0.90	0.92	136,677	205,996	4,100	6,180	231	342,672	3	
1985	1	10	19,285		506,780	427.8	3	0	21,981	204	80	123	21,981	4	12	193	185	0.90	0.92	136,671	204,769	4,100	6,143	231	341,440	3	
1985	1	11	21,213		503,891	427.6	3	0	24,102	203	80	122	24,102	4	12	192	185	0.90	0.92	136,663	203,514	4,510	6,716	231	340,177	3	
1985	2	10	9,800		491,965	427.2	3	0	21,727	201	81	120	21,727	4	12	192	185	0.90	0.92	136,646	200,185	4,099	6,006	231	336,830	3	
1985	2	10	9,800		480,332	426.5	3	0	21,434	198	81	117	21,434	4	11	191	185	0.90	0.92	136,620	194,887	4,099	5,847	231	331,507	3	
1985	2	8	7,840		471,230	425.9	3	0	16,942	196	81	115	16,942	4	10	191	185	0.90	0.92	136,615	190,222	3,279	4,565	231	326,837	3	
1985	3	10	9,741		457,094	425.2	3	0	23,877	221	82	139	23,877	5	15	190	179	0.90	0.90	136,607	221,293	4,098	6,639	231	357,901	3	
1985	3	10	9,741		442,912	424.4	3	0	23,922	222	82	140	23,922	5	15	189	178	0.90	0.90	136,388	220,396	4,092	6,612	231	356,785	3	
1985	3	11	10,715		427,295	423.5	3	0	26,332	222	82	140	26,332	5	15	188	177	0.90	0.90	135,662	219,471	4,477	7,243	231	355,133	3	
1985	4	10	8,285		411,604	422.6	3	0	23,976	222	82	140	23,976	5	16	187	176	0.90	0.90	134,899	218,741	4,047	6,562	231	353,640	3	
1985	4	10	8,285		395,913	421.7	3	0	23,976	222	82	140	23,976	5	16	186	175	0.90	0.90	134,135	217,554	4,024	6,527	231	351,688	3	
1985	4	10	8,285		380,222	420.8	3	0	23,976	222	82	140	23,976	5	16	185	174	0.89	0.90	133,370	216,364	4,001	6,491	231	349,734	3	
1985	5	10	28,142		384,388	420.4	3	0	23,976	222	82	140	23,976	5	16	185	174	0.89	0.90	133,090	215,926	3,993	6,478	231	349,016	3	
1985	5	10	28,142		388,555	420.7	3	0	23,976	222	82	140	23,976	5	16	185	174	0.89	0.90	133,292	216,243	3,999	6,487	231	349,535	3	
1985	5	11	30,957		393,138	420.9	3	0	26,374	222	82	140	26,374	5	16	185	174	0.89	0.90	133,506	216,575	4,406	7,147	231	350,081	3	
1985	6	10	188,660		557,822	425.9	3	0	23,976	222	82	140	23,976	5	16	190	179	0.90	0.90	137,629	222,959	4,129	6,689	231	360,588	3	
1985	6	10	188,660		715,843	434.1	4	0	30,639	213	78	135	30,639	4	14	199	189	0.91	0.91	138,094	228,000	5,524	9,120	231	366,094	2	
1985	6	10	188,660		722,000	437.9	24	3,156	179,346	208	76	131	182,502	4	14	203	193	0.91	0.91	138,000	228,000	33,120	54,720	231	366,000	1	
1985	7	10	107,730		714,783	437.8	15	0	114,948	208	76	132	114,948	4	14	203	193	0.91	0.91	138,000	228,000	21,224	35,066	231	366,000	0	
1985	7	10	107,730		714,932	437.7	14	0	107,581	208	76	132	107,581	4	14	203	193	0.91	0.91	138,000	228,000	19,844	32,786	231	366,000	1	
1985	7	11	118,503		715,102	437.7	14	0	118,333	208	76	132	118,333	4	14	203	193	0.91	0.91	138,000	228,000	21,829	36,065	231	366,000	1	
1985	8	10	40,572		716,107	437.7	5	0	39,568	208	76	132	39,568	4	14	203	193	0.91	0.91	138,000	228,000	7,300	12,061	231	366,000	1	
1985	8	10	40,572		717,123	437.8	5	0	39,556	208	76	132	39,556	4	14	203	193	0.91	0.91	138,000	228,000	7,300	12,061	231	366,000	1	
1985	8	11	44,630		718,254	437.8	5	0	43,499	208	76	132	43,499	4	14	203	193	0.91	0.91	138,000	228,000	8,030	13,267	231	366,000	1	
1985	9	10	12,921		708,723	437.6	3	0	22,453	208	76	132	22,453	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1	
1985	9	10	12,921		699,132	437.2	3	0	22,512	208	76	132	22,512	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1	
1985	9	10	12,921		689,480	436.7	3	0	22,573	209	77	132	22,573	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1	
1985	10	10	55,264	1,629	700,536	436.8	6	0	42,579	209	77	132	42,579	4	14	202	192	0.91	0.91	138,000	228,000	7,811	12,905	231	366,000	1	
1985	10	10	55,264	1,629	711,724	437.3	6	0	42,447	208	76	132	42,447	4	14	202	193	0.91	0.91	138,000	228,000	7,811	12,905	231	366,000	1	
1985	10	11	60,790	1,792	715,898	437.6	7	0	54,824	208	76	132	54,824	4	14	203	193	0.91	0.91	138,000	228,000	10,110	16,703	231	366,000	1	
1985	11	10	86,393		711,589	437.6	12	0	90,702	208	76	132	90,702	4	14	203	193	0.91	0.91	138,000	228,000	16,726	27,634	231	366,000	1	
1985	11	10	86,393		714,751	437.6	11	0	83,231	208	76	132	83,231	4	14	203	193	0.91	0.91	138,000	228,000	15,346	25,354	231	366,000	1	
1985	11	10	86,393		717,988	437.7	11	0	83,156	208	76	132	83,156	4	14	203	193	0.91	0.91	138,000	228,000	15,346	25,354	231	366,000	1	
1985	12	10	36,721		713,949	437.7	5	0	40,760	208	76	132	40,760	4	14	203	193	0.91	0.91	138,000	228,000	7,521	12,426	231	366,000	0	
1985	12	10	36,721		720,615	437.8	4	0	30,054	208	76	132	30,054	4	14	203	193	0.91	0.91	138,000	228,000	5,548	9,166	231	366,000	0	
1985	12	11	40,393		714,548	437.8	6	0	46,461	208	76	132	46,461	4	14	203	193	0.91	0.91	138,000	228,000	8,577	14,170	231	366,000	0	

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (2/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1986	1	10	97,500		712,509	437.6	13	0	99,538	208	76	132	99,538	4	14	203	193	0.91	0.91	138,000	228,000	18,354	30,324	231	366,000	1
1986	1	10	97,500		717,999	437.7	12	0	92,009	208	76	132	92,009	4	14	203	193	0.91	0.91	138,000	228,000	16,974	28,044	231	366,000	1
1986	1	11	107,249		715,862	437.8	13	0	109,387	208	76	132	109,387	4	14	203	193	0.91	0.91	138,000	228,000	20,189	33,356	231	366,000	1
1986	2	10	43,097		717,459	437.8	6	0	41,500	208	76	132	41,500	4	14	203	193	0.91	0.91	138,000	228,000	7,659	12,654	231	366,000	1
1986	2	10	43,097		719,074	437.8	6	0	41,481	208	76	132	41,481	4	14	203	193	0.91	0.91	138,000	228,000	7,659	12,654	231	366,000	1
1986	2	8	34,478		720,381	437.9	6	0	33,172	208	76	131	33,172	4	14	203	193	0.91	0.91	138,000	228,000	6,127	10,123	231	366,000	1
1986	3	10	37,370		713,262	437.8	6	0	44,489	208	76	132	44,489	4	14	203	193	0.91	0.91	138,000	228,000	8,211	13,566	231	366,000	1
1986	3	10	37,370		713,584	437.6	5	0	37,047	208	76	132	37,047	4	14	203	193	0.91	0.91	138,000	228,000	6,831	11,286	231	366,000	1
1986	3	11	41,107		713,943	437.6	5	0	40,748	208	76	132	40,748	4	14	203	193	0.91	0.91	138,000	228,000	7,514	12,415	231	366,000	1
1986	4	10	52,014		717,415	437.7	6	0	48,542	208	76	132	48,542	4	14	203	193	0.91	0.91	138,000	228,000	8,956	14,797	231	366,000	1
1986	4	10	52,014		713,403	437.7	7	0	56,026	208	76	132	56,026	4	14	203	193	0.91	0.91	138,000	228,000	10,336	17,077	231	366,000	1
1986	4	10	52,014		716,867	437.7	6	0	48,550	208	76	132	48,550	4	14	203	193	0.91	0.91	138,000	228,000	8,956	14,797	231	366,000	1
1986	5	10	27,751		714,701	437.7	4	0	29,917	208	76	132	29,917	4	14	203	193	0.91	0.91	138,000	228,000	5,520	9,120	231	366,000	1
1986	5	10	27,751		720,024	437.8	3	0	22,428	208	76	132	22,428	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1986	5	11	30,526		717,669	437.9	4	0	32,881	208	76	132	32,881	4	14	203	193	0.91	0.91	138,000	228,000	6,072	10,032	231	366,000	1
1986	6	10	16,038		711,261	437.7	3	0	22,446	208	76	132	22,446	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1986	6	10	16,038		704,813	437.4	3	0	22,487	208	76	132	22,487	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1986	6	10	16,038		698,325	437.1	3	0	22,527	209	76	132	22,527	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1986	7	10	13,178		688,926	436.7	3	0	22,577	209	77	132	22,577	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1986	7	10	13,178		679,466	436.3	3	0	22,638	210	77	133	22,638	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1986	7	11	14,496		668,988	435.8	3	0	24,974	210	77	133	24,974	4	14	201	191	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1986	8	10	44,246		677,883	435.8	5	0	35,350	210	77	133	35,350	4	14	201	191	0.91	0.91	138,000	228,000	6,445	10,648	231	366,000	1
1986	8	10	44,246		686,871	436.2	5	0	35,258	210	77	133	35,258	4	14	201	191	0.91	0.91	138,000	228,000	6,445	10,648	231	366,000	1
1986	8	11	48,670		696,862	436.6	5	0	38,679	209	77	133	38,679	4	14	202	192	0.91	0.91	138,000	228,000	7,089	11,712	231	366,000	1
1986	9	10	55,351		708,298	437.1	6	0	43,915	209	76	132	43,915	4	14	202	192	0.91	0.91	138,000	228,000	8,073	13,338	231	366,000	1
1986	9	10	55,351		719,874	437.6	6	0	43,775	208	76	132	43,775	4	14	203	193	0.91	0.91	138,000	228,000	8,073	13,338	231	366,000	1
1986	9	10	55,351		716,553	437.8	8	0	58,673	208	76	132	58,673	4	14	203	193	0.91	0.91	138,000	228,000	10,833	17,898	231	366,000	1
1986	10	10	99,378	1,629	714,672	437.7	13	0	99,629	208	76	132	99,629	4	14	203	193	0.91	0.91	138,000	228,000	18,382	30,370	231	366,000	1
1986	10	10	99,378	1,629	712,738	437.6	13	0	99,683	208	76	132	99,683	4	14	203	193	0.91	0.91	138,000	228,000	18,382	30,370	231	366,000	1
1986	10	11	109,316	1,792	710,547	437.5	13	0	109,715	208	76	132	109,715	4	14	203	193	0.91	0.91	138,000	228,000	20,220	33,407	231	366,000	1
1986	11	10	62,541		716,131	437.6	8	0	56,957	208	76	132	56,957	4	14	203	193	0.91	0.91	138,000	228,000	10,502	17,351	231	366,000	1
1986	11	10	62,541		714,264	437.7	9	0	64,408	208	76	132	64,408	4	14	203	193	0.91	0.91	138,000	228,000	11,882	19,631	231	366,000	1
1986	11	10	62,541		719,908	437.8	8	0	56,897	208	76	132	56,897	4	14	203	193	0.91	0.91	138,000	228,000	10,502	17,351	231	366,000	1
1986	12	10	16,300		713,776	437.8	3	0	22,431	208	76	132	22,431	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	0
1986	12	10	16,300		707,606	437.5	3	0	22,470	208	76	132	22,470	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	0
1986	12	11	17,930		700,775	437.2	3	0	24,762	208	76	132	24,762	4	14	202	192	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (3/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillout or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1987	1	10	13,742		691,958	436.8	3	0	22,560	209	77	132	22,560	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1987	1	10	13,742		683,084	436.4	3	0	22,616	209	77	133	22,616	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1987	1	11	15,117		673,255	436.0	3	0	24,945	210	77	133	24,945	4	14	201	191	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1987	2	10	5,515		656,002	435.4	3	0	22,768	211	77	134	22,768	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1987	2	10	5,515		638,638	434.6	3	0	22,880	212	77	134	22,880	4	14	200	189	0.91	0.91	137,813	228,000	4,134	6,840	231	365,813	1
1987	2	8	4,412		624,651	433.9	3	0	18,398	213	78	135	18,398	4	15	199	188	0.91	0.91	137,797	228,000	3,307	5,472	231	365,797	2
1987	3	10	4,288		605,813	433.1	3	0	23,126	214	78	136	23,126	4	15	198	188	0.91	0.91	137,765	228,000	4,133	6,840	231	365,765	2
1987	3	10	4,288		586,822	432.3	3	0	23,279	216	79	137	23,279	4	15	197	186	0.91	0.91	137,738	228,000	4,132	6,840	231	365,738	2
1987	3	11	4,717		565,744	431.4	3	0	25,794	217	79	138	25,794	4	15	196	185	0.90	0.91	137,705	228,000	4,544	7,524	231	365,705	2
1987	4	10	10,776		552,920	430.6	3	0	23,600	219	80	139	23,600	4	15	195	184	0.90	0.91	137,695	228,000	4,131	6,840	231	365,695	2
1987	4	10	10,776		540,084	430.0	3	0	23,611	219	80	139	23,611	4	15	195	184	0.90	0.91	137,679	226,874	4,130	6,806	231	364,553	2
1987	4	10	10,776		527,359	429.3	3	0	23,501	218	80	137	23,501	4	15	194	183	0.90	0.91	137,630	224,269	4,129	6,728	231	361,899	2
1987	5	10	16,459		520,212	428.7	3	0	23,606	219	81	138	23,606	4	15	193	183	0.90	0.91	137,668	224,191	4,130	6,726	231	361,859	2
1987	5	10	16,459		512,993	428.3	3	0	23,678	219	81	138	23,678	4	15	193	182	0.90	0.91	137,699	224,109	4,131	6,723	231	361,807	2
1987	5	11	18,105		504,967	427.8	3	0	26,130	220	81	139	26,130	4	15	192	182	0.90	0.91	137,727	224,012	4,545	7,392	231	361,739	2
1987	6	10	19,301		500,445	427.4	3	0	23,822	221	81	139	23,822	4	15	192	181	0.90	0.91	137,764	224,090	4,133	6,723	231	361,854	2
1987	6	10	19,301		495,877	427.2	3	0	23,869	221	81	140	23,869	4	15	192	181	0.90	0.91	137,783	224,129	4,133	6,724	231	361,912	2
1987	6	10	19,301		491,261	426.9	3	0	23,916	221	82	140	23,916	4	16	192	180	0.90	0.91	137,802	224,167	4,134	6,725	231	361,969	2
1987	7	10	15,392		482,704	426.5	3	0	23,950	222	82	140	23,950	5	16	191	180	0.90	0.91	137,802	223,821	4,134	6,715	231	361,624	2
1987	7	10	15,392		474,120	426.0	3	0	23,976	222	82	140	23,976	5	16	191	180	0.90	0.91	137,772	223,179	4,133	6,695	231	360,950	2
1987	7	11	16,932		464,678	425.5	3	0	26,374	222	82	140	26,374	5	16	190	179	0.90	0.90	137,332	222,503	4,532	7,343	231	359,835	2
1987	8	10	18,529		459,231	425.1	3	0	23,976	222	82	140	23,976	5	16	190	179	0.90	0.90	136,970	221,944	4,109	6,658	231	358,914	3
1987	8	10	18,529		453,785	424.8	3	0	23,976	222	82	140	23,976	5	16	189	178	0.90	0.90	136,704	221,535	4,101	6,646	231	358,239	3
1987	8	11	20,382		447,793	424.4	3	0	26,374	222	82	140	26,374	5	16	189	178	0.90	0.90	136,426	221,104	4,502	7,296	231	357,530	3
1987	9	10	61,643		488,432	425.4	3	0	21,004	194	82	113	21,004	4	10	190	184	0.90	0.92	136,582	187,027	4,097	5,611	231	323,609	3
1987	9	10	61,643		528,071	427.8	3	0	22,004	204	80	123	22,004	4	12	193	185	0.90	0.92	136,671	205,099	4,100	6,153	231	341,770	3
1987	9	10	61,643		566,852	430.0	3	0	22,862	212	78	133	22,862	4	14	195	185	0.90	0.91	134,972	219,922	4,049	6,598	231	354,894	3
1987	10	10	98,035	1,629	640,019	432.6	3	0	23,239	215	79	137	23,239	4	15	198	187	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	3
1987	10	10	98,035	1,629	713,738	435.9	3	0	22,686	210	77	133	22,686	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	2
1987	10	11	107,838	1,792	711,249	437.6	13	0	108,536	208	76	132	108,536	4	14	203	193	0.91	0.91	138,000	228,000	20,007	33,055	231	366,000	1
1987	11	10	67,452		717,948	437.7	8	0	60,752	208	76	132	60,752	4	14	203	193	0.91	0.91	138,000	228,000	11,206	18,514	231	366,000	1
1987	11	10	67,452		717,223	437.8	9	0	68,177	208	76	132	68,177	4	14	203	193	0.91	0.91	138,000	228,000	12,586	20,794	231	366,000	1
1987	11	10	67,452		716,484	437.8	9	0	68,191	208	76	132	68,191	4	14	203	193	0.91	0.91	138,000	228,000	12,586	20,794	231	366,000	1
1987	12	10	24,717		718,625	437.8	3	0	22,576	208	76	132	22,576	4	14	203	193	0.91	0.91	138,000	228,000	4,168	6,886	231	366,000	0
1987	12	10	24,717		719,054	437.9	3	0	24,287	208	76	132	24,287	4	14	203	193	0.91	0.91	138,000	228,000	4,485	7,410	231	366,000	0
1987	12	11	27,188		719,696	437.9	3	0	26,547	208	76	131	26,547	4	14	203	193	0.91	0.91	138,000	228,000	4,903	8,101	231	366,000	0

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (4/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1988	1	10	6,889		704,122	437.5	3	0	22,463	208	76	132	22,463	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1988	1	10	6,889		688,451	436.8	3	0	22,560	209	77	132	22,560	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1988	1	11	7,578		671,096	436.1	3	0	24,934	210	77	133	24,934	4	14	201	191	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1988	2	10	5,431		653,743	435.3	3	0	22,784	211	77	134	22,784	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1988	2	10	5,431		636,277	434.5	3	0	22,897	212	77	135	22,897	4	14	200	189	0.91	0.91	137,809	228,000	4,134	6,840	231	365,809	1
1988	2	9	4,888		620,444	433.7	3	0	20,721	213	78	135	20,721	4	15	199	188	0.91	0.91	137,789	228,000	3,720	6,156	231	365,789	2
1988	3	10	9,656		606,962	433.1	3	0	23,139	214	78	136	23,139	4	15	198	187	0.91	0.91	137,772	228,000	4,133	6,840	231	365,772	2
1988	3	10	9,656		593,369	432.4	3	0	23,248	215	79	137	23,248	4	15	197	187	0.91	0.91	137,752	228,000	4,133	6,840	231	365,752	2
1988	3	11	10,621		578,287	431.8	3	0	25,704	216	79	137	25,704	4	15	197	186	0.90	0.91	137,729	228,000	4,545	7,524	231	365,729	2
1988	4	10	37,390		592,301	431.8	3	0	23,376	216	79	138	23,376	4	15	197	186	0.90	0.91	137,777	228,000	4,133	6,840	231	365,777	2
1988	4	10	37,390		606,433	432.4	3	0	23,258	215	79	137	23,258	4	15	197	187	0.91	0.91	137,798	228,000	4,134	6,840	231	365,798	2
1988	4	10	37,390		620,681	433.1	3	0	23,143	214	78	136	23,143	4	15	198	187	0.91	0.91	137,818	228,000	4,135	6,840	231	365,818	2
1988	5	10	18,835		616,414	433.3	3	0	23,101	214	78	136	23,101	4	15	198	188	0.91	0.91	137,794	228,000	4,134	6,840	231	365,794	1
1988	5	10	18,835		612,113	433.1	3	0	23,135	214	78	136	23,135	4	15	198	188	0.91	0.91	137,788	228,000	4,134	6,840	231	365,788	2
1988	5	11	20,718		607,343	432.9	3	0	25,489	215	78	136	25,489	4	15	198	187	0.91	0.91	137,780	228,000	4,547	7,524	231	365,780	2
1988	6	10	20,527		604,668	432.7	3	0	23,202	215	78	136	23,202	4	15	198	187	0.91	0.91	137,779	228,000	4,133	6,840	231	365,779	2
1988	6	10	20,527		601,972	432.6	3	0	23,224	215	78	137	23,224	4	15	198	187	0.91	0.91	137,775	228,000	4,133	6,840	231	365,775	2
1988	6	10	20,527		599,254	432.5	3	0	23,246	215	79	137	23,246	4	15	197	187	0.91	0.91	137,771	228,000	4,133	6,840	231	365,771	2
1988	7	10	59,285		635,423	433.2	3	0	23,116	214	78	136	23,116	4	15	198	188	0.91	0.91	137,860	228,000	4,136	6,840	231	365,860	2
1988	7	10	59,285		646,864	434.3	6	0	47,844	212	78	135	47,844	4	14	199	189	0.91	0.91	137,847	228,000	8,629	14,273	231	365,847	1
1988	7	11	65,214		659,654	434.9	6	0	52,423	211	77	134	52,423	4	14	200	190	0.91	0.91	137,866	228,000	9,493	15,700	231	365,866	1
1988	8	10	74,754		674,495	435.5	8	0	59,913	211	77	134	59,913	4	14	201	190	0.91	0.91	138,000	228,000	10,902	18,012	231	366,000	1
1988	8	10	74,754		689,599	436.2	8	0	59,650	210	77	133	59,650	4	14	201	191	0.91	0.91	138,000	228,000	10,902	18,012	231	366,000	1
1988	8	11	82,229		706,512	436.9	8	0	65,317	209	76	132	65,317	4	14	202	192	0.91	0.91	138,000	228,000	11,992	19,813	231	366,000	1
1988	9	10	94,311		718,777	437.6	11	0	82,046	208	76	132	82,046	4	14	203	193	0.91	0.91	138,000	228,000	15,125	24,989	231	366,000	1
1988	9	10	94,311		716,202	437.8	13	0	96,886	208	76	132	96,886	4	14	203	193	0.91	0.91	138,000	228,000	17,885	29,549	231	366,000	1
1988	9	10	94,311		713,557	437.7	13	0	96,957	208	76	132	96,957	4	14	203	193	0.91	0.91	138,000	228,000	17,885	29,549	231	366,000	1
1988	10	10	47,051	1,629	715,584	437.7	6	0	43,395	208	76	132	43,395	4	14	203	193	0.91	0.91	138,000	228,000	8,004	13,224	231	366,000	1
1988	10	10	47,051	1,629	717,635	437.8	6	0	43,370	208	76	132	43,370	4	14	203	193	0.91	0.91	138,000	228,000	8,004	13,224	231	366,000	1
1988	10	11	51,756	1,792	719,922	437.9	6	0	47,678	208	76	132	47,678	4	14	203	193	0.91	0.91	138,000	228,000	8,804	14,546	231	366,000	1
1988	11	10	66,465		718,992	437.9	9	0	67,394	208	76	131	67,394	4	14	203	193	0.91	0.91	138,000	228,000	12,448	20,566	231	366,000	1
1988	11	10	66,465		718,045	437.8	9	0	67,412	208	76	132	67,412	4	14	203	193	0.91	0.91	138,000	228,000	12,448	20,566	231	366,000	1
1988	11	10	66,465		717,080	437.8	9	0	67,430	208	76	132	67,430	4	14	203	193	0.91	0.91	138,000	228,000	12,448	20,566	231	366,000	1
1988	12	10	28,443		719,513	437.8	3	0	26,010	208	76	132	26,010	4	14	203	193	0.91	0.91	138,000	228,000	4,802	7,934	231	366,000	0
1988	12	10	28,443		720,014	437.9	4	0	27,942	208	76	131	27,942	4	14	203	193	0.91	0.91	138,000	228,000	5,161	8,527	231	366,000	0
1988	12	11	31,287		720,735	437.9	4	0	30,566	207	76	131	30,566	4	14	203	193	0.91	0.91	138,000	228,000	5,647	9,330	231	366,000	0



**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (5/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1989	1	10	26,633		717,478	437.9	4	0	29,889	208	76	131	29,889	4	14	203	193	0.91	0.91	138,000	228,000	5,520	9,120	231	366,000	1
1989	1	10	26,633		714,194	437.7	4	0	29,917	208	76	132	29,917	4	14	203	193	0.91	0.91	138,000	228,000	5,520	9,120	231	366,000	1
1989	1	11	29,296		718,813	437.7	3	0	24,677	208	76	132	24,677	4	14	203	193	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1989	2	10	7,848		704,197	437.5	3	0	22,465	208	76	132	22,465	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1989	2	10	7,848		689,488	436.9	3	0	22,557	209	76	132	22,557	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1989	2	8	6,279		677,653	436.2	3	0	18,114	210	77	133	18,114	4	14	201	191	0.91	0.91	138,000	228,000	3,312	5,472	231	366,000	1
1989	3	10	5,238		660,152	435.6	3	0	22,739	211	77	133	22,739	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1989	3	10	5,238		642,540	434.8	3	0	22,850	212	77	134	22,850	4	14	200	190	0.91	0.91	137,818	228,000	4,135	6,840	231	365,818	1
1989	3	11	5,762		623,014	433.9	3	0	25,288	213	78	135	25,288	4	14	199	189	0.91	0.91	137,788	228,000	4,547	7,524	231	365,788	1
1989	4	10	6,180		606,063	433.1	3	0	23,132	214	78	136	23,132	4	15	198	188	0.91	0.91	137,767	228,000	4,133	6,840	231	365,767	2
1989	4	10	6,180		588,973	432.3	3	0	23,269	215	79	137	23,269	4	15	197	187	0.91	0.91	137,743	228,000	4,132	6,840	231	365,743	2
1989	4	10	6,180		571,739	431.5	3	0	23,414	217	79	138	23,414	4	15	196	186	0.90	0.91	137,718	228,000	4,132	6,840	231	365,718	2
1989	5	10	18,317		566,542	431.0	3	0	23,513	218	79	138	23,513	4	15	196	185	0.90	0.91	137,722	228,000	4,132	6,840	231	365,722	2
1989	5	10	18,317		561,299	430.8	3	0	23,560	218	79	139	23,560	4	15	196	185	0.90	0.91	137,715	228,000	4,131	6,840	231	365,715	2
1989	5	11	20,149		555,478	430.5	3	0	25,970	219	80	139	25,970	4	15	195	184	0.90	0.91	137,705	228,000	4,544	7,524	231	365,705	2
1989	6	10	80,076		612,161	431.7	3	0	23,393	217	79	138	23,393	4	15	197	186	0.90	0.91	137,847	228,000	4,135	6,840	231	365,847	2
1989	6	10	80,076		669,299	434.3	3	0	22,937	212	78	135	22,937	4	14	199	189	0.91	0.91	137,928	228,000	4,138	6,840	231	365,928	2
1989	6	10	80,076		685,410	436.0	8	0	63,966	210	77	133	63,966	4	14	201	191	0.91	0.91	138,000	228,000	11,675	19,289	231	366,000	1
1989	7	10	146,035		715,623	437.0	15	0	115,822	209	76	132	115,822	4	14	202	192	0.91	0.91	138,000	228,000	21,280	35,158	231	366,000	1
1989	7	10	146,035		716,419	437.7	19	0	145,239	208	76	132	145,239	4	14	203	193	0.91	0.91	138,000	228,000	26,800	44,278	231	366,000	1
1989	7	11	160,638		708,909	437.6	20	0	168,148	208	76	132	168,148	4	14	203	193	0.91	0.91	138,000	228,000	30,998	51,213	231	366,000	1
1989	8	10	70,689		716,190	437.6	8	0	63,408	208	76	132	63,408	4	14	203	193	0.91	0.91	138,000	228,000	11,689	19,312	231	366,000	1
1989	8	10	70,689		716,057	437.7	9	0	70,823	208	76	132	70,823	4	14	203	193	0.91	0.91	138,000	228,000	13,069	21,592	231	366,000	1
1989	8	11	77,758		715,907	437.7	9	0	77,908	208	76	132	77,908	4	14	203	193	0.91	0.91	138,000	228,000	14,375	23,751	231	366,000	1
1989	9	10	59,955		713,540	437.7	8	0	62,321	208	76	132	62,321	4	14	203	193	0.91	0.91	138,000	228,000	11,495	18,992	231	366,000	1
1989	9	10	59,955		718,677	437.7	7	0	54,819	208	76	132	54,819	4	14	203	193	0.91	0.91	138,000	228,000	10,115	16,712	231	366,000	1
1989	9	10	59,955		716,359	437.8	8	0	62,273	208	76	132	62,273	4	14	203	193	0.91	0.91	138,000	228,000	11,495	18,992	231	366,000	1
1989	10	10	54,797	1,629	720,047	437.8	7	0	49,480	208	76	132	49,480	4	14	203	193	0.91	0.91	138,000	228,000	9,136	15,094	231	366,000	1
1989	10	10	54,797	1,629	716,260	437.8	8	0	56,955	208	76	132	56,955	4	14	203	193	0.91	0.91	138,000	228,000	10,516	17,374	231	366,000	1
1989	10	11	60,276	1,792	712,024	437.6	8	0	62,721	208	76	132	62,721	4	14	203	193	0.91	0.91	138,000	228,000	11,567	19,111	231	366,000	1
1989	11	10	102,014		718,512	437.7	13	0	95,525	208	76	132	95,525	4	14	203	193	0.91	0.91	138,000	228,000	17,623	29,116	231	366,000	1
1989	11	10	102,014		717,601	437.8	14	0	102,925	208	76	132	102,925	4	14	203	193	0.91	0.91	138,000	228,000	19,003	31,396	231	366,000	1
1989	11	10	102,014		716,664	437.8	14	0	102,951	208	76	132	102,951	4	14	203	193	0.91	0.91	138,000	228,000	19,003	31,396	231	366,000	1
1989	12	10	29,783		719,688	437.8	4	0	26,758	208	76	132	26,758	4	14	203	193	0.91	0.91	138,000	228,000	4,940	8,162	231	366,000	0
1989	12	10	29,783		720,336	437.9	4	0	29,135	208	76	131	29,135	4	14	203	193	0.91	0.91	138,000	228,000	5,382	8,892	231	366,000	0
1989	12	11	32,761		712,875	437.8	5	0	40,222	208	76	132	40,222	4	14	203	193	0.91	0.91	138,000	228,000	7,423	12,264	231	366,000	0

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (6/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1990	1	10	52,470		716,415	437.7	7	0	48,931	208	76	132	48,931	4	14	203	193	0.91	0.91	138,000	228,000	9,025	14,911	231	366,000	1
1990	1	10	52,470		720,004	437.8	7	0	48,882	208	76	132	48,882	4	14	203	193	0.91	0.91	138,000	228,000	9,025	14,911	231	366,000	1
1990	1	11	57,717		715,724	437.8	8	0	61,997	208	76	132	61,997	4	14	203	193	0.91	0.91	138,000	228,000	11,446	18,910	231	366,000	1
1990	2	10	17,169		710,437	437.6	3	0	22,455	208	76	132	22,455	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1990	2	10	17,169		705,118	437.4	3	0	22,488	208	76	132	22,488	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1990	2	8	13,735		700,839	437.1	3	0	18,014	209	76	132	18,014	4	14	202	192	0.91	0.91	138,000	228,000	3,312	5,472	231	366,000	1
1990	3	10	13,316		691,594	436.8	3	0	22,561	209	77	132	22,561	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1990	3	10	13,316		682,290	436.4	3	0	22,620	209	77	133	22,620	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1990	3	11	14,648		671,985	436.0	3	0	24,953	210	77	133	24,953	4	14	201	191	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1990	4	10	6,023		655,233	435.3	3	0	22,775	211	77	134	22,775	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1990	4	10	6,023		638,372	434.6	3	0	22,884	212	77	134	22,884	4	14	200	189	0.91	0.91	137,813	228,000	4,134	6,840	231	365,813	1
1990	4	10	6,023		621,384	433.8	3	0	23,011	213	78	135	23,011	4	15	199	188	0.91	0.91	137,789	228,000	4,134	6,840	231	365,789	1
1990	5	10	30,449		627,085	433.5	3	0	24,748	213	78	136	24,748	4	15	199	188	0.91	0.91	137,818	228,000	4,438	7,342	231	365,818	1
1990	5	10	30,449		632,833	433.8	3	0	24,701	213	78	135	24,701	4	15	199	188	0.91	0.91	137,826	228,000	4,438	7,342	231	365,826	1
1990	5	11	33,494		639,211	434.1	3	0	27,116	213	78	135	27,116	4	14	199	189	0.91	0.91	137,835	228,000	4,882	8,076	231	365,835	1
1990	6	10	32,738		645,515	434.4	3	0	26,434	212	78	135	26,434	4	14	199	189	0.91	0.91	137,844	228,000	4,769	7,889	231	365,844	1
1990	6	10	32,738		651,874	434.7	3	0	26,379	212	77	134	26,379	4	14	200	189	0.91	0.91	137,853	228,000	4,770	7,889	231	365,853	1
1990	6	10	32,738		658,286	434.9	3	0	26,325	211	77	134	26,325	4	14	200	190	0.91	0.91	137,862	228,000	4,770	7,889	231	365,862	1
1990	7	10	28,958		663,996	435.2	3	0	23,248	211	77	134	23,248	4	14	200	190	0.91	0.91	138,000	228,000	4,223	6,977	231	366,000	1
1990	7	10	28,958		669,747	435.5	3	0	23,208	211	77	134	23,208	4	14	201	190	0.91	0.91	138,000	228,000	4,223	6,977	231	366,000	1
1990	7	11	31,854		676,118	435.8	3	0	25,483	210	77	133	25,483	4	14	201	191	0.91	0.91	138,000	228,000	4,645	7,674	231	366,000	1
1990	8	10	26,100		679,538	436.0	3	0	22,680	210	77	133	22,680	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1990	8	10	26,100		682,981	436.1	3	0	22,657	210	77	133	22,657	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1990	8	11	28,710		686,795	436.3	3	0	24,897	210	77	133	24,897	4	14	201	191	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1990	9	10	13,451		677,595	436.2	3	0	22,651	210	77	133	22,651	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1990	9	10	13,451		668,334	435.8	3	0	22,712	210	77	133	22,712	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1990	9	10	13,451		659,010	435.3	3	0	22,775	211	77	134	22,775	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1990	10	10	29,434	1,629	664,025	435.2	3	0	22,790	211	77	134	22,790	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1990	10	10	29,434	1,629	669,074	435.5	3	0	22,755	211	77	134	22,755	4	14	201	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1990	10	11	32,377	1,792	674,668	435.7	3	0	24,991	210	77	133	24,991	4	14	201	191	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1990	11	10	41,152		682,944	436.0	4	0	32,876	210	77	133	32,876	4	14	201	191	0.91	0.91	138,000	228,000	6,003	9,918	231	366,000	1
1990	11	10	41,152		691,299	436.4	4	0	32,797	209	77	133	32,797	4	14	202	192	0.91	0.91	138,000	228,000	6,003	9,918	231	366,000	1
1990	11	10	41,152		699,732	436.8	4	0	32,719	209	77	132	32,719	4	14	202	192	0.91	0.91	138,000	228,000	6,003	9,918	231	366,000	1
1990	12	10	37,541		707,479	437.2	4	0	29,794	208	76	132	29,794	4	14	202	192	0.91	0.91	138,000	228,000	5,479	9,052	231	366,000	1
1990	12	10	37,541		715,290	437.5	4	0	29,730	208	76	132	29,730	4	14	203	193	0.91	0.91	138,000	228,000	5,479	9,052	231	366,000	1
1990	12	11	41,295		713,539	437.7	5	0	43,045	208	76	132	43,045	4	14	203	193	0.91	0.91	138,000	228,000	7,939	13,117	231	366,000	1

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (7/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1991	1	10	39,991		714,468	437.6	5	0	39,062	208	76	132	39,062	4	14	203	193	0.91	0.91	138,000	228,000	7,204	11,902	231	366,000	1
1991	1	10	39,991		715,408	437.7	5	0	39,051	208	76	132	39,051	4	14	203	193	0.91	0.91	138,000	228,000	7,204	11,902	231	366,000	1
1991	1	11	43,990		716,453	437.7	5	0	42,945	208	76	132	42,945	4	14	203	193	0.91	0.91	138,000	228,000	7,924	13,092	231	366,000	1
1991	2	10	11,984		705,971	437.5	3	0	22,467	208	76	132	22,467	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1991	2	10	11,984		695,423	437.0	3	0	22,532	209	76	132	22,532	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1991	2	8	9,587		686,936	436.6	3	0	18,074	209	77	133	18,074	4	14	202	192	0.91	0.91	138,000	228,000	3,312	5,472	231	366,000	1
1991	3	10	8,549		672,819	436.1	3	0	22,666	210	77	133	22,666	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1991	3	10	8,549		658,607	435.4	3	0	22,761	211	77	134	22,761	4	14	201	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1991	3	11	9,404		642,871	434.7	3	0	25,140	212	77	134	25,140	4	14	200	190	0.91	0.91	137,820	228,000	4,548	7,524	231	365,820	1
1991	4	10	8,415		628,319	434.1	3	0	22,968	213	78	135	22,968	4	14	199	189	0.91	0.91	137,801	228,000	4,134	6,840	231	365,801	1
1991	4	10	8,415		613,653	433.4	3	0	23,081	214	78	136	23,081	4	15	198	188	0.91	0.91	137,780	228,000	4,133	6,840	231	365,780	2
1991	4	10	8,415		598,870	432.7	3	0	23,198	215	78	136	23,198	4	15	198	187	0.91	0.91	137,759	228,000	4,133	6,840	231	365,759	2
1991	5	10	6,177		581,717	432.0	3	0	23,330	216	79	137	23,330	4	15	197	186	0.91	0.91	137,732	228,000	4,132	6,840	231	365,732	2
1991	5	10	6,177		564,417	431.2	3	0	23,477	217	79	138	23,477	4	15	196	185	0.90	0.91	137,707	228,000	4,131	6,840	231	365,707	2
1991	5	11	6,795		545,207	430.4	3	0	26,005	219	80	139	26,005	4	15	195	184	0.90	0.91	137,677	228,000	4,543	7,524	231	365,677	2
1991	6	10	35,189		556,717	430.2	3	0	23,680	219	80	139	23,680	4	15	195	184	0.90	0.91	137,725	228,000	4,132	6,840	231	365,725	2
1991	6	10	35,189		568,332	430.7	3	0	23,574	218	79	139	23,574	4	15	196	185	0.90	0.91	137,741	228,000	4,132	6,840	231	365,741	2
1991	6	10	35,189		580,050	431.3	3	0	23,471	217	79	138	23,471	4	15	196	185	0.90	0.91	137,758	228,000	4,133	6,840	231	365,758	2
1991	7	10	16,573		573,176	431.4	3	0	23,448	217	79	138	23,448	4	15	196	185	0.90	0.91	137,730	228,000	4,132	6,840	231	365,730	2
1991	7	10	16,573		566,241	431.1	3	0	23,508	218	79	138	23,508	4	15	196	185	0.90	0.91	137,720	228,000	4,132	6,840	231	365,720	2
1991	7	11	18,230		558,541	430.7	3	0	25,930	218	79	139	25,930	4	15	196	185	0.90	0.91	137,707	228,000	4,544	7,524	231	365,707	2
1991	8	10	12,080		546,960	430.3	3	0	23,660	219	80	139	23,660	4	15	195	184	0.90	0.91	137,688	228,000	4,131	6,840	231	365,688	2
1991	8	10	12,080		535,612	429.7	3	0	23,427	217	80	137	23,427	4	15	194	184	0.90	0.91	137,648	224,365	4,129	6,731	231	362,013	2
1991	8	11	13,288		523,000	429.0	3	0	25,900	218	80	138	25,900	4	15	194	183	0.90	0.91	137,628	224,216	4,542	7,399	231	361,844	2
1991	9	10	12,194		512,938	428.3	3	0	22,256	206	80	126	22,256	4	13	193	185	0.90	0.92	136,826	209,467	4,105	6,284	231	346,293	3
1991	9	10	12,194		503,132	427.8	3	0	22,000	204	80	123	22,000	4	12	193	185	0.90	0.92	136,684	205,001	4,101	6,150	231	341,686	3
1991	9	10	12,194		493,567	427.2	3	0	21,758	201	81	121	21,758	4	12	192	185	0.90	0.92	136,662	200,644	4,100	6,019	231	337,306	3
1991	10	10	36,965	1,629	507,150	427.3	3	0	21,753	201	81	121	21,753	4	12	192	185	0.90	0.92	136,649	200,823	4,099	6,025	231	337,473	3
1991	10	10	36,965	1,629	520,399	428.1	3	0	22,086	205	80	124	22,086	4	12	193	185	0.90	0.92	136,677	206,842	4,100	6,205	231	343,518	3
1991	10	11	40,661	1,792	535,180	428.9	3	0	24,089	203	75	128	24,089	4	13	194	185	0.90	0.91	128,599	210,716	4,244	6,954	231	339,315	3
1991	11	10	33,319		545,942	429.6	3	0	22,557	209	77	132	22,557	4	14	195	185	0.90	0.91	132,924	216,975	3,988	6,509	231	349,898	3
1991	11	10	33,319		556,237	430.2	3	0	23,024	213	79	134	23,024	4	14	195	185	0.90	0.91	136,030	221,442	4,081	6,643	231	357,472	3
1991	11	10	33,319		566,147	430.7	3	0	23,409	217	80	137	23,409	4	15	195	185	0.90	0.91	138,000	225,707	4,140	6,771	231	363,707	3
1991	12	10	45,945		588,631	431.4	3	0	23,461	217	79	138	23,461	4	15	196	185	0.90	0.91	138,000	228,000	4,140	6,840	231	366,000	3
1991	12	10	45,945		611,323	432.4	3	0	23,254	215	79	137	23,254	4	15	197	187	0.91	0.91	137,813	228,000	4,134	6,840	231	365,813	2
1991	12	11	50,540		636,494	433.5	3	0	25,369	214	78	136	25,369	4	15	199	188	0.91	0.91	137,850	228,000	4,549	7,524	231	365,850	2

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (8/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1992	1	10	24,316		637,852	434.1	3	0	22,958	213	78	135	22,958	4	14	199	189	0.91	0.91	137,830	228,000	4,135	6,840	231	365,830	2
1992	1	10	24,316		639,221	434.2	3	0	22,947	212	78	135	22,947	4	14	199	189	0.91	0.91	137,831	228,000	4,135	6,840	231	365,831	2
1992	1	11	26,748		640,739	434.3	3	0	25,230	212	78	135	25,230	4	14	199	189	0.91	0.91	137,833	228,000	4,548	7,524	231	365,833	2
1992	2	10	12,971		630,743	434.1	3	0	22,967	213	78	135	22,967	4	14	199	189	0.91	0.91	137,809	228,000	4,134	6,840	231	365,809	2
1992	2	10	12,971		620,670	433.6	3	0	23,044	213	78	135	23,044	4	15	199	188	0.91	0.91	137,794	228,000	4,134	6,840	231	365,794	2
1992	2	9	11,674		611,536	433.2	3	0	20,808	214	78	136	20,808	4	15	198	188	0.91	0.91	137,783	228,000	3,720	6,156	231	365,783	2
1992	3	10	5,736		594,046	432.6	3	0	23,226	215	78	137	23,226	4	15	198	187	0.91	0.91	137,750	228,000	4,132	6,840	231	365,750	2
1992	3	10	5,736		576,410	431.8	3	0	23,372	216	79	138	23,372	4	15	197	186	0.90	0.91	137,724	228,000	4,132	6,840	231	365,724	2
1992	3	11	6,310		556,832	430.9	3	0	25,887	218	79	139	25,887	4	15	196	185	0.90	0.91	137,694	228,000	4,544	7,524	231	365,694	2
1992	4	10	10,421		543,569	430.2	3	0	23,684	219	80	140	23,684	4	15	195	184	0.90	0.91	137,681	228,000	4,130	6,840	231	365,681	2
1992	4	10	10,421		530,522	429.4	3	0	23,468	217	80	137	23,468	4	15	194	184	0.90	0.91	137,636	224,305	4,129	6,729	231	361,941	2
1992	4	10	10,421		517,343	428.7	3	0	23,599	219	81	138	23,599	4	15	193	183	0.90	0.91	137,652	224,154	4,130	6,725	231	361,806	2
1992	5	10	14,629		508,257	428.0	3	0	23,716	220	81	139	23,716	4	15	193	182	0.90	0.91	137,710	224,052	4,131	6,722	231	361,763	2
1992	5	10	14,629		499,078	427.5	3	0	23,809	220	81	139	23,809	4	15	192	181	0.90	0.91	137,749	224,045	4,132	6,721	231	361,793	2
1992	5	11	16,092		488,872	426.9	3	0	26,298	221	82	140	26,298	4	16	192	180	0.90	0.91	137,784	224,116	4,547	7,396	231	361,899	2
1992	6	10	26,658		491,590	426.7	3	0	23,940	222	82	140	23,940	5	16	191	180	0.90	0.91	137,815	224,065	4,134	6,722	231	361,880	2
1992	6	10	26,658		494,320	426.9	3	0	23,928	222	82	140	23,928	4	16	191	180	0.90	0.91	137,817	224,231	4,134	6,727	231	362,048	2
1992	6	10	26,658		497,077	427.0	3	0	23,900	221	82	140	23,900	4	16	192	181	0.90	0.91	137,811	224,208	4,134	6,726	231	362,019	2
1992	7	10	51,108		524,419	427.9	3	0	23,766	220	81	139	23,766	4	15	193	182	0.90	0.91	137,807	224,272	4,134	6,728	231	362,079	2
1992	7	10	51,108		552,039	429.5	3	0	23,488	217	80	137	23,488	4	15	194	184	0.90	0.91	137,727	224,584	4,132	6,738	231	362,311	2
1992	7	11	56,219		582,370	430.9	3	0	25,888	218	79	139	25,888	4	15	196	185	0.90	0.91	137,778	228,000	4,547	7,524	231	365,778	2
1992	8	10	56,561		615,668	432.4	3	0	23,263	215	79	137	23,263	4	15	197	187	0.91	0.91	137,829	228,000	4,135	6,840	231	365,829	2
1992	8	10	56,561		649,232	433.9	3	0	22,997	213	78	135	22,997	4	15	199	189	0.91	0.91	137,877	228,000	4,136	6,840	231	365,877	2
1992	8	11	62,218		661,473	435.0	6	0	49,977	211	77	134	49,977	4	14	200	190	0.91	0.91	137,971	228,000	9,061	14,973	231	365,971	1
1992	9	10	37,463		668,887	435.4	4	0	30,049	211	77	134	30,049	4	14	201	190	0.91	0.91	138,000	228,000	5,465	9,029	231	366,000	1
1992	9	10	37,463		676,368	435.7	4	0	29,983	210	77	133	29,983	4	14	201	191	0.91	0.91	138,000	228,000	5,465	9,029	231	366,000	1
1992	9	10	37,463		683,914	436.1	4	0	29,917	210	77	133	29,917	4	14	201	191	0.91	0.91	138,000	228,000	5,465	9,029	231	366,000	1
1992	10	10	47,081	1,629	693,191	436.5	5	0	36,175	209	77	133	36,175	4	14	202	192	0.91	0.91	138,000	228,000	6,624	10,944	231	366,000	1
1992	10	10	47,081	1,629	702,563	436.9	5	0	36,080	209	76	132	36,080	4	14	202	192	0.91	0.91	138,000	228,000	6,624	10,944	231	366,000	1
1992	10	11	51,789	1,792	712,982	437.4	5	0	39,579	208	76	132	39,579	4	14	203	193	0.91	0.91	138,000	228,000	7,286	12,038	231	366,000	1
1992	11	10	64,655		719,077	437.7	8	0	58,559	208	76	132	58,559	4	14	203	193	0.91	0.91	138,000	228,000	10,805	17,852	231	366,000	1
1992	11	10	64,655		717,738	437.8	9	0	65,994	208	76	132	65,994	4	14	203	193	0.91	0.91	138,000	228,000	12,185	20,132	231	366,000	1
1992	11	10	64,655		716,373	437.8	9	0	66,019	208	76	132	66,019	4	14	203	193	0.91	0.91	138,000	228,000	12,185	20,132	231	366,000	1
1992	12	10	43,979		715,102	437.7	6	0	45,251	208	76	132	45,251	4	14	203	193	0.91	0.91	138,000	228,000	8,349	13,794	231	366,000	0
1992	12	10	43,979		714,868	437.7	6	0	44,213	208	76	132	44,213	4	14	203	193	0.91	0.91	138,000	228,000	8,156	13,475	231	366,000	0
1992	12	11	48,377		714,939	437.7	6	0	48,306	208	76	132	48,306	4	14	203	193	0.91	0.91	138,000	228,000	8,911	14,722	231	366,000	0

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (9/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1993	1	10	12,684		705,148	437.5	3	0	22,474	208	76	132	22,474	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1993	1	10	12,684		695,297	437.0	3	0	22,535	209	76	132	22,535	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1993	1	11	13,952		684,388	436.5	3	0	24,861	209	77	133	24,861	4	14	202	192	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1993	2	10	8,482		670,187	436.0	3	0	22,683	210	77	133	22,683	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1993	2	10	8,482		655,890	435.3	3	0	22,779	211	77	134	22,779	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1993	2	8	6,786		644,388	434.7	3	0	18,288	212	77	134	18,288	4	14	200	190	0.91	0.91	137,827	228,000	3,308	5,472	231	365,827	1
1993	3	10	5,803		627,225	434.1	3	0	22,966	213	78	135	22,966	4	14	199	189	0.91	0.91	137,797	228,000	4,134	6,840	231	365,797	1
1993	3	10	5,803		609,928	433.3	3	0	23,100	214	78	136	23,100	4	15	198	188	0.91	0.91	137,772	228,000	4,133	6,840	231	365,772	2
1993	3	11	6,383		590,741	432.5	3	0	25,571	215	79	137	25,571	4	15	197	187	0.91	0.91	137,743	228,000	4,546	7,524	231	365,743	2
1993	4	10	5,791		573,132	431.6	3	0	23,400	217	79	138	23,400	4	15	197	186	0.90	0.91	137,720	228,000	4,132	6,840	231	365,720	2
1993	4	10	5,791		555,367	430.8	3	0	23,555	218	79	139	23,555	4	15	196	185	0.90	0.91	137,694	228,000	4,131	6,840	231	365,694	2
1993	4	10	5,791		537,474	430.0	3	0	23,685	219	80	139	23,685	4	15	195	184	0.90	0.91	137,675	227,631	4,130	6,829	231	365,305	2
1993	5	10	28,854		542,877	429.6	3	0	23,451	217	80	137	23,451	4	15	194	184	0.90	0.91	137,682	224,460	4,130	6,734	231	362,142	2
1993	5	10	28,854		548,334	429.9	3	0	23,397	217	80	137	23,397	4	15	195	184	0.90	0.91	137,692	224,521	4,131	6,736	231	362,213	2
1993	5	11	31,739		554,029	430.2	3	0	26,045	219	80	139	26,045	4	15	195	184	0.90	0.91	137,713	228,000	4,545	7,524	231	365,713	2
1993	6	10	85,327		615,972	431.8	3	0	23,384	217	79	138	23,384	4	15	197	186	0.90	0.91	137,858	228,000	4,136	6,840	231	365,858	2
1993	6	10	85,327		678,409	434.6	3	0	22,890	212	77	134	22,890	4	14	200	189	0.91	0.91	137,946	228,000	4,138	6,840	231	365,946	2
1993	6	10	85,327		695,804	436.4	9	0	67,932	209	77	133	67,932	4	14	202	192	0.91	0.91	138,000	228,000	12,434	20,543	231	366,000	1
1993	7	10	66,162		709,494	437.1	7	0	52,472	209	76	132	52,472	4	14	202	192	0.91	0.91	138,000	228,000	9,646	15,937	231	366,000	1
1993	7	10	66,162		715,844	437.6	8	0	59,812	208	76	132	59,812	4	14	203	193	0.91	0.91	138,000	228,000	11,026	18,217	231	366,000	1
1993	7	11	72,778		714,647	437.7	9	0	73,974	208	76	132	73,974	4	14	203	193	0.91	0.91	138,000	228,000	13,647	22,547	231	366,000	1
1993	8	10	23,995		716,202	437.7	3	0	22,440	208	76	132	22,440	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1993	8	10	23,995		717,767	437.8	3	0	22,430	208	76	132	22,430	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1993	8	11	26,394		719,499	437.8	3	0	24,662	208	76	132	24,662	4	14	203	193	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1993	9	10	7,003		704,038	437.5	3	0	22,463	208	76	132	22,463	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1993	9	10	7,003		688,481	436.8	3	0	22,560	209	77	132	22,560	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1993	9	10	7,003		672,823	436.1	3	0	22,661	210	77	133	22,661	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1993	10	10	59,245	1,629	684,410	436.0	6	0	46,029	210	77	133	46,029	4	14	201	191	0.91	0.91	138,000	228,000	8,404	13,885	231	366,000	1
1993	10	10	59,245	1,629	696,151	436.6	6	0	45,875	209	77	133	45,875	4	14	202	192	0.91	0.91	138,000	228,000	8,404	13,885	231	366,000	1
1993	10	11	65,170	1,792	709,242	437.1	6	0	50,287	209	76	132	50,287	4	14	202	192	0.91	0.91	138,000	228,000	9,245	15,274	231	366,000	1
1993	11	10	77,306		717,995	437.6	9	0	68,552	208	76	132	68,552	4	14	203	193	0.91	0.91	138,000	228,000	12,641	20,885	231	366,000	1
1993	11	10	77,306		711,811	437.7	11	0	83,490	208	76	132	83,490	4	14	203	193	0.91	0.91	138,000	228,000	15,401	25,445	231	366,000	1
1993	11	10	77,306		713,055	437.6	10	0	76,062	208	76	132	76,062	4	14	203	193	0.91	0.91	138,000	228,000	14,021	23,165	231	366,000	1
1993	12	10	86,039		715,742	437.7	11	0	83,352	208	76	132	83,352	4	14	203	193	0.91	0.91	138,000	228,000	15,373	25,399	231	366,000	0
1993	12	10	86,039		716,373	437.7	11	0	85,407	208	76	132	85,407	4	14	203	193	0.91	0.91	138,000	228,000	15,760	26,038	231	366,000	0
1993	12	11	94,642		716,835	437.8	11	0	94,180	208	76	132	94,180	4	14	203	193	0.91	0.91	138,000	228,000	17,381	28,717	231	366,000	0

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (10/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1994	1	10	59,699		714,378	437.7	8	0	62,156	208	76	132	62,156	4	14	203	193	0.91	0.91	138,000	228,000	11,468	18,947	231	366,000	1
1994	1	10	59,699		719,421	437.8	7	0	54,657	208	76	132	54,657	4	14	203	193	0.91	0.91	138,000	228,000	10,088	16,667	231	366,000	1
1994	1	11	65,669		716,766	437.8	8	0	68,324	208	76	132	68,324	4	14	203	193	0.91	0.91	138,000	228,000	12,615	20,841	231	366,000	1
1994	2	10	46,451		719,040	437.8	6	0	44,177	208	76	132	44,177	4	14	203	193	0.91	0.91	138,000	228,000	8,156	13,475	231	366,000	1
1994	2	10	46,451		713,818	437.7	7	0	51,673	208	76	132	51,673	4	14	203	193	0.91	0.91	138,000	228,000	9,536	15,755	231	366,000	1
1994	2	8	37,160		715,605	437.7	6	0	35,373	208	76	132	35,373	4	14	203	193	0.91	0.91	138,000	228,000	6,525	10,780	231	366,000	1
1994	3	10	12,090		705,223	437.5	3	0	22,472	208	76	132	22,472	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1994	3	10	12,090		694,777	437.0	3	0	22,537	209	76	132	22,537	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1994	3	11	13,299		683,208	436.5	3	0	24,868	209	77	133	24,868	4	14	202	192	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1994	4	10	12,978		673,510	436.0	3	0	22,676	210	77	133	22,676	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1994	4	10	12,978		663,747	435.6	3	0	22,741	211	77	134	22,741	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1994	4	10	12,978		653,917	435.1	3	0	22,808	211	77	134	22,808	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1994	5	10	11,982		643,027	434.6	3	0	22,872	212	77	134	22,872	4	14	200	189	0.91	0.91	137,825	228,000	4,135	6,840	231	365,825	1
1994	5	10	11,982		632,055	434.1	3	0	22,954	213	78	135	22,954	4	14	199	189	0.91	0.91	137,810	228,000	4,134	6,840	231	365,810	1
1994	5	11	13,180		619,889	433.6	3	0	25,346	213	78	135	25,346	4	15	199	188	0.91	0.91	137,791	228,000	4,547	7,524	231	365,791	1
1994	6	10	10,312		607,061	433.1	3	0	23,141	214	78	136	23,141	4	15	198	187	0.91	0.91	137,772	228,000	4,133	6,840	231	365,772	2
1994	6	10	10,312		594,129	432.5	3	0	23,245	215	79	137	23,245	4	15	197	187	0.91	0.91	137,754	228,000	4,133	6,840	231	365,754	2
1994	6	10	10,312		581,089	431.9	3	0	23,353	216	79	137	23,353	4	15	197	186	0.90	0.91	137,735	228,000	4,132	6,840	231	365,735	2
1994	7	10	10,502		568,126	431.3	3	0	23,464	217	79	138	23,464	4	15	196	185	0.90	0.91	137,717	228,000	4,132	6,840	231	365,717	2
1994	7	10	10,502		555,049	430.7	3	0	23,580	218	79	139	23,580	4	15	196	184	0.90	0.91	137,698	228,000	4,131	6,840	231	365,698	2
1994	7	11	11,553		540,524	430.1	3	0	26,078	220	80	140	26,078	4	15	195	184	0.90	0.91	137,675	228,000	4,543	7,524	231	365,675	2
1994	8	10	24,940		542,027	429.7	3	0	23,437	217	80	137	23,437	4	15	194	184	0.90	0.91	137,676	224,448	4,130	6,733	231	362,123	2
1994	8	10	24,940		543,546	429.8	3	0	23,422	217	80	137	23,422	4	15	195	184	0.90	0.91	137,678	224,463	4,130	6,734	231	362,141	2
1994	8	11	27,434		545,234	429.9	3	0	25,746	217	80	137	25,746	4	15	195	184	0.90	0.91	137,679	224,480	4,543	7,408	231	362,159	2
1994	9	10	25,864		548,268	430.0	3	0	22,830	211	78	133	22,830	4	14	195	185	0.90	0.91	134,771	219,660	4,043	6,590	231	354,431	3
1994	9	10	25,864		551,170	430.1	3	0	22,962	213	79	134	22,962	4	14	195	185	0.90	0.91	135,628	220,887	4,069	6,627	231	356,516	3
1994	9	10	25,864		553,947	430.3	3	0	23,088	214	79	135	23,088	4	14	195	185	0.90	0.91	136,449	222,061	4,093	6,662	231	358,510	3
1994	10	10	77,850	1,629	606,734	431.5	3	0	23,434	217	79	138	23,434	4	15	196	186	0.90	0.91	138,000	228,000	4,140	6,840	231	366,000	3
1994	10	10	77,850	1,629	659,962	434.0	3	0	22,993	213	78	135	22,993	4	14	199	189	0.91	0.91	137,911	228,000	4,137	6,840	231	365,911	2
1994	10	11	85,635	1,792	676,675	435.6	8	0	67,131	211	77	134	67,131	4	14	201	191	0.91	0.91	138,000	228,000	12,220	20,189	231	366,000	1
1994	11	10	105,472		698,163	436.4	11	0	83,984	209	77	133	83,984	4	14	202	192	0.91	0.91	138,000	228,000	15,373	25,399	231	366,000	1
1994	11	10	105,472		712,572	437.2	12	0	91,063	208	76	132	91,063	4	14	202	193	0.91	0.91	138,000	228,000	16,753	27,679	231	366,000	1
1994	11	10	105,472		712,185	437.6	14	0	105,859	208	76	132	105,859	4	14	203	193	0.91	0.91	138,000	228,000	19,513	32,239	231	366,000	1
1994	12	10	61,117		717,492	437.7	7	0	55,811	208	76	132	55,811	4	14	203	193	0.91	0.91	138,000	228,000	10,295	17,009	231	366,000	1
1994	12	10	61,117		718,966	437.8	8	0	59,644	208	76	132	59,644	4	14	203	193	0.91	0.91	138,000	228,000	11,012	18,194	231	366,000	0
1994	12	11	67,229		711,563	437.7	9	0	74,632	208	76	132	74,632	4	14	203	193	0.91	0.91	138,000	228,000	13,768	22,748	231	366,000	0

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (11/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1995	1	10	26,060		715,170	437.6	3	0	22,453	208	76	132	22,453	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1995	1	10	26,060		718,799	437.8	3	0	22,430	208	76	132	22,430	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1995	1	11	28,666		714,565	437.8	4	0	32,901	208	76	132	32,901	4	14	203	193	0.91	0.91	138,000	228,000	6,072	10,032	231	366,000	1
1995	2	10	23,622		715,745	437.7	3	0	22,442	208	76	132	22,442	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1995	2	10	23,622		716,933	437.7	3	0	22,435	208	76	132	22,435	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1995	2	8	18,898		717,889	437.8	3	0	17,942	208	76	132	17,942	4	14	203	193	0.91	0.91	138,000	228,000	3,312	5,472	231	366,000	1
1995	3	10	10,600		706,026	437.5	3	0	22,462	208	76	132	22,462	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1995	3	10	10,600		694,090	437.0	3	0	22,536	209	76	132	22,536	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1995	3	11	11,660		680,872	436.4	3	0	24,878	209	77	133	24,878	4	14	202	192	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1995	4	10	33,666		687,675	436.3	4	0	26,863	210	77	133	26,863	4	14	201	191	0.91	0.91	138,000	228,000	4,913	8,117	231	366,000	1
1995	4	10	33,666		694,531	436.6	4	0	26,811	209	77	133	26,811	4	14	202	192	0.91	0.91	138,000	228,000	4,913	8,117	231	366,000	1
1995	4	10	33,666		701,439	436.9	4	0	26,759	209	76	132	26,759	4	14	202	192	0.91	0.91	138,000	228,000	4,913	8,117	231	366,000	1
1995	5	10	80,513		718,272	437.4	9	0	63,680	208	76	132	63,680	4	14	203	193	0.91	0.91	138,000	228,000	11,730	19,380	231	366,000	1
1995	5	10	80,513		712,767	437.7	12	0	86,019	208	76	132	86,019	4	14	203	193	0.91	0.91	138,000	228,000	15,870	26,220	231	366,000	1
1995	5	11	88,565		714,898	437.6	11	0	86,434	208	76	132	86,434	4	14	203	193	0.91	0.91	138,000	228,000	15,939	26,334	231	366,000	1
1995	6	10	59,834		720,009	437.8	7	0	54,723	208	76	132	54,723	4	14	203	193	0.91	0.91	138,000	228,000	10,102	16,690	231	366,000	1
1995	6	10	59,834		717,668	437.9	8	0	62,175	208	76	132	62,175	4	14	203	193	0.91	0.91	138,000	228,000	11,482	18,970	231	366,000	1
1995	6	10	59,834		715,286	437.7	8	0	62,216	208	76	132	62,216	4	14	203	193	0.91	0.91	138,000	228,000	11,482	18,970	231	366,000	1
1995	7	10	19,280		712,115	437.6	3	0	22,451	208	76	132	22,451	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1995	7	10	19,280		708,923	437.5	3	0	22,471	208	76	132	22,471	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1995	7	11	21,208		705,390	437.3	3	0	24,741	208	76	132	24,741	4	14	203	193	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1995	8	10	23,311		706,200	437.3	3	0	22,500	208	76	132	22,500	4	14	202	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1995	8	10	23,311		707,016	437.3	3	0	22,495	208	76	132	22,495	4	14	202	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1995	8	11	25,642		707,919	437.3	3	0	24,739	208	76	132	24,739	4	14	203	193	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1995	9	10	38,276		715,945	437.5	4	0	30,249	208	76	132	30,249	4	14	203	193	0.91	0.91	138,000	228,000	5,575	9,211	231	366,000	1
1995	9	10	38,276		716,530	437.7	5	0	37,691	208	76	132	37,691	4	14	203	193	0.91	0.91	138,000	228,000	6,955	11,491	231	366,000	1
1995	9	10	38,276		717,120	437.8	5	0	37,685	208	76	132	37,685	4	14	203	193	0.91	0.91	138,000	228,000	6,955	11,491	231	366,000	1
1995	10	10	70,908	1,629	716,714	437.8	9	0	69,685	208	76	132	69,685	4	14	203	193	0.91	0.91	138,000	228,000	12,862	21,250	231	366,000	1
1995	10	10	70,908	1,629	716,300	437.7	9	0	69,693	208	76	132	69,693	4	14	203	193	0.91	0.91	138,000	228,000	12,862	21,250	231	366,000	1
1995	10	11	77,999	1,792	715,835	437.7	9	0	76,672	208	76	132	76,672	4	14	203	193	0.91	0.91	138,000	228,000	14,148	23,375	231	366,000	1
1995	11	10	70,233		715,611	437.7	9	0	70,457	208	76	132	70,457	4	14	203	193	0.91	0.91	138,000	228,000	13,000	21,478	231	366,000	1
1995	11	10	70,233		715,383	437.7	9	0	70,461	208	76	132	70,461	4	14	203	193	0.91	0.91	138,000	228,000	13,000	21,478	231	366,000	1
1995	11	10	70,233		715,150	437.7	9	0	70,466	208	76	132	70,466	4	14	203	193	0.91	0.91	138,000	228,000	13,000	21,478	231	366,000	1
1995	12	10	21,470		714,175	437.7	3	0	22,445	208	76	132	22,445	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	0
1995	12	10	21,470		713,194	437.6	3	0	22,451	208	76	132	22,451	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	0
1995	12	11	23,618		712,108	437.6	3	0	24,704	208	76	132	24,704	4	14	203	193	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	0

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (12/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1996	1	10	15,423		705,048	437.4	3	0	22,483	208	76	132	22,483	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1996	1	10	15,423		697,944	437.1	3	0	22,527	209	76	132	22,527	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1996	1	11	16,965		690,077	436.7	3	0	24,832	209	77	132	24,832	4	14	202	192	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1996	2	10	14,912		682,364	436.4	3	0	22,625	209	77	133	22,625	4	14	202	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1996	2	10	14,912		674,600	436.0	3	0	22,675	210	77	133	22,675	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1996	2	9	13,421		667,568	435.7	3	0	20,452	210	77	133	20,452	4	14	201	191	0.91	0.91	138,000	228,000	3,726	6,156	231	366,000	1
1996	3	10	7,373		652,140	435.2	3	0	22,801	211	77	134	22,801	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1996	3	10	7,373		636,611	434.5	3	0	22,902	212	77	135	22,902	4	14	200	189	0.91	0.91	137,812	228,000	4,134	6,840	231	365,812	1
1996	3	11	8,110		619,393	433.7	3	0	25,328	213	78	135	25,328	4	15	199	188	0.91	0.91	137,785	228,000	4,547	7,524	231	365,785	2
1996	4	10	28,706		625,026	433.4	3	0	23,073	214	78	136	23,073	4	15	198	188	0.91	0.91	137,815	228,000	4,134	6,840	231	365,815	2
1996	4	10	28,706		630,702	433.7	3	0	23,029	213	78	135	23,029	4	15	199	188	0.91	0.91	137,824	228,000	4,135	6,840	231	365,824	2
1996	4	10	28,706		636,422	434.0	3	0	22,986	213	78	135	22,986	4	14	199	189	0.91	0.91	137,832	228,000	4,135	6,840	231	365,832	2
1996	5	10	7,283		620,684	433.7	3	0	23,022	213	78	135	23,022	4	15	199	188	0.91	0.91	137,789	228,000	4,134	6,840	231	365,789	1
1996	5	10	7,283		604,821	433.0	3	0	23,146	214	78	136	23,146	4	15	198	187	0.91	0.91	137,766	228,000	4,133	6,840	231	365,766	1
1996	5	11	8,011		587,222	432.3	3	0	25,610	216	79	137	25,610	4	15	197	186	0.91	0.91	137,739	228,000	4,545	7,524	231	365,739	2
1996	6	10	22,849		586,711	431.8	3	0	23,360	216	79	137	23,360	4	15	197	186	0.90	0.91	137,755	228,000	4,133	6,840	231	365,755	2
1996	6	10	22,849		586,196	431.8	3	0	23,364	216	79	137	23,364	4	15	197	186	0.90	0.91	137,755	228,000	4,133	6,840	231	365,755	2
1996	6	10	22,849		585,676	431.8	3	0	23,368	216	79	137	23,368	4	15	197	186	0.90	0.91	137,754	228,000	4,133	6,840	231	365,754	2
1996	7	10	25,098		587,411	431.8	3	0	23,364	216	79	137	23,364	4	15	197	186	0.90	0.91	137,759	228,000	4,133	6,840	231	365,759	2
1996	7	10	25,098		589,160	431.9	3	0	23,349	216	79	137	23,349	4	15	197	186	0.90	0.91	137,761	228,000	4,133	6,840	231	365,761	2
1996	7	11	27,608		591,101	432.0	3	0	25,667	216	79	137	25,667	4	15	197	186	0.91	0.91	137,763	228,000	4,546	7,524	231	365,763	2
1996	8	10	27,798		595,592	432.1	3	0	23,307	216	79	137	23,307	4	15	197	186	0.91	0.91	137,773	228,000	4,133	6,840	231	365,773	2
1996	8	10	27,798		600,121	432.3	3	0	23,269	215	79	137	23,269	4	15	197	187	0.91	0.91	137,779	228,000	4,133	6,840	231	365,779	2
1996	8	11	30,578		605,145	432.6	3	0	25,553	215	79	137	25,553	4	15	197	187	0.91	0.91	137,786	228,000	4,547	7,524	231	365,786	2
1996	9	10	55,394		637,456	433.4	3	0	23,084	214	78	136	23,084	4	15	198	188	0.91	0.91	137,859	228,000	4,136	6,840	231	365,859	2
1996	9	10	55,394		670,012	434.9	3	0	22,838	211	77	134	22,838	4	14	200	190	0.91	0.91	137,905	228,000	4,137	6,840	231	365,905	2
1996	9	10	55,394		681,152	435.9	6	0	44,255	210	77	133	44,255	4	14	201	191	0.91	0.91	138,000	228,000	8,073	13,338	231	366,000	1
1996	10	10	74,486	1,629	695,978	436.5	8	0	58,031	209	77	133	58,031	4	14	202	192	0.91	0.91	138,000	228,000	10,626	17,556	231	366,000	1
1996	10	10	74,486	1,629	711,047	437.2	8	0	57,788	208	76	132	57,788	4	14	202	192	0.91	0.91	138,000	228,000	10,626	17,556	231	366,000	1
1996	10	11	81,935	1,792	711,281	437.5	10	0	79,909	208	76	132	79,909	4	14	203	193	0.91	0.91	138,000	228,000	14,725	24,328	231	366,000	1
1996	11	10	36,738		718,994	437.7	4	0	29,025	208	76	132	29,025	4	14	203	193	0.91	0.91	138,000	228,000	5,354	8,846	231	366,000	1
1996	11	10	36,738		719,266	437.9	5	0	36,465	208	76	131	36,465	4	14	203	193	0.91	0.91	138,000	228,000	6,734	11,126	231	366,000	1
1996	11	10	36,738		719,542	437.9	5	0	36,462	208	76	131	36,462	4	14	203	193	0.91	0.91	138,000	228,000	6,734	11,126	231	366,000	1
1996	12	10	26,356		719,599	437.9	4	0	26,299	208	76	131	26,299	4	14	203	193	0.91	0.91	138,000	228,000	4,858	8,026	231	366,000	0
1996	12	10	26,356		719,581	437.9	4	0	26,374	208	76	131	26,374	4	14	203	193	0.91	0.91	138,000	228,000	4,871	8,048	231	366,000	0
1996	12	11	28,992		720,139	437.9	3	0	28,434	208	76	131	28,434	4	14	203	193	0.91	0.91	138,000	228,000	5,252	8,678	231	366,000	0



**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (13/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1997	1	10	7,008		704,687	437.6	3	0	22,459	208	76	132	22,459	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1997	1	10	7,008		689,138	436.9	3	0	22,556	209	76	132	22,556	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1997	1	11	7,708		671,919	436.1	3	0	24,928	210	77	133	24,928	4	14	201	191	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1997	2	10	6,546		655,690	435.3	3	0	22,774	211	77	134	22,774	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1997	2	10	6,546		639,358	434.6	3	0	22,878	212	77	134	22,878	4	14	200	189	0.91	0.91	137,815	228,000	4,134	6,840	231	365,815	1
1997	2	8	5,237		626,203	433.9	3	0	18,392	213	78	135	18,392	4	14	199	189	0.91	0.91	137,800	228,000	3,307	5,472	231	365,800	2
1997	3	10	6,439		609,537	433.3	3	0	23,105	214	78	136	23,105	4	15	198	188	0.91	0.91	137,772	228,000	4,133	6,840	231	365,772	2
1997	3	10	6,439		592,736	432.5	3	0	23,240	215	79	137	23,240	4	15	197	187	0.91	0.91	137,748	228,000	4,132	6,840	231	365,748	2
1997	3	11	7,083		574,092	431.7	3	0	25,726	217	79	138	25,726	4	15	197	186	0.90	0.91	137,719	228,000	4,545	7,524	231	365,719	2
1997	4	10	24,342		574,968	431.3	3	0	23,467	217	79	138	23,467	4	15	196	185	0.90	0.91	137,740	228,000	4,132	6,840	231	365,740	2
1997	4	10	24,342		575,851	431.3	3	0	23,459	217	79	138	23,459	4	15	196	185	0.90	0.91	137,741	228,000	4,132	6,840	231	365,741	2
1997	4	10	24,342		576,742	431.4	3	0	23,451	217	79	138	23,451	4	15	196	185	0.90	0.91	137,743	228,000	4,132	6,840	231	365,743	2
1997	5	10	36,033		589,381	431.7	3	0	23,394	217	79	138	23,394	4	15	197	186	0.90	0.91	137,772	228,000	4,133	6,840	231	365,772	2
1997	5	10	36,033		602,126	432.2	3	0	23,288	216	79	137	23,288	4	15	197	186	0.91	0.91	137,790	228,000	4,134	6,840	231	365,790	2
1997	5	11	39,636		616,267	432.9	3	0	25,496	215	78	136	25,496	4	15	198	187	0.91	0.91	137,811	228,000	4,548	7,524	231	365,811	2
1997	6	10	12,243		605,348	432.9	3	0	23,162	214	78	136	23,162	4	15	198	187	0.91	0.91	137,772	228,000	4,133	6,840	231	365,772	2
1997	6	10	12,243		594,341	432.4	3	0	23,251	215	79	137	23,251	4	15	197	187	0.91	0.91	137,756	228,000	4,133	6,840	231	365,756	2
1997	6	10	12,243		583,241	431.9	3	0	23,343	216	79	137	23,343	4	15	197	186	0.90	0.91	137,740	228,000	4,132	6,840	231	365,740	2
1997	7	10	20,492		580,329	431.6	3	0	23,404	217	79	138	23,404	4	15	196	186	0.90	0.91	137,744	228,000	4,132	6,840	231	365,744	2
1997	7	10	20,492		577,393	431.5	3	0	23,429	217	79	138	23,429	4	15	196	185	0.90	0.91	137,740	228,000	4,132	6,840	231	365,740	2
1997	7	11	22,541		574,133	431.3	3	0	25,801	217	79	138	25,801	4	15	196	185	0.90	0.91	137,734	228,000	4,545	7,524	231	365,734	2
1997	8	10	16,269		566,901	431.1	3	0	23,501	218	79	138	23,501	4	15	196	185	0.90	0.91	137,721	228,000	4,132	6,840	231	365,721	2
1997	8	10	16,269		559,605	430.8	3	0	23,565	218	79	139	23,565	4	15	196	185	0.90	0.91	137,710	228,000	4,131	6,840	231	365,710	2
1997	8	11	17,896		551,503	430.4	3	0	25,999	219	80	139	25,999	4	15	195	184	0.90	0.91	137,697	228,000	4,544	7,524	231	365,697	2
1997	9	10	60,874		588,853	431.1	3	0	23,524	218	79	138	23,524	4	15	196	185	0.90	0.91	138,000	228,000	4,140	6,840	231	366,000	3
1997	9	10	60,874		626,534	432.8	3	0	23,193	215	78	136	23,193	4	15	198	187	0.91	0.91	137,849	228,000	4,135	6,840	231	365,849	2
1997	9	10	60,874		664,509	434.5	3	0	22,899	212	78	135	22,899	4	14	200	189	0.91	0.91	137,902	228,000	4,137	6,840	231	365,902	2
1997	10	10	73,860	1,629	678,954	435.7	8	0	57,785	210	77	133	57,785	4	14	201	191	0.91	0.91	138,000	228,000	10,529	17,396	231	366,000	1
1997	10	10	73,860	1,629	693,645	436.4	8	0	57,541	209	77	133	57,541	4	14	202	191	0.91	0.91	138,000	228,000	10,529	17,396	231	366,000	1
1997	10	11	81,246	1,792	710,081	437.1	8	0	63,017	209	76	132	63,017	4	14	202	192	0.91	0.91	138,000	228,000	11,582	19,136	231	366,000	1
1997	11	10	98,710		715,748	437.6	12	0	93,043	208	76	132	93,043	4	14	203	193	0.91	0.91	138,000	228,000	17,153	28,340	231	366,000	1
1997	11	10	98,710		713,985	437.7	13	0	100,473	208	76	132	100,473	4	14	203	193	0.91	0.91	138,000	228,000	18,533	30,620	231	366,000	1
1997	11	10	98,710		712,171	437.6	13	0	100,524	208	76	132	100,524	4	14	203	193	0.91	0.91	138,000	228,000	18,533	30,620	231	366,000	1
1997	12	10	68,731		719,120	437.7	8	0	61,782	208	76	132	61,782	4	14	203	193	0.91	0.91	138,000	228,000	11,399	18,833	231	366,000	1
1997	12	10	68,731		713,442	437.7	10	0	74,409	208	76	132	74,409	4	14	203	193	0.91	0.91	138,000	228,000	13,731	22,686	231	366,000	0
1997	12	11	75,604		712,138	437.6	9	0	76,907	208	76	132	76,907	4	14	203	193	0.91	0.91	138,000	228,000	14,178	23,425	231	366,000	1

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (14/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1998	1	10	33,174		719,133	437.7	4	0	26,179	208	76	132	26,179	4	14	203	193	0.91	0.91	138,000	228,000	4,830	7,980	231	366,000	1
1998	1	10	33,174		718,680	437.9	5	0	33,628	208	76	132	33,628	4	14	203	193	0.91	0.91	138,000	228,000	6,210	10,260	231	366,000	1
1998	1	11	36,491		718,176	437.8	5	0	36,995	208	76	132	36,995	4	14	203	193	0.91	0.91	138,000	228,000	6,831	11,286	231	366,000	1
1998	2	10	13,889		709,615	437.6	3	0	22,450	208	76	132	22,450	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1998	2	10	13,889		701,001	437.2	3	0	22,504	208	76	132	22,504	4	14	202	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1998	2	8	11,111		694,071	436.9	3	0	18,042	209	76	132	18,042	4	14	202	192	0.91	0.91	138,000	228,000	3,312	5,472	231	366,000	1
1998	3	10	9,354		680,808	436.4	3	0	22,617	209	77	133	22,617	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1998	3	10	9,354		667,457	435.8	3	0	22,704	210	77	133	22,704	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1998	3	11	10,289		652,666	435.2	3	0	25,080	211	77	134	25,080	4	14	200	190	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1998	4	10	6,628		636,394	434.5	3	0	22,900	212	77	135	22,900	4	14	200	189	0.91	0.91	137,811	228,000	4,134	6,840	231	365,811	1
1998	4	10	6,628		619,997	433.7	3	0	23,024	213	78	135	23,024	4	15	199	188	0.91	0.91	137,787	228,000	4,134	6,840	231	365,787	1
1998	4	10	6,628		603,471	433.0	3	0	23,154	214	78	136	23,154	4	15	198	187	0.91	0.91	137,764	228,000	4,133	6,840	231	365,764	2
1998	5	10	9,972		590,168	432.3	3	0	23,276	216	79	137	23,276	4	15	197	187	0.91	0.91	137,748	228,000	4,132	6,840	231	365,748	2
1998	5	10	9,972		576,752	431.7	3	0	23,388	217	79	138	23,388	4	15	197	186	0.90	0.91	137,729	228,000	4,132	6,840	231	365,729	2
1998	5	11	10,969		561,859	431.0	3	0	25,862	218	79	138	25,862	4	15	196	185	0.90	0.91	137,705	228,000	4,544	7,524	231	365,705	2
1998	6	10	16,450		554,699	430.5	3	0	23,610	219	80	139	23,610	4	15	195	184	0.90	0.91	137,703	228,000	4,131	6,840	231	365,703	2
1998	6	10	16,450		547,474	430.2	3	0	23,676	219	80	139	23,676	4	15	195	184	0.90	0.91	137,693	228,000	4,131	6,840	231	365,693	2
1998	6	10	16,450		540,520	429.8	3	0	23,404	217	80	137	23,404	4	15	195	184	0.90	0.91	137,663	224,426	4,130	6,733	231	362,089	2
1998	7	10	30,879		547,988	429.9	3	0	23,412	217	80	137	23,412	4	15	195	184	0.90	0.91	137,694	224,518	4,131	6,736	231	362,212	2
1998	7	10	30,879		555,194	430.2	3	0	23,673	219	80	139	23,673	4	15	195	184	0.90	0.91	137,717	228,000	4,132	6,840	231	365,717	2
1998	7	11	33,967		563,198	430.6	3	0	25,964	219	80	139	25,964	4	15	195	184	0.90	0.91	137,729	228,000	4,545	7,524	231	365,729	2
1998	8	10	31,077		570,740	430.9	3	0	23,534	218	79	139	23,534	4	15	196	185	0.90	0.91	137,741	228,000	4,132	6,840	231	365,741	2
1998	8	10	31,077		578,350	431.3	3	0	23,467	217	79	138	23,467	4	15	196	185	0.90	0.91	137,751	228,000	4,133	6,840	231	365,751	2
1998	8	11	34,185		586,797	431.6	3	0	25,738	217	79	138	25,738	4	15	197	186	0.90	0.91	137,764	228,000	4,546	7,524	231	365,764	2
1998	9	10	39,911		603,414	432.2	3	0	23,293	216	79	137	23,293	4	15	197	186	0.91	0.91	137,796	228,000	4,134	6,840	231	365,796	2
1998	9	10	39,911		620,168	433.0	3	0	23,157	214	78	136	23,157	4	15	198	187	0.91	0.91	137,820	228,000	4,135	6,840	231	365,820	2
1998	9	10	39,911		637,054	433.7	3	0	23,025	213	78	135	23,025	4	15	199	188	0.91	0.91	137,843	228,000	4,135	6,840	231	365,843	2
1998	10	10	49,088	1,629	661,643	434.7	3	0	22,869	212	77	134	22,869	4	14	200	189	0.91	0.91	137,885	228,000	4,137	6,840	231	365,885	2
1998	10	10	49,088	1,629	671,098	435.5	5	0	38,003	211	77	134	38,003	4	14	201	190	0.91	0.91	138,000	228,000	6,914	11,423	231	366,000	1
1998	10	11	53,996	1,792	681,622	435.9	5	0	41,681	210	77	133	41,681	4	14	201	191	0.91	0.91	138,000	228,000	7,605	12,565	231	366,000	1
1998	11	10	27,393		686,376	436.3	3	0	22,639	210	77	133	22,639	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1998	11	10	27,393		691,160	436.5	3	0	22,608	209	77	133	22,608	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1998	11	10	27,393		695,976	436.7	3	0	22,577	209	77	132	22,577	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1998	12	10	30,862		702,342	437.0	3	0	24,496	209	76	132	24,496	4	14	202	192	0.91	0.91	138,000	228,000	4,499	7,433	231	366,000	1
1998	12	10	30,862		708,752	437.2	3	0	24,452	208	76	132	24,452	4	14	202	193	0.91	0.91	138,000	228,000	4,499	7,433	231	366,000	1
1998	12	11	33,948		715,852	437.6	3	0	26,847	208	76	132	26,847	4	14	203	193	0.91	0.91	138,000	228,000	4,949	8,176	231	366,000	1

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (15/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
1999	1	10	63,197		714,190	437.7	9	0	64,860	208	76	132	64,860	4	14	203	193	0.91	0.91	138,000	228,000	11,965	19,768	231	366,000	1
1999	1	10	63,197		712,497	437.6	9	0	64,890	208	76	132	64,890	4	14	203	193	0.91	0.91	138,000	228,000	11,965	19,768	231	366,000	1
1999	1	11	69,517		718,909	437.7	8	0	63,105	208	76	132	63,105	4	14	203	193	0.91	0.91	138,000	228,000	11,643	19,236	231	366,000	1
1999	2	10	28,287		717,299	437.8	4	0	29,898	208	76	132	29,898	4	14	203	193	0.91	0.91	138,000	228,000	5,520	9,120	231	366,000	1
1999	2	10	28,287		715,674	437.7	4	0	29,911	208	76	132	29,911	4	14	203	193	0.91	0.91	138,000	228,000	5,520	9,120	231	366,000	1
1999	2	8	22,630		720,365	437.8	3	0	17,939	208	76	132	17,939	4	14	203	193	0.91	0.91	138,000	228,000	3,312	5,472	231	366,000	1
1999	3	10	20,385		718,334	437.9	3	0	22,416	208	76	131	22,416	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1999	3	10	20,385		716,291	437.8	3	0	22,428	208	76	132	22,428	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1999	3	11	22,424		714,028	437.7	3	0	24,686	208	76	132	24,686	4	14	203	193	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1999	4	10	27,999		719,596	437.8	3	0	22,432	208	76	132	22,432	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1999	4	10	27,999		717,701	437.8	4	0	29,893	208	76	132	29,893	4	14	203	193	0.91	0.91	138,000	228,000	5,520	9,120	231	366,000	1
1999	4	10	27,999		715,791	437.8	4	0	29,909	208	76	132	29,909	4	14	203	193	0.91	0.91	138,000	228,000	5,520	9,120	231	366,000	1
1999	5	10	28,945		714,364	437.7	4	0	30,372	208	76	132	30,372	4	14	203	193	0.91	0.91	138,000	228,000	5,603	9,257	231	366,000	1
1999	5	10	28,945		720,433	437.8	3	0	22,876	208	76	132	22,876	4	14	203	193	0.91	0.91	138,000	228,000	4,223	6,977	231	366,000	1
1999	5	11	31,840		718,906	437.9	4	0	33,366	208	76	131	33,366	4	14	203	193	0.91	0.91	138,000	228,000	6,163	10,182	231	366,000	1
1999	6	10	82,078		713,713	437.7	12	0	87,271	208	76	132	87,271	4	14	203	193	0.91	0.91	138,000	228,000	16,105	26,608	231	366,000	1
1999	6	10	82,078		715,965	437.7	11	0	79,826	208	76	132	79,826	4	14	203	193	0.91	0.91	138,000	228,000	14,725	24,328	231	366,000	1
1999	6	10	82,078		718,268	437.8	11	0	79,775	208	76	132	79,775	4	14	203	193	0.91	0.91	138,000	228,000	14,725	24,328	231	366,000	1
1999	7	10	17,503		713,333	437.7	3	0	22,438	208	76	132	22,438	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1999	7	10	17,503		708,366	437.5	3	0	22,469	208	76	132	22,469	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1999	7	11	19,253		702,868	437.3	3	0	24,752	208	76	132	24,752	4	14	202	193	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1999	8	10	10,730		691,042	436.9	3	0	22,556	209	76	132	22,556	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1999	8	10	10,730		679,140	436.3	3	0	22,632	210	77	133	22,632	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1999	8	11	11,803		665,956	435.7	3	0	24,986	210	77	133	24,986	4	14	201	191	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
1999	9	10	15,039		658,209	435.3	3	0	22,786	211	77	134	22,786	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1999	9	10	15,039		650,419	434.9	3	0	22,829	211	77	134	22,829	4	14	200	190	0.91	0.91	137,838	228,000	4,135	6,840	231	365,838	1
1999	9	10	15,039		642,572	434.6	3	0	22,887	212	77	134	22,887	4	14	200	189	0.91	0.91	137,827	228,000	4,135	6,840	231	365,827	1
1999	10	10	28,352	1,629	646,392	434.5	3	0	22,903	212	77	135	22,903	4	14	200	189	0.91	0.91	137,844	228,000	4,135	6,840	231	365,844	2
1999	10	10	28,352	1,629	650,240	434.6	3	0	22,875	212	77	134	22,875	4	14	200	189	0.91	0.91	137,849	228,000	4,135	6,840	231	365,849	2
1999	10	11	31,187	1,792	654,506	434.8	3	0	25,129	212	77	134	25,129	4	14	200	190	0.91	0.91	137,855	228,000	4,549	7,524	231	365,855	2
1999	11	10	27,086		658,769	435.0	3	0	22,823	211	77	134	22,823	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1999	11	10	27,086		663,061	435.2	3	0	22,794	211	77	134	22,794	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1999	11	10	27,086		667,383	435.4	3	0	22,764	211	77	134	22,764	4	14	201	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1999	12	10	25,605		670,248	435.6	3	0	22,740	211	77	134	22,740	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1999	12	10	25,605		673,133	435.7	3	0	22,721	210	77	133	22,721	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
1999	12	11	28,166		676,328	435.8	3	0	24,970	210	77	133	24,970	4	14	201	191	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (16/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
2000	1	10	25,586		679,234	436.0	3	0	22,680	210	77	133	22,680	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	1	10	25,586		682,159	436.1	3	0	22,661	210	77	133	22,661	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	1	11	28,145		685,399	436.3	3	0	24,905	210	77	133	24,905	4	14	201	191	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
2000	2	10	41,818		693,916	436.5	4	0	33,301	209	77	133	33,301	4	14	202	192	0.91	0.91	138,000	228,000	6,100	10,078	231	366,000	1
2000	2	10	41,818		702,513	436.9	4	0	33,221	209	76	132	33,221	4	14	202	192	0.91	0.91	138,000	228,000	6,100	10,078	231	366,000	1
2000	2	9	37,636		710,318	437.3	4	0	29,831	208	76	132	29,831	4	14	202	193	0.91	0.91	138,000	228,000	5,490	9,070	231	366,000	1
2000	3	10	24,570		712,423	437.5	3	0	22,466	208	76	132	22,466	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	3	10	24,570		714,540	437.6	3	0	22,453	208	76	132	22,453	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	3	11	27,027		716,885	437.7	3	0	24,682	208	76	132	24,682	4	14	203	193	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
2000	4	10	25,107		719,569	437.8	3	0	22,423	208	76	132	22,423	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	4	10	25,107		714,770	437.8	4	0	29,906	208	76	132	29,906	4	14	203	193	0.91	0.91	138,000	228,000	5,520	9,120	231	366,000	1
2000	4	10	25,107		717,441	437.7	3	0	22,436	208	76	132	22,436	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	5	10	9,463		704,436	437.5	3	0	22,469	208	76	132	22,469	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	5	10	9,463		691,349	436.9	3	0	22,550	209	76	132	22,550	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	5	11	10,410		676,856	436.3	3	0	24,902	210	77	133	24,902	4	14	201	191	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
2000	6	10	19,115		673,274	435.9	3	0	22,698	210	77	133	22,698	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	6	10	19,115		669,667	435.7	3	0	22,722	210	77	133	22,722	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	6	10	19,115		666,036	435.5	3	0	22,747	211	77	134	22,747	4	14	201	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	7	10	12,787		656,030	435.2	3	0	22,793	211	77	134	22,793	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	7	10	12,787		645,963	434.8	3	0	22,853	212	77	134	22,853	4	14	200	190	0.91	0.91	137,830	228,000	4,135	6,840	231	365,830	1
2000	7	11	14,066		634,804	434.3	3	0	25,225	212	78	135	25,225	4	14	199	189	0.91	0.91	137,813	228,000	4,548	7,524	231	365,813	1
2000	8	10	41,729		642,802	434.2	4	0	33,731	212	78	135	33,731	4	14	199	189	0.91	0.91	137,841	228,000	6,079	10,055	231	365,841	1
2000	8	10	41,729		650,888	434.6	4	0	33,642	212	77	134	33,642	4	14	200	189	0.91	0.91	137,852	228,000	6,079	10,055	231	365,852	1
2000	8	11	45,901		659,884	435.0	4	0	36,905	211	77	134	36,905	4	14	200	190	0.91	0.91	137,865	228,000	6,688	11,060	231	365,865	1
2000	9	10	24,126		661,213	435.2	3	0	22,796	211	77	134	22,796	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	9	10	24,126		662,552	435.3	3	0	22,787	211	77	134	22,787	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	9	10	24,126		663,899	435.3	3	0	22,778	211	77	134	22,778	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	10	10	32,539	1,629	670,085	435.5	3	0	24,724	211	77	134	24,724	4	14	201	190	0.91	0.91	138,000	228,000	4,499	7,433	231	366,000	1
2000	10	10	32,539	1,629	676,315	435.8	3	0	24,679	210	77	133	24,679	4	14	201	191	0.91	0.91	138,000	228,000	4,499	7,433	231	366,000	1
2000	10	11	35,792	1,792	683,221	436.1	3	0	27,095	210	77	133	27,095	4	14	201	191	0.91	0.91	138,000	228,000	4,949	8,176	231	366,000	1
2000	11	10	30,481		689,419	436.4	3	0	24,283	209	77	133	24,283	4	14	202	191	0.91	0.91	138,000	228,000	4,444	7,342	231	366,000	1
2000	11	10	30,481		695,660	436.7	3	0	24,240	209	77	133	24,240	4	14	202	192	0.91	0.91	138,000	228,000	4,444	7,342	231	366,000	1
2000	11	10	30,481		701,944	436.9	3	0	24,198	209	76	132	24,198	4	14	202	192	0.91	0.91	138,000	228,000	4,444	7,342	231	366,000	1
2000	12	10	28,349		707,786	437.2	3	0	22,506	208	76	132	22,506	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	12	10	28,349		713,665	437.5	3	0	22,470	208	76	132	22,470	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2000	12	11	31,184		719,349	437.7	3	0	25,499	208	76	132	25,499	4	14	203	193	0.91	0.91	138,000	228,000	4,706	7,775	231	366,000	1

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (17/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
2001	1	10	34,214		719,116	437.9	5	0	34,446	208	76	131	34,446	4	14	203	193	0.91	0.91	138,000	228,000	6,362	10,511	231	366,000	1
2001	1	10	34,214		718,882	437.9	5	0	34,449	208	76	131	34,449	4	14	203	193	0.91	0.91	138,000	228,000	6,362	10,511	231	366,000	1
2001	1	11	37,635		718,621	437.9	5	0	37,896	208	76	132	37,896	4	14	203	193	0.91	0.91	138,000	228,000	6,998	11,562	231	366,000	1
2001	2	10	26,417		715,130	437.8	4	0	29,908	208	76	132	29,908	4	14	203	193	0.91	0.91	138,000	228,000	5,520	9,120	231	366,000	1
2001	2	10	26,417		719,118	437.8	3	0	22,430	208	76	132	22,430	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2001	2	8	21,134		716,331	437.8	4	0	23,921	208	76	132	23,921	4	14	203	193	0.91	0.91	138,000	228,000	4,416	7,296	231	366,000	1
2001	3	10	9,903		703,760	437.5	3	0	22,474	208	76	132	22,474	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2001	3	10	9,903		691,110	436.9	3	0	22,553	209	76	132	22,553	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2001	3	11	10,893		677,101	436.3	3	0	24,902	210	77	133	24,902	4	14	201	191	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
2001	4	10	26,920		681,351	436.0	3	0	22,671	210	77	133	22,671	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2001	4	10	26,920		685,628	436.2	3	0	22,643	210	77	133	22,643	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2001	4	10	26,920		689,934	436.4	3	0	22,615	209	77	133	22,615	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2001	5	10	12,820		680,121	436.3	3	0	22,633	210	77	133	22,633	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2001	5	10	12,820		670,243	435.9	3	0	22,697	210	77	133	22,697	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2001	5	11	14,101		659,300	435.4	3	0	25,044	211	77	134	25,044	4	14	200	190	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
2001	6	10	10,653		647,116	434.9	3	0	22,837	211	77	134	22,837	4	14	200	190	0.91	0.91	137,830	228,000	4,135	6,840	231	365,830	1
2001	6	10	10,653		634,842	434.3	3	0	22,928	212	78	135	22,928	4	14	199	189	0.91	0.91	137,812	228,000	4,134	6,840	231	365,812	1
2001	6	10	10,653		622,474	433.7	3	0	23,021	213	78	135	23,021	4	15	199	188	0.91	0.91	137,795	228,000	4,134	6,840	231	365,795	1
2001	7	10	24,312		623,719	433.5	3	0	23,066	214	78	136	23,066	4	15	198	188	0.91	0.91	137,809	228,000	4,134	6,840	231	365,809	2
2001	7	10	24,312		624,975	433.5	3	0	23,056	213	78	136	23,056	4	15	199	188	0.91	0.91	137,811	228,000	4,134	6,840	231	365,811	2
2001	7	11	26,743		626,367	433.6	3	0	25,350	213	78	135	25,350	4	15	199	188	0.91	0.91	137,813	228,000	4,548	7,524	231	365,813	2
2001	8	10	17,453		620,759	433.5	3	0	23,061	214	78	136	23,061	4	15	199	188	0.91	0.91	137,799	228,000	4,134	6,840	231	365,799	2
2001	8	10	17,453		615,106	433.3	3	0	23,106	214	78	136	23,106	4	15	198	188	0.91	0.91	137,791	228,000	4,134	6,840	231	365,791	2
2001	8	11	19,199		608,836	433.0	3	0	25,469	214	78	136	25,469	4	15	198	187	0.91	0.91	137,781	228,000	4,547	7,524	231	365,781	2
2001	9	10	23,373		609,031	432.8	3	0	23,178	215	78	136	23,178	4	15	198	187	0.91	0.91	137,788	228,000	4,134	6,840	231	365,788	2
2001	9	10	23,373		609,227	432.9	3	0	23,177	215	78	136	23,177	4	15	198	187	0.91	0.91	137,788	228,000	4,134	6,840	231	365,788	2
2001	9	10	23,373		609,425	432.9	3	0	23,175	215	78	136	23,175	4	15	198	187	0.91	0.91	137,788	228,000	4,134	6,840	231	365,788	2
2001	10	10	44,721	1,629	629,420	433.3	3	0	23,097	214	78	136	23,097	4	15	198	188	0.91	0.91	137,836	228,000	4,135	6,840	231	365,836	2
2001	10	10	44,721	1,629	649,570	434.2	3	0	22,942	212	78	135	22,942	4	14	199	189	0.91	0.91	137,864	228,000	4,136	6,840	231	365,864	2
2001	10	11	49,194	1,792	671,897	435.2	3	0	25,075	211	77	134	25,075	4	14	200	190	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	2
2001	11	10	27,555		676,750	435.8	3	0	22,703	210	77	133	22,703	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2001	11	10	27,555		681,634	436.0	3	0	22,671	210	77	133	22,671	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2001	11	10	27,555		686,551	436.3	3	0	22,639	210	77	133	22,639	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2001	12	10	34,405		693,610	436.5	4	0	27,346	209	77	133	27,346	4	14	202	192	0.91	0.91	138,000	228,000	5,009	8,276	231	366,000	1
2001	12	10	34,405		700,724	436.9	4	0	27,291	209	76	132	27,291	4	14	202	192	0.91	0.91	138,000	228,000	5,009	8,276	231	366,000	1
2001	12	11	37,845		708,612	437.2	4	0	29,957	208	76	132	29,957	4	14	202	192	0.91	0.91	138,000	228,000	5,510	9,104	231	366,000	1

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (18/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
2002	1	10	17,056		703,167	437.3	3	0	22,500	208	76	132	22,500	4	14	202	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2002	1	10	17,056		697,689	437.0	3	0	22,534	209	76	132	22,534	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2002	1	11	18,761		691,623	436.8	3	0	24,828	209	77	132	24,828	4	14	202	192	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
2002	2	10	10,174		679,166	436.3	3	0	22,630	210	77	133	22,630	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2002	2	10	10,174		666,628	435.8	3	0	22,713	210	77	133	22,713	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2002	2	8	8,139		656,535	435.2	3	0	18,231	211	77	134	18,231	4	14	200	190	0.91	0.91	138,000	228,000	3,312	5,472	231	366,000	1
2002	3	10	7,204		640,870	434.7	3	0	22,870	212	77	134	22,870	4	14	200	189	0.91	0.91	137,818	228,000	4,135	6,840	231	365,818	1
2002	3	10	7,204		625,086	433.9	3	0	22,988	213	78	135	22,988	4	14	199	189	0.91	0.91	137,795	228,000	4,134	6,840	231	365,795	1
2002	3	11	7,924		607,581	433.2	3	0	25,429	214	78	136	25,429	4	15	198	188	0.91	0.91	137,768	228,000	4,546	7,524	231	365,768	2
2002	4	10	38,022		622,471	433.1	3	0	23,131	214	78	136	23,131	4	15	198	188	0.91	0.91	137,821	228,000	4,135	6,840	231	365,821	2
2002	4	10	38,022		637,478	433.8	3	0	23,014	213	78	135	23,014	4	15	199	188	0.91	0.91	137,842	228,000	4,135	6,840	231	365,842	2
2002	4	10	38,022		644,776	434.3	4	0	30,724	212	78	135	30,724	4	14	199	189	0.91	0.91	137,843	228,000	5,541	9,166	231	365,843	1
2002	5	10	23,609		645,486	434.5	3	0	22,898	212	77	135	22,898	4	14	200	189	0.91	0.91	137,840	228,000	4,135	6,840	231	365,840	1
2002	5	10	23,609		646,203	434.5	3	0	22,893	212	77	135	22,893	4	14	200	189	0.91	0.91	137,841	228,000	4,135	6,840	231	365,841	1
2002	5	11	25,970		646,997	434.6	3	0	25,176	212	77	134	25,176	4	14	200	189	0.91	0.91	137,841	228,000	4,549	7,524	231	365,841	1
2002	6	10	20,722		644,827	434.5	3	0	22,892	212	77	135	22,892	4	14	200	189	0.91	0.91	137,836	228,000	4,135	6,840	231	365,836	1
2002	6	10	20,722		642,642	434.4	3	0	22,908	212	78	135	22,908	4	14	199	189	0.91	0.91	137,833	228,000	4,135	6,840	231	365,833	1
2002	6	10	20,722		640,440	434.3	3	0	22,924	212	78	135	22,924	4	14	199	189	0.91	0.91	137,830	228,000	4,135	6,840	231	365,830	1
2002	7	10	10,126		627,586	434.0	3	0	22,980	213	78	135	22,980	4	14	199	189	0.91	0.91	137,802	228,000	4,134	6,840	231	365,802	1
2002	7	10	10,126		614,631	433.4	3	0	23,080	214	78	136	23,080	4	15	198	188	0.91	0.91	137,783	228,000	4,133	6,840	231	365,783	1
2002	7	11	11,139		600,262	432.8	3	0	25,508	215	78	136	25,508	4	15	198	187	0.91	0.91	137,761	228,000	4,546	7,524	231	365,761	2
2002	8	10	19,617		596,616	432.4	3	0	23,263	215	79	137	23,263	4	15	197	187	0.91	0.91	137,766	228,000	4,133	6,840	231	365,766	2
2002	8	10	19,617		592,940	432.2	3	0	23,294	216	79	137	23,294	4	15	197	186	0.91	0.91	137,761	228,000	4,133	6,840	231	365,761	2
2002	8	11	21,579		588,860	432.0	3	0	25,659	216	79	137	25,659	4	15	197	186	0.91	0.91	137,754	228,000	4,546	7,524	231	365,754	2
2002	9	10	22,844		588,358	431.9	3	0	23,346	216	79	137	23,346	4	15	197	186	0.90	0.91	137,758	228,000	4,133	6,840	231	365,758	2
2002	9	10	22,844		587,852	431.9	3	0	23,350	216	79	137	23,350	4	15	197	186	0.90	0.91	137,757	228,000	4,133	6,840	231	365,757	2
2002	9	10	22,844		587,341	431.9	3	0	23,354	216	79	137	23,354	4	15	197	186	0.90	0.91	137,756	228,000	4,133	6,840	231	365,756	2
2002	10	10	23,648	1,629	585,998	431.8	3	0	23,362	216	79	137	23,362	4	15	197	186	0.90	0.91	137,754	228,000	4,133	6,840	231	365,754	2
2002	10	10	23,648	1,629	584,643	431.8	3	0	23,374	216	79	138	23,374	4	15	197	186	0.90	0.91	137,752	228,000	4,133	6,840	231	365,752	2
2002	10	11	26,012	1,792	583,139	431.7	3	0	25,724	217	79	138	25,724	4	15	197	186	0.90	0.91	137,749	228,000	4,546	7,524	231	365,749	2
2002	11	10	48,622		608,473	432.2	3	0	23,289	216	79	137	23,289	4	15	197	186	0.91	0.91	137,811	228,000	4,134	6,840	231	365,811	2
2002	11	10	48,622		634,012	433.4	3	0	23,083	214	78	136	23,083	4	15	198	188	0.91	0.91	137,848	228,000	4,135	6,840	231	365,848	2
2002	11	10	48,622		659,746	434.6	3	0	22,888	212	77	134	22,888	4	14	200	189	0.91	0.91	137,884	228,000	4,137	6,840	231	365,884	2
2002	12	10	37,214		667,123	435.3	4	0	29,837	211	77	134	29,837	4	14	200	190	0.91	0.91	138,000	228,000	5,423	8,960	231	366,000	1
2002	12	10	37,214		674,565	435.7	4	0	29,771	210	77	133	29,771	4	14	201	191	0.91	0.91	138,000	228,000	5,423	8,960	231	366,000	1
2002	12	11	40,936		682,828	436.0	4	0	32,673	210	77	133	32,673	4	14	201	191	0.91	0.91	138,000	228,000	5,966	9,856	231	366,000	1

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (19/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
2003	1	10	34,978		689,979	436.4	4	0	27,827	209	77	133	27,827	4	14	202	191	0.91	0.91	138,000	228,000	5,092	8,413	231	366,000	1
2003	1	10	34,978		697,187	436.7	4	0	27,770	209	77	132	27,770	4	14	202	192	0.91	0.91	138,000	228,000	5,092	8,413	231	366,000	1
2003	1	11	38,476		705,181	437.1	4	0	30,482	209	76	132	30,482	4	14	202	192	0.91	0.91	138,000	228,000	5,601	9,255	231	366,000	1
2003	2	10	18,746		701,411	437.1	3	0	22,516	208	76	132	22,516	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2003	2	10	18,746		697,617	437.0	3	0	22,540	209	76	132	22,540	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2003	2	8	14,997		694,565	436.8	3	0	18,049	209	77	132	18,049	4	14	202	192	0.91	0.91	138,000	228,000	3,312	5,472	231	366,000	1
2003	3	10	28,545		700,482	436.9	3	0	22,628	209	76	132	22,628	4	14	202	192	0.91	0.91	138,000	228,000	4,154	6,863	231	366,000	1
2003	3	10	28,545		706,438	437.2	3	0	22,590	208	76	132	22,590	4	14	202	192	0.91	0.91	138,000	228,000	4,154	6,863	231	366,000	1
2003	3	11	31,400		713,031	437.4	3	0	24,806	208	76	132	24,806	4	14	203	193	0.91	0.91	138,000	228,000	4,569	7,549	231	366,000	1
2003	4	10	29,618		719,241	437.7	3	0	23,408	208	76	132	23,408	4	14	203	193	0.91	0.91	138,000	228,000	4,319	7,136	231	366,000	1
2003	4	10	29,618		717,994	437.8	4	0	30,865	208	76	132	30,865	4	14	203	193	0.91	0.91	138,000	228,000	5,699	9,416	231	366,000	1
2003	4	10	29,618		716,737	437.8	4	0	30,876	208	76	132	30,876	4	14	203	193	0.91	0.91	138,000	228,000	5,699	9,416	231	366,000	1
2003	5	10	29,644		715,494	437.7	4	0	30,887	208	76	132	30,887	4	14	203	193	0.91	0.91	138,000	228,000	5,699	9,416	231	366,000	1
2003	5	10	29,644		714,240	437.7	4	0	30,898	208	76	132	30,898	4	14	203	193	0.91	0.91	138,000	228,000	5,699	9,416	231	366,000	1
2003	5	11	32,608		721,110	437.8	3	0	25,738	208	76	132	25,738	4	14	203	193	0.91	0.91	138,000	228,000	4,751	7,850	231	366,000	1
2003	6	10	6,910		705,567	437.6	3	0	22,453	208	76	132	22,453	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2003	6	10	6,910		689,927	436.9	3	0	22,551	209	76	132	22,551	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2003	6	10	6,910		674,185	436.2	3	0	22,652	210	77	133	22,652	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2003	7	10	15,271		666,727	435.6	3	0	22,729	210	77	133	22,729	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2003	7	10	15,271		659,219	435.3	3	0	22,780	211	77	134	22,780	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2003	7	11	16,798		650,911	434.9	3	0	25,106	211	77	134	25,106	4	14	200	190	0.91	0.91	137,838	228,000	4,549	7,524	231	365,838	1
2003	8	10	28,126		656,201	434.9	3	0	22,836	211	77	134	22,836	4	14	200	190	0.91	0.91	137,859	228,000	4,136	6,840	231	365,859	1
2003	8	10	28,126		661,519	435.1	3	0	22,808	211	77	134	22,808	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2003	8	11	30,939		667,411	435.4	3	0	25,046	211	77	134	25,046	4	14	200	190	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
2003	9	10	26,560		671,234	435.6	3	0	22,737	211	77	133	22,737	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2003	9	10	26,560		675,083	435.8	3	0	22,711	210	77	133	22,711	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2003	9	10	26,560		678,957	435.9	3	0	22,685	210	77	133	22,685	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2003	10	10	9,582	1,629	664,189	435.7	3	0	22,721	210	77	133	22,721	4	14	201	191	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2003	10	10	9,582	1,629	649,319	435.0	3	0	22,823	211	77	134	22,823	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2003	10	11	10,540	1,792	632,848	434.3	3	0	25,219	212	78	135	25,219	4	14	199	189	0.91	0.91	137,805	228,000	4,548	7,524	231	365,805	2
2003	11	10	13,720		623,544	433.7	3	0	23,025	213	78	135	23,025	4	15	199	188	0.91	0.91	137,799	228,000	4,134	6,840	231	365,799	2
2003	11	10	13,720		614,165	433.3	3	0	23,098	214	78	136	23,098	4	15	198	188	0.91	0.91	137,786	228,000	4,134	6,840	231	365,786	2
2003	11	10	13,720		604,712	432.9	3	0	23,173	215	78	136	23,173	4	15	198	187	0.91	0.91	137,772	228,000	4,133	6,840	231	365,772	2
2003	12	10	6,448		587,880	432.3	3	0	23,280	216	79	137	23,280	4	15	197	186	0.91	0.91	137,741	228,000	4,132	6,840	231	365,741	2
2003	12	10	6,448		570,906	431.5	3	0	23,422	217	79	138	23,422	4	15	196	186	0.90	0.91	137,717	228,000	4,132	6,840	231	365,717	2
2003	12	11	7,093		552,263	430.7	3	0	25,735	217	80	137	25,735	4	15	195	185	0.90	0.91	138,000	225,809	4,554	7,452	231	363,809	1

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (20/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
2004	1	10	8,206		537,751	429.9	3	0	22,718	210	78	133	22,718	4	14	195	185	0.90	0.91	134,052	218,617	4,022	6,559	231	352,669	3
2004	1	10	8,206		523,868	429.1	3	0	22,089	205	76	129	22,089	4	13	194	185	0.90	0.91	129,813	212,477	3,894	6,374	231	342,290	3
2004	1	11	9,027		508,496	428.2	3	0	24,399	205	80	125	24,399	4	12	193	185	0.90	0.92	136,682	208,387	4,511	6,877	231	345,068	3
2004	2	10	5,822		492,527	427.3	3	0	21,791	202	81	121	21,791	4	12	192	185	0.90	0.92	136,651	201,346	4,100	6,040	231	337,997	3
2004	2	10	5,822		476,951	426.4	3	0	21,398	198	81	117	21,398	4	11	191	185	0.90	0.92	136,617	194,253	4,099	5,828	231	330,870	3
2004	2	9	5,240		463,259	425.5	3	0	18,932	195	81	113	18,932	4	10	190	185	0.90	0.92	136,587	187,667	3,688	5,067	231	324,255	3
2004	3	10	6,555		445,900	424.6	3	0	23,914	221	82	139	23,914	5	15	189	178	0.90	0.90	136,565	220,682	4,097	6,620	231	357,246	3
2004	3	10	6,555		428,519	423.6	3	0	23,936	222	82	140	23,936	5	15	188	177	0.90	0.90	135,765	219,602	4,073	6,588	231	355,367	3
2004	3	11	7,211		409,368	422.6	3	0	26,362	222	82	140	26,362	5	16	187	176	0.90	0.90	134,875	218,574	4,451	7,213	231	353,448	3
2004	4	10	17,728		403,120	421.8	3	0	23,976	222	82	140	23,976	5	16	186	175	0.90	0.90	134,256	217,742	4,028	6,532	231	351,998	3
2004	4	10	17,728		396,872	421.5	3	0	23,976	222	82	140	23,976	5	16	186	175	0.90	0.90	133,951	217,269	4,019	6,518	231	351,220	3
2004	4	10	17,728		390,625	421.1	3	0	23,976	222	82	140	23,976	5	16	186	175	0.89	0.90	133,647	216,795	4,009	6,504	231	350,442	3
2004	5	10	21,804		388,453	420.9	3	0	23,976	222	82	140	23,976	5	16	185	174	0.89	0.90	133,442	216,476	4,003	6,494	231	349,918	3
2004	5	10	21,804		386,281	420.7	3	0	23,976	222	82	140	23,976	5	16	185	174	0.89	0.90	133,336	216,311	4,000	6,489	231	349,647	3
2004	5	11	23,985		383,892	420.6	3	0	26,374	222	82	140	26,374	5	16	185	174	0.89	0.90	133,225	216,138	4,396	7,133	231	349,363	3
2004	6	10	32,339		392,255	420.8	3	0	23,976	222	82	140	23,976	5	16	185	174	0.89	0.90	133,370	216,364	4,001	6,491	231	349,735	3
2004	6	10	32,339		400,618	421.3	3	0	23,976	222	82	140	23,976	5	16	186	175	0.90	0.90	133,778	216,999	4,013	6,510	231	350,777	3
2004	6	10	32,339		408,981	421.7	3	0	23,976	222	82	140	23,976	5	16	186	175	0.90	0.90	134,185	217,633	4,026	6,529	231	351,818	3
2004	7	10	30,590		415,594	422.2	3	0	23,976	222	82	140	23,976	5	16	187	176	0.90	0.90	134,550	218,199	4,037	6,546	231	352,749	3
2004	7	10	30,590		422,208	422.6	3	0	23,976	222	82	140	23,976	5	16	187	176	0.90	0.90	134,872	218,700	4,046	6,561	231	353,572	3
2004	7	11	33,649		429,483	423.0	3	0	26,374	222	82	140	26,374	5	16	188	176	0.90	0.90	135,211	219,224	4,462	7,234	231	354,435	3
2004	8	10	22,115		427,622	423.1	3	0	23,976	222	82	140	23,976	5	16	188	177	0.90	0.90	135,342	219,429	4,060	6,583	231	354,771	3
2004	8	10	22,115		425,762	423.0	3	0	23,976	222	82	140	23,976	5	16	188	177	0.90	0.90	135,252	219,288	4,058	6,579	231	354,540	3
2004	8	11	24,327		423,715	422.9	3	0	26,374	222	82	140	26,374	5	16	187	176	0.90	0.90	135,157	219,141	4,460	7,232	231	354,297	3
2004	9	10	25,837		425,634	422.9	3	0	23,918	221	82	139	23,918	5	15	187	177	0.90	0.90	135,154	218,447	4,055	6,553	231	353,601	3
2004	9	10	25,837		427,563	423.0	3	0	23,908	221	82	139	23,908	5	15	188	177	0.90	0.90	135,248	218,474	4,057	6,554	231	353,722	3
2004	9	10	25,837		429,502	423.1	3	0	23,898	221	82	139	23,898	5	15	188	177	0.90	0.90	135,343	218,501	4,060	6,555	231	353,843	3
2004	10	10	40,463	1,629	444,481	423.6	3	0	23,855	221	82	139	23,855	5	15	188	177	0.90	0.90	135,755	218,612	4,073	6,558	231	354,368	3
2004	10	10	40,463	1,629	459,535	424.5	3	0	23,779	220	82	138	23,779	5	15	189	178	0.90	0.90	136,488	218,818	4,095	6,565	231	355,306	3
2004	10	11	44,509	1,792	479,170	425.5	3	0	23,083	194	81	113	23,083	4	10	190	185	0.90	0.92	136,577	186,899	4,507	6,168	231	323,476	3
2004	11	10	42,044		499,678	426.7	3	0	21,536	199	81	118	21,536	4	11	191	185	0.90	0.92	136,630	196,639	4,099	5,899	231	333,269	3
2004	11	10	42,044		519,681	427.9	3	0	22,041	204	80	124	22,041	4	12	193	185	0.90	0.92	136,673	205,754	4,100	6,173	231	342,428	3
2004	11	10	42,044		539,650	429.0	3	0	22,074	204	75	129	22,074	4	13	194	185	0.90	0.91	129,670	212,254	3,890	6,368	231	341,924	3
2004	12	10	61,758		578,081	430.6	3	0	23,327	216	80	136	23,327	4	15	195	185	0.90	0.91	138,000	224,801	4,140	6,744	231	362,801	3
2004	12	10	61,758		616,561	432.3	3	0	23,278	216	79	137	23,278	4	15	197	187	0.91	0.91	137,835	228,000	4,135	6,840	231	365,835	2
2004	12	11	67,934		659,242	434.2	3	0	25,253	213	78	135	25,253	4	14	199	189	0.91	0.91	137,899	228,000	4,551	7,524	231	365,899	3



**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (21/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
2005	1	10	22,245		658,680	435.1	3	0	22,807	211	77	134	22,807	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2005	1	10	22,245		658,114	435.1	3	0	22,811	211	77	134	22,811	4	14	200	190	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2005	1	11	24,470		657,486	435.1	3	0	25,097	211	77	134	25,097	4	14	200	190	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
2005	2	10	20,069		654,730	435.0	3	0	22,825	211	77	134	22,825	4	14	200	190	0.91	0.91	137,974	228,000	4,139	6,840	231	365,974	1
2005	2	10	20,069		651,961	434.9	3	0	22,837	211	77	134	22,837	4	14	200	190	0.91	0.91	137,845	228,000	4,135	6,840	231	365,845	1
2005	2	8	16,055		649,732	434.8	3	0	18,284	212	77	134	18,284	4	14	200	190	0.91	0.91	137,844	228,000	3,308	5,472	231	365,844	1
2005	3	10	8,271		635,086	434.4	3	0	22,917	212	78	135	22,917	4	14	199	189	0.91	0.91	137,810	228,000	4,134	6,840	231	365,810	1
2005	3	10	8,271		620,329	433.7	3	0	23,028	213	78	135	23,028	4	15	199	188	0.91	0.91	137,789	228,000	4,134	6,840	231	365,789	2
2005	3	11	9,098		603,962	433.0	3	0	25,466	214	78	136	25,466	4	15	198	187	0.91	0.91	137,764	228,000	4,546	7,524	231	365,764	2
2005	4	10	11,320		592,015	432.3	3	0	23,266	215	79	137	23,266	4	15	197	187	0.91	0.91	137,752	228,000	4,133	6,840	231	365,752	2
2005	4	10	11,320		579,968	431.8	3	0	23,367	216	79	137	23,367	4	15	197	186	0.90	0.91	137,735	228,000	4,132	6,840	231	365,735	2
2005	4	10	11,320		567,817	431.2	3	0	23,471	217	79	138	23,471	4	15	196	185	0.90	0.91	137,717	228,000	4,132	6,840	231	365,717	2
2005	5	10	11,430		555,669	430.7	3	0	23,578	218	79	139	23,578	4	15	196	184	0.90	0.91	137,700	228,000	4,131	6,840	231	365,700	2
2005	5	10	11,430		543,408	430.1	3	0	23,690	219	80	140	23,690	4	15	195	184	0.90	0.91	137,682	228,000	4,130	6,840	231	365,682	2
2005	5	11	12,573		530,164	429.4	3	0	25,817	217	80	137	25,817	4	15	194	184	0.90	0.91	137,633	224,298	4,542	7,402	231	361,931	2
2005	6	10	11,555		518,120	428.7	3	0	23,598	219	81	138	23,598	4	15	193	183	0.90	0.91	137,654	224,163	4,130	6,725	231	361,818	2
2005	6	10	11,555		505,954	428.0	3	0	23,721	220	81	139	23,721	4	15	193	182	0.90	0.91	137,706	224,023	4,131	6,721	231	361,730	2
2005	6	10	11,555		493,663	427.3	3	0	23,846	221	81	139	23,846	4	15	192	181	0.90	0.91	137,757	224,053	4,133	6,722	231	361,811	2
2005	7	10	13,891		483,609	426.6	3	0	23,945	222	82	140	23,945	5	16	191	180	0.90	0.91	137,802	223,945	4,134	6,718	231	361,747	2
2005	7	10	13,891		473,523	426.0	3	0	23,976	222	82	140	23,976	5	16	191	180	0.90	0.91	137,779	223,190	4,133	6,696	231	360,969	2
2005	7	11	15,280		462,429	425.4	3	0	26,374	222	82	140	26,374	5	16	190	179	0.90	0.90	137,263	222,396	4,530	7,339	231	359,659	2
2005	8	10	9,346		447,799	424.7	3	0	23,976	222	82	140	23,976	5	16	189	178	0.90	0.90	136,637	221,430	4,099	6,643	231	358,066	3
2005	8	10	9,346		433,169	423.8	3	0	23,976	222	82	140	23,976	5	16	188	177	0.90	0.90	135,924	220,328	4,078	6,610	231	356,252	3
2005	8	11	10,280		417,075	422.9	3	0	26,374	222	82	140	26,374	5	16	187	176	0.90	0.90	135,175	219,170	4,461	7,233	231	354,345	3
2005	9	10	39,618		432,777	422.9	3	0	23,917	221	82	139	23,917	5	15	187	177	0.90	0.90	135,167	218,451	4,055	6,554	231	353,617	3
2005	9	10	39,618		448,558	423.8	3	0	23,837	221	82	139	23,837	5	15	188	178	0.90	0.90	135,935	218,671	4,078	6,560	231	354,605	3
2005	9	10	39,618		464,428	424.8	3	0	23,749	220	82	138	23,749	5	15	189	179	0.90	0.90	136,581	218,889	4,097	6,567	231	355,471	3
2005	10	10	31,103	1,629	472,934	425.5	3	0	20,968	194	82	113	20,968	4	10	190	185	0.90	0.92	136,579	186,597	4,097	5,598	231	323,176	3
2005	10	10	31,103	1,629	481,232	426.0	3	0	21,176	196	81	115	21,176	4	10	191	185	0.90	0.92	136,598	190,372	4,098	5,711	231	326,970	3
2005	10	11	34,214	1,792	490,127	426.5	3	0	23,528	198	81	117	23,528	4	11	191	185	0.90	0.92	136,615	194,233	4,508	6,410	231	330,847	3
2005	11	10	76,584		544,479	428.3	3	0	22,231	206	80	126	22,231	4	13	193	185	0.90	0.92	136,690	209,181	4,101	6,275	231	345,872	3
2005	11	10	76,584		597,547	431.1	3	0	23,517	218	79	138	23,517	4	15	196	185	0.90	0.91	138,000	228,000	4,140	6,840	231	366,000	3
2005	11	10	76,584		651,069	433.5	3	0	23,063	214	78	136	23,063	4	15	199	188	0.91	0.91	137,899	228,000	4,137	6,840	231	365,899	2
2005	12	10	41,213		659,185	434.9	4	0	33,096	211	77	134	33,096	4	14	200	190	0.91	0.91	137,864	228,000	5,997	9,918	231	365,864	1
2005	12	10	41,213		667,370	435.3	4	0	33,028	211	77	134	33,028	4	14	200	190	0.91	0.91	138,000	228,000	6,003	9,918	231	366,000	1
2005	12	11	45,334		676,468	435.7	4	0	36,237	210	77	133	36,237	4	14	201	191	0.91	0.91	138,000	228,000	6,603	10,910	231	366,000	1

**Table 2-2 Calculation of Annual Energy with Expansion Plant in Case of Annual Diversion Volume Increased to 1,270 MCM at Polgolla Weir (22/22)**

Year	Month	Days	Polgolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing. (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Peak Hour (hours)	Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)		Effective Head (m)		Efficiency		Power Output (MW)		Energy (MWh)		Tail water level (EL.m)	Victoria Power Combined (kW)	Victoria Generation mode
									Victoria Q for Hydro (1000 m <sup>3</sup> )	Q in m <sup>3</sup> /s	Q for existing (m <sup>3</sup> /s)	Q for expansion units (m <sup>3</sup> /s)		Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion	Existing	Expansion			
2006	1	10	46,121		685,807	436.1	5	0	36,781	210	77	133	36,781	4	14	201	191	0.91	0.91	138,000	228,000	6,721	11,104	231	366,000	1
2006	1	10	46,121		695,246	436.6	5	0	36,682	209	77	133	36,682	4	14	202	192	0.91	0.91	138,000	228,000	6,721	11,104	231	366,000	1
2006	1	11	50,733		705,742	437.0	5	0	40,238	209	76	132	40,238	4	14	202	192	0.91	0.91	138,000	228,000	7,393	12,214	231	366,000	1
2006	2	10	24,584		707,831	437.3	3	0	22,494	208	76	132	22,494	4	14	202	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2006	2	10	24,584		709,934	437.4	3	0	22,481	208	76	132	22,481	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2006	2	8	19,667		711,625	437.5	3	0	17,976	208	76	132	17,976	4	14	203	193	0.91	0.91	138,000	228,000	3,312	5,472	231	366,000	1
2006	3	10	30,380		717,991	437.7	3	0	24,015	208	76	132	24,015	4	14	203	193	0.91	0.91	138,000	228,000	4,430	7,319	231	366,000	1
2006	3	10	30,380		716,898	437.8	4	0	31,473	208	76	132	31,473	4	14	203	193	0.91	0.91	138,000	228,000	5,810	9,599	231	366,000	1
2006	3	11	33,418		715,684	437.7	4	0	34,632	208	76	132	34,632	4	14	203	193	0.91	0.91	138,000	228,000	6,391	10,559	231	366,000	1
2006	4	10	24,935		718,188	437.8	3	0	22,431	208	76	132	22,431	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2006	4	10	24,935		720,708	437.9	3	0	22,415	208	76	131	22,415	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2006	4	10	24,935		715,746	437.8	4	0	29,897	208	76	132	29,897	4	14	203	193	0.91	0.91	138,000	228,000	5,520	9,120	231	366,000	1
2006	5	10	23,417		716,728	437.7	3	0	22,435	208	76	132	22,435	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2006	5	10	23,417		717,717	437.8	3	0	22,429	208	76	132	22,429	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2006	5	11	25,759		718,811	437.8	3	0	24,665	208	76	132	24,665	4	14	203	193	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
2006	6	10	26,476		715,380	437.8	4	0	29,906	208	76	132	29,906	4	14	203	193	0.91	0.91	138,000	228,000	5,520	9,120	231	366,000	1
2006	6	10	26,476		719,428	437.8	3	0	22,428	208	76	132	22,428	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2006	6	10	26,476		716,003	437.8	4	0	29,901	208	76	132	29,901	4	14	203	193	0.91	0.91	138,000	228,000	5,520	9,120	231	366,000	1
2006	7	10	34,267		715,716	437.7	5	0	34,554	208	76	132	34,554	4	14	203	193	0.91	0.91	138,000	228,000	6,376	10,534	231	366,000	1
2006	7	10	34,267		715,426	437.7	5	0	34,557	208	76	132	34,557	4	14	203	193	0.91	0.91	138,000	228,000	6,376	10,534	231	366,000	1
2006	7	11	37,693		715,104	437.7	5	0	38,016	208	76	132	38,016	4	14	203	193	0.91	0.91	138,000	228,000	7,013	11,587	231	366,000	1
2006	8	10	14,036		706,670	437.5	3	0	22,469	208	76	132	22,469	4	14	203	193	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2006	8	10	14,036		698,184	437.1	3	0	22,521	209	76	132	22,521	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2006	8	11	15,439		688,788	436.7	3	0	24,836	209	77	132	24,836	4	14	202	192	0.91	0.91	138,000	228,000	4,554	7,524	231	366,000	1
2006	9	10	22,422		688,601	436.5	3	0	22,609	209	77	133	22,609	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2006	9	10	22,422		688,414	436.5	3	0	22,610	209	77	133	22,610	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2006	9	10	22,422		688,225	436.5	3	0	22,611	209	77	133	22,611	4	14	202	192	0.91	0.91	138,000	228,000	4,140	6,840	231	366,000	1
2006	10	10	43,528	1,629	696,774	436.7	4	0	33,349	209	77	133	33,349	4	14	202	192	0.91	0.91	138,000	228,000	6,113	10,100	231	366,000	1
2006	10	10	43,528	1,629	705,404	437.0	4	0	33,269	209	76	132	33,269	4	14	202	192	0.91	0.91	138,000	228,000	6,113	10,100	231	366,000	1
2006	10	11	47,881	1,792	714,989	437.5	4	0	36,504	208	76	132	36,504	4	14	203	193	0.91	0.91	138,000	228,000	6,725	11,110	231	366,000	1
2006	11	10	158,385		710,715	437.6	22	0	162,660	208	76	132	162,660	4	14	203	193	0.91	0.91	138,000	228,000	29,987	49,544	231	366,000	1
2006	11	10	158,385		713,902	437.6	21	0	155,198	208	76	132	155,198	4	14	203	193	0.91	0.91	138,000	228,000	28,607	47,264	231	366,000	1
2006	11	10	158,385		709,576	437.5	22	0	162,711	208	76	132	162,711	4	14	203	193	0.91	0.91	138,000	228,000	29,987	49,544	231	366,000	1
2006	12	10	65,814		715,878	437.6	8	0	59,512	208	76	132	59,512	4	14	203	193	0.91	0.91	138,000	228,000	10,971	18,126	231	366,000	1
2006	12	10	65,814		719,648	437.8	8	0	62,044	208	76	132	62,044	4	14	203	193	0.91	0.91	138,000	228,000	11,454	18,924	231	366,000	0
2006	12	11	72,395		712,825	437.7	10	0	79,218	208	76	132	79,218	4	14	203	193	0.91	0.91	138,000	228,000	14,618	24,152	231	366,000	0



**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (2/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillout or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary							
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1986	1	10	127,931		722,000	437.6	0	24	5,236	106,272	30	123	111,508	1	11		207	196	207	0.90	0.91		54,565	214,798	0	0	51,552	0	230.47	230.68	214,798	0	6,444	51,552	1				
1986	1	10	127,931		722,000	438.0	0	24	21,659	106,272	30	123	127,931	1	10		207	197	207	0.90	0.91		54,655	215,950	0	0	51,828	0	230.47	230.68	215,950	0	6,478	51,828	0				
1986	1	11	140,724		722,000	438.0	0	24	23,825	116,899	30	123	140,724	1	11		207	197	207	0.90	0.91		54,655	215,305	0	0	56,840	0	230.47	230.68	215,305	0	7,105	56,840	0				
1986	2	10	53,419		669,147	436.8	0	24	0	106,272	30	123	106,272	1	11		206	195	206	0.90	0.91		54,366	213,573	0	0	51,257	0	230.47	230.68	213,573	0	6,407	51,257	0				
1986	2	10	53,419		686,603	436.0	21	3	0	35,964	30	123	35,964	1	11		205	194	205	0.90	0.91		54,171	212,419	0	11,376	6,373	0	230.47	230.68	212,419	11,376	6,373	17,749	1				
1986	2	8	42,736		700,567	436.7	21	3	0	28,771	30	123	28,771	1	11		206	195	206	0.90	0.91		54,344	213,492	0	9,130	5,124	0	230.47	230.68	213,492	9,130	5,124	14,254	1				
1986	3	10	48,599		713,202	437.3	21	3	0	35,964	30	123	35,964	1	11		206	196	207	0.90	0.91		54,490	214,361	0	11,443	6,431	0	230.47	230.68	214,361	11,443	6,431	17,874	1				
1986	3	10	48,599		685,660	437.0	9	15	0	76,140	30	123	76,140	1	11		206	195	206	0.90	0.91		54,408	213,879	0	4,897	32,082	0	230.47	230.68	213,879	4,897	6,416	36,979	1				
1986	3	11	53,459		699,559	436.7	21	3	0	39,560	30	123	39,560	1	11		206	195	206	0.90	0.91		54,333	213,427	0	12,551	7,043	0	230.47	230.68	213,427	12,551	7,043	19,594	1				
1986	4	10	69,899		669,881	436.3	2	22	0	99,576	30	123	99,576	1	11		205	195	206	0.90	0.91		54,247	212,893	0	1,085	46,836	0	230.47	230.68	212,893	1,085	6,387	47,921	1				
1986	4	10	69,899		703,816	436.4	21	3	0	35,964	30	123	35,964	1	11		205	195	206	0.90	0.91		54,270	213,038	0	11,397	6,391	0	230.47	230.68	213,038	11,397	6,391	17,788	1				
1986	4	10	69,899		667,442	436.3	0	24	0	106,272	30	123	106,272	1	11		205	195	206	0.90	0.91		54,257	212,955	0	0	51,109	0	230.47	230.68	212,955	0	6,389	51,109	1				
1986	5	10	38,007		669,486	435.6	21	3	0	35,964	30	123	35,964	1	11		204	194	205	0.90	0.91		54,068	211,752	0	11,354	6,353	0	230.47	230.68	211,752	11,354	6,353	17,707	1				
1986	5	10	38,007		671,529	435.7	21	3	0	35,964	30	123	35,964	1	11		205	194	205	0.90	0.91		54,091	211,898	0	11,359	6,357	0	230.47	230.68	211,898	11,359	6,357	17,716	1				
1986	5	11	41,808		673,777	435.7	21	3	0	39,560	30	123	39,560	1	11		205	194	205	0.90	0.91		54,114	212,051	0	12,500	6,998	0	230.47	230.68	212,051	12,500	6,998	19,498	1				
1986	6	10	20,416		658,228	435.4	21	3	0	35,964	30	123	35,964	1	11		204	194	205	0.90	0.91		54,041	211,574	0	11,349	6,347	0	230.47	230.68	211,574	11,349	6,347	17,696	1				
1986	6	10	20,416		642,692	434.7	21	3	0	35,952	30	123	35,952	1	10		204	194	204	0.90	0.90		53,850	211,458	0	11,309	6,344	0	230.47	230.68	211,458	11,309	6,344	17,652	1				
1986	6	10	20,416		627,187	434.0	21	3	0	35,920	30	123	35,920	1	10		203	193	203	0.90	0.90		53,626	210,121	0	11,261	6,304	0	230.47	230.68	210,121	11,261	6,304	17,565	1				
1986	7	10	16,558		607,860	433.2	21	3	0	35,884	30	122	35,884	1	10		202	192	203	0.90	0.90		53,374	208,626	0	11,209	6,259	0	230.47	230.68	208,626	11,209	6,259	17,467	1				
1986	7	10	16,558		592,959	432.5	21	3	0	31,459	30	81	31,459	1	4		201	197	202	0.90	0.90		53,127	142,196	0	11,157	4,266	0	230.47	230.59	142,196	11,157	4,266	15,423	2				
1986	7	11	18,213		576,590	431.7	21	3	0	34,582	30	81	34,582	1	4		201	197	201	0.90	0.90		52,901	141,275	0	12,220	4,662	0	230.47	230.59	141,275	12,220	4,662	16,882	2				
1986	8	10	59,256		604,400	432.0	21	3	0	31,446	30	81	31,446	1	4		201	197	201	0.90	0.90		52,984	141,609	0	11,127	4,248	0	230.47	230.59	141,609	11,127	4,248	15,375	2				
1986	8	10	59,256		632,172	433.3	21	3	0	31,484	30	82	31,484	1	4		202	198	203	0.90	0.90		53,385	143,253	0	11,211	4,298	0	230.47	230.59	143,253	11,211	4,298	15,508	2				
1986	8	11	65,181		657,818	434.5	21	3	0	39,535	30	123	39,535	1	10		203	194	204	0.90	0.90		53,771	210,987	0	12,421	6,963	0	230.47	230.68	210,987	12,421	6,963	19,384	1				
1986	9	10	76,545		698,399	436.0	21	3	0	35,964	30	123	35,964	1	11		205	194	205	0.90	0.91		54,174	212,435	0	11,377	6,373	0	230.47	230.68	212,435	11,377	6,373	17,750	1				
1986	9	10	76,545		668,672	436.2	0	24	0	106,272	30	123	106,272	1	11		205	195	206	0.90	0.91		54,234	212,811	0	0	51,075	0	230.47	230.68	212,811	0	6,384	51,075	1				
1986	9	10	76,545		709,253	436.5	21	3	0	35,964	30	123	35,964	1	11		205	195	206	0.90	0.91		54,293	213,182	0	11,402	6,395	0	230.47	230.68	213,182	11,402	6,395	17,797	1				
1986	10	10	135,124	1,629	722,000	437.7	0	24	14,476	106,272	30	123	120,748	1	11		207	196	207	0.90	0.91		54,585	214,913	0	0	51,579	0	230.47	230.68	214,913	0	6,447	51,579	1				
1986	10	10	135,124	1,629	722,000	438.0	0	24	27,223	106,272	30	123	133,495	1	11		207	197	207	0.90	0.91		54,655	215,330	0	0	51,679	0	230.47	230.68	215,330	0	6,460	51,679	0				
1986	10	11	148,636	1,792	722,000	438.0	0	24	29,945	116,899	30	123	146,844	1	11		207	197	207	0.90	0.91		54,655	215,305	0	0	56,840	0	230.47	230.68	215,305	0	7,105	56,840	0				
1986	11	10	84,377		700,105	437.5	0	24	0	106,272	30	123	106,272	1	10		206	197	207	0.90	0.91		54,535	215,339	0	0	51,681	0	230.47	230.68	215,339	0	6,460	51,681	0				
1986	11	10	84,377		678,209	436.5	0	24	0	106,272	30	123	106,272	1	11		205	195	206	0.90	0.91		54,295	213,195	0	0	51,167	0	230.47	230.68	213,195	0	6,396	51,167	1				
1986	11	10	84,377		686,446	436.2	9	15	0	76,140	30	123	76,140	1	11		205	194	205	0.90	0.91		54,220	212,728	0	4,880	31,909	0	230.47	230.68	212,728	4,880	6,382	36,789	1				
1986	12	10	16,580		667,062	435.9	21	3	0	35,964	30	123	35,964	1	11		205	194	205	0.90	0.91		54,159	212,340	0	11,373	6,370	0	230.47	230.68	212,340	11,373	6,370	17,744	1				
1986	12	10	16,580		647,678	435.1	21	3	0	35,964	30	123	35,964	1	11		204	193	204	0.90	0.91		53,946	210,942	0	11,329	6,328	0	230.47	230.68	210,942	11,329	6,328	17,657	1				
1986	12	11	18,238		626,400	434.1	21	3	0	39,517	30	123	39,517	1	10		203	193	203	0.90	0.90		53,656	210,302	0	12,395	6,940	0	230.47	230.68	210,302	12,395	6,940	19,334	1				

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (3/22)**

Year	Month	Days	Poggolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria O for Hydro (1000 m <sup>3</sup> /s)	O for existing base (m <sup>3</sup> /s)	O for existing peak (m <sup>3</sup> /s)	O for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1987	1	10	13,904		608,821	433.2	21	3	0	31,483	30	82	31,483	1	4		202	198	203	0.90	0.90		53,375	143,213	0	11,209	4,296	0	230.47	230.59	143,213	11,209	4,296	15,505	2	
1987	1	10	13,904		591,265	432.4	21	3	0	31,459	30	81	31,459	1	4		201	197	202	0.90	0.90		53,122	142,175	0	11,156	4,265	0	230.47	230.59	142,175	11,156	4,265	15,421	2	
1987	1	11	15,294		571,982	431.6	21	3	0	34,577	30	81	34,577	1	4		201	197	201	0.90	0.90		52,856	141,089	0	12,210	4,656	0	230.47	230.59	141,089	12,210	4,656	16,866	2	
1987	2	10	5,969		552,031	430.7	24	0	0	25,920	30		25,920	1			200	200	200	0.89			52,574	0	0	12,618	0	0	230.47		52,574	12,618	0	12,618	3	
1987	2	10	5,969		532,080	429.7	24	0	0	25,920	30		25,920	1			199	199	199	0.89			52,269	0	0	12,545	0	0	230.47		52,269	12,545	0	12,545	3	
1987	2	8	4,775		516,118	428.7	24	0	0	20,736	30		20,736	1			198	198	198	0.89			51,940	0	0	9,973	0	0	230.47		51,940	9,973	0	9,973	3	
1987	3	10	4,466		494,665	427.6	24	0	0	25,920	30		25,920	1			197	197	197	0.89			51,598	0	0	12,384	0	0	230.47		51,598	12,384	0	12,384	3	
1987	3	10	4,466		473,211	426.4	24	0	0	25,920	30		25,920	1			195	196	196	0.89			51,207	0	0	12,290	0	0	230.47		51,207	12,290	0	12,290	3	
1987	3	11	4,913		449,612	425.0	24	0	0	28,512	30		28,512	1			194	195	195	0.89			50,797	0	0	13,410	0	0	230.47		50,797	13,410	0	13,410	3	
1987	4	10	10,969		434,661	423.9	24	0	0	25,920	30		25,920	1			193	194	194	0.89			50,447	0	0	12,107	0	0	230.47		50,447	12,107	0	12,107	3	
1987	4	10	10,969		419,710	423.0	24	0	0	25,920	30		25,920	1			192	193	193	0.89			50,176	0	0	12,042	0	0	230.47		50,176	12,042	0	12,042	3	
1987	4	10	10,969		404,759	422.2	24	0	0	25,920	30		25,920	1			191	192	192	0.89			49,905	0	0	11,977	0	0	230.47		49,905	11,977	0	11,977	3	
1987	5	10	19,094		397,934	421.5	24	0	0	25,920	30		25,920	1			190	191	191	0.89			49,708	0	0	11,930	0	0	230.47		49,708	11,930	0	11,930	3	
1987	5	10	19,094		391,108	421.1	24	0	0	25,920	30		25,920	1			190	191	191	0.89			49,584	0	0	11,900	0	0	230.47		49,584	11,900	0	11,900	3	
1987	5	11	21,004		383,600	420.7	24	0	0	28,512	30		28,512	1			190	190	190	0.89			49,455	0	0	13,056	0	0	230.47		49,455	13,056	0	13,056	3	
1987	6	10	24,935		382,614	420.5	24	0	0	25,920	30		25,920	1			189	190	190	0.89			49,378	0	0	11,851	0	0	230.47		49,378	11,851	0	11,851	3	
1987	6	10	24,935		381,629	420.4	24	0	0	25,920	30		25,920	1			189	190	190	0.89			49,361	0	0	11,847	0	0	230.47		49,361	11,847	0	11,847	3	
1987	6	10	24,935		380,643	420.4	24	0	0	25,920	30		25,920	1			189	190	190	0.89			49,343	0	0	11,842	0	0	230.47		49,343	11,842	0	11,842	3	
1987	7	10	20,636		375,359	420.2	24	0	0	25,920	30		25,920	1			189	190	190	0.89			49,286	0	0	11,829	0	0	230.47		49,286	11,829	0	11,829	3	
1987	7	10	20,636		370,075	419.8	24	0	0	25,920	30		25,920	1			189	189	189	0.89			49,178	0	0	11,803	0	0	230.47		49,178	11,803	0	11,803	3	
1987	7	11	22,699		364,262	419.4	24	0	0	28,512	30		28,512	1			188	189	189	0.88			49,042	0	0	12,947	0	0	230.47		49,042	12,947	0	12,947	3	
1987	8	10	24,770		363,112	419.1	24	0	0	25,920	30		25,920	1			188	189	189	0.88			48,957	0	0	11,750	0	0	230.47		48,957	11,750	0	11,750	3	
1987	8	10	24,770		361,962	419.0	24	0	0	25,920	30		25,920	1			188	189	189	0.88			48,929	0	0	11,743	0	0	230.47		48,929	11,743	0	11,743	3	
1987	8	11	27,247		360,696	418.9	24	0	0	28,512	30		28,512	1			188	189	189	0.88			48,899	0	0	12,909	0	0	230.47		48,899	12,909	0	12,909	3	
1987	9	10	85,297		420,073	420.9	24	0	0	25,920	30		25,920	1			190	191	191	0.89			49,510	0	0	11,882	0	0	230.47		49,510	11,882	0	11,882	3	
1987	9	10	85,297		479,450	424.4	24	0	0	25,920	30		25,920	1			193	194	194	0.89			50,585	0	0	12,140	0	0	230.47		50,585	12,140	0	12,140	3	
1987	9	10	85,297		538,828	427.8	24	0	0	25,920	30		25,920	1			197	197	197	0.89			51,667	0	0	12,400	0	0	230.47		51,667	12,400	0	12,400	3	
1987	10	10	130,856	1,629	642,135	432.0	24	0	0	25,920	30		25,920	1			201	202	202	0.90			52,984	0	0	12,716	0	0	230.47		52,984	12,716	0	12,716	3	
1987	10	10	130,856	1,629	700,513	435.7	0	24	0	70,848	30	82	70,848	1	5		205	200	205	0.90	0.91		54,099	146,084	0	35,060	0	0	230.47	230.59	146,084	0	4,383	35,060	2	
1987	10	11	143,942	1,792	722,000	437.5	0	24	3,764	116,899	30	123	120,663	1	11		206	196	207	0.90	0.91		54,538	214,639	0	56,665	0	0	230.47	230.68	214,639	0	7,083	56,665	1	
1987	11	10	88,971		704,699	437.6	0	24		106,272	30	123	106,272	1	10		207	197	207	0.90	0.91		54,560	215,469	0	51,713	0	0	230.47	230.68	215,469	0	6,464	51,713	0	
1987	11	10	88,971		687,398	436.8	0	24		106,272	30	123	106,272	1	11		206	195	206	0.90	0.91		54,371	213,656	0	51,277	0	0	230.47	230.68	213,656	0	6,410	51,277	1	
1987	11	10	88,971		670,096	436.0	0	24		106,272	30	123	106,272	1	11		205	194	205	0.90	0.91		54,181	212,480	0	50,995	0	0	230.47	230.68	212,480	0	6,374	50,995	1	
1987	12	10	29,119		663,251	435.5	21	3		35,964	30	123	35,964	1	11		204	194	205	0.90	0.91		54,048	211,623	0	11,350	6,349	0	230.47	230.68	211,623	11,350	6,349	17,699	1	
1987	12	10	29,119		656,407	435.2	21	3		35,964	30	123	35,964	1	11		204	193	204	0.90	0.91		53,973	211,124	0	11,334	6,334	0	230.47	230.68	211,124	11,334	6,334	17,668	1	
1987	12	11	32,031		648,885	434.8	21	3		39,552	30	123	39,552	1	11		204	193	204	0.90	0.90		53,882	210,513	0	12,447	6,947	0	230.47	230.68	210,513	12,447	6,947	19,394	1	

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (4/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing	Existing	Expansion	Existing	Existing	Expansion	Existing	Existing	Expansion	Existing	Existing	Expansion	Existing	Existing	Expansion	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1988	1	10	7,270		620,236	434.0	21	3	0	35,919	30	123	35,919		1	10		203	193	203	0.90	0.90		53,620	210,089	0	11,260	6,303	0	230.47	230.68	210,089	11,260	6,303	17,563	1
1988	1	10	7,270		596,036	432.8	21	3	0	31,470	30	81	31,470		1	4		202	198	202	0.90	0.90		53,238	142,652	0	11,180	4,280	0	230.47	230.59	142,652	11,180	4,280	15,460	2
1988	1	11	7,997		569,454	431.6	21	3	0	34,579	30	81	34,579		1	4		201	197	201	0.90	0.90		52,872	141,155	0	12,213	4,658	0	230.47	230.59	141,155	12,213	4,658	16,872	2
1988	2	10	5,950		549,485	430.6	24	0	0	25,920	30		25,920		1			200	200	200	0.89			52,537	0	0	12,609	0	0	230.47		52,537	12,609	0	12,609	3
1988	2	10	5,950		529,515	429.6	24	0	0	25,920	30		25,920		1			199	199	199	0.89			52,222	0	0	12,533	0	0	230.47		52,222	12,533	0	12,533	3
1988	2	9	5,355		511,542	428.5	24	0	0	23,328	30		23,328		1			197	198	198	0.89			51,875	0	0	11,205	0	0	230.47		51,875	11,205	0	11,205	3
1988	3	10	11,937		497,559	427.6	24	0	0	25,920	30		25,920		1			196	197	197	0.89			51,583	0	0	12,380	0	0	230.47		51,583	12,380	0	12,380	3
1988	3	10	11,937		483,576	426.7	24	0	0	25,920	30		25,920		1			196	196	196	0.89			51,328	0	0	12,319	0	0	230.47		51,328	12,319	0	12,319	3
1988	3	11	13,131		468,195	425.9	24	0	0	28,512	30		28,512		1			195	195	195	0.89			51,060	0	0	13,480	0	0	230.47		51,060	13,480	0	13,480	3
1988	4	10	45,329		487,604	426.0	24	0	0	25,920	30		25,920		1			195	196	196	0.89			51,097	0	0	12,263	0	0	230.47		51,097	12,263	0	12,263	3
1988	4	10	45,329		507,013	427.1	24	0	0	25,920	30		25,920		1			196	197	197	0.89			51,451	0	0	12,348	0	0	230.47		51,451	12,348	0	12,348	3
1988	4	10	45,329		526,423	428.3	24	0	0	25,920	30		25,920		1			197	198	198	0.89			51,805	0	0	12,433	0	0	230.47		51,805	12,433	0	12,433	3
1988	5	10	23,680		518,759	428.6	21	3	0	31,344	30	80	31,344		1	4		198	194	198	0.89	0.90		51,913	137,251	0	10,902	4,118	0	230.47	230.58	137,251	10,902	4,118	15,019	2
1988	5	10	23,680		511,109	428.2	21	3	0	31,330	30	80	31,330		1	4		197	193	198	0.89	0.90		51,773	136,684	0	10,872	4,101	0	230.47	230.58	136,684	10,872	4,101	14,973	2
1988	5	11	26,048		502,709	427.7	21	3	0	34,448	30	80	34,448		1	4		197	193	197	0.89	0.90		51,626	136,091	0	11,926	4,491	0	230.47	230.58	136,091	11,926	4,491	16,417	2
1988	6	10	27,487		498,891	427.3	21	3	0	31,305	30	80	31,305		1	4		196	192	197	0.89	0.90		51,514	135,640	0	10,818	4,069	0	230.47	230.58	135,640	10,818	4,069	14,887	2
1988	6	10	27,487		495,079	427.1	21	3	0	31,299	30	80	31,299		1	4		196	192	197	0.89	0.90		51,445	135,359	0	10,803	4,061	0	230.47	230.58	135,359	10,803	4,061	14,864	2
1988	6	10	27,487		491,274	426.9	21	3	0	31,292	30	80	31,292		1	4		196	192	196	0.89	0.90		51,375	135,079	0	10,789	4,052	0	230.47	230.58	135,079	10,789	4,052	14,841	2
1988	7	10	82,222		542,162	428.3	21	3	0	31,333	30	80	31,333		1	4		197	193	198	0.89	0.90		51,805	136,816	0	10,879	4,104	0	230.47	230.58	136,816	10,879	4,104	14,984	2
1988	7	10	82,222		592,969	431.0	21	3	0	31,414	30	81	31,414		1	4		200	196	200	0.90	0.90		52,654	140,261	0	11,057	4,208	0	230.47	230.58	140,261	11,057	4,208	15,265	2
1988	7	11	90,444		648,777	433.4	21	3	0	34,636	30	82	34,636		1	4		202	198	203	0.90	0.90		53,422	143,406	0	12,341	4,732	0	230.47	230.59	143,406	12,341	4,732	17,073	2
1988	8	10	104,253		707,022	436.0	18	6	0	46,008	30	123	46,008		1	11		205	194	205	0.90	0.91		54,172	212,420	0	9,751	12,745	0	230.47	230.68	212,420	9,751	12,745	22,496	1
1988	8	10	104,253		705,004	437.3	0	24	0	106,272	30	123	106,272		1	11		206	196	207	0.90	0.91		54,480	214,306	0	0	51,433	0	230.47	230.68	214,306	0	51,433	11,433	1
1988	8	11	114,679		702,783	437.2	0	24	0	116,899	30	123	116,899		1	11		206	196	206	0.90	0.91		54,457	214,169	0	0	56,541	0	230.47	230.68	214,169	0	56,541	11,411	1
1988	9	10	132,277		722,000	437.6	0	24	6,789	106,272	30	123	113,061		1	11		206	196	207	0.90	0.91		54,550	214,711	0	0	51,531	0	230.47	230.68	214,711	0	51,531	11,411	1
1988	9	10	132,277		722,000	438.0	0	24	26,005	106,272	30	123	132,277		1	10		207	197	207	0.90	0.91		54,655	215,950	0	0	51,828	0	230.47	230.68	215,950	0	51,828	11,411	0
1988	9	10	132,277		722,000	438.0	0	24	26,005	106,272	30	123	132,277		1	10		207	197	207	0.90	0.91		54,655	215,950	0	0	51,828	0	230.47	230.68	215,950	0	51,828	11,411	0
1988	10	10	65,049	1,629	679,148	437.0	0	24	0	106,272	30	123	106,272		1	11		206	195	206	0.90	0.91		54,420	213,785	0	0	51,308	0	230.47	230.68	213,785	0	51,308	11,411	0
1988	10	10	65,049	1,629	706,605	436.7	21	3	0	35,964	30	123	35,964		1	11		206	195	206	0.90	0.91		54,336	213,445	0	11,411	6,403	0	230.47	230.68	213,445	11,411	6,403	17,814	1
1988	10	11	71,554	1,792	659,468	436.2	0	24	0	116,899	30	123	116,899		1	11		205	194	206	0.90	0.91		54,228	212,777	0	0	56,173	0	230.47	230.68	212,777	0	56,173	11,392	1
1988	11	10	86,527		710,032	436.3	21	3	0	35,964	30	123	35,964		1	11		205	195	206	0.90	0.91		54,247	212,895	0	11,392	6,387	0	230.47	230.68	212,895	11,392	6,387	17,779	1
1988	11	10	86,527		690,287	437.0	0	24	0	106,272	30	123	106,272		1	11		206	195	206	0.90	0.91		54,416	213,926	0	0	51,342	0	230.47	230.68	213,926	0	51,342	11,342	1
1988	11	10	86,527		670,542	436.1	0	24	0	106,272	30	123	106,272		1	11		205	194	205	0.90	0.91		54,199	212,596	0	0	51,023	0	230.47	230.68	212,596	0	51,023	11,342	1
1988	12	10	30,885		665,463	435.5	21	3	0	35,964	30	123	35,964		1	11		204	194	205	0.90	0.91		54,063	211,718	0	11,353	6,352	0	230.47	230.68	211,718	11,353	6,352	17,705	1
1988	12	10	30,885		660,383	435.3	21	3	0	35,964	30	123	35,964		1	11		204	193	205	0.90	0.91		54,007	211,350	0	11,342	6,341	0	230.47	230.68	211,350	11,342	6,341	17,682	1
1988	12	11	33,973		654,796	435.1	21	3	0	39,560	30	123	39,560		1	11		204	193	204	0.90	0.91		53,949	210,958	0	12,462	6,962	0	230.47	230.68	210,958	12,462	6,962	19,424	1

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (5/22)**

Year	Month	Days	Pologolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary							
							I1 base (hours)	I2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1989	1	10	28,719		647,561	434.8	21	3	0	35,954	30	123	35,954	1	10		204	194	204	0.90	0.90		53,861	211,520	0	11,311	6,346	0	230.47	230.68	211,520	11,311	6,346	17,656	1				
1989	1	10	28,719		640,341	434.4	21	3	0	35,939	30	123	35,939	1	10		203	194	204	0.90	0.90		53,756	210,897	0	11,289	6,327	0	230.47	230.68	210,897	11,289	6,327	17,616	1				
1989	1	11	31,590		637,268	434.2	21	3	0	34,663	30	82	34,663	1	5		203	199	204	0.90	0.90		53,681	144,470	0	12,400	4,768	0	230.47	230.59	144,470	12,400	4,768	17,168	2				
1989	2	10	7,891		613,665	433.6	21	3	0	31,494	30	82	31,494	1	5		203	199	203	0.90	0.90		53,489	143,678	0	11,233	4,310	0	230.47	230.59	143,678	11,233	4,310	15,543	2				
1989	2	10	7,891		590,094	432.5	21	3	0	31,461	30	81	31,461	1	4		201	197	202	0.90	0.90		53,148	142,283	0	11,161	4,268	0	230.47	230.59	142,283	11,161	4,268	15,430	2				
1989	2	8	6,313		571,261	431.6	21	3	0	25,146	30	81	25,146	1	4		200	197	201	0.90	0.90		52,842	141,032	0	8,878	3,385	0	230.47	230.59	141,032	8,878	3,385	12,262	2				
1989	3	10	5,596		545,455	430.5	21	3	0	31,402	30	81	31,402	1	4		199	196	200	0.89	0.90		52,521	139,722	0	11,029	4,192	0	230.47	230.58	139,722	11,029	4,192	15,221	2				
1989	3	10	5,596		519,691	429.2	21	3	0	31,361	30	80	31,361	1	4		198	194	199	0.89	0.90		52,095	137,992	0	10,940	4,140	0	230.47	230.58	137,992	10,940	4,140	15,080	2				
1989	3	11	6,156		497,335	427.8	24	0	0	28,512	30		28,512	1			197	197	197	0.89			51,655	0	0	13,637	0	0	230.47		51,655	13,637	0	13,637	3				
1989	4	10	6,725		478,140	426.6	24	0	0	25,920	30		25,920	1			195	196	196	0.89			51,276	0	0	12,306	0	0	230.47		51,276	12,306	0	12,306	3				
1989	4	10	6,725		458,945	425.5	24	0	0	25,920	30		25,920	1			194	195	195	0.89			50,927	0	0	12,222	0	0	230.47		50,927	12,222	0	12,222	3				
1989	4	10	6,725		439,750	424.3	24	0	0	25,920	30		25,920	1			193	194	194	0.89			50,578	0	0	12,139	0	0	230.47		50,578	12,139	0	12,139	3				
1989	5	10	24,039		437,868	423.7	24	0	0	25,920	30		25,920	1			193	193	193	0.89			50,386	0	0	12,093	0	0	230.47		50,386	12,093	0	12,093	3				
1989	5	10	24,039		435,987	423.6	24	0	0	25,920	30		25,920	1			193	193	193	0.89			50,352	0	0	12,085	0	0	230.47		50,352	12,085	0	12,085	3				
1989	5	11	26,442		433,917	423.5	24	0	0	28,512	30		28,512	1			192	193	193	0.89			50,316	0	0	13,284	0	0	230.47		50,316	13,284	0	13,284	3				
1989	6	10	113,150		515,807	425.8	21	3	0	31,260	30	79	31,260	1	4		195	191	195	0.89	0.90		51,042	133,734	0	10,719	4,012	0	230.47	230.58	133,734	10,719	4,012	14,731	2				
1989	6	10	113,150		597,557	430.5	21	3	0	31,399	30	81	31,399	1	4		199	195	200	0.89	0.90		52,497	139,624	0	11,024	4,189	0	230.47	230.58	139,624	11,024	4,189	15,213	2				
1989	6	10	113,150		679,195	434.2	21	3	0	31,512	30	82	31,512	1	5		203	199	204	0.90	0.90		53,675	144,445	0	11,272	4,333	0	230.47	230.59	144,445	11,272	4,333	15,605	2				
1989	7	10	203,583		722,000	437.0	0	24	54,506	106,272	30	123	160,778	1	11		206	195	206	0.90	0.91		54,421	213,955	0	0	51,349	0	230.47	230.68	213,955	0	6,419	51,349	1				
1989	7	10	203,583		722,000	438.0	0	24	97,311	106,272	30	123	203,583	1	11		207	197	207	0.90	0.91		54,655	215,305	0	0	51,673	0	230.47	230.68	215,305	0	6,459	51,673	0				
1989	7	11	223,941		722,000	438.0	0	24	107,042	116,899	30	123	223,941	1	11		207	197	207	0.90	0.91		54,655	215,305	0	0	56,840	0	230.47	230.68	215,305	0	7,105	56,840	0				
1989	8	10	98,521		714,249	437.8	0	24	0	106,272	30	123	106,272	1	10		207	197	207	0.90	0.91		54,613	215,736	0	0	51,777	0	230.47	230.68	215,736	0	6,472	51,777	0				
1989	8	10	98,521		706,498	437.5	0	24	0	106,272	30	123	106,272	1	11		206	196	207	0.90	0.91		54,528	214,583	0	0	51,500	0	230.47	230.68	214,583	0	6,437	51,500	1				
1989	8	11	108,373		697,971	437.1	0	24	0	116,899	30	123	116,899	1	11		206	195	206	0.90	0.91		54,439	214,062	0	0	56,512	0	230.47	230.68	214,062	0	7,064	56,512	1				
1989	9	10	82,489		674,188	436.4	0	24	0	106,272	30	123	106,272	1	11		205	195	206	0.90	0.91		54,261	212,986	0	0	51,117	0	230.47	230.68	212,986	0	6,390	51,117	1				
1989	9	10	82,489		700,624	436.4	15	9	0	56,052	30	123	56,052	1	11		205	195	206	0.90	0.91		54,276	213,076	0	8,141	19,177	0	230.47	230.68	213,076	8,141	6,392	27,318	1				
1989	9	10	82,489		676,841	436.5	0	24	0	106,272	30	123	106,272	1	11		205	195	206	0.90	0.91		54,291	213,166	0	0	51,160	0	230.47	230.68	213,166	0	6,395	51,160	1				
1989	10	10	72,959	1,629	712,207	436.7	21	3	0	35,964	30	123	35,964	1	11		206	195	206	0.90	0.91		54,354	213,555	0	11,414	6,407	0	230.47	230.68	213,555	11,414	6,407	17,821	1				
1989	10	10	72,959	1,629	677,264	436.8	0	24	0	106,272	30	123	106,272	1	11		206	195	206	0.90	0.91		54,356	213,569	0	0	51,257	0	230.47	230.68	213,569	0	6,407	51,257	1				
1989	10	11	80,255	1,792	708,801	436.7	19	5	0	46,926	30	123	46,926	1	11		206	195	206	0.90	0.91		54,338	213,455	0	11,357	11,740	0	230.47	230.68	213,455	11,357	7,044	23,097	1				
1989	11	10	139,297		722,000	437.7	0	24	19,826	106,272	30	123	126,098	1	11		207	196	207	0.90	0.91		54,583	214,899	0	0	51,576	0	230.47	230.68	214,899	0	6,447	51,576	1				
1989	11	10	139,297		722,000	438.0	0	24	33,025	106,272	30	123	139,297	1	11		207	197	207	0.90	0.91		54,655	215,305	0	0	51,673	0	230.47	230.68	215,305	0	6,459	51,673	0				
1989	11	10	139,297		722,000	438.0	0	24	33,025	106,272	30	123	139,297	1	11		207	197	207	0.90	0.91		54,655	215,305	0	0	51,673	0	230.47	230.68	215,305	0	6,459	51,673	0				
1989	12	10	38,341		690,897	437.3	11	13	0	69,444	30	123	69,444	1	11		206	196	207	0.90	0.91		54,485	214,333	0	5,993	27,863	0	230.47	230.68	214,333	5,993	6,430	33,857	0				
1989	12	10	38,341		693,275	436.6	21	3	0	35,964	30	123	35,964	1	11		206	195	206	0.90	0.91		54,327	213,392	0	11,409	6,402	0	230.47	230.68	213,392	11,409	6,402	17,810	1				
1989	12	11	42,176		695,890	436.7	21	3	0	39,560	30	123	39,560	1	11		206	195	206	0.90	0.91		54,355	213,559	0	12,556	7,047	0	230.47	230.68	213,559	12,556	7,047	19,603	1				

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (6/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1990	1	10	67,414		683,816	436.5	8	16	0	79,488	30	123	79,488	1	11		205	195	206	0.90	0.91		54,303	213,242	0	4,344	34,119	0	230.47	230.68	213,242	4,344	6,397	38,463	1	
1990	1	10	67,414		711,918	436.9	20	4	0	39,312	30	123	39,312	1	11		206	195	206	0.90	0.91		54,391	213,776	0	10,878	8,551	0	230.47	230.68	213,776	10,878	6,413	19,429	1	
1990	1	11	74,155		669,174	436.6	0	24	0	116,899	30	123	116,899	1	11		205	195	206	0.90	0.91		54,310	213,288	0	0	56,308	0	230.47	230.68	213,288	0	7,039	56,308	1	
1990	2	10	18,535		651,745	435.2	21	3	0	35,964	30	123	35,964	1	11		204	193	204	0.90	0.91		53,980	211,170	0	11,336	6,335	0	230.47	230.68	211,170	11,336	6,335	17,671	1	
1990	2	10	18,535		634,343	434.4	21	3	0	35,937	30	123	35,937	1	10		203	194	204	0.90	0.90		53,743	210,819	0	11,286	6,325	0	230.47	230.68	210,819	11,286	6,325	17,611	1	
1990	2	8	14,828		623,972	433.8	21	3	0	25,199	30	82	25,199	1	5		203	199	203	0.90	0.90		53,542	143,895	0	8,995	3,453	0	230.47	230.59	143,895	8,995	3,453	12,449	2	
1990	3	10	15,020		607,511	433.2	21	3	0	31,480	30	81	31,480	1	4		202	198	203	0.90	0.90		53,348	143,102	0	11,203	4,293	0	230.47	230.59	143,102	11,203	4,293	15,496	2	
1990	3	10	15,020		591,073	432.4	21	3	0	31,458	30	81	31,458	1	4		201	197	202	0.90	0.90		53,111	142,130	0	11,153	4,264	0	230.47	230.59	142,130	11,153	4,264	15,417	2	
1990	3	11	16,522		573,017	431.6	21	3	0	34,578	30	81	34,578	1	4		201	197	201	0.90	0.90		52,862	141,114	0	12,211	4,657	0	230.47	230.59	141,114	12,211	4,657	16,868	2	
1990	4	10	6,031		547,643	430.6	21	3	0	31,404	30	81	31,404	1	4		200	196	200	0.89	0.90		52,550	139,837	0	11,035	4,195	0	230.47	230.58	139,837	11,035	4,195	15,231	2	
1990	4	10	6,031		522,309	429.3	21	3	0	31,365	30	80	31,365	1	4		198	194	199	0.89	0.90		52,139	138,171	0	10,949	4,145	0	230.47	230.58	138,171	10,949	4,145	15,094	2	
1990	4	10	6,031		497,019	427.9	21	3	0	31,321	30	80	31,321	1	4		197	193	197	0.89	0.90		51,676	136,295	0	10,852	4,089	0	230.47	230.58	136,295	10,852	4,089	14,941	2	
1990	5	10	38,100		503,814	427.3	21	3	0	31,305	30	80	31,305	1	4		196	192	197	0.89	0.90		51,507	135,612	0	10,817	4,068	0	230.47	230.58	135,612	10,817	4,068	14,885	2	
1990	5	10	38,100		510,598	427.7	21	3	0	31,317	30	80	31,317	1	4		197	193	197	0.89	0.90		51,631	136,113	0	10,843	4,083	0	230.47	230.58	136,113	10,843	4,083	14,926	2	
1990	5	11	41,910		518,046	428.1	21	3	0	34,462	30	80	34,462	1	4		197	193	198	0.89	0.90		51,761	136,639	0	11,957	4,509	0	230.47	230.58	136,639	11,957	4,509	16,466	2	
1990	6	10	42,583		529,283	428.7	21	3	0	31,345	30	80	31,345	1	4		198	194	198	0.89	0.90		51,932	137,331	0	10,906	4,120	0	230.47	230.58	137,331	10,906	4,120	15,026	2	
1990	6	10	42,583		540,501	429.3	21	3	0	31,365	30	80	31,365	1	4		198	194	199	0.89	0.90		52,138	138,165	0	10,949	4,145	0	230.47	230.58	138,165	10,949	4,145	15,094	2	
1990	6	10	42,583		551,699	430.0	21	3	0	31,385	30	81	31,385	1	4		199	195	199	0.89	0.90		52,343	138,999	0	10,992	4,170	0	230.47	230.58	138,999	10,992	4,170	15,162	2	
1990	7	10	39,109		559,409	430.4	21	3	0	31,398	30	81	31,398	1	4		199	195	200	0.89	0.90		52,481	139,558	0	11,021	4,187	0	230.47	230.58	139,558	11,021	4,187	15,208	2	
1990	7	10	39,109		567,109	430.8	21	3	0	31,408	30	81	31,408	1	4		200	196	200	0.89	0.90		52,592	140,009	0	11,044	4,200	0	230.47	230.58	140,009	11,044	4,200	15,245	2	
1990	7	11	43,019		575,567	431.1	21	3	0	34,561	30	81	34,561	1	4		200	196	201	0.90	0.90		52,708	140,485	0	12,176	4,636	0	230.47	230.58	140,485	12,176	4,636	16,812	2	
1990	8	10	35,170		579,309	431.4	21	3	0	31,428	30	81	31,428	1	4		200	196	201	0.90	0.90		52,796	140,841	0	11,087	4,225	0	230.47	230.59	140,841	11,087	4,225	15,312	2	
1990	8	10	35,170		583,046	431.6	21	3	0	31,433	30	81	31,433	1	4		201	197	201	0.90	0.90		52,850	141,061	0	11,098	4,232	0	230.47	230.59	141,061	11,098	4,232	15,330	2	
1990	8	11	38,687		587,150	431.8	21	3	0	34,582	30	81	34,582	1	4		201	197	201	0.90	0.90		52,906	141,294	0	12,221	4,663	0	230.47	230.59	141,294	12,221	4,663	16,884	2	
1990	9	10	17,161		572,880	431.5	21	3	0	31,431	30	81	31,431	1	4		200	196	201	0.90	0.90		52,833	140,992	0	11,095	4,230	0	230.47	230.59	140,992	11,095	4,230	15,325	2	
1990	9	10	17,161		558,629	430.9	21	3	0	31,412	30	81	31,412	1	4		200	196	200	0.90	0.90		52,628	140,155	0	11,052	4,205	0	230.47	230.58	140,155	11,052	4,205	15,256	2	
1990	9	10	17,161		549,870	430.3	24	0	0	25,920	30		25,920	1			199	200	200	0.89			52,462	0	0	12,591	0	0	230.47		52,462	12,591	0	12,591	3	
1990	10	10	35,452	1,629	557,773	430.3	24	0	0	25,920	30		25,920	1			199	200	200	0.89			52,456	0	0	12,589	0	0	230.47		52,456	12,589	0	12,589	3	
1990	10	10	35,452		565,676	430.7	24	0	0	25,920	30		25,920	1			200	200	200	0.89			52,570	0	0	12,617	0	0	230.47		52,570	12,617	0	12,617	3	
1990	10	11	38,997	1,792	574,369	431.1	24	0	0	28,512	30		28,512	1			200	201	201	0.90			52,689	0	0	13,910	0	0	230.47		52,689	13,910	0	13,910	3	
1990	11	10	51,391		594,323	431.7	21	3	0	31,437	30	81	31,437	1	4		201	197	201	0.90	0.90		52,895	141,247	0	11,108	4,237	0	230.47	230.59	141,247	11,108	4,237	15,345	2	
1990	11	10	51,391		614,249	432.6	21	3	0	31,465	30	81	31,465	1	4		202	198	202	0.90	0.90		53,183	142,425	0	11,168	4,273	0	230.47	230.59	142,425	11,168	4,273	15,441	2	
1990	11	10	51,391		634,148	433.5	21	3	0	31,492	30	82	31,492	1	4		202	198	203	0.90	0.90		53,470	143,603	0	11,229	4,308	0	230.47	230.59	143,603	11,229	4,308	15,537	2	
1990	12	10	39,665		642,301	434.2	21	3	0	31,511	30	82	31,511	1	5		203	199	204	0.90	0.90		53,673	144,436	0	11,271	4,333	0	230.47	230.59	144,436	11,271	4,333	15,604	2	
1990	12	10	39,665		646,027	434.4	21	3	0	35,939	30	123	35,939	1	10		203	194	204	0.90	0.90		53,759	210,915	0	11,289	6,327	0	230.47	230.68	210,915	11,289	6,327	17,617	1	
1990	12	11	43,631		650,116	434.6	21	3	0	39,542	30	123	39,542	1	10		204	194	204	0.90	0.90		53,816	211,252	0	12,431	6,971	0	230.47	230.68	211,252	12,431	6,971	19,403	1	



**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (7/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1991	1	10	44,233		658,389	434.9	21	3	0	35,960	30	123	35,960	1	11		204	193	204	0.90	0.90		53,905	210,667	0	11,320	6,320	0	230.47	230.68	210,667	11,320	6,320	17,640	1	
1991	1	10	44,233		666,658	435.3	21	3	0	35,964	30	123	35,964	1	11		204	193	205	0.90	0.91		54,003	211,321	0	11,341	6,340	0	230.47	230.68	211,321	11,341	6,340	17,680	1	
1991	1	11	48,657		675,755	435.7	21	3	0	39,560	30	123	39,560	1	11		205	194	205	0.90	0.91		54,098	211,948	0	12,497	6,994	0	230.47	230.68	211,948	12,497	6,994	19,491	1	
1991	2	10	12,181		651,971	435.3	21	3	0	35,964	30	123	35,964	1	11		204	193	205	0.90	0.91		54,018	211,419	0	11,344	6,343	0	230.47	230.68	211,419	11,344	6,343	17,686	1	
1991	2	10	12,181		628,222	434.3	21	3	0	35,931	30	123	35,931	1	10		203	193	204	0.90	0.90		53,700	210,565	0	11,277	6,317	0	230.47	230.68	210,565	11,277	6,317	17,594	1	
1991	2	8	9,745		612,777	433.4	21	3	0	25,190	30	82	25,190	1	4		202	198	203	0.90	0.90		53,417	143,382	0	8,974	3,441	0	230.47	230.59	143,382	8,974	3,441	12,415	2	
1991	3	10	8,593		589,909	432.5	21	3	0	31,461	30	81	31,461	1	4		201	197	202	0.90	0.90		53,140	142,251	0	11,159	4,268	0	230.47	230.59	142,251	11,159	4,268	15,427	2	
1991	3	10	8,593		567,072	431.5	21	3	0	31,429	30	81	31,429	1	4		200	196	201	0.90	0.90		52,811	140,903	0	11,090	4,227	0	230.47	230.59	140,903	11,090	4,227	15,317	2	
1991	3	11	9,452		541,987	430.4	21	3	0	34,536	30	81	34,536	1	4		199	195	200	0.89	0.90		52,466	139,500	0	12,120	4,603	0	230.47	230.58	139,500	12,120	4,603	16,723	2	
1991	4	10	8,936		519,566	429.1	21	3	0	31,358	30	80	31,358	1	4		198	194	198	0.89	0.90		52,062	137,859	0	10,933	4,136	0	230.47	230.58	137,859	10,933	4,136	15,069	2	
1991	4	10	8,936		497,184	427.8	21	3	0	31,319	30	80	31,319	1	4		197	193	197	0.89	0.90		51,653	136,199	0	10,847	4,086	0	230.47	230.58	136,199	10,847	4,086	14,933	2	
1991	4	10	8,936		480,200	426.6	24	0	0	25,920	30		25,920	1			196	196	196	0.89			51,294	0	0	12,310	0	0	230.47		51,294	12,310	0	12,310	3	
1991	5	10	6,177		455,130	425.4	21	3	0	31,247	30	79	31,247	1	4		194	191	195	0.89	0.90		50,911	133,207	0	10,691	3,996	0	230.47	230.58	133,207	10,691	3,996	14,687	2	
1991	5	10	6,177		435,388	424.1	24	0	0	25,920	30		25,920	1			193	194	194	0.89			50,503	0	0	12,121	0	0	230.47		50,503	12,121	0	12,121	3	
1991	5	11	6,795		413,671	422.9	24	0	0	28,512	30		28,512	1			192	192	192	0.89			50,127	0	0	13,234	0	0	230.47		50,127	13,234	0	13,234	3	
1991	6	10	43,766		431,517	422.8	24	0	0	25,920	30		25,920	1			192	192	192	0.89			50,092	0	0	12,022	0	0	230.47		50,092	12,022	0	12,022	3	
1991	6	10	43,766		444,088	423.7	21	3	0	31,195	30	79	31,195	1	4		193	189	193	0.89	0.90		50,368	131,031	0	10,577	3,931	0	230.47	230.58	131,031	10,577	3,931	14,508	2	
1991	6	10	43,766		456,637	424.4	21	3	0	31,217	30	79	31,217	1	4		193	190	194	0.89	0.90		50,596	131,944	0	10,625	3,958	0	230.47	230.58	131,944	10,625	3,958	14,583	2	
1991	7	10	19,316		444,736	424.4	21	3	0	31,218	30	79	31,218	1	4		193	190	194	0.89	0.90		50,602	131,968	0	10,626	3,959	0	230.47	230.58	131,968	10,626	3,959	14,585	2	
1991	7	10	19,316		432,855	423.7	21	3	0	31,197	30	79	31,197	1	4		193	189	193	0.89	0.90		50,386	131,103	0	10,581	3,933	0	230.47	230.58	131,103	10,581	3,933	14,514	2	
1991	7	11	21,248		425,591	423.2	24	0	0	28,512	30		28,512	1			192	193	193	0.89			50,212	0	0	13,256	0	0	230.47		50,212	13,256	0	13,256	3	
1991	8	10	14,382		414,053	422.6	24	0	0	25,920	30		25,920	1			192	192	192	0.89			50,042	0	0	12,010	0	0	230.47		50,042	12,010	0	12,010	3	
1991	8	10	14,382		402,515	421.9	24	0	0	25,920	30		25,920	1			191	192	192	0.89			49,833	0	0	11,960	0	0	230.47		49,833	11,960	0	11,960	3	
1991	8	11	15,820		389,824	421.2	24	0	0	28,512	30		28,512	1			190	191	191	0.89			49,614	0	0	13,098	0	0	230.47		49,614	13,098	0	13,098	3	
1991	9	10	14,866		378,770	420.6	24	0	0	25,920	30		25,920	1			189	190	190	0.89			49,400	0	0	11,856	0	0	230.47		49,400	11,856	0	11,856	3	
1991	9	10	14,866		367,717	419.9	24	0	0	25,920	30		25,920	1			189	189	189	0.89			49,190	0	0	11,806	0	0	230.47		49,190	11,806	0	11,806	3	
1991	9	10	14,866		356,663	419.0	24	0	0	25,920	30		25,920	1			188	189	189	0.88			48,920	0	0	11,741	0	0	230.47		48,920	11,741	0	11,741	3	
1991	10	10	45,730	1,629	374,844	419.3	24	0	0	25,920	30		25,920	1			188	189	189	0.88			49,007	0	0	11,762	0	0	230.47		49,007	11,762	0	11,762	3	
1991	10	10	45,730	1,629	393,025	420.5	24	0	0	25,920	30		25,920	1			189	190	190	0.89			49,393	0	0	11,854	0	0	230.47		49,393	11,854	0	11,854	3	
1991	10	11	50,303	1,792	413,025	421.6	24	0	0	28,512	30		28,512	1			191	191	191	0.89			49,738	0	0	13,131	0	0	230.47		49,738	13,131	0	13,131	3	
1991	11	10	38,814		425,919	422.6	24	0	0	25,920	30		25,920	1			192	192	192	0.89			50,036	0	0	12,009	0	0	230.47		50,036	12,009	0	12,009	3	
1991	11	10	38,814		438,813	423.4	24	0	0	25,920	30		25,920	1			192	193	193	0.89			50,269	0	0	12,065	0	0	230.47		50,269	12,065	0	12,065	3	
1991	11	10	38,814		451,707	424.1	24	0	0	25,920	30		25,920	1			193	194	194	0.89			50,503	0	0	12,121	0	0	230.47		50,503	12,121	0	12,121	3	
1991	12	10	52,973		478,760	425.3	24	0	0	25,920	30		25,920	1			194	195	195	0.89			50,866	0	0	12,208	0	0	230.47		50,866	12,208	0	12,208	3	
1991	12	10	52,973		505,814	426.8	24	0	0	25,920	30		25,920	1			196	196	196	0.89			51,359	0	0	12,326	0	0	230.47		51,359	12,326	0	12,326	3	
1991	12	11	58,271		535,573	428.5	24	0	0	28,512	30		28,512	1			197	198	198	0.89			51,878	0	0	13,696	0	0	230.47		51,878	13,696	0	13,696	3	

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (8/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1992	1	10	28,296		537,949	429.4	24	0	0	25,920	30		25,920	1			198	199	199	0.89				52,172	0	0	12,521	0	0	230.47		52,172	12,521	0	12,521	3
1992	1	10	28,296		540,325	429.6	24	0	0	25,920	30		25,920	1			198	199	199	0.89				52,215	0	0	12,532	0	0	230.47		52,215	12,532	0	12,532	3
1992	1	11	31,126		542,939	429.7	24	0	0	28,512	30		28,512	1			199	199	199	0.89				52,261	0	0	13,797	0	0	230.47		52,261	13,797	0	13,797	3
1992	2	10	13,498		530,517	429.4	24	0	0	25,920	30		25,920	1			198	199	199	0.89				52,171	0	0	12,521	0	0	230.47		52,171	12,521	0	12,521	3
1992	2	10	13,498		518,096	428.7	24	0	0	25,920	30		25,920	1			198	198	198	0.89				51,944	0	0	12,467	0	0	230.47		51,944	12,467	0	12,467	3
1992	2	9	12,148		506,916	428.0	24	0	0	23,328	30		23,328	1			197	198	198	0.89				51,728	0	0	11,173	0	0	230.47		51,728	11,173	0	11,173	3
1992	3	10	5,736		486,732	427.1	24	0	0	25,920	30		25,920	1			196	197	197	0.89				51,442	0	0	12,346	0	0	230.47		51,442	12,346	0	12,346	3
1992	3	10	5,736		466,549	425.9	24	0	0	25,920	30		25,920	1			195	196	196	0.89				51,074	0	0	12,258	0	0	230.47		51,074	12,258	0	12,258	3
1992	3	11	6,310		444,347	424.7	24	0	0	28,512	30		28,512	1			194	194	194	0.89				50,688	0	0	13,382	0	0	230.47		50,688	13,382	0	13,382	3
1992	4	10	12,164		430,590	423.6	24	0	0	25,920	30		25,920	1			193	193	193	0.89				50,362	0	0	12,087	0	0	230.47		50,362	12,087	0	12,087	3
1992	4	10	12,164		416,834	422.8	24	0	0	25,920	30		25,920	1			192	192	192	0.89				50,113	0	0	12,027	0	0	230.47		50,113	12,027	0	12,027	3
1992	4	10	12,164		403,077	422.0	24	0	0	25,920	30		25,920	1			191	192	192	0.89				49,864	0	0	11,967	0	0	230.47		49,864	11,967	0	11,967	3
1992	5	10	17,892		395,050	421.4	24	0	0	25,920	30		25,920	1			190	191	191	0.89				49,667	0	0	11,920	0	0	230.47		49,667	11,920	0	11,920	3
1992	5	10	17,892		387,022	420.9	24	0	0	25,920	30		25,920	1			190	191	191	0.89				49,522	0	0	11,885	0	0	230.47		49,522	11,885	0	11,885	3
1992	5	11	19,681		378,191	420.5	24	0	0	28,512	30		28,512	1			189	190	190	0.89				49,369	0	0	13,034	0	0	230.47		49,369	13,034	0	13,034	3
1992	6	10	35,271		387,542	420.5	24	0	0	25,920	30		25,920	1			189	190	190	0.89				49,374	0	0	11,850	0	0	230.47		49,374	11,850	0	11,850	3
1992	6	10	35,271		396,894	421.0	24	0	0	25,920	30		25,920	1			190	191	191	0.89				49,543	0	0	11,890	0	0	230.47		49,543	11,890	0	11,890	3
1992	6	10	35,271		406,245	421.6	24	0	0	25,920	30		25,920	1			190	191	191	0.89				49,712	0	0	11,931	0	0	230.47		49,712	11,931	0	11,931	3
1992	7	10	68,264		448,589	423.1	24	0	0	25,920	30		25,920	1			192	193	193	0.89				50,180	0	0	12,043	0	0	230.47		50,180	12,043	0	12,043	3
1992	7	10	68,264		485,607	425.4	21	3	0	31,246	30	79	31,246	1	4		194	191	195	0.89	0.90			50,900	133,166	0	10,689	3,995	0	230.47	230.58	133,166	10,689	3,995	14,684	2
1992	7	11	75,091		526,252	427.6	21	3	0	34,446	30	80	34,446	1	4		197	193	197	0.89	0.90			51,608	136,019	0	11,921	4,489	0	230.47	230.58	136,019	11,921	4,489	16,410	2
1992	8	10	78,373		573,236	430.1	21	3	0	31,390	30	81	31,390	1	4		199	195	200	0.89	0.90			52,397	139,218	0	11,003	4,177	0	230.47	230.58	139,218	11,003	4,177	15,180	2
1992	8	10	78,373		620,154	432.3	21	3	0	31,454	30	81	31,454	1	4		201	197	202	0.90	0.90			53,073	141,975	0	11,145	4,259	0	230.47	230.59	141,975	11,145	4,259	15,405	2
1992	8	11	86,211		671,691	434.5	21	3	0	34,674	30	82	34,674	1	5		203	199	204	0.90	0.90			53,784	144,893	0	12,424	4,781	0	230.47	230.59	144,893	12,424	4,781	17,206	2
1992	9	10	49,987		685,714	436.0	21	3	0	35,964	30	123	35,964	1	11		205	194	205	0.90	0.91			54,180	212,477	0	11,378	6,374	0	230.47	230.68	212,477	11,378	6,374	17,752	1
1992	9	10	49,987		699,738	436.7	21	3	0	35,964	30	123	35,964	1	11		206	195	206	0.90	0.91			54,334	213,435	0	11,410	6,403	0	230.47	230.68	213,435	11,410	6,403	17,813	1
1992	9	10	49,987		713,761	437.3	21	3	0	35,964	30	123	35,964	1	11		206	196	207	0.90	0.91			54,488	214,353	0	11,443	6,431	0	230.47	230.68	214,353	11,443	6,431	17,873	1
1992	10	10	62,733	1,629	668,593	436.6	0	24	0	106,272	30	123	106,272	1	11		206	195	206	0.90	0.91			54,317	213,331	0	0	51,199	0	230.47	230.68	213,331	0	6,400	51,199	1
1992	10	10	62,733	1,629	693,733	436.1	21	3	0	35,964	30	123	35,964	1	11		205	194	205	0.90	0.91			54,207	212,648	0	11,384	6,379	0	230.47	230.68	212,648	11,384	6,379	17,763	1
1992	10	11	69,006	1,792	695,607	436.8	14	10	0	65,340	30	123	65,340	1	11		206	195	206	0.90	0.91			54,356	213,564	0	8,371	23,492	0	230.47	230.68	213,564	8,371	7,048	31,863	1
1992	11	10	78,682		668,017	436.2	0	24	0	106,272	30	123	106,272	1	11		205	194	205	0.90	0.91			54,215	212,692	0	0	51,046	0	230.47	230.68	212,692	0	6,381	51,046	1
1992	11	10	78,682		710,735	436.5	21	3	0	35,964	30	123	35,964	1	11		205	195	206	0.90	0.91			54,298	213,209	0	11,402	6,396	0	230.47	230.68	213,209	11,402	6,396	17,799	1
1992	11	10	78,682		683,144	436.9	0	24	0	106,272	30	123	106,272	1	11		206	195	206	0.90	0.91			54,381	213,715	0	0	51,292	0	230.47	230.68	213,715	0	6,411	51,292	1
1992	12	10	53,251		700,432	436.6	21	3	0	35,964	30	123	35,964	1	11		206	195	206	0.90	0.91			54,324	213,372	0	11,408	6,401	0	230.47	230.68	213,372	11,408	6,401	17,809	1
1992	12	10	53,251		707,675	437.2	18	6	0	46,008	30	123	46,008	1	11		206	196	206	0.90	0.91			54,459	214,179	0	9,803	12,851	0	230.47	230.68	214,179	9,803	6,425	22,653	1
1992	12	11	58,577		682,498	436.8	9	15	0	83,754	30	123	83,754	1	11		206	195	206	0.90	0.91			54,360	213,592	0	5,382	35,243	0	230.47	230.68	213,592	5,382	7,049	40,624	1

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (9/22)**

Year	Month	Days	Poggolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria O for Hydro (1000 m <sup>3</sup> /s)	O for existing base (m <sup>3</sup> /s)	O for existing peak (m <sup>3</sup> /s)	O for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1993	1	10	13,169		659,702	435.7	21	3	0	35,964	30	123	35,964	1	11	205	194	205	0.90	0.91		54,097	211,940	0	11,360	6,358	0	230.47	230.68	211,940	11,360	6,358	17,719	1		
1993	1	10	13,169		636,923	434.6	21	3	0	35,948	30	123	35,948	1	10	204	194	204	0.90	0.90		53,819	211,273	0	11,302	6,338	0	230.47	230.68	211,273	11,302	6,338	17,640	1		
1993	1	11	14,486		616,764	433.7	21	3	0	34,645	30	82	34,645	1	5	203	199	203	0.90	0.90		53,509	143,760	0	12,360	4,744	0	230.47	230.59	143,760	12,360	4,744	17,105	2		
1993	2	10	8,500		593,798	432.7	21	3	0	31,466	30	81	31,466	1	4	202	198	202	0.90	0.90		53,197	142,484	0	11,171	4,275	0	230.47	230.59	142,484	11,171	4,275	15,446	2		
1993	2	10	8,500		570,864	431.6	21	3	0	31,435	30	81	31,435	1	4	201	197	201	0.90	0.90		52,866	141,129	0	11,102	4,234	0	230.47	230.59	141,129	11,102	4,234	15,336	2		
1993	2	8	6,800		556,928	430.8	24	0	0	20,736	30		20,736	1		200	200	200	0.89			52,601	0	0	10,099	0	0	230.47		52,601	10,099	0	10,099	3		
1993	3	10	5,803		531,350	429.9	21	3	0	31,381	30	81	31,381	1	4	199	195	199	0.89	0.90		52,307	138,853	0	10,985	4,166	0	230.47	230.58	138,853	10,985	4,166	15,150	2		
1993	3	10	5,803		505,817	428.4	21	3	0	31,337	30	80	31,337	1	4	197	193	198	0.89	0.90		51,839	136,954	0	10,886	4,109	0	230.47	230.58	136,954	10,886	4,109	14,995	2		
1993	3	11	6,384		483,688	427.0	24	0	0	28,512	30		28,512	1		196	197	197	0.89			51,404	0	0	13,571	0	0	230.47		51,404	13,571	0	13,571	3		
1993	4	10	5,793		463,561	425.8	24	0	0	25,920	30		25,920	1		195	195	195	0.89			51,019	0	0	12,245	0	0	230.47		51,019	12,245	0	12,245	3		
1993	4	10	5,793		443,434	424.6	24	0	0	25,920	30		25,920	1		194	194	194	0.89			50,653	0	0	12,157	0	0	230.47		50,653	12,157	0	12,157	3		
1993	4	10	5,793		423,307	423.4	24	0	0	25,920	30		25,920	1		192	193	193	0.89			50,288	0	0	12,069	0	0	230.47		50,288	12,069	0	12,069	3		
1993	5	10	37,297		434,684	423.2	24	0	0	25,920	30		25,920	1		192	193	193	0.89			50,208	0	0	12,050	0	0	230.47		50,208	12,050	0	12,050	3		
1993	5	10	37,297		446,061	423.8	24	0	0	25,920	30		25,920	1		193	193	193	0.89			50,415	0	0	12,100	0	0	230.47		50,415	12,100	0	12,100	3		
1993	5	11	41,026		458,575	424.5	24	0	0	28,512	30		28,512	1		193	194	194	0.89			50,632	0	0	13,367	0	0	230.47		50,632	13,367	0	13,367	3		
1993	6	10	116,087		543,357	427.3	21	3	0	31,306	30	80	31,306	1	4	196	192	197	0.89	0.90		51,517	135,652	0	10,819	4,070	0	230.47	230.58	135,652	10,819	4,070	14,888	2		
1993	6	10	116,087		628,005	431.8	21	3	0	31,439	30	81	31,439	1	4	201	197	201	0.90	0.90		52,915	141,326	0	11,112	4,240	0	230.47	230.59	141,326	11,112	4,240	15,352	2		
1993	6	10	116,087		708,128	435.5	21	3	0	35,964	30	123	35,964	1	11	204	194	205	0.90	0.91		54,064	211,723	0	11,353	6,352	0	230.47	230.68	211,723	11,353	6,352	17,705	1		
1993	7	10	90,131		691,987	437.0	0	24	0	106,272	30	123	106,272	1	11	206	195	206	0.90	0.91		54,415	213,920	0	0	51,341	0	0	230.47	230.68	213,920	0	6,418	51,341	1	
1993	7	10	90,131		675,846	436.3	0	24	0	106,272	30	123	106,272	1	11	205	195	206	0.90	0.91		54,238	212,837	0	0	51,081	0	0	230.47	230.68	212,837	0	6,385	51,081	1	
1993	7	11	99,144		661,773	435.6	1	23	0	113,216	30	123	113,216	1	11	204	194	205	0.90	0.91		54,072	211,776	0	595	53,579	0	230.47	230.68	211,776	595	6,989	54,174	1		
1993	8	10	31,921		657,730	435.2	21	3	0	35,964	30	123	35,964	1	11	204	193	204	0.90	0.91		53,972	211,118	0	11,334	6,334	0	230.47	230.68	211,118	11,334	6,334	17,668	1		
1993	8	10	31,921		653,688	435.0	21	3	0	35,963	30	123	35,963	1	11	204	193	204	0.90	0.91		53,926	210,808	0	11,324	6,324	0	230.47	230.68	210,808	11,324	6,324	17,649	1		
1993	8	11	35,113		649,252	434.8	21	3	0	39,550	30	123	39,550	1	10	204	194	204	0.90	0.90		53,865	211,545	0	12,443	6,981	0	230.47	230.68	211,545	12,443	6,981	19,424	1		
1993	9	10	7,625		620,956	434.0	21	3	0	35,921	30	123	35,921	1	10	203	193	203	0.90	0.90		53,628	210,136	0	11,262	6,304	0	230.47	230.68	210,136	11,262	6,304	17,566	1		
1993	9	10	7,625		597,110	432.8	21	3	0	31,471	30	81	31,471	1	4	202	198	202	0.90	0.90		53,251	142,705	0	11,183	4,281	0	230.47	230.59	142,705	11,183	4,281	15,464	2		
1993	9	10	7,625		573,297	431.8	21	3	0	31,439	30	81	31,439	1	4	201	197	201	0.90	0.90		52,908	141,298	0	11,111	4,239	0	230.47	230.59	141,298	11,111	4,239	15,350	2		
1993	10	10	74,415	1,629	620,163	432.3	24	0	0	25,920	30		25,920	1		201	202	202	0.90			53,074	0	0	12,738	0	0	230.47		53,074	12,738	0	12,738	3		
1993	10	10	74,415	1,629	661,434	434.3	21	3	0	31,515	30	82	31,515	1	5	203	199	204	0.90	0.90		53,710	144,589	0	11,279	4,338	0	230.47	230.59	144,589	11,279	4,338	15,617	2		
1993	10	11	81,857	1,792	701,938	436.2	21	3	0	39,560	30	123	39,560	1	11	205	194	205	0.90	0.91		54,213	212,684	0	12,523	7,019	0	230.47	230.68	212,684	12,523	7,019	19,542	1		
1993	11	10	99,472		695,138	436.9	0	24	0	106,272	30	123	106,272	1	11	206	195	206	0.90	0.91		54,398	213,820	0	0	51,317	0	0	230.47	230.68	213,820	0	6,415	51,317	1	
1993	11	10	99,472		688,337	436.6	0	24	0	106,272	30	123	106,272	1	11	206	195	206	0.90	0.91		54,324	213,369	0	0	51,208	0	0	230.47	230.68	213,369	0	6,401	51,208	1	
1993	11	10	99,472		681,537	436.3	0	24	0	106,272	30	123	106,272	1	11	205	195	206	0.90	0.91		54,249	212,907	0	0	51,098	0	0	230.47	230.68	212,907	0	6,387	51,098	1	
1993	12	10	108,432		683,697	436.2	0	24	0	106,272	30	123	106,272	1	11	205	194	206	0.90	0.91		54,223	212,748	0	0	51,060	0	0	230.47	230.68	212,748	0	6,382	51,060	1	
1993	12	10	108,432		685,857	436.3	0	24	0	106,272	30	123	106,272	1	11	205	195	206	0.90	0.91		54,247	212,897	0	0	51,095	0	0	230.47	230.68	212,897	0	6,387	51,095	1	
1993	12	11	119,276		688,234	436.4	0	24	0	116,899	30	123	116,899	1	11	205	195	206	0.90	0.91		54,272	213,051	0	0	56,246	0	0	230.47	230.68	213,051	0	7,031	56,246	1	

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (10/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillout or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria O for Hydro (1000 m <sup>3</sup> /s)	O for existing base (m <sup>3</sup> /s)	O for existing peak (m <sup>3</sup> /s)	O for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1994	1	10	72,873		688,315	436.5	10	14	0	72,792	30	123	72,792	1	11		205	195	206	0.90	0.91		54,286	213,135	0	5,429	29,839	0	230.47	230.68	213,135	5,429	6,394	35,267	1	
1994	1	10	72,873		688,395	436.5	10	14	0	72,792	30	123	72,792	1	11		205	195	206	0.90	0.91		54,286	213,140	0	5,429	29,840	0	230.47	230.68	213,140	5,429	6,394	35,268	1	
1994	1	11	80,160		677,436	436.2	7	17	0	91,120	30	123	91,120	1	11		205	194	206	0.90	0.91		54,227	212,769	0	4,175	39,788	0	230.47	230.68	212,769	4,175	7,021	43,963	1	
1994	2	10	56,431		697,903	436.4	21	3	0	35,964	30	123	35,964	1	11		205	195	206	0.90	0.91		54,279	213,094	0	11,399	6,393	0	230.47	230.68	213,094	11,399	6,393	17,791	1	
1994	2	10	56,431		704,978	437.1	17	7	0	49,356	30	123	49,356	1	11		206	195	206	0.90	0.91		54,430	214,010	0	9,253	14,981	0	230.47	230.68	214,010	9,253	6,420	24,234	1	
1994	2	8	45,145		702,603	437.2	14	10	0	47,520	30	123	47,520	1	11		206	196	206	0.90	0.91		54,456	214,162	0	6,099	17,133	0	230.47	230.68	214,162	6,099	5,140	23,232	1	
1994	3	10	13,053		679,692	436.6	21	3	0	35,964	30	123	35,964	1	11		206	195	206	0.90	0.91		54,317	213,329	0	11,407	6,400	0	230.47	230.68	213,329	11,407	6,400	17,806	1	
1994	3	10	13,053		656,781	435.5	21	3	0	35,964	30	123	35,964	1	11		204	194	205	0.90	0.91		54,066	211,735	0	11,354	6,352	0	230.47	230.68	211,735	11,354	6,352	17,706	1	
1994	3	11	14,359		631,607	434.5	21	3	0	39,533	30	123	39,533	1	10		203	194	204	0.90	0.90		53,759	210,918	0	12,418	6,960	0	230.47	230.68	210,918	12,418	6,960	19,379	1	
1994	4	10	13,559		613,676	433.5	21	3	0	31,490	30	82	31,490	1	4		202	198	203	0.90	0.90		53,448	143,511	0	11,224	4,305	0	230.47	230.59	143,511	11,224	4,305	15,529	2	
1994	4	10	13,559		595,769	432.7	21	3	0	31,465	30	81	31,465	1	4		202	198	202	0.90	0.90		53,189	142,451	0	11,170	4,274	0	230.47	230.59	142,451	11,170	4,274	15,443	2	
1994	4	10	13,559		577,887	431.8	21	3	0	31,441	30	81	31,441	1	4		201	197	201	0.90	0.90		52,931	141,393	0	11,116	4,242	0	230.47	230.59	141,393	11,116	4,242	15,357	2	
1994	5	10	13,931		560,402	431.0	21	3	0	31,417	30	81	31,417	1	4		200	196	200	0.90	0.90		52,676	140,354	0	11,062	4,211	0	230.47	230.58	140,354	11,062	4,211	15,273	2	
1994	5	10	13,931		542,940	430.2	21	3	0	31,393	30	81	31,393	1	4		199	195	200	0.89	0.90		52,425	139,330	0	11,009	4,180	0	230.47	230.58	139,330	11,009	4,180	15,189	2	
1994	5	11	15,325		523,766	429.2	21	3	0	34,499	30	80	34,499	1	4		198	194	199	0.89	0.90		52,110	138,050	0	12,037	4,556	0	230.47	230.58	138,050	12,037	4,556	16,593	2	
1994	6	10	12,112		504,550	428.1	21	3	0	31,329	30	80	31,329	1	4		197	193	198	0.89	0.90		51,758	136,627	0	10,869	4,099	0	230.47	230.58	136,627	10,869	4,099	14,968	2	
1994	6	10	12,112		485,367	427.0	21	3	0	31,295	30	80	31,295	1	4		196	192	196	0.89	0.90		51,408	135,210	0	10,796	4,056	0	230.47	230.58	135,210	10,796	4,056	14,852	2	
1994	6	10	12,112		466,217	425.9	21	3	0	31,262	30	79	31,262	1	4		195	191	195	0.89	0.90		51,059	133,802	0	10,722	4,014	0	230.47	230.58	133,802	10,722	4,014	14,736	2	
1994	7	10	11,772		446,761	424.8	21	3	0	31,228	30	79	31,228	1	4		194	190	194	0.89	0.90		50,707	132,391	0	10,649	3,972	0	230.47	230.58	132,391	10,649	3,972	14,620	2	
1994	7	10	11,772		427,339	423.6	21	3	0	31,194	30	79	31,194	1	4		193	189	193	0.89	0.90		50,354	130,977	0	10,574	3,929	0	230.47	230.58	130,977	10,574	3,929	14,504	2	
1994	7	11	12,949		411,775	422.6	24	0	0	28,512	30		28,512	1			192	192	192	0.89			50,037	0	0	13,210	0	0	230.47		50,037	13,210	0	13,210	3	
1994	8	10	33,128		418,983	422.4	24	0	0	25,920	30		25,920	1			191	192	192	0.89			49,962	0	0	11,991	0	0	230.47		49,962	11,991	0	11,991	3	
1994	8	10	33,128		426,191	422.8	24	0	0	25,920	30		25,920	1			192	192	192	0.89			50,092	0	0	12,022	0	0	230.47		50,092	12,022	0	12,022	3	
1994	8	11	36,441		434,120	423.2	24	0	0	28,512	30		28,512	1			192	193	193	0.89			50,229	0	0	13,261	0	0	230.47		50,229	13,261	0	13,261	3	
1994	9	10	32,028		440,228	423.6	24	0	0	25,920	30		25,920	1			193	193	193	0.89			50,357	0	0	12,086	0	0	230.47		50,357	12,086	0	12,086	3	
1994	9	10	32,028		446,336	424.0	24	0	0	25,920	30		25,920	1			193	194	194	0.89			50,467	0	0	12,112	0	0	230.47		50,467	12,112	0	12,112	3	
1994	9	10	32,028		452,444	424.3	24	0	0	25,920	30		25,920	1			193	194	194	0.89			50,578	0	0	12,139	0	0	230.47		50,578	12,139	0	12,139	3	
1994	10	10	99,341	1,629	524,235	426.6	24	0	0	25,920	30		25,920	1			196	196	196	0.89			51,287	0	0	12,309	0	0	230.47		51,287	12,309	0	12,309	3	
1994	10	10	99,341	1,629	596,027	430.6	24	0	0	25,920	30		25,920	1			200	200	200	0.89			52,547	0	0	12,611	0	0	230.47		52,547	12,611	0	12,611	3	
1994	10	11	109,275	1,792	668,857	433.9	21	3	0	34,654	30	82	34,654	1	5		203	199	203	0.90	0.90		53,589	144,092	0	12,379	4,755	0	230.47	230.59	144,092	12,379	4,755	17,134	2	
1994	11	10	137,166		699,750	436.3	0	24	0	106,272	30	123	106,272	1	11		205	195	206	0.90	0.91		54,242	212,864	0	0	51,087	0	230.47	230.68	212,864	0	6,386	51,087	1	
1994	11	10	137,166		722,000	437.5	0	24	8,644	106,272	30	123	114,916	1	11		206	196	207	0.90	0.91		54,533	214,615	0	0	51,508	0	230.47	230.68	214,615	0	6,438	51,508	1	
1994	11	10	137,166		722,000	438.0	0	24	30,894	106,272	30	123	137,166	1	11		207	197	207	0.90	0.91		54,655	215,305	0	0	51,673	0	230.47	230.68	215,305	0	6,459	51,673	0	
1994	12	10	76,689		692,417	437.3	0	24	0	106,272	30	123	106,272	1	11		206	195	207	0.90	0.91		54,493	214,051	0	0	51,372	0	230.47	230.68	214,051	0	6,422	51,372	0	
1994	12	10	76,689		669,530	436.1	2	22	0	99,576	30	123	99,576	1	11		205	194	205	0.90	0.91		54,205	212,634	0	1,084	46,780	0	230.47	230.68	212,634	1,084	6,379	47,864	1	
1994	12	11	84,358		710,644	436.5	20	4	0	43,243	30	123	43,243	1	11		205	195	206	0.90	0.91		54,305	213,258	0	11,947	9,383	0	230.47	230.68	213,258	11,947	7,037	21,331	1	

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (11/22)**

Year	Month	Days	Poggolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1995	1	10	28,237		702,917	437.3	21	3	0	35,964	30	123	35,964	1	11	206	196	207	0.90	0.91	54,488	214,355	0	11,443	6,431	0	230.47	230.68	214,355	11,443	6,431	17,873	1			
1995	1	10	28,237		695,191	437.0	21	3	0	35,964	30	123	35,964	1	11	206	195	206	0.90	0.91	54,404	213,854	0	11,425	6,416	0	230.47	230.68	213,854	11,425	6,416	17,840	1			
1995	1	11	31,061		686,691	436.6	21	3	0	39,560	30	123	39,560	1	11	206	195	206	0.90	0.91	54,315	213,315	0	12,547	7,039	0	230.47	230.68	213,315	12,547	7,039	19,586	1			
1995	2	10	27,036		677,763	436.2	21	3	0	35,964	30	123	35,964	1	11	205	194	205	0.90	0.91	54,219	212,721	0	11,386	6,382	0	230.47	230.68	212,721	11,386	6,382	17,768	1			
1995	2	10	27,036		668,835	435.8	21	3	0	35,964	30	123	35,964	1	11	205	194	205	0.90	0.91	54,121	212,097	0	11,365	6,363	0	230.47	230.68	212,097	11,365	6,363	17,728	1			
1995	2	8	21,629		661,693	435.4	21	3	0	28,771	30	123	28,771	1	11	204	194	205	0.90	0.91	54,033	211,521	0	9,078	5,076	0	230.47	230.68	211,521	9,078	5,076	14,154	1			
1995	3	10	11,602		637,344	434.7	21	3	0	35,950	30	123	35,950	1	10	204	194	204	0.90	0.90	53,837	211,377	0	11,306	6,341	0	230.47	230.68	211,377	11,306	6,341	17,647	1			
1995	3	10	11,602		617,449	433.7	21	3	0	31,496	30	82	31,496	1	5	203	199	203	0.90	0.90	53,517	143,793	0	11,238	4,314	0	230.47	230.59	143,793	11,238	4,314	15,552	2			
1995	3	11	12,762		595,597	432.7	21	3	0	34,615	30	81	34,615	1	4	202	198	202	0.90	0.90	53,215	142,557	0	12,293	4,704	0	230.47	230.59	142,557	12,293	4,704	16,997	2			
1995	4	10	40,779		604,916	432.4	21	3	0	31,459	30	81	31,459	1	4	201	197	202	0.90	0.90	53,125	142,187	0	11,156	4,266	0	230.47	230.59	142,187	11,156	4,266	15,422	2			
1995	4	10	40,779		614,222	432.9	21	3	0	31,472	30	81	31,472	1	4	202	198	202	0.90	0.90	53,259	142,737	0	11,184	4,282	0	230.47	230.59	142,737	11,184	4,282	15,467	2			
1995	4	10	40,779		623,516	433.3	21	3	0	31,485	30	82	31,485	1	4	202	198	203	0.90	0.90	53,393	143,287	0	11,213	4,299	0	230.47	230.59	143,287	11,213	4,299	15,511	2			
1995	5	10	108,084		695,636	435.2	21	3	0	35,964	30	123	35,964	1	11	204	193	204	0.90	0.91	53,970	211,105	0	11,334	6,333	0	230.47	230.68	211,105	11,334	6,333	17,667	1			
1995	5	10	108,084		697,448	436.8	0	24	0	106,272	30	123	106,272	1	11	206	195	206	0.90	0.91	54,376	213,689	0	0	51,285	0	230.47	230.68	213,689	0	6,411	51,285	1			
1995	5	11	118,893		699,442	436.9	0	24	0	116,899	30	123	116,899	1	11	206	195	206	0.90	0.91	54,397	213,814	0	0	56,447	0	230.47	230.68	213,814	0	7,056	56,447	1			
1995	6	10	81,378		674,548	436.4	0	24	0	106,272	30	123	106,272	1	11	205	195	206	0.90	0.91	54,271	213,048	0	0	51,132	0	230.47	230.68	213,048	0	6,391	51,132	1			
1995	6	10	81,378		699,873	436.4	15	9	0	56,052	30	123	56,052	1	11	205	195	206	0.90	0.91	54,274	213,063	0	8,141	19,176	0	230.47	230.68	213,063	8,141	6,392	27,317	1			
1995	6	10	81,378		674,979	436.4	0	24	0	106,272	30	123	106,272	1	11	205	195	206	0.90	0.91	54,276	213,077	0	0	51,139	0	230.47	230.68	213,077	0	6,392	51,139	1			
1995	7	10	24,996		664,012	435.6	21	3	0	35,964	30	123	35,964	1	11	205	194	205	0.90	0.91	54,079	211,826	0	11,357	6,355	0	230.47	230.68	211,826	11,357	6,355	17,711	1			
1995	7	10	24,996		653,044	435.1	21	3	0	35,964	30	123	35,964	1	11	204	193	204	0.90	0.91	53,959	211,028	0	11,331	6,331	0	230.47	230.68	211,028	11,331	6,331	17,662	1			
1995	7	11	27,496		641,001	434.6	21	3	0	39,540	30	123	39,540	1	10	204	194	204	0.90	0.90	53,800	211,161	0	12,428	6,968	0	230.47	230.68	211,161	12,428	6,968	19,396	1			
1995	8	10	30,868		635,941	434.2	21	3	0	35,927	30	123	35,927	1	10	203	193	204	0.90	0.90	53,677	210,425	0	11,272	6,313	0	230.47	230.68	210,425	11,272	6,313	17,585	1			
1995	8	10	30,868		630,892	434.0	21	3	0	35,917	30	123	35,917	1	10	203	193	203	0.90	0.90	53,604	209,991	0	11,257	6,300	0	230.47	230.68	209,991	11,257	6,300	17,556	1			
1995	8	11	33,955		625,350	433.7	21	3	0	39,497	30	122	39,497	1	10	203	193	203	0.90	0.90	53,527	209,535	0	12,365	6,915	0	230.47	230.68	209,535	12,365	6,915	19,279	1			
1995	9	10	52,334		646,176	434.1	21	3	0	31,508	30	82	31,508	1	5	203	199	203	0.90	0.90	53,637	144,289	0	11,264	4,329	0	230.47	230.59	144,289	11,264	4,329	15,593	2			
1995	9	10	52,334		662,550	434.9	21	3	0	35,960	30	123	35,960	1	11	204	193	204	0.90	0.90	53,907	210,678	0	11,320	6,320	0	230.47	230.68	210,678	11,320	6,320	17,641	1			
1995	9	10	52,334		678,920	435.7	21	3	0	35,964	30	123	35,964	1	11	205	194	205	0.90	0.91	54,093	211,914	0	11,360	6,357	0	230.47	230.68	211,914	11,360	6,357	17,717	1			
1995	10	10	93,884	1,629	664,902	435.7	0	24	0	106,272	30	123	106,272	1	11	205	194	205	0.90	0.91	54,106	211,998	0	0	50,880	0	230.47	230.68	211,998	0	6,360	50,880	1			
1995	10	10	93,884	1,629	697,757	436.1	14	10	0	59,400	30	123	59,400	1	11	205	194	205	0.90	0.91	54,209	212,659	0	7,589	21,266	0	230.47	230.68	212,659	7,589	6,380	28,855	1			
1995	10	11	103,272	1,792	682,338	436.5	0	24	0	116,899	30	123	116,899	1	11	205	195	206	0.90	0.91	54,305	213,255	0	0	56,299	0	230.47	230.68	213,255	0	7,037	56,299	1			
1995	11	10	92,523		668,588	435.9	0	24	0	106,272	30	123	106,272	1	11	205	194	205	0.90	0.91	54,145	212,249	0	0	50,940	0	230.47	230.68	212,249	0	6,367	50,940	1			
1995	11	10	92,523		688,319	436.0	10	14	0	72,792	30	123	72,792	1	11	205	194	205	0.90	0.91	54,178	212,459	0	5,418	29,744	0	230.47	230.68	212,459	5,418	6,374	35,162	1			
1995	11	10	92,523		674,570	436.2	0	24	0	106,272	30	123	106,272	1	11	205	194	205	0.90	0.91	54,211	212,667	0	0	51,040	0	230.47	230.68	212,667	0	6,380	51,040	1			
1995	12	10	24,339		662,945	435.6	21	3	0	35,964	30	123	35,964	1	11	204	194	205	0.90	0.91	54,071	211,773	0	11,355	6,353	0	230.47	230.68	211,773	11,355	6,353	17,708	1			
1995	12	10	24,339		651,320	435.0	21	3	0	35,964	30	123	35,964	1	11	204	193	204	0.90	0.91	53,944	210,925	0	11,328	6,328	0	230.47	230.68	210,925	11,328	6,328	17,656	1			
1995	12	11	26,773		638,558	434.5	21	3	0	39,535	30	123	39,535	1	10	203	194	204	0.90	0.90	53,770	210,982	0	12,421	6,962	0	230.47	230.68	210,982	12,421	6,962	19,383	1			

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (12/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria O for Hydro (1000 m <sup>3</sup> /s)	O for existing base (m <sup>3</sup> /s)	O for existing peak (m <sup>3</sup> /s)	O for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1996	1	10	15,710		622,766	433.8	21	3	0	31,501	30	82	31,501	1	5		203	199	203	0.90	0.90		53,564	143,987	0	11,248	4,320	0	230.47	230.59	143,987	11,248	4,320	15,568	2	
1996	1	10	15,710		606,997	433.1	21	3	0	31,479	30	81	31,479	1	4		202	198	203	0.90	0.90		53,336	143,051	0	11,201	4,292	0	230.47	230.59	143,051	11,201	4,292	15,492	2	
1996	1	11	17,281		589,676	432.4	21	3	0	34,602	30	81	34,602	1	4		201	197	202	0.90	0.90		53,097	142,074	0	12,265	4,688	0	230.47	230.59	142,074	12,265	4,688	16,954	2	
1996	2	10	15,323		573,565	431.6	21	3	0	31,434	30	81	31,434	1	4		201	197	201	0.90	0.90		52,856	141,087	0	11,100	4,233	0	230.47	230.59	141,087	11,100	4,233	15,332	2	
1996	2	10	15,323		557,476	430.9	21	3	0	31,412	30	81	31,412	1	4		200	196	200	0.90	0.90		52,624	140,141	0	11,051	4,204	0	230.47	230.58	140,141	11,051	4,204	15,255	2	
1996	2	9	13,790		547,938	430.3	24	0	0	23,328	30		23,328	1			199	200	200	0.89			52,440	0	0	11,327	0	0	230.47		52,440	11,327	0	11,327	3	
1996	3	10	7,773		524,343	429.4	21	3	0	31,367	30	80	31,367	1	4		198	194	199	0.89	0.90		52,161	138,257	0	10,954	4,148	0	230.47	230.58	138,257	10,954	4,148	15,101	2	
1996	3	10	7,773		500,790	428.0	21	3	0	31,326	30	80	31,326	1	4		197	193	197	0.89	0.90		51,729	136,509	0	10,863	4,095	0	230.47	230.58	136,509	10,863	4,095	14,958	2	
1996	3	11	8,550		480,828	426.8	24	0	0	28,512	30		28,512	1			196	196	196	0.89			51,332	0	0	13,552	0	0	230.47		51,332	13,552	0	13,552	3	
1996	4	10	34,968		489,876	426.4	24	0	0	25,920	30		25,920	1			195	196	196	0.89			51,233	0	0	12,296	0	0	230.47		51,233	12,296	0	12,296	3	
1996	4	10	34,968		498,924	427.0	24	0	0	25,920	30		25,920	1			196	197	197	0.89			51,398	0	0	12,335	0	0	230.47		51,398	12,335	0	12,335	3	
1996	4	10	34,968		507,972	427.5	24	0	0	25,920	30		25,920	1			196	197	197	0.89			51,563	0	0	12,375	0	0	230.47		51,563	12,375	0	12,375	3	
1996	5	10	7,739		484,413	427.1	21	3	0	31,297	30	80	31,297	1	4		196	192	196	0.89	0.90		51,430	135,301	0	10,800	4,059	0	230.47	230.58	135,301	10,800	4,059	14,859	2	
1996	5	10	7,739		460,896	425.7	21	3	0	31,256	30	79	31,256	1	4		195	191	195	0.89	0.90		51,001	133,572	0	10,710	4,007	0	230.47	230.58	133,572	10,710	4,007	14,717	2	
1996	5	11	8,513		440,898	424.4	24	0	0	28,512	30		28,512	1			193	194	194	0.89			50,606	0	0	13,360	0	0	230.47		50,606	13,360	0	13,360	3	
1996	6	10	30,206		439,904	423.8	21	3	0	31,200	30	79	31,200	1	4		193	189	193	0.89	0.90		50,415	131,220	0	10,587	3,937	0	230.47	230.58	131,220	10,587	3,937	14,524	2	
1996	6	10	30,206		438,913	423.8	21	3	0	31,198	30	79	31,198	1	4		193	189	193	0.89	0.90		50,397	131,148	0	10,583	3,934	0	230.47	230.58	131,148	10,583	3,934	14,518	2	
1996	6	10	30,206		437,923	423.7	21	3	0	31,196	30	79	31,196	1	4		193	189	193	0.89	0.90		50,379	131,076	0	10,580	3,932	0	230.47	230.58	131,076	10,580	3,932	14,512	2	
1996	7	10	33,251		439,976	423.7	21	3	0	31,197	30	79	31,197	1	4		193	189	193	0.89	0.90		50,389	131,115	0	10,582	3,933	0	230.47	230.58	131,115	10,582	3,933	14,515	2	
1996	7	10	33,251		442,026	423.9	21	3	0	31,201	30	79	31,201	1	4		193	189	193	0.89	0.90		50,426	131,264	0	10,589	3,938	0	230.47	230.58	131,264	10,589	3,938	14,527	2	
1996	7	11	36,576		444,277	424.0	21	3	0	34,325	30	79	34,325	1	4		193	189	193	0.89	0.90		50,465	131,420	0	11,657	4,337	0	230.47	230.58	131,420	11,657	4,337	15,994	2	
1996	8	10	37,352		455,708	424.4	24	0	0	25,920	30		25,920	1			193	194	194	0.89			50,589	0	0	12,141	0	0	230.47		50,589	12,141	0	12,141	3	
1996	8	10	37,352		467,140	425.0	24	0	0	25,920	30		25,920	1			194	195	195	0.89			50,797	0	0	12,191	0	0	230.47		50,797	12,191	0	12,191	3	
1996	8	11	41,087		479,715	425.7	24	0	0	28,512	30		28,512	1			195	195	195	0.89			51,015	0	0	13,468	0	0	230.47		51,015	13,468	0	13,468	3	
1996	9	10	76,420		530,215	427.6	24	0	0	25,920	30		25,920	1			196	197	197	0.89			51,590	0	0	12,382	0	0	230.47		51,590	12,382	0	12,382	3	
1996	9	10	76,420		580,715	430.4	24	0	0	25,920	30		25,920	1			199	200	200	0.89			52,480	0	0	12,595	0	0	230.47		52,480	12,595	0	12,595	3	
1996	9	10	76,420		625,672	432.6	21	3	0	31,463	30	81	31,463	1	4		202	198	202	0.90	0.90		53,167	142,360	0	11,165	4,271	0	230.47	230.59	142,360	11,165	4,271	15,436	2	
1996	10	10	99,737	1,629	692,244	435.1	21	3	0	31,536	30	82	31,536	1	5		204	200	205	0.90	0.91		53,964	145,518	0	11,332	4,366	0	230.47	230.59	145,518	11,332	4,366	15,698	2	
1996	10	10	99,737	1,629	684,080	436.5	0	24	0	106,272	30	123	106,272	1	11		205	195	206	0.90	0.91		54,284	213,127	0	0	51,151	0	230.47	230.68	213,127	0	6,394	51,151	1	
1996	10	11	109,711	1,792	675,099	436.1	0	24	0	116,899	30	123	116,899	1	11		205	194	205	0.90	0.91		54,190	212,538	0	0	56,110	0	230.47	230.68	212,538	0	7,014	56,110	1	
1996	11	10	43,468		682,603	436.0	21	3	0	35,964	30	123	35,964	1	11		205	194	205	0.90	0.91		54,182	212,487	0	11,378	6,375	0	230.47	230.68	212,487	11,378	6,375	17,753	1	
1996	11	10	43,468		690,107	436.4	21	3	0	35,964	30	123	35,964	1	11		205	195	206	0.90	0.91		54,264	213,004	0	11,396	6,390	0	230.47	230.68	213,004	11,396	6,390	17,786	1	
1996	11	10	43,468		697,611	436.7	21	3	0	35,964	30	123	35,964	1	11		206	195	206	0.90	0.91		54,347	213,510	0	11,413	6,405	0	230.47	230.68	213,510	11,413	6,405	17,818	1	
1996	12	10	30,995		692,642	436.8	21	3	0	35,964	30	123	35,964	1	11		206	195	206	0.90	0.91		54,361	213,595	0	11,416	6,408	0	230.47	230.68	213,595	11,416	6,408	17,824	1	
1996	12	10	30,995		687,673	436.5	21	3	0	35,964	30	123	35,964	1	11		205	195	206	0.90	0.91		54,306	213,262	0	11,404	6,398	0	230.47	230.68	213,262	11,404	6,398	17,802	1	
1996	12	11	34,095		682,207	436.3	21	3	0	39,560	30	123	39,560	1	11		205	195	206	0.90	0.91		54,249	212,908	0	12,532	7,026	0	230.47	230.68	212,908	12,532	7,026	19,557	1	

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (13/22)**

Year	Month	Days	Poggolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillout or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1997	1	10	7,428		653,671	435.5	21	3	0	35,964	30	123	35,964	1	11		204	194	205	0.90	0.91		54,062	211,714	0	11,353	6,351	0	230.47	230.68	211,714	11,353	6,351	17,705	1	
1997	1	10	7,428		625,170	434.2	21	3	0	35,929	30	123	35,929	1	10		203	193	204	0.90	0.90		53,690	210,507	0	11,275	6,315	0	230.47	230.68	210,507	11,275	6,315	17,590	1	
1997	1	11	8,171		598,717	433.0	21	3	0	34,623	30	81	34,623	1	4		202	198	202	0.90	0.90		53,293	142,878	0	12,311	4,715	0	230.47	230.59	142,878	12,311	4,715	17,026	2	
1997	2	10	6,566		573,843	431.8	21	3	0	31,440	30	81	31,440	1	4		201	197	201	0.90	0.90		52,923	141,361	0	11,114	4,241	0	230.47	230.59	141,361	11,114	4,241	15,355	2	
1997	2	10	6,566		549,003	430.7	21	3	0	31,406	30	81	31,406	1	4		200	196	200	0.89	0.90		52,565	139,901	0	11,039	4,197	0	230.47	230.58	139,901	11,039	4,197	15,236	2	
1997	2	8	5,253		533,520	429.7	24	0	0	20,736	30		20,736	1			199	199	199	0.89			52,254		0	10,033	0	0	230.47		52,254	10,033	0	10,033	3	
1997	3	10	6,785		508,964	428.5	21	3	0	31,341	30	80	31,341	1	4		197	194	198	0.89	0.90		51,888	137,151	0	10,896	4,115	0	230.47	230.58	137,151	10,896	4,115	15,011	2	
1997	3	10	6,785		489,829	427.3	24	0	0	25,920	30		25,920	1			196	197	197	0.89			51,489		0	12,357	0	0	230.47		51,489	12,357	0	12,357	3	
1997	3	11	7,464		468,781	426.1	24	0	0	28,512	30		28,512	1			195	196	196	0.89			51,122		0	13,496	0	0	230.47		51,122	13,496	0	13,496	3	
1997	4	10	28,009		470,870	425.5	24	0	0	25,920	30		25,920	1			194	195	195	0.89			50,950		0	12,228	0	0	230.47		50,950	12,228	0	12,228	3	
1997	4	10	28,009		472,958	425.7	24	0	0	25,920	30		25,920	1			195	195	195	0.89			50,988		0	12,237	0	0	230.47		50,988	12,237	0	12,237	3	
1997	4	10	28,009		475,047	425.8	24	0	0	25,920	30		25,920	1			195	195	195	0.89			51,026		0	12,246	0	0	230.47		51,026	12,246	0	12,246	3	
1997	5	10	45,965		495,093	426.4	24	0	0	25,920	30		25,920	1			195	196	196	0.89			51,228		0	12,295	0	0	230.47		51,228	12,295	0	12,295	3	
1997	5	10	45,965		509,750	427.4	21	3	0	31,308	30	80	31,308	1	4		196	193	197	0.89	0.90		51,544	135,760	0	10,824	4,073	0	230.47	230.58	135,760	10,824	4,073	14,897	2	
1997	5	11	50,562		525,843	428.3	21	3	0	34,469	30	80	34,469	1	4		197	193	198	0.89	0.90		51,825	136,896	0	11,972	4,518	0	230.47	230.58	136,896	11,972	4,518	16,489	2	
1997	6	10	13,571		508,081	428.3	21	3	0	31,334	30	80	31,334	1	4		197	193	198	0.89	0.90		51,810	136,834	0	10,880	4,105	0	230.47	230.58	136,834	10,880	4,105	14,985	2	
1997	6	10	13,571		490,349	427.2	21	3	0	31,303	30	80	31,303	1	4		196	192	197	0.89	0.90		51,485	135,523	0	10,812	4,066	0	230.47	230.58	135,523	10,812	4,066	14,878	2	
1997	6	10	13,571		472,649	426.2	21	3	0	31,272	30	80	31,272	1	4		195	191	196	0.89	0.90		51,162	134,220	0	10,744	4,027	0	230.47	230.58	134,220	10,744	4,027	14,771	2	
1997	7	10	26,102		467,499	425.5	21	3	0	31,252	30	79	31,252	1	4		194	191	195	0.89	0.90		50,954	133,383	0	10,700	4,001	0	230.47	230.58	133,383	10,700	4,001	14,702	2	
1997	7	10	26,102		462,358	425.2	21	3	0	31,243	30	79	31,243	1	4		194	190	195	0.89	0.90		50,861	133,007	0	10,681	3,990	0	230.47	230.58	133,007	10,681	3,990	14,671	2	
1997	7	11	28,712		456,713	424.9	21	3	0	34,356	30	79	34,356	1	4		194	190	194	0.89	0.90		50,763	132,613	0	11,726	4,376	0	230.47	230.58	132,613	11,726	4,376	16,102	2	
1997	8	10	20,234		451,028	424.6	24	0	0	25,920	30		25,920	1			194	194	194	0.89			50,660		0	12,158	0	0	230.47		50,660	12,158	0	12,158	3	
1997	8	10	20,234		445,342	424.3	24	0	0	25,920	30		25,920	1			193	194	194	0.89			50,556		0	12,134	0	0	230.47		50,556	12,134	0	12,134	3	
1997	8	11	22,258		439,088	423.9	24	0	0	28,512	30		28,512	1			193	194	194	0.89			50,448		0	13,318	0	0	230.47		50,448	13,318	0	13,318	3	
1997	9	10	80,306		493,474	425.3	24	0	0	25,920	30		25,920	1			194	195	195	0.89			50,885		0	12,212	0	0	230.47		50,885	12,212	0	12,212	3	
1997	9	10	80,306		547,860	428.5	24	0	0	25,920	30		25,920	1			197	198	198	0.89			51,877		0	12,451	0	0	230.47		51,877	12,451	0	12,451	3	
1997	9	10	80,306		602,246	431.3	24	0	0	25,920	30		25,920	1			200	201	201	0.90			52,761		0	12,663	0	0	230.47		52,761	12,663	0	12,663	3	
1997	10	10	89,779	1,629	658,895	433.8	21	3	0	31,501	30	82	31,501	1	5		203	199	203	0.90	0.90		53,562	143,981	0	11,248	4,319	0	230.47	230.59	143,981	11,248	4,319	15,568	2	
1997	10	10	89,779	1,629	711,082	436.3	21	3	0	35,964	30	123	35,964	1	11		205	195	206	0.90	0.91		54,249	212,911	0	11,392	6,387	0	230.47	230.68	212,911	11,392	6,387	17,780	1	
1997	10	11	98,757	1,792	691,148	437.0	0	24	0	116,899	30	123	116,899	1	11		206	195	206	0.90	0.91		54,426	213,989	0	0	56,493	0	0	230.47	230.68	213,989	0	7,062	56,493	1
1997	11	10	125,707		710,583	437.0	0	24	0	106,272	30	123	106,272	1	11		206	195	206	0.90	0.91		54,424	213,972	0	0	51,353	0	0	230.47	230.68	213,972	0	6,419	51,353	1
1997	11	10	125,707		722,000	437.7	0	24	8,018	106,272	30	123	114,290	1	11		207	196	207	0.90	0.91		54,593	214,954	0	0	51,589	0	0	230.47	230.68	214,954	0	6,449	51,589	1
1997	11	10	125,707		722,000	438.0	0	24	19,435	106,272	30	123	125,707	1	10		207	197	207	0.90	0.91		54,655	215,950	0	0	51,828	0	0	230.47	230.68	215,950	0	6,478	51,828	0
1997	12	10	85,301		701,029	437.5	0	24	0	106,272	30	123	106,272	1	10		206	197	207	0.90	0.91		54,540	215,366	0	0	51,688	0	0	230.47	230.68	215,366	0	6,461	51,688	0
1997	12	10	85,301		680,058	436.6	0	24	0	106,272	30	123	106,272	1	11		205	195	206	0.90	0.91		54,310	213,288	0	0	51,189	0	0	230.47	230.68	213,288	0	6,399	51,189	1
1997	12	11	93,831		664,355	435.7	2	22	0	109,534	30	123	109,534	1	11		205	194	205	0.90	0.91		54,109	212,019	0	1,190	51,309	0	230.47	230.68	212,019	1,190	6,997	52,499	1	

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (14/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillout or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1998	1	10	37,713		666,104	435.4	21	3	0	35,964	30	123	35,964	1	11	204	194	205	0.90	0.91		54,033	211,518	0	11,347	6,346	0	230.47	230.68	211,518	11,347	6,346	17,692	1		
1998	1	10	37,713		667,853	435.5	21	3	0	35,964	30	123	35,964	1	11	204	194	205	0.90	0.91		54,052	211,645	0	11,351	6,349	0	230.47	230.68	211,645	11,351	6,349	17,700	1		
1998	1	11	41,484		669,777	435.6	21	3	0	39,560	30	123	39,560	1	11	204	194	205	0.90	0.91		54,072	211,777	0	12,491	6,989	0	230.47	230.68	211,777	12,491	6,989	19,479	1		
1998	2	10	14,321		648,134	435.1	21	3	0	35,964	30	123	35,964	1	11	204	193	204	0.90	0.91		53,964	211,059	0	11,332	6,332	0	230.47	230.68	211,059	11,332	6,332	17,664	1		
1998	2	10	14,321		626,530	434.1	21	3	0	35,925	30	123	35,925	1	10	203	193	203	0.90	0.90		53,660	210,327	0	11,269	6,310	0	230.47	230.68	210,327	11,269	6,310	17,578	1		
1998	2	8	11,457		612,798	433.3	21	3	0	25,189	30	82	25,189	1	4	202	198	203	0.90	0.90		53,405	143,333	0	8,972	3,440	0	230.47	230.59	143,333	8,972	3,440	12,412	2		
1998	3	10	10,654		591,989	432.5	21	3	0	31,462	30	81	31,462	1	4	201	197	202	0.90	0.90		53,155	142,313	0	11,163	4,269	0	230.47	230.59	142,313	11,163	4,269	15,432	2		
1998	3	10	10,654		571,210	431.6	21	3	0	31,434	30	81	31,434	1	4	201	197	201	0.90	0.90		52,856	141,086	0	11,100	4,233	0	230.47	230.59	141,086	11,100	4,233	15,332	2		
1998	3	11	11,719		548,385	430.6	21	3	0	34,544	30	81	34,544	1	4	200	196	200	0.89	0.90		52,542	139,808	0	12,137	4,614	0	230.47	230.58	139,808	12,137	4,614	16,751	2		
1998	4	10	6,628		523,646	429.4	21	3	0	31,367	30	80	31,367	1	4	198	194	199	0.89	0.90		52,158	138,248	0	10,953	4,147	0	230.47	230.58	138,248	10,953	4,147	15,101	2		
1998	4	10	6,628		498,951	427.9	21	3	0	31,324	30	80	31,324	1	4	197	193	197	0.89	0.90		51,706	136,415	0	10,858	4,092	0	230.47	230.58	136,415	10,858	4,092	14,951	2		
1998	4	10	6,628		479,659	426.7	24	0	0	25,920	30		25,920	1		196	196	196	0.89			51,305	0	0	12,313	0	0	230.47		51,305	12,313	0	12,313	3		
1998	5	10	11,143		459,551	425.5	21	3	0	31,251	30	79	31,251	1	4	194	191	195	0.89	0.90		50,946	133,349	0	10,699	4,000	0	230.47	230.58	133,349	10,699	4,000	14,699	2		
1998	5	10	11,143		444,774	424.5	24	0	0	25,920	30		25,920	1		193	194	194	0.89			50,629	0	0	12,151	0	0	230.47		50,629	12,151	0	12,151	3		
1998	5	11	12,258		428,520	423.6	24	0	0	28,512	30		28,512	1		193	193	193	0.89			50,347	0	0	13,292	0	0	230.47		50,347	13,292	0	13,292	3		
1998	6	10	20,150		417,501	422.8	21	3	0	31,169	30	79	31,169	1	4	192	188	192	0.89	0.90		50,100	129,960	0	10,521	3,899	0	230.47	230.58	129,960	10,521	3,899	14,420	2		
1998	6	10	20,150		411,731	422.3	24	0	0	25,920	30		25,920	1		191	192	192	0.89			49,948	0	0	11,987	0	0	230.47		49,948	11,987	0	11,987	3		
1998	6	10	20,150		405,960	422.0	24	0	0	25,920	30		25,920	1		191	192	192	0.89			49,843	0	0	11,962	0	0	230.47		49,843	11,962	0	11,962	3		
1998	7	10	39,873		419,913	422.2	24	0	0	25,920	30		25,920	1		191	192	192	0.89			49,917	0	0	11,980	0	0	230.47		49,917	11,980	0	11,980	3		
1998	7	10	39,873		433,866	423.0	24	0	0	25,920	30		25,920	1		192	193	193	0.89			50,170	0	0	12,041	0	0	230.47		50,170	12,041	0	12,041	3		
1998	7	11	43,860		443,410	423.7	21	3	0	34,316	30	79	34,316	1	4	193	189	193	0.89	0.90		50,383	131,092	0	11,639	4,326	0	230.47	230.58	131,092	11,639	4,326	15,965	2		
1998	8	10	40,696		458,185	424.4	24	0	0	25,920	30		25,920	1		193	194	194	0.89			50,604	0	0	12,145	0	0	230.47		50,604	12,145	0	12,145	3		
1998	8	10	40,696		472,961	425.3	24	0	0	25,920	30		25,920	1		194	195	195	0.89			50,873	0	0	12,209	0	0	230.47		50,873	12,209	0	12,209	3		
1998	8	11	44,765		489,214	426.2	24	0	0	28,512	30		28,512	1		195	196	196	0.89			51,155	0	0	13,505	0	0	230.47		51,155	13,505	0	13,505	3		
1998	9	10	52,571		515,865	427.4	24	0	0	25,920	30		25,920	1		196	197	197	0.89			51,546	0	0	12,371	0	0	230.47		51,546	12,371	0	12,371	3		
1998	9	10	52,571		542,516	429.0	24	0	0	25,920	30		25,920	1		198	199	199	0.89			52,033	0	0	12,488	0	0	230.47		52,033	12,488	0	12,488	3		
1998	9	10	52,571		569,167	430.4	24	0	0	25,920	30		25,920	1		199	200	200	0.89			52,485	0	0	12,596	0	0	230.47		52,485	12,596	0	12,596	3		
1998	10	10	66,481	1,629	608,100	431.9	24	0	0	25,920	30		25,920	1		201	202	202	0.90			52,957	0	0	12,710	0	0	230.47		52,957	12,710	0	12,710	3		
1998	10	10	66,481	1,629	641,459	433.6	21	3	0	31,493	30	82	31,493	1	5	202	198	203	0.90	0.90		53,479	143,638	0	11,231	4,309	0	230.47	230.59	143,638	11,231	4,309	15,540	2		
1998	10	11	73,129	1,792	678,107	435.2	21	3	0	34,690	30	82	34,690	1	5	204	200	205	0.90	0.91		53,973	145,556	0	12,468	4,803	0	230.47	230.59	145,556	12,468	4,803	17,271	2		
1998	11	10	34,329		676,472	436.0	21	3	0	35,964	30	123	35,964	1	11	205	194	205	0.90	0.91		54,165	212,378	0	11,375	6,371	0	230.47	230.68	212,378	11,375	6,371	17,746	1		
1998	11	10	34,329		674,837	435.9	21	3	0	35,964	30	123	35,964	1	11	205	194	205	0.90	0.91		54,147	212,263	0	11,371	6,368	0	230.47	230.68	212,263	11,371	6,368	17,739	1		
1998	11	10	34,329		673,202	435.8	21	3	0	35,964	30	123	35,964	1	11	205	194	205	0.90	0.91		54,129	212,148	0	11,367	6,364	0	230.47	230.68	212,148	11,367	6,364	17,732	1		
1998	12	10	35,273		672,511	435.8	21	3	0	35,964	30	123	35,964	1	11	205	194	205	0.90	0.91		54,116	212,065	0	11,364	6,362	0	230.47	230.68	212,065	11,364	6,362	17,726	1		
1998	12	10	35,273		671,820	435.7	21	3	0	35,964	30	123	35,964	1	11	205	194	205	0.90	0.91		54,109	212,016	0	11,363	6,360	0	230.47	230.68	212,016	11,363	6,360	17,723	1		
1998	12	11	38,800		671,060	435.7	21	3	0	39,560	30	123	39,560	1	11	205	194	205	0.90	0.91		54,101	211,965	0	12,497	6,995	0	230.47	230.68	211,965	12,497	6,995	19,492	1		



**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (15/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillout or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria O for Hydro (1000 m <sup>3</sup> /s)	O for existing base (m <sup>3</sup> /s)	O for existing peak (m <sup>3</sup> /s)	O for Expansion units (m <sup>3</sup> /s)		Existing	Existing	Expansion	Existing	Existing	Expansion	Existing	Existing	Expansion	Existing	Existing	Expansion	Existing	Existing	Expansion	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1999	1	10	78,011		713,107	436.6	21	3	0	35,964	30	123	35,964	1	11		206	195	206	0.90	0.91		54,327	213,392	0	11,409	6,402	0	230.47	230.68	213,392	11,409	6,402	17,810	1	
1999	1	10	78,011		684,846	436.9	0	24	0	106,272	30	123	106,272	1	11		206	195	206	0.90	0.91		54,403	213,849	0	0	51,324	0	230.47	230.68	213,849	0	6,415	51,324	1	
1999	1	11	85,812		672,173	436.0	5	19	0	98,485	30	123	98,485	1	11		205	194	205	0.90	0.91		54,178	212,463	0	2,980	44,405	0	230.47	230.68	212,463	2,980	7,011	47,385	1	
1999	2	10	30,541		666,750	435.6	21	3	0	35,964	30	123	35,964	1	11		205	194	205	0.90	0.91		54,079	211,823	0	11,357	6,355	0	230.47	230.68	211,823	11,357	6,355	17,711	1	
1999	2	10	30,541		661,328	435.4	21	3	0	35,964	30	123	35,964	1	11		204	193	205	0.90	0.91		54,019	211,432	0	11,344	6,343	0	230.47	230.68	211,432	11,344	6,343	17,687	1	
1999	2	8	24,433		656,990	435.1	21	3	0	28,771	30	123	28,771	1	11		204	193	204	0.90	0.91		53,966	211,074	0	9,066	5,066	0	230.47	230.68	211,074	9,066	5,066	14,132	1	
1999	3	10	25,128		646,163	434.8	21	3	0	35,954	30	123	35,954	1	10		204	194	204	0.90	0.90		53,866	211,554	0	11,312	6,347	0	230.47	230.68	211,554	11,312	6,347	17,659	1	
1999	3	10	25,128		635,359	434.3	21	3	0	35,932	30	123	35,932	1	10		203	193	204	0.90	0.90		53,710	210,622	0	11,279	6,319	0	230.47	230.68	210,622	11,279	6,319	17,598	1	
1999	3	11	27,641		628,347	433.9	21	3	0	34,653	30	82	34,653	1	5		203	199	203	0.90	0.90		53,581	144,057	0	12,377	4,754	0	230.47	230.59	144,057	12,377	4,754	17,131	2	
1999	4	10	35,399		632,245	433.8	21	3	0	31,500	30	82	31,500	1	5		203	199	203	0.90	0.90		53,558	143,965	0	11,247	4,319	0	230.47	230.59	143,965	11,247	4,319	15,566	2	
1999	4	10	35,399		636,138	434.0	21	3	0	31,506	30	82	31,506	1	5		203	199	203	0.90	0.90		53,615	144,196	0	11,259	4,326	0	230.47	230.59	144,196	11,259	4,326	15,585	2	
1999	4	10	35,399		635,615	434.1	21	3	0	35,922	30	123	35,922	1	10		203	193	203	0.90	0.90		53,639	210,202	0	11,264	6,306	0	230.47	230.68	210,202	11,264	6,306	17,570	1	
1999	5	10	36,682		636,374	434.1	21	3	0	35,922	30	123	35,922	1	10		203	193	203	0.90	0.90		53,641	210,212	0	11,265	6,306	0	230.47	230.68	210,212	11,265	6,306	17,571	1	
1999	5	10	36,682		637,132	434.1	21	3	0	35,924	30	123	35,924	1	10		203	193	203	0.90	0.90		53,652	210,277	0	11,267	6,308	0	230.47	230.68	210,277	11,267	6,308	17,575	1	
1999	5	11	40,350		637,963	434.1	21	3	0	39,518	30	123	39,518	1	10		203	193	203	0.90	0.90		53,663	210,346	0	12,396	6,941	0	230.47	230.68	210,346	12,396	6,941	19,338	1	
1999	6	10	112,000		714,000	435.9	21	3	0	35,964	30	123	35,964	1	11		205	194	205	0.90	0.91		54,151	212,286	0	11,372	6,369	0	230.47	230.68	212,286	11,372	6,369	17,740	1	
1999	6	10	112,000		719,728	437.8	0	24	0	106,272	30	123	106,272	1	11		207	196	207	0.90	0.91		54,599	214,989	0	0	51,597	0	230.47	230.68	214,989	0	6,450	51,597	1	
1999	6	10	112,000		722,000	437.9	0	24	3,456	106,272	30	123	109,728	1	11		207	196	207	0.90	0.91		54,643	215,235	0	0	51,657	0	230.47	230.68	215,235	0	6,457	51,657	1	
1999	7	10	22,024		708,060	437.7	21	3	0	35,964	30	123	35,964	1	11		207	196	207	0.90	0.91		54,579	214,876	0	11,462	6,446	0	230.47	230.68	214,876	11,462	6,446	17,908	0	
1999	7	10	22,024		694,120	437.0	21	3	0	35,964	30	123	35,964	1	11		206	195	206	0.90	0.91		54,426	213,987	0	11,429	6,420	0	230.47	230.68	213,987	11,429	6,420	17,849	1	
1999	7	11	24,226		678,786	436.4	21	3	0	39,560	30	123	39,560	1	11		205	195	206	0.90	0.91		54,266	213,011	0	12,535	7,029	0	230.47	230.68	213,011	12,535	7,029	19,565	1	
1999	8	10	12,662		655,485	435.5	21	3	0	35,964	30	123	35,964	1	11		204	194	205	0.90	0.91		54,053	211,656	0	11,351	6,350	0	230.47	230.68	211,656	11,351	6,350	17,701	1	
1999	8	10	12,662		632,208	434.4	21	3	0	35,939	30	123	35,939	1	10		203	194	204	0.90	0.90		53,754	210,888	0	11,288	6,327	0	230.47	230.68	210,888	11,288	6,327	17,615	1	
1999	8	11	13,929		606,660	433.3	21	3	0	39,477	30	122	39,477	1	10		202	193	203	0.90	0.90		53,401	208,790	0	12,336	6,890	0	230.47	230.68	208,790	12,336	6,890	19,226	1	
1999	9	10	18,917		594,117	432.5	21	3	0	31,459	30	81	31,459	1	4		201	197	202	0.90	0.90		53,127	142,195	0	11,157	4,266	0	230.47	230.59	142,195	11,157	4,266	15,422	2	
1999	9	10	18,917		581,592	431.9	21	3	0	31,442	30	81	31,442	1	4		201	197	201	0.90	0.90		52,946	141,454	0	11,119	4,244	0	230.47	230.59	141,454	11,119	4,244	15,362	2	
1999	9	10	18,917		569,084	431.3	21	3	0	31,425	30	81	31,425	1	4		200	196	201	0.90	0.90		52,766	140,718	0	11,081	4,222	0	230.47	230.59	140,718	11,081	4,222	15,302	2	
1999	10	10	33,243	1,629	574,778	431.2	24	0	0	25,920	30		25,920	1			200	201	201	0.90			52,717	0	0	12,652	0	0	230.47		52,717	12,652	0	12,652	3	
1999	10	10	33,243		580,473	431.4	24	0	0	25,920	30		25,920	1			200	201	201	0.90			52,799	0	0	12,672	0	0	230.47		52,799	12,672	0	12,672	3	
1999	10	11	36,568	1,792	580,673	431.5	21	3	0	34,575	30	81	34,575	1	4		200	197	201	0.90	0.90		52,841	141,028	0	12,206	4,654	0	230.47	230.59	141,028	12,206	4,654	16,860	2	
1999	11	10	30,588		579,829	431.5	21	3	0	31,432	30	81	31,432	1	4		200	197	201	0.90	0.90		52,836	141,006	0	11,096	4,230	0	230.47	230.59	141,006	11,096	4,230	15,326	2	
1999	11	10	30,588		578,987	431.5	21	3	0	31,431	30	81	31,431	1	4		200	196	201	0.90	0.90		52,824	140,957	0	11,093	4,229	0	230.47	230.59	140,957	11,093	4,229	15,322	2	
1999	11	10	30,588		578,145	431.5	21	3	0	31,429	30	81	31,429	1	4		200	196	201	0.90	0.90		52,812	140,907	0	11,091	4,227	0	230.47	230.59	140,907	11,091	4,227	15,318	2	
1999	12	10	29,737		576,455	431.4	21	3	0	31,428	30	81	31,428	1	4		200	196	201	0.90	0.90		52,794	140,833	0	11,087	4,225	0	230.47	230.59	140,833	11,087	4,225	15,312	2	
1999	12	10	29,737		574,767	431.3	21	3	0	31,425	30	81	31,425	1	4		200	196	201	0.90	0.90		52,769	140,734	0	11,082	4,222	0	230.47	230.59	140,734	11,082	4,222	15,304	2	
1999	12	11	32,711		572,913	431.2	21	3	0	34,565	30	81	34,565	1	4		200	196	201	0.90	0.90		52,744	140,632	0	12,184	4,641	0	230.47	230.59	140,632	12,184	4,641	16,825	2	

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (16/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillout or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary					
							t1 base (hours)	t2 peak (hours)		Victoria O for Hydro (1000 m <sup>3</sup> /s)	O for existing base (m <sup>3</sup> /s)	O for existing peak (m <sup>3</sup> /s)	O for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode	
2000	1	10	29,204		576,197	431.3	24	0	0	25,920	30		25,920		1			200	201	201	0.90				52,754	0	0	12,661	0	0	230.47		52,754	12,661	0	12,661	3
2000	1	10	29,204		573,976	431.3	21	3	0	31,425	30	81	31,425	1	4		200	196	201	0.90	0.90			52,762	140,703	0	11,080	4,221	0	230.47	230.59	140,703	11,080	4,221	15,301	2	
2000	1	11	32,124		571,536	431.2	21	3	0	34,564	30	81	34,564	1	4		200	196	201	0.90	0.90			52,728	140,568	0	12,180	4,639	0	230.47	230.59	140,568	12,180	4,639	16,819	2	
2000	2	10	51,845		597,461	431.7	24	0	0	25,920	30		25,920	1			201	201	201	0.90				52,898	0	0	12,695	0	0	230.47		52,898	12,695	0	12,695	3	
2000	2	10	51,845		617,837	432.8	21	3	0	31,469	30	81	31,469	1	4		202	198	202	0.90	0.90			53,231	142,624	0	11,179	4,279	0	230.47	230.59	142,624	11,179	4,279	15,457	2	
2000	2	9	46,661		636,152	433.7	21	3	0	28,346	30	82	28,346	1	5		203	199	203	0.90	0.90			53,511	143,767	0	10,114	3,882	0	230.47	230.59	143,767	10,114	3,882	13,995	2	
2000	3	10	31,386		636,029	434.1	21	3	0	31,508	30	82	31,508	1	5		203	199	203	0.90	0.90			53,642	144,309	0	11,265	4,329	0	230.47	230.59	144,309	11,265	4,329	15,594	2	
2000	3	10	31,386		635,907	434.1	21	3	0	31,508	30	82	31,508	1	5		203	199	203	0.90	0.90			53,640	144,302	0	11,264	4,329	0	230.47	230.59	144,302	11,264	4,329	15,594	2	
2000	3	11	34,524		635,772	434.1	21	3	0	34,659	30	82	34,659	1	5		203	199	203	0.90	0.90			53,639	144,294	0	12,391	4,762	0	230.47	230.59	144,294	12,391	4,762	17,152	2	
2000	4	10	32,006		631,861	434.0	21	3	0	35,918	30	123	35,918	1	10		203	193	203	0.90	0.90			53,609	210,025	0	11,258	6,301	0	230.47	230.68	210,025	11,258	6,301	17,559	1	
2000	4	10	32,006		632,365	433.9	21	3	0	31,503	30	82	31,503	1	5		203	199	203	0.90	0.90			53,585	144,073	0	11,253	4,322	0	230.47	230.59	144,073	11,253	4,322	15,575	2	
2000	4	10	32,006		632,867	433.9	21	3	0	31,504	30	82	31,504	1	5		203	199	203	0.90	0.90			53,592	144,103	0	11,254	4,323	0	230.47	230.59	144,103	11,254	4,323	15,577	2	
2000	5	10	10,887		607,864	433.4	21	3	0	35,890	30	122	35,890	1	10		202	193	203	0.90	0.90			53,415	208,870	0	11,217	6,266	0	230.47	230.68	208,870	11,217	6,266	17,483	1	
2000	5	10	10,887		587,296	432.3	21	3	0	31,456	30	81	31,456	1	4		201	197	202	0.90	0.90			53,086	142,029	0	11,148	4,261	0	230.47	230.59	142,029	11,148	4,261	15,409	2	
2000	5	11	11,976		564,703	431.3	21	3	0	34,569	30	81	34,569	1	4		200	196	201	0.90	0.90			52,775	140,759	0	12,191	4,645	0	230.47	230.59	140,759	12,191	4,645	16,836	2	
2000	6	10	23,973		557,272	430.7	21	3	0	31,405	30	81	31,405	1	4		200	196	200	0.89	0.90			52,559	139,876	0	11,037	4,196	0	230.47	230.58	139,876	11,037	4,196	15,234	2	
2000	6	10	23,973		549,850	430.3	21	3	0	31,395	30	81	31,395	1	4		199	195	200	0.89	0.90			52,452	139,441	0	11,015	4,183	0	230.47	230.58	139,441	11,015	4,183	15,198	2	
2000	6	10	23,973		542,439	430.0	21	3	0	31,385	30	81	31,385	1	4		199	195	199	0.89	0.90			52,344	139,002	0	10,992	4,170	0	230.47	230.58	139,002	10,992	4,170	15,162	2	
2000	7	10	15,638		526,712	429.3	21	3	0	31,365	30	80	31,365	1	4		198	194	199	0.89	0.90			52,132	138,141	0	10,948	4,144	0	230.47	230.58	138,141	10,948	4,144	15,092	2	
2000	7	10	15,638		511,013	428.4	21	3	0	31,337	30	80	31,337	1	4		197	193	198	0.89	0.90			51,844	136,975	0	10,887	4,109	0	230.47	230.58	136,975	10,887	4,109	14,997	2	
2000	7	11	17,202		493,776	427.4	21	3	0	34,439	30	80	34,439	1	4		196	193	197	0.89	0.90			51,544	135,758	0	11,907	4,480	0	230.47	230.58	135,758	11,907	4,480	16,387	2	
2000	8	10	54,970		522,826	427.8	24	0	0	25,920	30		25,920	1			197	197	197	0.89				51,651	0	0	12,396	0	0	230.47		51,651	12,396	0	12,396	3	
2000	8	10	54,970		546,432	429.3	21	3	0	31,365	30	80	31,365	1	4		198	194	199	0.89	0.90			52,133	138,145	0	10,948	4,144	0	230.47	230.58	138,145	10,948	4,144	15,092	2	
2000	8	11	60,467		572,356	430.6	21	3	0	34,543	30	81	34,543	1	4		200	196	200	0.89	0.90			52,536	139,785	0	12,136	4,613	0	230.47	230.58	139,785	12,136	4,613	16,749	2	
2000	9	10	31,039		577,475	431.3	24	0	0	25,920	30		25,920	1			200	201	201	0.90				52,759	0	0	12,662	0	0	230.47		52,759	12,662	0	12,662	3	
2000	9	10	31,039		577,087	431.4	21	3	0	31,428	30	81	31,428	1	4		200	196	201	0.90	0.90			52,794	140,832	0	11,087	4,225	0	230.47	230.59	140,832	11,087	4,225	15,312	2	
2000	9	10	31,039		576,699	431.4	21	3	0	31,427	30	81	31,427	1	4		200	196	201	0.90	0.90			52,788	140,809	0	11,085	4,224	0	230.47	230.59	140,809	11,085	4,224	15,310	2	
2000	10	10	42,703	1,629	586,339	431.6	21	3	0	31,434	30	81	31,434	1	4		201	197	201	0.90	0.90			52,855	141,081	0	11,099	4,232	0	230.47	230.59	141,081	11,099	4,232	15,332	2	
2000	10	10	42,703	1,629	595,966	432.0	21	3	0	31,447	30	81	31,447	1	4		201	197	201	0.90	0.90			52,993	141,648	0	11,129	4,249	0	230.47	230.59	141,648	11,129	4,249	15,378	2	
2000	10	11	46,973	1,792	606,541	432.5	21	3	0	34,607	30	81	34,607	1	4		201	197	202	0.90	0.90			53,139	142,246	0	12,275	4,694	0	230.47	230.59	142,246	12,275	4,694	16,969	2	
2000	11	10	35,002		610,072	432.8	21	3	0	31,470	30	81	31,470	1	4		202	198	202	0.90	0.90			53,241	142,663	0	11,181	4,280	0	230.47	230.59	142,663	11,181	4,280	15,460	2	
2000	11	10	35,002		613,598	433.0	21	3	0	31,475	30	81	31,475	1	4		202	198	202	0.90	0.90			53,292	142,871	0	11,191	4,286	0	230.47	230.59	142,871	11,191	4,286	15,477	2	
2000	11	10	35,002		617,120	433.1	21	3	0	31,480	30	81	31,480	1	4		202	198	203	0.90	0.90			53,343	143,080	0	11,202	4,292	0	230.47	230.59	143,080	11,202	4,292	15,494	2	
2000	12	10	32,577		618,214	433.2	21	3	0	31,483	30	82	31,483	1	4		202	198	203	0.90	0.90			53,376	143,216	0	11,209	4,296	0	230.47	230.59	143,216	11,209	4,296	15,505	2	
2000	12	10	32,577		619,307	433.3	21	3	0	31,485	30	82	31,485	1	4		202	198	203	0.90	0.90			53,392	143,281	0	11,212	4,298	0	230.47	230.59	143,281	11,212	4,298	15,511	2	
2000	12	11	35,835		620,507	433.3	21	3	0	34,635	30	82	34,635	1	4		202	198	203	0.90	0.90			53,408	143,349	0	12,337	4,731	0	230.47	230.59	143,349	12,337	4,731	17,068	2	

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (17/22)**

Year	Month	Days	Poggolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria O for Hydro (1000 m <sup>3</sup> /s)	O for existing base (m <sup>3</sup> /s)	O for existing peak (m <sup>3</sup> /s)	O for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
2001	1	10	39,973		628,987	433.6	21	3	0	31,493	30	82	31,493	1	5		202	198	203	0.90	0.90		53,478	143,636	0	11,230	4,309	0	230.47	230.59	143,636	11,230	4,309	15,540	2	
2001	1	10	39,973		637,455	434.0	21	3	0	31,504	30	82	31,504	1	5		203	199	203	0.90	0.90		53,601	144,138	0	11,256	4,324	0	230.47	230.59	144,138	11,256	4,324	15,580	2	
2001	1	11	43,970		646,757	434.4	21	3	0	34,668	30	82	34,668	1	5		203	199	204	0.90	0.90		53,729	144,666	0	12,411	4,774	0	230.47	230.59	144,666	12,411	4,774	17,185	2	
2001	2	10	33,248		644,063	434.5	21	3	0	35,942	30	123	35,942	1	10		203	194	204	0.90	0.90		53,777	211,023	0	11,293	6,331	0	230.47	230.68	211,023	11,293	6,331	17,624	1	
2001	2	10	33,248		641,375	434.4	21	3	0	35,936	30	123	35,936	1	10		203	194	204	0.90	0.90		53,738	210,791	0	11,285	6,324	0	230.47	230.68	210,791	11,285	6,324	17,609	1	
2001	2	8	26,598		642,760	434.4	21	3	0	25,213	30	82	25,213	1	5		203	199	204	0.90	0.90		53,729	144,662	0	9,026	3,472	0	230.47	230.59	144,662	9,026	3,472	12,498	2	
2001	3	10	11,557		618,406	433.8	21	3	0	35,911	30	123	35,911	1	10		203	193	203	0.90	0.90		53,563	209,747	0	11,248	6,292	0	230.47	230.68	209,747	11,248	6,292	17,541	1	
2001	3	10	11,557		598,493	432.8	21	3	0	31,470	30	81	31,470	1	4		202	198	202	0.90	0.90		53,243	142,671	0	11,181	4,280	0	230.47	230.59	142,671	11,181	4,280	15,461	2	
2001	3	11	12,713		576,619	431.9	21	3	0	34,586	30	81	34,586	1	4		201	197	201	0.90	0.90		52,942	141,438	0	12,229	4,667	0	230.47	230.59	141,438	12,229	4,667	16,897	2	
2001	4	10	31,707		576,900	431.4	21	3	0	31,427	30	81	31,427	1	4		200	196	201	0.90	0.90		52,786	140,801	0	11,085	4,224	0	230.47	230.59	140,801	11,085	4,224	15,309	2	
2001	4	10	31,707		577,180	431.4	21	3	0	31,427	30	81	31,427	1	4		200	196	201	0.90	0.90		52,790	140,818	0	11,086	4,225	0	230.47	230.59	140,818	11,086	4,225	15,310	2	
2001	4	10	31,707		577,460	431.4	21	3	0	31,428	30	81	31,428	1	4		200	196	201	0.90	0.90		52,794	140,834	0	11,087	4,225	0	230.47	230.59	140,834	11,087	4,225	15,312	2	
2001	5	10	15,552		561,594	431.0	21	3	0	31,417	30	81	31,417	1	4		200	196	200	0.90	0.90		52,682	140,376	0	11,063	4,211	0	230.47	230.58	140,376	11,063	4,211	15,274	2	
2001	5	10	15,552		545,750	430.3	21	3	0	31,395	30	81	31,395	1	4		199	195	200	0.89	0.90		52,454	139,447	0	11,015	4,183	0	230.47	230.58	139,447	11,015	4,183	15,199	2	
2001	5	11	17,107		528,351	429.4	21	3	0	34,506	30	80	34,506	1	4		198	194	199	0.89	0.90		52,177	138,325	0	12,053	4,565	0	230.47	230.58	138,325	12,053	4,565	16,618	2	
2001	6	10	12,657		509,671	428.4	21	3	0	31,337	30	80	31,337	1	4		197	193	198	0.89	0.90		51,847	136,986	0	10,888	4,110	0	230.47	230.58	136,986	10,888	4,110	14,997	2	
2001	6	10	12,657		491,024	427.3	21	3	0	31,305	30	80	31,305	1	4		196	192	197	0.89	0.90		51,506	135,607	0	10,816	4,068	0	230.47	230.58	135,607	10,816	4,068	14,885	2	
2001	6	10	12,657		472,410	426.2	21	3	0	31,272	30	80	31,272	1	4		195	191	196	0.89	0.90		51,166	134,236	0	10,745	4,027	0	230.47	230.58	134,236	10,745	4,027	14,772	2	
2001	7	10	32,476		473,629	425.7	21	3	0	31,257	30	79	31,257	1	4		195	191	195	0.89	0.90		51,008	133,599	0	10,712	4,008	0	230.47	230.58	133,599	10,712	4,008	14,720	2	
2001	7	10	32,476		474,847	425.8	21	3	0	31,259	30	79	31,259	1	4		195	191	195	0.89	0.90		51,030	133,688	0	10,716	4,011	0	230.47	230.58	133,688	10,716	4,011	14,727	2	
2001	7	11	35,724		476,184	425.9	21	3	0	34,387	30	79	34,387	1	4		195	191	195	0.89	0.90		51,053	133,782	0	11,793	4,415	0	230.47	230.58	133,782	11,793	4,415	16,208	2	
2001	8	10	22,735		472,998	425.8	24	0	0	25,920	30		25,920	1			195	195	195	0.89			51,037	0	0	12,249	0	0	230.47		51,037	12,249	0	12,249	3	
2001	8	10	22,735		469,813	425.6	24	0	0	25,920	30		25,920	1			195	195	195	0.89			50,979	0	0	12,235	0	0	230.47		50,979	12,235	0	12,235	3	
2001	8	11	25,008		466,309	425.4	24	0	0	28,512	30		28,512	1			194	195	195	0.89			50,918	0	0	13,442	0	0	230.47		50,918	13,442	0	13,442	3	
2001	9	10	30,238		470,627	425.5	24	0	0	25,920	30		25,920	1			194	195	195	0.89			50,925	0	0	12,222	0	0	230.47		50,925	12,222	0	12,222	3	
2001	9	10	30,238		474,946	425.7	24	0	0	25,920	30		25,920	1			195	195	195	0.89			51,004	0	0	12,241	0	0	230.47		51,004	12,241	0	12,241	3	
2001	9	10	30,238		479,264	426.0	24	0	0	25,920	30		25,920	1			195	196	196	0.89			51,082	0	0	12,260	0	0	230.47		51,082	12,260	0	12,260	3	
2001	10	10	59,352	1,629	511,067	427.0	24	0	0	25,920	30		25,920	1			196	197	197	0.89			51,412	0	0	12,339	0	0	230.47		51,412	12,339	0	12,339	3	
2001	10	10	59,352	1,629	542,871	428.9	24	0	0	25,920	30		25,920	1			198	198	198	0.89			51,993	0	0	12,478	0	0	230.47		51,993	12,478	0	12,478	3	
2001	10	11	65,288	1,792	577,854	430.6	24	0	0	28,512	30		28,512	1			200	200	200	0.89			52,550	0	0	13,873	0	0	230.47		52,550	13,873	0	13,873	3	
2001	11	10	35,227		581,650	431.5	21	3	0	31,431	30	81	31,431	1	4		200	196	201	0.90	0.90		52,829	140,977	0	11,094	4,229	0	230.47	230.59	140,977	11,094	4,229	15,323	2	
2001	11	10	35,227		585,440	431.7	21	3	0	31,436	30	81	31,436	1	4		201	197	201	0.90	0.90		52,884	141,200	0	11,106	4,236	0	230.47	230.59	141,200	11,106	4,236	15,342	2	
2001	11	10	35,227		589,225	431.9	21	3	0	31,441	30	81	31,441	1	4		201	197	201	0.90	0.90		52,938	141,423	0	11,117	4,243	0	230.47	230.59	141,423	11,117	4,243	15,360	2	
2001	12	10	41,612		599,386	432.2	21	3	0	31,451	30	81	31,451	1	4		201	197	202	0.90	0.90		53,039	141,834	0	11,138	4,255	0	230.47	230.59	141,834	11,138	4,255	15,393	2	
2001	12	10	41,612		609,533	432.6	21	3	0	31,465	30	81	31,465	1	4		202	198	202	0.90	0.90		53,185	142,435	0	11,169	4,273	0	230.47	230.59	142,435	11,169	4,273	15,442	2	
2001	12	11	45,773		620,679	433.1	21	3	0	34,628	30	81	34,628	1	4		202	198	203	0.90	0.90		53,339	143,065	0	12,321	4,721	0	230.47	230.59	143,065	12,321	4,721	17,042	2	

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (18/22)**

Year	Month	Days	Poggalla Release + Residual Basin (1000 m <sup>3</sup> )	Spillout or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria O for Hydro (1000 m <sup>3</sup> /s)	O for existing base (m <sup>3</sup> /s)	O for existing peak (m <sup>3</sup> /s)	O for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
2002	1	10	20,217		609,417	433.1	21	3	0	31,480	30	81	31,480	1	4		202	198	203	0.90	0.90		53,338	143,061	0	11,201	4,292	0	230.47	230.59	143,061	11,201	4,292	15,493	2	
2002	1	10	20,217		598,170	432.6	21	3	0	31,464	30	81	31,464	1	4		202	198	202	0.90	0.90		53,176	142,396	0	11,167	4,272	0	230.47	230.59	142,396	11,167	4,272	15,439	2	
2002	1	11	22,239		585,816	432.1	21	3	0	34,593	30	81	34,593	1	4		201	197	201	0.90	0.90		53,005	141,700	0	12,244	4,676	0	230.47	230.59	141,700	12,244	4,676	16,920	2	
2002	2	10	11,400		565,790	431.3	21	3	0	31,426	30	81	31,426	1	4		200	196	201	0.90	0.90		52,772	140,745	0	11,082	4,222	0	230.47	230.59	140,745	11,082	4,222	15,305	2	
2002	2	10	11,400		551,270	430.5	24	0	0	25,920	30		25,920	1			199	200	200	0.89			52,524	0	0	12,606	0	0	230.47		52,524	12,606	0	12,606	3	
2002	2	8	9,120		539,653	429.9	24	0	0	20,736	30		20,736	1			199	200	200	0.89			52,331	0	0	10,048	0	0	230.47		52,331	10,048	0	10,048	3	
2002	3	10	7,926		516,227	428.9	21	3	0	31,353	30	80	31,353	1	4		198	194	198	0.89	0.90		52,010	137,648	0	10,922	4,129	0	230.47	230.58	137,648	10,922	4,129	15,052	2	
2002	3	10	7,926		498,233	427.7	24	0	0	25,920	30		25,920	1			197	197	197	0.89			51,632	0	0	12,392	0	0	230.47		51,632	12,392	0	12,392	3	
2002	3	11	8,719		478,440	426.6	24	0	0	28,512	30		28,512	1			196	196	196	0.89			51,287	0	0	13,540	0	0	230.47		51,287	13,540	0	13,540	3	
2002	4	10	49,671		502,191	426.7	24	0	0	25,920	30		25,920	1			196	196	196	0.89			51,323	0	0	12,318	0	0	230.47		51,323	12,318	0	12,318	3	
2002	4	10	49,671		525,942	428.1	24	0	0	25,920	30		25,920	1			197	198	198	0.89			51,757	0	0	12,422	0	0	230.47		51,757	12,422	0	12,422	3	
2002	4	10	49,671		544,248	429.3	21	3	0	31,365	30	80	31,365	1	4		198	194	199	0.89	0.90		52,141	138,180	0	10,950	4,145	0	230.47	230.58	138,180	10,950	4,145	15,095	2	
2002	5	10	31,333		544,200	429.9	21	3	0	31,381	30	81	31,381	1	4		199	195	199	0.89	0.90		52,309	138,859	0	10,985	4,166	0	230.47	230.58	138,859	10,985	4,166	15,151	2	
2002	5	10	31,333		544,152	429.9	21	3	0	31,381	30	81	31,381	1	4		199	195	199	0.89	0.90		52,308	138,856	0	10,985	4,166	0	230.47	230.58	138,856	10,985	4,166	15,150	2	
2002	5	11	34,467		544,099	429.9	21	3	0	34,519	30	81	34,519	1	4		199	195	199	0.89	0.90		52,307	138,852	0	12,083	4,582	0	230.47	230.58	138,852	12,083	4,582	16,665	2	
2002	6	10	27,567		540,289	429.7	21	3	0	31,378	30	81	31,378	1	4		199	195	199	0.89	0.90		52,271	138,708	0	10,977	4,161	0	230.47	230.58	138,708	10,977	4,161	15,138	2	
2002	6	10	27,567		536,485	429.5	21	3	0	31,371	30	80	31,371	1	4		198	195	199	0.89	0.90		52,202	138,425	0	10,962	4,153	0	230.47	230.58	138,425	10,962	4,153	15,115	2	
2002	6	10	27,567		532,688	429.3	21	3	0	31,365	30	80	31,365	1	4		198	194	199	0.89	0.90		52,132	138,142	0	10,948	4,144	0	230.47	230.58	138,142	10,948	4,144	15,092	2	
2002	7	10	12,355		513,698	428.6	21	3	0	31,345	30	80	31,345	1	4		198	194	198	0.89	0.90		51,924	137,296	0	10,904	4,119	0	230.47	230.58	137,296	10,904	4,119	15,023	2	
2002	7	10	12,355		494,742	427.5	21	3	0	31,311	30	80	31,311	1	4		196	193	197	0.89	0.90		51,577	135,893	0	10,831	4,077	0	230.47	230.58	135,893	10,831	4,077	14,908	2	
2002	7	11	13,591		473,929	426.4	21	3	0	34,404	30	80	34,404	1	4		195	192	196	0.89	0.90		51,214	134,429	0	11,830	4,436	0	230.47	230.58	134,429	11,830	4,436	16,267	2	
2002	8	10	25,849		473,858	425.8	24	0	0	25,920	30		25,920	1			195	195	195	0.89			51,024	0	0	12,246	0	0	230.47		51,024	12,246	0	12,246	3	
2002	8	10	25,849		473,787	425.8	24	0	0	25,920	30		25,920	1			195	195	195	0.89			51,023	0	0	12,245	0	0	230.47		51,023	12,245	0	12,245	3	
2002	8	11	28,434		473,709	425.8	24	0	0	28,512	30		28,512	1			195	195	195	0.89			51,021	0	0	13,470	0	0	230.47		51,021	13,470	0	13,470	3	
2002	9	10	30,843		478,632	425.9	24	0	0	25,920	30		25,920	1			195	196	196	0.89			51,065	0	0	12,256	0	0	230.47		51,065	12,256	0	12,256	3	
2002	9	10	30,843		483,554	426.2	24	0	0	25,920	30		25,920	1			195	196	196	0.89			51,155	0	0	12,277	0	0	230.47		51,155	12,277	0	12,277	3	
2002	9	10	30,843		488,477	426.5	24	0	0	25,920	30		25,920	1			195	196	196	0.89			51,245	0	0	12,299	0	0	230.47		51,245	12,299	0	12,299	3	
2002	10	10	29,633	1,629	490,561	426.7	24	0	0	25,920	30		25,920	1			196	196	196	0.89			51,309	0	0	12,314	0	0	230.47		51,309	12,314	0	12,314	3	
2002	10	10	29,633	1,629	492,645	426.8	24	0	0	25,920	30		25,920	1			196	196	196	0.89			51,347	0	0	12,323	0	0	230.47		51,347	12,323	0	12,323	3	
2002	10	11	32,596	1,792	494,937	426.9	24	0	0	28,512	30		28,512	1			196	197	197	0.89			51,387	0	0	13,566	0	0	230.47		51,387	13,566	0	13,566	3	
2002	11	10	61,551		530,568	428.0	24	0	0	25,920	30		25,920	1			197	198	198	0.89			51,733	0	0	12,416	0	0	230.47		51,733	12,416	0	12,416	3	
2002	11	10	61,551		566,198	430.1	24	0	0	25,920	30		25,920	1			199	200	200	0.89			52,378	0	0	12,571	0	0	230.47		52,378	12,571	0	12,571	3	
2002	11	10	61,551		601,829	431.7	24	0	0	25,920	30		25,920	1			201	201	201	0.90			52,891	0	0	12,694	0	0	230.47		52,891	12,694	0	12,694	3	
2002	12	10	46,131		616,488	432.9	21	3	0	31,471	30	81	31,471	1	4		202	198	202	0.90	0.90		53,253	142,713	0	11,183	4,281	0	230.47	230.59	142,713	11,183	4,281	15,465	2	
2002	12	10	46,131		631,128	433.5	21	3	0	31,492	30	82	31,492	1	4		202	198	203	0.90	0.90		53,465	143,580	0	11,228	4,307	0	230.47	230.59	143,580	11,228	4,307	15,535	2	
2002	12	11	50,744		647,208	434.2	21	3	0	34,664	30	82	34,664	1	5		203	199	204	0.90	0.90		53,687	144,492	0	12,402	4,768	0	230.47	230.59	144,492	12,402	4,768	17,170	2	

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (19/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillout or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary							
							t1 base (hours)	t2 peak (hours)		Victoria O for Hydro (1000 m <sup>3</sup> /s)	O for existing base (m <sup>3</sup> /s)	O for existing peak (m <sup>3</sup> /s)	O for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
2003	1	10	42,961		658,638	434.8	21	3	0	31,531	30	82	31,531	1	5		204	200	204	0.90	0.90		53,886	145,310	0	11,316	4,359	0	230.47	230.59	145,310	11,316	4,359	15,675	2				
2003	1	10	42,961		665,635	435.3	21	3	0	35,964	30	123	35,964	1	11		204	193	205	0.90	0.91		53,999	211,293	0	11,340	6,339	0	230.47	230.68	211,293	11,340	6,339	17,678	1				
2003	1	11	47,257		673,332	435.6	21	3	0	39,560	30	123	39,560	1	11		205	194	205	0.90	0.91		54,079	211,825	0	12,492	6,990	0	230.47	230.68	211,825	12,492	6,990	19,483	1				
2003	2	10	23,124		660,492	435.5	21	3	0	35,964	30	123	35,964	1	11		204	194	205	0.90	0.91		54,051	211,640	0	11,351	6,349	0	230.47	230.68	211,640	11,351	6,349	17,700	1				
2003	2	10	23,124		647,657	434.9	21	3	0	35,960	30	123	35,960	1	11		204	193	204	0.90	0.90		53,903	210,650	0	11,320	6,320	0	230.47	230.68	210,650	11,320	6,320	17,639	1				
2003	2	8	18,499		637,407	434.4	21	3	0	28,749	30	123	28,749	1	10		203	194	204	0.90	0.90		53,735	210,775	0	9,028	5,059	0	230.47	230.68	210,775	9,028	5,059	14,086	1				
2003	3	10	37,129		643,023	434.3	21	3	0	31,514	30	82	31,514	1	5		203	199	204	0.90	0.90		53,702	144,554	0	11,277	4,337	0	230.47	230.59	144,554	11,277	4,337	15,614	2				
2003	3	10	37,129		644,214	434.4	21	3	0	35,938	30	123	35,938	1	10		203	194	204	0.90	0.90		53,751	210,868	0	11,288	6,326	0	230.47	230.68	210,868	11,288	6,326	17,614	1				
2003	3	11	40,842		645,522	434.5	21	3	0	39,535	30	123	39,535	1	10		203	194	204	0.90	0.90		53,769	210,976	0	12,421	6,962	0	230.47	230.68	210,976	12,421	6,962	19,383	1				
2003	4	10	38,232		647,809	434.6	21	3	0	35,944	30	123	35,944	1	10		203	194	204	0.90	0.90		53,795	211,131	0	11,297	6,334	0	230.47	230.68	211,131	11,297	6,334	17,631	1				
2003	4	10	38,232		650,092	434.7	21	3	0	35,949	30	123	35,949	1	10		204	194	204	0.90	0.90		53,828	211,328	0	11,304	6,340	0	230.47	230.68	211,328	11,304	6,340	17,644	1				
2003	4	10	38,232		652,369	434.8	21	3	0	35,954	30	123	35,954	1	10		204	194	204	0.90	0.90		53,861	211,524	0	11,311	6,346	0	230.47	230.68	211,524	11,311	6,346	17,657	1				
2003	5	10	40,726		657,134	434.9	21	3	0	35,961	30	123	35,961	1	11		204	193	204	0.90	0.90		53,912	210,715	0	11,322	6,321	0	230.47	230.68	210,715	11,322	6,321	17,643	1				
2003	5	10	40,726		661,896	435.2	21	3	0	35,964	30	123	35,964	1	11		204	193	204	0.90	0.91		53,970	211,101	0	11,334	6,333	0	230.47	230.68	211,101	11,334	6,333	17,667	1				
2003	5	11	44,799		667,135	435.4	21	3	0	39,560	30	123	39,560	1	11		204	194	205	0.90	0.91		54,025	211,466	0	12,480	6,978	0	230.47	230.68	211,466	12,480	6,978	19,458	1				
2003	6	10	7,742		638,919	434.9	21	3	0	35,957	30	123	35,957	1	11		204	193	204	0.90	0.90		53,887	210,549	0	11,316	6,316	0	230.47	230.68	210,549	11,316	6,316	17,633	1				
2003	6	10	7,742		610,761	433.6	21	3	0	35,899	30	122	35,899	1	10		202	193	203	0.90	0.90		53,480	209,254	0	11,231	6,278	0	230.47	230.68	209,254	11,231	6,278	17,508	1				
2003	6	10	7,742		587,045	432.4	21	3	0	31,457	30	81	31,457	1	4		201	197	202	0.90	0.90		53,105	142,107	0	11,152	4,263	0	230.47	230.59	142,107	11,152	4,263	15,415	2				
2003	7	10	19,969		575,581	431.6	21	3	0	31,433	30	81	31,433	1	4		201	197	201	0.90	0.90		52,852	141,069	0	11,099	4,232	0	230.47	230.59	141,069	11,099	4,232	15,331	2				
2003	7	10	19,969		564,132	431.1	21	3	0	31,418	30	81	31,418	1	4		200	196	200	0.90	0.90		52,687	140,396	0	11,064	4,212	0	230.47	230.58	140,396	11,064	4,212	15,276	2				
2003	7	11	21,966		551,557	430.5	21	3	0	34,541	30	81	34,541	1	4		199	196	200	0.89	0.90		52,514	139,694	0	12,131	4,610	0	230.47	230.58	139,694	12,131	4,610	16,741	2				
2003	8	10	38,715		558,874	430.4	21	3	0	31,397	30	81	31,397	1	4		199	195	200	0.89	0.90		52,476	139,538	0	11,020	4,186	0	230.47	230.58	139,538	11,020	4,186	15,206	2				
2003	8	10	38,715		566,181	430.7	21	3	0	31,407	30	81	31,407	1	4		200	196	200	0.89	0.90		52,581	139,966	0	11,042	4,199	0	230.47	230.58	139,966	11,042	4,199	15,241	2				
2003	8	11	42,586		574,208	431.1	21	3	0	34,560	30	81	34,560	1	4		200	196	200	0.90	0.90		52,692	140,418	0	12,172	4,634	0	230.47	230.58	140,418	12,172	4,634	16,806	2				
2003	9	10	36,456		579,237	431.4	21	3	0	31,427	30	81	31,427	1	4		200	196	201	0.90	0.90		52,785	140,799	0	11,085	4,224	0	230.47	230.59	140,799	11,085	4,224	15,309	2				
2003	9	10	36,456		584,260	431.6	21	3	0	31,434	30	81	31,434	1	4		201	197	201	0.90	0.90		52,858	141,094	0	11,100	4,233	0	230.47	230.59	141,094	11,100	4,233	15,333	2				
2003	9	10	36,456		589,276	431.8	21	3	0	31,441	30	81	31,441	1	4		201	197	201	0.90	0.90		52,930	141,390	0	11,115	4,242	0	230.47	230.59	141,390	11,115	4,242	15,357	2				
2003	10	10	11,857	1,629	568,074	431.5	21	3	0	31,430	30	81	31,430	1	4		200	196	201	0.90	0.90		52,814	140,914	0	11,091	4,227	0	230.47	230.59	140,914	11,091	4,227	15,318	2				
2003	10	10	11,857		552,382	430.6	24	0	0	25,920	30		25,920	1			200	200	200	0.89			52,548	0	0	12,612	0	0	230.47		52,548	12,612	0	12,612	3				
2003	10	11	13,043	1,792	535,121	429.8	24	0	0	28,512	30		28,512	1			199	199	199	0.89			52,300	0	0	13,807	0	0	230.47		52,300	13,807	0	13,807	3				
2003	11	10	13,918		523,120	429.0	24	0	0	25,920	30		25,920	1			198	199	199	0.89			52,032	0	0	12,488	0	0	230.47		52,032	12,488	0	12,488	3				
2003	11	10	13,918		511,118	428.3	24	0	0	25,920	30		25,920	1			197	198	198	0.89			51,813	0	0	12,435	0	0	230.47		51,813	12,435	0	12,435	3				
2003	11	10	13,918		499,116	427.6	24	0	0	25,920	30		25,920	1			197	197	197	0.89			51,593	0	0	12,382	0	0	230.47		51,593	12,382	0	12,382	3				
2003	12	10	6,448		479,644	426.7	24	0	0	25,920	30		25,920	1			196	196	196	0.89			51,306	0	0	12,313	0	0	230.47		51,306	12,313	0	12,313	3				
2003	12	10	6,448		460,172	425.5	24	0	0	25,920	30		25,920	1			194	195	195	0.89			50,951	0	0	12,228	0	0	230.47		50,951	12,228	0	12,228	3				
2003	12	11	7,093		438,753	424.3	24	0	0	28,512	30		28,512	1			193	194	194	0.89			50,580	0	0	13,353	0	0	230.47		50,580	13,353	0	13,353	3				

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (20/22)**

Year	Month	Days	Poggalla Release + Residual Basin (1000 m <sup>3</sup> )	Spillout or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
2004	1	10	8,207		421,040	423.2	24	0	0	25,920	30		25,920	1			192	193	193	0.89				50,225	0	0	12,054	0	0	230.47		50,225	12,054	0	12,054	3
2004	1	10	8,207		403,327	422.2	24	0	0	25,920	30		25,920	1			191	192	192	0.89				49,904	0	0	11,977	0	0	230.47		49,904	11,977	0	11,977	3
2004	1	11	9,027		383,842	421.1	24	0	0	28,512	30		28,512	1			190	191	191	0.89				49,568	0	0	13,086	0	0	230.47		49,568	13,086	0	13,086	3
2004	2	10	5,822		363,744	419.9	24	0	0	25,920	30		25,920	1			189	190	190	0.89				49,204	0	0	11,809	0	0	230.47		49,204	11,809	0	11,809	3
2004	2	10	5,822		343,647	418.3	24	0	0	25,920	30		25,920	1			187	188	188	0.88				48,712	0	0	11,691	0	0	230.47		48,712	11,691	0	11,691	3
2004	2	9	5,240		325,559	416.8	24	0	0	23,328	30		23,328	1			186	186	186	0.88				48,247	0	0	10,421	0	0	230.47		48,247	10,421	0	10,421	3
2004	3	10	7,188		306,827	415.4	24	0	0	25,920	30		25,920	1			184	185	185	0.88				47,799	0	0	11,472	0	0	230.47		47,799	11,472	0	11,472	3
2004	3	10	7,188		288,095	413.9	24	0	0	25,920	30		25,920	1			183	183	183	0.88				47,344	0	0	11,363	0	0	230.47		47,344	11,363	0	11,363	3
2004	3	11	7,907		267,490	412.3	24	0	0	28,512	30		28,512	1			181	182	182	0.88				46,868	0	0	12,373	0	0	230.47		46,868	12,373	0	12,373	3
2004	4	10	22,315		263,886	411.4	24	0	0	25,920	30		25,920	1			180	181	181	0.88				46,576	0	0	11,178	0	0	230.47		46,576	11,178	0	11,178	3
2004	4	10	22,315		260,281	411.1	24	0	0	25,920	30		25,920	1			180	181	181	0.88				46,489	0	0	11,157	0	0	230.47		46,489	11,157	0	11,157	3
2004	4	10	22,315		256,677	410.8	24	0	0	25,920	30		25,920	1			180	180	180	0.88				46,402	0	0	11,137	0	0	230.47		46,402	11,137	0	11,137	3
2004	5	10	28,755		259,512	410.8	24	0	0	25,920	30		25,920	1			180	180	180	0.88				46,393	0	0	11,134	0	0	230.47		46,393	11,134	0	11,134	3
2004	5	10	28,755		262,347	411.0	24	0	0	25,920	30		25,920	1			180	181	181	0.88				46,461	0	0	11,151	0	0	230.47		46,461	11,151	0	11,151	3
2004	5	11	31,631		265,465	411.2	24	0	0	28,512	30		28,512	1			180	181	181	0.88				46,533	0	0	12,285	0	0	230.47		46,533	12,285	0	12,285	3
2004	6	10	44,331		283,876	412.1	24	0	0	25,920	30		25,920	1			181	182	182	0.88				46,793	0	0	11,230	0	0	230.47		46,793	11,230	0	11,230	3
2004	6	10	44,331		302,288	413.5	24	0	0	25,920	30		25,920	1			182	183	183	0.88				47,238	0	0	11,337	0	0	230.47		47,238	11,337	0	11,337	3
2004	6	10	44,331		320,699	415.0	24	0	0	25,920	30		25,920	1			184	185	185	0.88				47,685	0	0	11,444	0	0	230.47		47,685	11,444	0	11,444	3
2004	7	10	41,971		336,750	416.4	24	0	0	25,920	30		25,920	1			185	186	186	0.88				48,104	0	0	11,545	0	0	230.47		48,104	11,545	0	11,545	3
2004	7	10	41,971		352,802	417.6	24	0	0	25,920	30		25,920	1			187	187	187	0.88				48,495	0	0	11,639	0	0	230.47		48,495	11,639	0	11,639	3
2004	7	11	46,168		370,458	419.0	24	0	0	28,512	30		28,512	1			188	189	189	0.88				48,906	0	0	12,911	0	0	230.47		48,906	12,911	0	12,911	3
2004	8	10	30,177		374,715	419.8	24	0	0	25,920	30		25,920	1			189	189	189	0.89				49,174	0	0	11,802	0	0	230.47		49,174	11,802	0	11,802	3
2004	8	10	30,177		378,971	420.1	24	0	0	25,920	30		25,920	1			189	190	190	0.89				49,265	0	0	11,824	0	0	230.47		49,265	11,824	0	11,824	3
2004	8	11	33,194		383,654	420.4	24	0	0	28,512	30		28,512	1			189	190	190	0.89				49,346	0	0	13,027	0	0	230.47		49,346	13,027	0	13,027	3
2004	9	10	34,463		392,197	420.8	24	0	0	25,920	30		25,920	1			190	190	190	0.89				49,465	0	0	11,872	0	0	230.47		49,465	11,872	0	11,872	3
2004	9	10	34,463		400,740	421.3	24	0	0	25,920	30		25,920	1			190	191	191	0.89				49,620	0	0	11,909	0	0	230.47		49,620	11,909	0	11,909	3
2004	9	10	34,463		409,283	421.8	24	0	0	25,920	30		25,920	1			191	191	191	0.89				49,774	0	0	11,946	0	0	230.47		49,774	11,946	0	11,946	3
2004	10	10	51,375	1,629	433,109	422.7	24	0	0	25,920	30		25,920	1			192	192	192	0.89				50,067	0	0	12,016	0	0	230.47		50,067	12,016	0	12,016	3
2004	10	10	51,375	1,629	456,934	424.1	24	0	0	25,920	30		25,920	1			193	194	194	0.89				50,499	0	0	12,120	0	0	230.47		50,499	12,120	0	12,120	3
2004	10	11	56,512	1,792	483,142	425.5	24	0	0	28,512	30		28,512	1			194	195	195	0.89				50,954	0	0	13,452	0	0	230.47		50,954	13,452	0	13,452	3
2004	11	10	50,400		507,622	427.0	24	0	0	25,920	30		25,920	1			196	197	197	0.89				51,416	0	0	12,340	0	0	230.47		51,416	12,340	0	12,340	3
2004	11	10	50,400		532,102	428.4	24	0	0	25,920	30		25,920	1			197	198	198	0.89				51,863	0	0	12,447	0	0	230.47		51,863	12,447	0	12,447	3
2004	11	10	50,400		556,582	429.9	24	0	0	25,920	30		25,920	1			199	199	199	0.89				52,311	0	0	12,555	0	0	230.47		52,311	12,555	0	12,555	3
2004	12	10	74,094		604,756	431.6	24	0	0	25,920	30		25,920	1			200	201	201	0.90				52,842	0	0	12,682	0	0	230.47		52,842	12,682	0	12,682	3
2004	12	10	74,094		647,355	433.6	21	3	0	31,495	30	82	31,495	1	5		203	199	203	0.90	0.90			53,497	143,713	0	11,234	4,311	0	230.47	230.59	143,713	11,234	4,311	15,546	2
2004	12	11	81,503		689,297	435.6	21	3	0	39,560	30	123	39,560	1	11		204	194	205	0.90	0.91			54,067	211,742	0	12,489	6,987	0	230.47	230.68	211,742	12,489	6,987	19,477	1

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (21/22)**

Year	Month	Days	Poggolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillout or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria O for Hydro (1000 m <sup>3</sup> /s)	O for existing base (m <sup>3</sup> /s)	O for existing peak (m <sup>3</sup> /s)	O for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
2005	1	10	24,488		677,821	436.2	21	3	0	35,964	30	123	35,964	1	11		205	195	206	0.90	0.91		54,234	212,813	0	11,389	6,384	0	230.47	230.68	212,813	11,389	6,384	17,773	1	
2005	1	10	24,488		666,344	435.7	21	3	0	35,964	30	123	35,964	1	11		205	194	205	0.90	0.91		54,108	212,010	0	11,363	6,360	0	230.47	230.68	212,010	11,363	6,360	17,723	1	
2005	1	11	26,936		653,720	435.2	21	3	0	39,560	30	123	39,560	1	11		204	193	204	0.90	0.91		53,975	211,139	0	12,468	6,968	0	230.47	230.68	211,139	12,468	6,968	19,436	1	
2005	2	10	24,414		642,187	434.6	21	3	0	35,947	30	123	35,947	1	10		204	194	204	0.90	0.90		53,814	211,242	0	11,301	6,337	0	230.47	230.68	211,242	11,301	6,337	17,638	1	
2005	2	10	24,414		635,089	434.2	21	3	0	31,512	30	82	31,512	1	5		203	199	204	0.90	0.90		53,679	144,460	0	11,273	4,334	0	230.47	230.59	144,460	11,273	4,334	15,606	2	
2005	2	8	19,531		629,417	433.9	21	3	0	25,202	30	82	25,202	1	5		203	199	203	0.90	0.90		53,587	144,079	0	9,003	3,458	0	230.47	230.59	144,079	9,003	3,458	12,460	2	
2005	3	10	9,878		607,811	433.3	21	3	0	31,484	30	82	31,484	1	4		202	198	203	0.90	0.90		53,390	143,272	0	11,212	4,298	0	230.47	230.59	143,272	11,212	4,298	15,510	2	
2005	3	10	9,878		586,233	432.3	21	3	0	31,455	30	81	31,455	1	4		201	197	202	0.90	0.90		53,078	141,996	0	11,146	4,260	0	230.47	230.59	141,996	11,146	4,260	15,406	2	
2005	3	11	10,865		562,532	431.3	21	3	0	34,566	30	81	34,566	1	4		200	196	201	0.90	0.90		52,752	140,664	0	12,186	4,642	0	230.47	230.59	140,664	12,186	4,642	16,828	2	
2005	4	10	12,649		543,787	430.3	21	3	0	31,395	30	81	31,395	1	4		199	195	200	0.89	0.90		52,447	139,417	0	11,014	4,183	0	230.47	230.58	139,417	11,014	4,183	15,196	2	
2005	4	10	12,649		525,072	429.3	21	3	0	31,364	30	80	31,364	1	4		198	194	199	0.89	0.90		52,129	138,130	0	10,947	4,144	0	230.47	230.58	138,130	10,947	4,144	15,091	2	
2005	4	10	12,649		506,389	428.2	21	3	0	31,332	30	80	31,332	1	4		197	193	198	0.89	0.90		51,787	136,743	0	10,875	4,102	0	230.47	230.58	136,743	10,875	4,102	14,978	2	
2005	5	10	13,263		488,353	427.1	21	3	0	31,299	30	80	31,299	1	4		196	192	197	0.89	0.90		51,452	135,387	0	10,805	4,062	0	230.47	230.58	135,387	10,805	4,062	14,867	2	
2005	5	10	13,263		470,348	426.1	21	3	0	31,268	30	80	31,268	1	4		195	191	196	0.89	0.90		51,123	134,063	0	10,736	4,022	0	230.47	230.58	134,063	10,736	4,022	14,758	2	
2005	5	11	14,589		456,425	425.2	24	0	0	28,512	30		28,512	1			194	195	195	0.89			50,833	0	0	13,420	0	0	230.47		50,833	13,420	0	13,420	3	
2005	6	10	13,110		438,323	424.2	21	3	0	31,212	30	79	31,212	1	4		193	189	194	0.89	0.90		50,542	131,727	0	10,614	3,952	0	230.47	230.58	131,727	10,614	3,952	14,566	2	
2005	6	10	13,110		420,252	423.2	21	3	0	31,180	30	79	31,180	1	4		192	188	193	0.89	0.90		50,214	130,414	0	10,545	3,912	0	230.47	230.58	130,414	10,545	3,912	14,457	2	
2005	6	10	13,110		407,442	422.3	24	0	0	25,920	30		25,920	1			191	192	192	0.89			49,934	0	0	11,984	0	0	230.47		49,934	11,984	0	11,984	3	
2005	7	10	15,966		397,489	421.6	24	0	0	25,920	30		25,920	1			191	191	191	0.89			49,728	0	0	11,935	0	0	230.47		49,728	11,935	0	11,935	3	
2005	7	10	15,966		387,535	421.0	24	0	0	25,920	30		25,920	1			190	191	191	0.89			49,548	0	0	11,892	0	0	230.47		49,548	11,892	0	11,892	3	
2005	7	11	17,563		376,586	420.4	24	0	0	28,512	30		28,512	1			189	190	190	0.89			49,360	0	0	13,031	0	0	230.47		49,360	13,031	0	13,031	3	
2005	8	10	11,197		361,863	419.6	24	0	0	25,920	30		25,920	1			188	189	189	0.89			49,092	0	0	11,782	0	0	230.47		49,092	11,782	0	11,782	3	
2005	8	10	11,197		347,141	418.4	24	0	0	25,920	30		25,920	1			187	188	188	0.88			48,732	0	0	11,696	0	0	230.47		48,732	11,696	0	11,696	3	
2005	8	11	12,317		330,946	417.2	24	0	0	28,512	30		28,512	1			186	187	187	0.88			48,355	0	0	12,766	0	0	230.47		48,355	12,766	0	12,766	3	
2005	9	10	53,809		358,835	417.6	24	0	0	25,920	30		25,920	1			187	187	187	0.88			48,498	0	0	11,639	0	0	230.47		48,498	11,639	0	11,639	3	
2005	9	10	53,809		386,725	419.8	24	0	0	25,920	30		25,920	1			189	189	189	0.89			49,179	0	0	11,803	0	0	230.47		49,179	11,803	0	11,803	3	
2005	9	10	53,809		414,614	421.5	24	0	0	25,920	30		25,920	1			190	191	191	0.89			49,696	0	0	11,927	0	0	230.47		49,696	11,927	0	11,927	3	
2005	10	10	39,311	1,629	426,376	422.7	24	0	0	25,920	30		25,920	1			192	192	192	0.89			50,054	0	0	12,013	0	0	230.47		50,054	12,013	0	12,013	3	
2005	10	10	39,311	1,629	438,138	423.3	24	0	0	25,920	30		25,920	1			192	193	193	0.89			50,267	0	0	12,064	0	0	230.47		50,267	12,064	0	12,064	3	
2005	10	11	43,242	1,792	451,076	424.1	24	0	0	28,512	30		28,512	1			193	194	194	0.89			50,492	0	0	13,330	0	0	230.47		50,492	13,330	0	13,330	3	
2005	11	10	98,866		524,022	426.6	24	0	0	25,920	30		25,920	1			195	196	196	0.89			51,273	0	0	12,305	0	0	230.47		51,273	12,305	0	12,305	3	
2005	11	10	98,866		596,968	430.6	24	0	0	25,920	30		25,920	1			200	200	200	0.89			52,552	0	0	12,612	0	0	230.47		52,552	12,612	0	12,612	3	
2005	11	10	98,866		664,333	433.8	21	3	0	31,501	30	82	31,501	1	5		203	199	203	0.90	0.90		53,564	143,986	0	11,248	4,320	0	230.47	230.59	143,986	11,248	4,320	15,568	2	
2005	12	10	51,801		680,170	435.7	21	3	0	35,964	30	123	35,964	1	11		205	194	205	0.90	0.91		54,110	212,022	0	11,363	6,361	0	230.47	230.68	212,022	11,363	6,361	17,724	1	
2005	12	10	51,801		696,007	436.5	21	3	0	35,964	30	123	35,964	1	11		205	195	206	0.90	0.91		54,283	213,122	0	11,400	6,394	0	230.47	230.68	213,122	11,400	6,394	17,793	1	
2005	12	11	56,981		713,428	437.2	21	3	0	39,560	30	123	39,560	1	11		206	196	207	0.90	0.91		54,466	214,222	0	12,582	7,069	0	230.47	230.68	214,222	12,582	7,069	19,651	1	

**Table 3-1 Calculation of Annual Energy without Expansion Plant in Case Used as Base Demand Power Source (22/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillout or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
2006	1	10	53,941		674,488	436.7	4	20	0	92,880	30	123	92,880	1	11		206	195	206	0.90	0.91		54,348	213,517	0	2,174	42,703	0	230.47	230.68	213,517	2,174	6,406	44,877	1	
2006	1	10	53,941		692,465	436.2	21	3	0	35,964	30	123	35,964	1	11		205	195	206	0.90	0.91		54,233	212,807	0	11,389	6,384	0	230.47	230.68	212,807	11,389	6,384	17,773	1	
2006	1	11	59,335		712,239	437.1	21	3	0	39,560	30	123	39,560	1	11		206	195	206	0.90	0.91		54,440	214,069	0	12,576	7,064	0	230.47	230.68	214,069	12,576	7,064	19,640	1	
2006	2	10	27,967		704,242	437.4	21	3	0	35,964	30	123	35,964	1	11		206	196	207	0.90	0.91		54,504	214,448	0	11,446	6,433	0	230.47	230.68	214,448	11,446	6,433	17,879	1	
2006	2	10	27,967		696,245	437.0	21	3	0	35,964	30	123	35,964	1	11		206	195	206	0.90	0.91		54,417	213,932	0	11,428	6,418	0	230.47	230.68	213,932	11,428	6,418	17,845	1	
2006	2	8	22,374		689,847	436.7	21	3	0	28,771	30	123	28,771	1	11		206	195	206	0.90	0.91		54,338	213,456	0	9,129	5,123	0	230.47	230.68	213,456	9,129	5,123	14,252	1	
2006	3	10	38,004		691,887	436.6	21	3	0	35,964	30	123	35,964	1	11		206	195	206	0.90	0.91		54,314	213,310	0	11,406	6,399	0	230.47	230.68	213,310	11,406	6,399	17,805	1	
2006	3	10	38,004		693,927	436.7	21	3	0	35,964	30	123	35,964	1	11		206	195	206	0.90	0.91		54,336	213,447	0	11,411	6,403	0	230.47	230.68	213,447	11,411	6,403	17,814	1	
2006	3	11	41,804		696,170	436.8	21	3	0	39,560	30	123	39,560	1	11		206	195	206	0.90	0.91		54,360	213,590	0	12,557	7,048	0	230.47	230.68	213,590	12,557	7,048	19,606	1	
2006	4	10	30,471		690,677	436.7	21	3	0	35,964	30	123	35,964	1	11		206	195	206	0.90	0.91		54,342	213,481	0	11,412	6,404	0	230.47	230.68	213,481	11,412	6,404	17,816	1	
2006	4	10	30,471		685,184	436.4	21	3	0	35,964	30	123	35,964	1	11		205	195	206	0.90	0.91		54,282	213,112	0	11,399	6,393	0	230.47	230.68	213,112	11,399	6,393	17,793	1	
2006	4	10	30,471		679,691	436.2	21	3	0	35,964	30	123	35,964	1	11		205	194	206	0.90	0.91		54,221	212,736	0	11,387	6,382	0	230.47	230.68	212,736	11,387	6,382	17,769	1	
2006	5	10	27,832		671,559	435.9	21	3	0	35,964	30	123	35,964	1	11		205	194	205	0.90	0.91		54,147	212,261	0	11,371	6,368	0	230.47	230.68	212,261	11,371	6,368	17,739	1	
2006	5	10	27,832		663,427	435.5	21	3	0	35,964	30	123	35,964	1	11		204	194	205	0.90	0.91		54,057	211,682	0	11,352	6,350	0	230.47	230.68	211,682	11,352	6,350	17,703	1	
2006	5	11	30,615		654,482	435.1	21	3	0	39,560	30	123	39,560	1	11		204	193	204	0.90	0.91		53,964	211,059	0	12,466	6,965	0	230.47	230.68	211,059	12,466	6,965	19,431	1	
2006	6	10	33,007		651,532	434.9	21	3	0	35,957	30	123	35,957	1	11		204	193	204	0.90	0.90		53,887	210,547	0	11,316	6,316	0	230.47	230.68	210,547	11,316	6,316	17,633	1	
2006	6	10	33,007		648,587	434.7	21	3	0	35,951	30	123	35,951	1	10		204	194	204	0.90	0.90		53,844	211,423	0	11,307	6,343	0	230.47	230.68	211,423	11,307	6,343	17,650	1	
2006	6	10	33,007		645,649	434.6	21	3	0	35,945	30	123	35,945	1	10		204	194	204	0.90	0.90		53,802	211,170	0	11,298	6,335	0	230.47	230.68	211,170	11,298	6,335	17,633	1	
2006	7	10	45,011		654,708	434.7	21	3	0	35,952	30	123	35,952	1	10		204	194	204	0.90	0.90		53,846	211,433	0	11,308	6,343	0	230.47	230.68	211,433	11,308	6,343	17,651	1	
2006	7	10	45,011		663,755	435.1	21	3	0	35,964	30	123	35,964	1	11		204	193	204	0.90	0.91		53,967	211,080	0	11,333	6,332	0	230.47	230.68	211,080	11,333	6,332	17,665	1	
2006	7	11	49,512		673,707	435.6	21	3	0	39,560	30	123	39,560	1	11		204	194	205	0.90	0.91		54,071	211,771	0	12,490	6,988	0	230.47	230.68	211,771	12,490	6,988	19,479	1	
2006	8	10	17,651		655,394	435.4	21	3	0	35,964	30	123	35,964	1	11		204	194	205	0.90	0.91		54,025	211,469	0	11,345	6,344	0	230.47	230.68	211,469	11,345	6,344	17,689	1	
2006	8	10	17,651		637,102	434.5	21	3	0	35,943	30	123	35,943	1	10		203	194	204	0.90	0.90		53,789	211,095	0	11,296	6,333	0	230.47	230.68	211,095	11,296	6,333	17,629	1	
2006	8	11	19,416		617,024	433.7	21	3	0	39,494	30	122	39,494	1	10		203	193	203	0.90	0.90		53,512	209,445	0	12,361	6,912	0	230.47	230.68	209,445	12,361	6,912	19,273	1	
2006	9	10	29,238		614,782	433.2	21	3	0	31,481	30	81	31,481	1	4		202	198	203	0.90	0.90		53,350	143,112	0	11,204	4,293	0	230.47	230.59	143,112	11,204	4,293	15,497	2	
2006	9	10	29,238		612,542	433.1	21	3	0	31,478	30	81	31,478	1	4		202	198	202	0.90	0.90		53,318	142,979	0	11,197	4,289	0	230.47	230.59	142,979	11,197	4,289	15,486	2	
2006	9	10	29,238		610,306	433.0	21	3	0	31,475	30	81	31,475	1	4		202	198	202	0.90	0.90		53,286	142,847	0	11,190	4,285	0	230.47	230.59	142,847	11,190	4,285	15,475	2	
2006	10	10	52,291	1,629	629,482	433.3	21	3	0	31,486	30	82	31,486	1	4		202	198	203	0.90	0.90		53,408	143,348	0	11,216	4,300	0	230.47	230.59	143,348	11,216	4,300	15,516	2	
2006	10	10	52,291	1,629	648,631	434.2	21	3	0	31,512	30	82	31,512	1	5		203	199	204	0.90	0.90		53,685	144,485	0	11,274	4,335	0	230.47	230.59	144,485	11,274	4,335	15,608	2	
2006	10	11	57,520	1,792	669,670	435.1	21	3	0	34,690	30	82	34,690	1	5		204	200	205	0.90	0.91		53,966	145,527	0	12,466	4,802	0	230.47	230.59	145,527	12,466	4,802	17,268	2	
2006	11	10	211,050		722,000	436.8	0	24	52,448	106,272	30	123	158,720	1	11		206	195	206	0.90	0.91		54,368	213,642	0	0	51,274	0	230.47	230.68	213,642	0	6,409	51,274	1	
2006	11	10	211,050		722,000	438.0	0	24	104,778	106,272	30	123	211,050	1	11		207	197	207	0.90	0.91		54,655	215,305	0	0	51,673	0	230.47	230.68	215,305	0	6,459	51,673	0	
2006	11	10	211,050		722,000	438.0	0	24	104,778	106,272	30	123	211,050	1	11		207	197	207	0.90	0.91		54,655	215,305	0	0	51,673	0	230.47	230.68	215,305	0	6,459	51,673	0	
2006	12	10	77,765		693,493	437.3	0	24	0	106,272	30	123	106,272	1	11		206	195	207	0.90	0.91		54,499	214,072	0	0	51,377	0	230.47	230.68	214,072	0	6,422	51,377	0	
2006	12	10	77,765		664,986	436.0	0	24	0	106,272	30	123	106,272	1	11		205	194	205	0.90	0.91		54,186	212,514	0	0	51,003	0	230.47	230.68	212,514	0	6,375	51,003	1	
2006	12	11	85,541		710,966	436.4	21	3	0	39,560	30	123	39,560	1	11		205	195	206	0.90	0.91		54,282	213,115	0	12,539	7,033	0	230.47	230.68	213,115	12,539	7,033	19,572	1	





**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (2/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1986	1	10	127,931		667,848	435.1	14	10	0	109,800	30	123	140	109,800	1	11	16	204	193	188	0.90	0.91	0.91	53,962	210,648	235,493	7,555	21,065	23,549	230.47	231.00	446,141	7,555	13,384	52,169	1
1986	1	10	127,931		644,042	435.0	9	15	0	151,737	30	123	140	151,737	1	11	16	204	193	188	0.90	0.91	0.91	53,930	210,431	235,268	4,854	31,565	35,290	230.47	231.00	445,699	4,854	13,371	71,709	1
1986	1	11	140,724		721,300	436.2	0	24	0	63,466	30		67	63,466	1		4	205	206	202	0.90	0.91	0.91	54,224	0	121,000	0	0	31,944	230.47	230.55	121,000	0	3,993	31,944	2
1986	2	10	53,419		673,308	436.9	15	9	0	101,412	30	123	140	101,412	1	11	16	206	195	190	0.90	0.91	0.91	54,385	213,344	238,412	8,158	19,201	21,457	230.47	231.00	451,757	8,158	13,553	48,816	1
1986	2	10	53,419		675,643	435.8	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,134	211,783	236,711	11,368	6,353	7,101	230.47	231.00	448,493	11,368	13,455	24,823	1
1986	2	8	42,736		677,511	435.9	21	3	0	40,867	30	123	140	40,867	1	11	16	205	194	189	0.90	0.91	0.91	54,157	211,931	236,871	9,098	5,086	5,685	230.47	231.00	448,802	9,098	10,771	19,870	1
1986	3	10	48,599		675,026	435.9	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,154	211,909	236,847	11,372	6,357	7,105	230.47	231.00	448,757	11,372	13,463	24,835	1
1986	3	10	48,599		672,541	435.8	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,126	211,734	236,658	11,367	6,352	7,100	230.47	231.00	448,392	11,367	13,452	24,818	1
1986	3	11	53,459		669,807	435.7	21	3	0	56,192	30	123	140	56,192	1	11	16	205	194	188	0.90	0.91	0.91	54,098	211,548	236,458	12,497	6,981	7,803	230.47	231.00	448,006	12,497	14,784	27,281	1
1986	4	10	69,899		688,621	436.0	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,186	212,116	237,071	11,379	6,363	7,112	230.47	231.00	449,186	11,379	13,476	24,855	1
1986	4	10	69,899		699,048	436.7	20	4	0	59,472	30	123	140	59,472	1	11	16	206	195	190	0.90	0.91	0.91	54,347	213,114	238,159	10,869	8,525	9,526	230.47	231.00	451,273	10,869	13,538	28,920	1
1986	4	10	69,899		684,310	436.6	17	7	0	84,636	30	123	140	84,636	1	11	16	206	195	190	0.90	0.91	0.91	54,323	212,969	238,001	9,235	14,908	16,660	230.47	231.00	450,970	9,235	13,529	40,803	1
1986	5	10	38,007		671,234	436.0	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,170	212,015	236,962	11,376	6,360	7,109	230.47	231.00	448,976	11,376	13,469	24,845	1
1986	5	10	38,007		658,157	435.4	21	3	0	51,084	30	123	140	51,084	1	11	16	204	193	188	0.90	0.91	0.91	54,027	211,081	235,956	11,346	6,332	7,079	230.47	231.00	447,038	11,346	13,411	24,757	1
1986	5	11	41,808		643,785	434.8	21	3	0	56,181	30	123	140	56,181	1	11	16	204	192	187	0.90	0.90	0.91	53,858	209,952	234,872	12,441	6,928	7,751	230.47	231.00	444,824	12,441	14,679	27,120	1
1986	6	10	20,416		613,174	433.7	21	3	0	51,027	30	122	140	51,027	1	10	16	203	193	187	0.90	0.90	0.91	53,532	209,219	234,358	11,242	6,277	7,031	230.47	231.00	443,577	11,242	13,307	24,549	1
1986	6	10	20,416		603,545	432.8	21	3	0	30,044	30		68	30,044	1		4	202	202	199	0.90	0.91	0.91	53,242	0	121,000	11,181	0	3,630	230.47	230.56	121,000	11,181	3,630	14,811	2
1986	6	10	20,416		593,895	432.4	21	3	0	30,066	30		68	30,066	1		4	201	202	198	0.90	0.91	0.91	53,102	0	121,000	11,152	0	3,630	230.47	230.56	121,000	11,152	3,630	14,782	2
1986	7	10	16,558		580,359	431.8	21	3	0	30,093	30		69	30,093	1		4	201	201	198	0.90	0.91	0.91	52,935	0	121,000	11,116	0	3,630	230.47	230.56	121,000	11,116	3,630	14,746	2
1986	7	10	16,558		566,792	431.2	21	3	0	30,125	30		69	30,125	1		4	200	201	197	0.90	0.91	0.91	52,740	0	121,000	11,075	0	3,630	230.47	230.56	121,000	11,075	3,630	14,705	2
1986	7	11	18,213		551,828	430.6	21	3	0	33,177	30		69	33,177	1		4	200	200	196	0.89	0.91	0.91	52,535	0	121,000	12,136	0	3,993	230.47	230.56	121,000	12,136	3,993	16,129	2
1986	8	10	59,256		580,941	430.9	21	3	0	30,143	30		69	30,143	1		4	200	200	197	0.90	0.91	0.91	52,637	0	121,000	11,054	0	3,630	230.47	230.56	121,000	11,054	3,630	14,684	2
1986	8	10	59,256		610,123	432.2	21	3	0	30,073	30		68	30,073	1		4	201	202	198	0.90	0.91	0.91	53,057	0	121,000	11,142	0	3,630	230.47	230.56	121,000	11,142	3,630	14,772	2
1986	8	11	65,181		642,299	433.6	21	3	0	33,006	30		68	33,006	1		4	203	203	199	0.90	0.91	0.91	53,499	0	121,000	12,358	0	3,993	230.47	230.56	121,000	12,358	3,993	16,351	2
1986	9	10	76,545		688,919	435.4	21	3	0	29,925	30		67	29,925	1		4	204	205	201	0.90	0.91	0.91	54,037	0	121,000	11,348	0	3,630	230.47	230.55	121,000	11,348	3,630	14,978	2
1986	9	10	76,545		689,216	436.5	18	6	0	76,248	30	123	140	76,248	1	11	16	205	194	189	0.90	0.91	0.91	54,294	212,793	237,808	9,773	12,768	14,268	230.47	231.00	450,601	9,773	13,518	36,809	1
1986	9	10	76,545		689,513	436.5	18	6	0	76,248	30	123	140	76,248	1	11	16	205	194	189	0.90	0.91	0.91	54,297	212,813	237,830	9,774	12,769	14,270	230.47	231.00	450,643	9,774	13,519	36,812	1
1986	10	10	135,124	1,629	595,998	434.4	0	24	0	227,010	30	123	140	227,010	1	11	16	203	192	187	0.90	0.90	0.91	53,739	209,161	234,207	0	50,199	56,210	230.47	231.00	443,369	0	13,301	106,408	1
1986	10	10	135,124	1,629	699,532	434.6	21	3	0	29,960	30		67	29,960	1		4	204	204	200	0.90	0.91	0.91	53,811	0	121,000	11,300	0	3,630	230.47	230.55	121,000	11,300	3,630	14,930	2
1986	10	11	148,636	1,792	596,569	434.6	0	24	0	249,807	30	123	140	249,807	1	11	16	204	192	187	0.90	0.90	0.91	53,815	209,671	234,637	0	55,353	61,944	230.47	231.00	444,307	0	14,662	117,297	1
1986	11	10	84,377		650,935	433.5	21	3	0	30,010	30		68	30,010	1		4	202	203	199	0.90	0.91	0.91	53,464	0	121,000	11,227	0	3,630	230.47	230.56	121,000	11,227	3,630	14,857	2
1986	11	10	84,377		684,228	435.5	21	3	0	51,084	30	123	140	51,084	1	11	16	204	193	188	0.90	0.91	0.91	54,058	211,290	236,180	11,352	6,339	7,085	230.47	231.00	447,471	11,352	13,424	24,776	1
1986	11	10	84,377		683,969	436.3	17	7	0	84,636	30	123	140	84,636	1	11	16	205	194	189	0.90	0.91	0.91	54,240	212,454	237,438	9,221	14,872	16,621	230.47	231.00	449,892	9,221	13,497	40,713	1
1986	12	10	16,580		649,465	435.5	21	3	0	51,084	30	123	140	51,084	1	11	16	204	193	188	0.90	0.91	0.91	54,049	211,228	236,113	11,350	6,337	7,083	230.47	231.00	447,341	11,350	13,420	24,771	1
1986	12	10	16,580		615,011	433.9	21	3	0	51,035	30	123	140	51,035	1	10	16	203	193	187	0.90															

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (3/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria for Hydro (1000 m <sup>3</sup> )	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1987	1	10	13,904		584.021	432.1	21	3	0	30,081	30	69	30,081	1		4	201	202	198	0.90		0.91	53,007	0	121,000	11,132	0	3,630	230.47	230.56	121,000	11,132	3,630	14,762	2	
1987	1	10	13,904		567.805	431.3	21	3	0	30,120	30	69	30,120	1		4	200	201	197	0.90		0.91	52,774	0	121,000	11,083	0	3,630	230.47	230.56	121,000	11,083	3,630	14,713	2	
1987	1	11	15,294		554.587	430.7	24	0	0	28,512	30		28,512	1			200	200	200	0.89			52,562	0	0	13,876	0	0	230.47		52,562	13,876	0	13,876	3	
1987	2	10	5,969		534.636	429.9	24	0	0	25,920	30		25,920	1			199	199	199	0.89			52,316	0	0	12,556	0	0	230.47		52,316	12,556	0	12,556	3	
1987	2	10	5,969		514.685	428.7	24	0	0	25,920	30		25,920	1			198	198	198	0.89			51,950	0	0	12,468	0	0	230.47		51,950	12,468	0	12,468	3	
1987	2	8	4,775		498.724	427.7	24	0	0	20,736	30		20,736	1			197	197	197	0.89			51,622	0	0	9,911	0	0	230.47		51,622	9,911	0	9,911	3	
1987	3	10	4,466		477.270	426.6	24	0	0	25,920	30		25,920	1			196	196	196	0.89			51,281	0	0	12,307	0	0	230.47		51,281	12,307	0	12,307	3	
1987	3	10	4,466		455.816	425.3	24	0	0	25,920	30		25,920	1			194	195	195	0.89			50,890	0	0	12,214	0	0	230.47		50,890	12,214	0	12,214	3	
1987	3	11	4,913		432.217	424.0	24	0	0	28,512	30		28,512	1			193	194	194	0.89			50,481	0	0	13,327	0	0	230.47		50,481	13,327	0	13,327	3	
1987	4	10	10,969		417.266	422.9	24	0	0	25,920	30		25,920	1			192	193	193	0.89			50,131	0	0	12,031	0	0	230.47		50,131	12,031	0	12,031	3	
1987	4	10	10,969		402.315	422.0	24	0	0	25,920	30		25,920	1			191	192	192	0.89			49,861	0	0	11,967	0	0	230.47		49,861	11,967	0	11,967	3	
1987	4	10	10,969		387.364	421.2	24	0	0	25,920	30		25,920	1			190	191	191	0.89			49,590	0	0	11,902	0	0	230.47		49,590	11,902	0	11,902	3	
1987	5	10	19,094		380.539	420.5	24	0	0	25,920	30		25,920	1			189	190	190	0.89			49,394	0	0	11,854	0	0	230.47		49,394	11,854	0	11,854	3	
1987	5	10	19,094		373.713	420.1	24	0	0	25,920	30		25,920	1			189	190	190	0.89			49,270	0	0	11,825	0	0	230.47		49,270	11,825	0	11,825	3	
1987	5	11	21,004		366.205	419.6	24	0	0	28,512	30		28,512	1			189	189	189	0.89			49,110	0	0	12,965	0	0	230.47		49,110	12,965	0	12,965	3	
1987	6	10	24,935		365.219	419.3	24	0	0	25,920	30		25,920	1			188	189	189	0.88			49,006	0	0	11,761	0	0	230.47		49,006	11,761	0	11,761	3	
1987	6	10	24,935		364.234	419.2	24	0	0	25,920	30		25,920	1			188	189	189	0.88			48,982	0	0	11,756	0	0	230.47		48,982	11,756	0	11,756	3	
1987	6	10	24,935		363.249	419.1	24	0	0	25,920	30		25,920	1			188	189	189	0.88			48,958	0	0	11,750	0	0	230.47		48,958	11,750	0	11,750	3	
1987	7	10	20,636		357.964	418.9	24	0	0	25,920	30		25,920	1			188	188	188	0.88			48,881	0	0	11,732	0	0	230.47		48,881	11,732	0	11,732	3	
1987	7	10	20,636		352.680	418.5	24	0	0	25,920	30		25,920	1			187	188	188	0.88			48,752	0	0	11,701	0	0	230.47		48,752	11,701	0	11,701	3	
1987	7	11	22,699		346.867	418.0	24	0	0	28,512	30		28,512	1			187	188	188	0.88			48,617	0	0	12,835	0	0	230.47		48,617	12,835	0	12,835	3	
1987	8	10	24,770		345.717	417.7	24	0	0	25,920	30		25,920	1			187	187	187	0.88			48,532	0	0	11,648	0	0	230.47		48,532	11,648	0	11,648	3	
1987	8	10	24,770		344.567	417.7	24	0	0	25,920	30		25,920	1			187	187	187	0.88			48,504	0	0	11,641	0	0	230.47		48,504	11,641	0	11,641	3	
1987	8	11	27,247		343.301	417.6	24	0	0	28,512	30		28,512	1			186	187	187	0.88			48,474	0	0	12,797	0	0	230.47		48,474	12,797	0	12,797	3	
1987	9	10	85,297		402.678	419.9	24	0	0	25,920	30		25,920	1			189	189	189	0.89			49,184	0	0	11,804	0	0	230.47		49,184	11,804	0	11,804	3	
1987	9	10	85,297		462.056	423.4	24	0	0	25,920	30		25,920	1			192	193	193	0.89			50,269	0	0	12,065	0	0	230.47		50,269	12,065	0	12,065	3	
1987	9	10	85,297		521.433	426.8	24	0	0	25,920	30		25,920	1			196	196	196	0.89			51,349	0	0	12,324	0	0	230.47		51,349	12,324	0	12,324	3	
1987	10	10	130,856	1,629	624,740	431.2	24	0	0	25,920	30		25,920	1			200	201	201	0.90			52,733	0	0	12,656	0	0	230.47		52,733	12,656	0	12,656	3	
1987	10	10	130,856	1,629	695,927	435.2	0	24	0	58,040	30	67	58,040	1		4	204	205	201	0.90		0.91	53,979	0	121,000	0	0	29,040	230.47	230.55	121,000	0	3,630	29,040	2	
1987	10	11	143,942	1,792	588,376	434.4	0	24	0	249,700	30	123	140	249,700	1	11	16	203	192	187	0.90	0.90	0.91	53,730	209,103	234,158	0	55,203	61,818	230.47	231.00	443,261	0	14,628	117,021	1
1987	11	10	88,971		647,323	433.2	21	3	0	30,023	30		30,023	1		4	202	203	199	0.90		0.91	53,379	0	121,000	11,210	0	3,630	230.47	230.56	121,000	11,210	3,630	14,840	2	
1987	11	10	88,971		685,210	435.5	21	3	0	51,084	30	123	140	51,084	1	11	16	204	193	188	0.90	0.91	0.91	54,044	211,195	236,078	11,349	6,336	7,082	230.47	231.00	447,274	11,349	13,418	24,767	1
1987	11	10	88,971		672,769	436.0	15	9	0	101,412	30	123	140	101,412	1	11	16	205	194	189	0.90	0.91	0.91	54,184	212,100	237,054	8,128	19,089	21,335	230.47	231.00	449,154	8,128	13,475	48,551	1
1987	12	10	29,119		650,804	435.3	21	3	0	51,084	30	123	140	51,084	1	11	16	204	193	188	0.90	0.91	0.91	53,995	210,869	235,729	11,339	6,326	7,072	230.47	231.00	446,598	11,339	13,398	24,737	1
1987	12	10	29,119		628,873	434.3	21	3	0	51,050	30	123	140	51,050	1	10	16	203	193	188	0.90	0.90	0.91	53,696	210,194	235,155	11,276	6,306	7,055	230.47	231.00	445,349	11,276	13,360	24,637	1
1987	12	11	32,031		627,904	433.7	21	3	0	33,000	30		33,000	1		4	203	203	200	0.90		0.91	53,531	0	121,000	12,366	0	3,993	230.47	230.55	121,000	12,366	3,993	16,359	2	

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (4/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1988	1	10	7,270		605,148	433.2	21	3	0	30,026	30		68	30,026	1		4	202	203	199	0.90		0.91	53,359	0	121,000	11,205	0	3,630	230.47	230.56	121,000	11,205	3,630	14,835	2
1988	1	10	7,270		582,340	432.2	21	3	0	30,077	30		68	30,077	1		4	201	202	198	0.90		0.91	53,031	0	121,000	11,136	0	3,630	230.47	230.56	121,000	11,136	3,630	14,766	2
1988	1	11	7,997		557,189	431.1	21	3	0	33,148	30		69	33,148	1		4	200	200	197	0.90		0.91	52,685	0	121,000	12,170	0	3,993	230.47	230.56	121,000	12,170	3,993	16,163	2
1988	2	10	5,950		537,220	430.0	24	0	0	25,920	30			25,920	1			199	200	200	0.89			52,361	0	0	12,567	0	0	230.47		52,361	12,567	0	12,567	3
1988	2	10	5,950		517,250	428.9	24	0	0	25,920	30			25,920	1			198	198	198	0.89			51,998	0	0	12,479	0	0	230.47		51,998	12,479	0	12,479	3
1988	2	9	5,355		499,277	427.8	24	0	0	23,328	30			23,328	1			197	197	197	0.89			51,651	0	0	11,157	0	0	230.47		51,651	11,157	0	11,157	3
1988	3	10	11,937		485,294	426.8	24	0	0	25,920	30			25,920	1			196	196	196	0.89			51,359	0	0	12,326	0	0	230.47		51,359	12,326	0	12,326	3
1988	3	10	11,937		471,311	426.0	24	0	0	25,920	30			25,920	1			195	196	196	0.89			51,104	0	0	12,265	0	0	230.47		51,104	12,265	0	12,265	3
1988	3	11	13,131		455,929	425.2	24	0	0	28,512	30			28,512	1			194	195	195	0.89			50,837	0	0	13,421	0	0	230.47		50,837	13,421	0	13,421	3
1988	4	10	45,329		475,339	425.3	24	0	0	25,920	30			25,920	1			194	195	195	0.89			50,874	0	0	12,210	0	0	230.47		50,874	12,210	0	12,210	3
1988	4	10	45,329		494,748	426.4	24	0	0	25,920	30			25,920	1			195	196	196	0.89			51,227	0	0	12,294	0	0	230.47		51,227	12,294	0	12,294	3
1988	4	10	45,329		514,158	427.5	24	0	0	25,920	30			25,920	1			196	197	197	0.89			51,581	0	0	12,379	0	0	230.47		51,581	12,379	0	12,379	3
1988	5	10	23,680		507,652	427.9	21	3	0	30,186	30		69	30,186	1		4	197	197	194	0.89		0.91	51,699	0	119,453	10,857	0	3,584	230.47	230.56	119,453	10,857	3,584	14,440	2
1988	5	10	23,680		501,156	427.5	21	3	0	30,176	30		69	30,176	1		4	196	197	193	0.89		0.91	51,580	0	119,062	10,832	0	3,572	230.47	230.56	119,062	10,832	3,572	14,404	2
1988	5	11	26,048		494,022	427.1	21	3	0	33,182	30		69	33,182	1		4	196	197	193	0.89		0.91	51,456	0	118,651	11,886	0	3,915	230.47	230.56	118,651	11,886	3,915	15,802	2
1988	6	10	27,487		491,350	426.9	21	3	0	30,158	30		69	30,158	1		4	196	196	192	0.89		0.91	51,366	0	118,357	10,787	0	3,551	230.47	230.56	118,357	10,787	3,551	14,338	2
1988	6	10	27,487		488,683	426.7	21	3	0	30,154	30		69	30,154	1		4	196	196	192	0.89		0.91	51,318	0	118,196	10,777	0	3,546	230.47	230.56	118,196	10,777	3,546	14,323	2
1988	6	10	27,487		486,020	426.6	21	3	0	30,150	30		69	30,150	1		4	195	196	192	0.89		0.91	51,269	0	118,036	10,767	0	3,541	230.47	230.56	118,036	10,767	3,541	14,308	2
1988	7	10	82,222		538,054	428.0	21	3	0	30,188	30		70	30,188	1		4	197	197	194	0.89		0.91	51,720	0	119,521	10,861	0	3,586	230.47	230.56	119,521	10,861	3,586	14,447	2
1988	7	10	82,222		590,127	430.8	21	3	0	30,149	30		69	30,149	1		4	200	200	196	0.89		0.91	52,604	0	121,000	11,047	0	3,630	230.47	230.56	121,000	11,047	3,630	14,677	2
1988	7	11	90,444		647,548	433.3	21	3	0	33,023	30		68	33,023	1		4	202	203	199	0.90		0.91	53,393	0	121,000	12,334	0	3,993	230.47	230.56	121,000	12,334	3,993	16,327	2
1988	8	10	104,253		700,717	435.8	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,130	211,759	236,684	11,367	6,353	7,101	230.47	231.00	448,443	11,367	13,453	24,821	1
1988	8	10	104,253		628,067	435.4	6	18	0	176,904	30	123	140	176,904	1	11	16	204	193	188	0.90	0.91	0.91	54,023	211,059	235,932	3,241	37,991	42,468	230.47	231.00	446,992	3,241	13,410	83,700	1
1988	8	11	114,679		686,553	435.0	21	3	0	56,192	30	123	140	56,192	1	11	16	204	193	188	0.90	0.91	0.91	53,946	210,539	235,376	12,461	6,948	7,767	230.47	231.00	445,915	12,461	14,715	27,177	1
1988	9	10	132,277		608,506	434.6	2	22	0	210,325	30	123	140	210,325	1	11	16	204	192	187	0.90	0.90	0.91	53,808	209,621	234,595	1,076	46,117	51,611	230.47	231.00	444,215	1,076	13,326	98,804	1
1988	9	10	132,277		710,846	435.2	21	3	0	29,936	30		67	29,936	1		4	204	205	201	0.90		0.91	53,972	0	121,000	11,334	0	3,630	230.47	230.55	121,000	11,334	3,630	14,964	2
1988	9	10	132,277		615,892	435.3	0	24	0	227,232	30	123	140	227,232	1	11	16	204	193	188	0.90	0.91	0.91	54,012	210,985	235,853	0	50,636	56,605	230.47	231.00	446,837	0	13,405	107,241	1
1988	10	10	65,049	1,629	649,320	433.9	21	3	0	29,992	30		68	29,992	1		4	203	203	200	0.90		0.91	53,592	0	121,000	11,254	0	3,630	230.47	230.55	121,000	11,254	3,630	14,884	2
1988	10	10	65,049	1,629	682,817	435.4	21	3	0	29,924	30		67	29,924	1		4	204	205	201	0.90		0.91	54,042	0	121,000	11,349	0	3,630	230.47	230.55	121,000	11,349	3,630	14,979	2
1988	10	11	71,554	1,792	696,387	436.5	21	3	0	56,192	30	123	140	56,192	1	11	16	205	194	189	0.90	0.91	0.91	54,300	212,829	237,847	12,543	7,023	7,849	230.47	231.00	450,677	12,543	14,872	27,416	1
1988	11	10	86,527		664,726	436.1	13	11	0	118,188	30	123	140	118,188	1	11	16	205	194	189	0.90	0.91	0.91	54,201	212,209	237,172	7,046	23,343	26,089	230.47	231.00	449,381	7,046	13,481	56,478	1
1988	11	10	86,527		700,170	436.2	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,222	212,340	237,314	11,387	6,370	7,119	230.47	231.00	449,655	11,387	13,490	24,876	1
1988	11	10	86,527		660,121	436.1	12	12	0	126,576	30	123	140	126,576	1	11	16	205	194	189	0.90	0.91	0.91	54,196	212,181	237,141	6,504	25,462	28,457	230.47	231.00	449,322	6,504	13,480	60,422	1
1988	12	10	30,885		639,935	434.7	21	3	0	51,071	30	123	140	51,071	1	11	16	204	192	187	0.90	0.90	0.91	53,844	209,861	234,796	11,307	6,296	7,044	230.47	231.00	444,658	11,307	13,340	24,647	1
1988	12	10	30,885		640,843	434.3	21	3	0	29,976	30		68	29,976	1		4	203	204	200	0.90		0.91	53,704	0	121,000	11,278	0	3,630	230.47	230.55	121,000	11,278	3,630	14,908	2
1988	12	11	33,973		641,845	434.3	21	3	0	32,971	30		68	32,971	1		4	203	204	200	0.90		0.91	53,718	0	121,000	12,409	0	3,993	230.47	230.55	121,000	12,409	3,993	16,402	2

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (5/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1989	1	10	28,719		640,590	434.3	21	3	0	29,974	30		68	29,974	1		4	203	204	200	0.90		0.91	53,716	0	121,000	11,280	0	3,630	230.47	230.55	121,000	11,280	3,630	14,910	2
1989	1	10	28,719		639,332	434.3	21	3	0	29,976	30		68	29,976	1		4	203	204	200	0.90		0.91	53,698	0	121,000	11,277	0	3,630	230.47	230.55	121,000	11,277	3,630	14,907	2
1989	1	11	31,590		637,945	434.2	21	3	0	32,977	30		68	32,977	1		4	203	204	200	0.90		0.91	53,679	0	121,000	12,400	0	3,993	230.47	230.55	121,000	12,400	3,993	16,393	2
1989	2	10	7,891		615,833	433.7	21	3	0	30,004	30		68	30,004	1		4	203	203	199	0.90		0.91	53,509	0	121,000	11,237	0	3,630	230.47	230.55	121,000	11,237	3,630	14,867	2
1989	2	10	7,891		593,671	432.7	21	3	0	30,052	30		68	30,052	1		4	202	202	198	0.90		0.91	53,190	0	121,000	11,170	0	3,630	230.47	230.56	121,000	11,170	3,630	14,800	2
1989	2	8	6,313		575,905	431.7	21	3	0	24,079	30		69	24,079	1		4	201	201	197	0.90		0.91	52,902	0	121,000	8,887	0	2,904	230.47	230.56	121,000	8,887	2,904	11,791	2
1989	3	10	5,596		551,352	430.8	21	3	0	30,150	30		69	30,150	1		4	200	200	196	0.89		0.91	52,597	0	121,000	11,045	0	3,630	230.47	230.56	121,000	11,045	3,630	14,675	2
1989	3	10	5,596		526,731	429.6	21	3	0	30,217	30		70	30,217	1		4	198	199	195	0.89		0.91	52,214	0	121,000	10,965	0	3,630	230.47	230.56	121,000	10,965	3,630	14,595	2
1989	3	11	6,156		499,679	428.1	21	3	0	33,208	30		70	33,208	1		4	197	197	194	0.89		0.91	51,741	0	119,592	11,952	0	3,947	230.47	230.56	119,592	11,952	3,947	15,899	2
1989	4	10	6,725		480,484	426.7	24	0	0	25,920	30			25,920	1			196	196	196	0.89			51,319	0	0	12,317	0	0	230.47		51,319	12,317	0	12,317	3
1989	4	10	6,725		461,288	425.6	24	0	0	25,920	30			25,920	1			195	195	195	0.89			50,969	0	0	12,233	0	0	230.47		50,969	12,233	0	12,233	3
1989	4	10	6,725		442,093	424.5	24	0	0	25,920	30			25,920	1			193	194	194	0.89			50,620	0	0	12,149	0	0	230.47		50,620	12,149	0	12,149	3
1989	5	10	24,039		440,212	423.9	24	0	0	25,920	30			25,920	1			193	193	193	0.89			50,429	0	0	12,103	0	0	230.47		50,429	12,103	0	12,103	3
1989	5	10	24,039		438,330	423.8	24	0	0	25,920	30			25,920	1			193	193	193	0.89			50,395	0	0	12,095	0	0	230.47		50,395	12,095	0	12,095	3
1989	5	11	26,442		436,261	423.6	24	0	0	28,512	30			28,512	1			193	193	193	0.89			50,359	0	0	13,295	0	0	230.47		50,359	13,295	0	13,295	3
1989	6	10	113,150		519,275	426.0	21	3	0	30,136	30	69		30,136	1		4	195	195	192	0.89		0.91	51,094	0	117,459	10,730	0	3,524	230.47	230.56	117,459	10,730	3,524	14,254	2
1989	6	10	113,150		602,268	430.6	21	3	0	30,157	30	69		30,157	1		4	200	200	196	0.89		0.91	52,556	0	121,000	11,037	0	3,630	230.47	230.56	121,000	11,037	3,630	14,667	2
1989	6	10	113,150		685,449	434.4	21	3	0	29,968	30	67		29,968	1		4	203	204	200	0.90		0.91	53,755	0	121,000	11,288	0	3,630	230.47	230.55	121,000	11,288	3,630	14,918	2
1989	7	10	203,583		661,800	435.8	0	24	0	227,232	30	123	140	227,232	1	11	16	205	194	189	0.90	0.91	0.91	54,125	211,723	236,646	0	50,813	56,795	230.47	231.00	448,368	0	13,451	107,608	1
1989	7	10	203,583		638,253	434.7	0	24	0	227,130	30	123	140	227,130	1	11	16	204	192	187	0.90	0.90	0.91	53,844	209,861	234,796	0	50,367	56,351	230.47	231.00	444,657	0	13,340	106,718	1
1989	7	11	223,941		612,795	433.6	0	24	0	249,399	30	122	140	249,399	1	11	17	203	191	186	0.90	0.90	0.91	53,490	207,505	232,780	0	54,781	61,454	230.47	231.00	440,286	0	14,529	116,235	1
1989	8	10	98,521		681,354	434.6	21	3	0	29,962	30	67		29,962	1		4	204	204	200	0.90		0.91	53,801	0	121,000	11,298	0	3,630	230.47	230.55	121,000	11,298	3,630	14,928	2
1989	8	10	98,521		670,074	435.9	14	10	0	109,800	30	123	140	109,800	1	11	16	205	194	189	0.90	0.91	0.91	54,148	211,870	236,805	7,581	21,187	23,681	230.47	231.00	448,675	7,581	13,460	52,448	1
1989	8	11	108,373		676,121	435.8	16	8	0	102,326	30	123	140	102,326	1	11	16	205	194	189	0.90	0.91	0.91	54,119	211,685	236,605	9,525	18,628	20,821	230.47	231.00	448,290	9,525	14,794	48,974	1
1989	9	10	82,489		699,137	436.4	20	4	0	59,472	30	123	140	59,472	1	11	16	205	194	189	0.90	0.91	0.91	54,278	212,696	237,701	10,856	8,508	9,508	230.47	231.00	450,397	10,856	13,512	28,872	1
1989	9	10	82,489		663,438	436.1	13	11	0	118,188	30	123	140	118,188	1	11	16	205	194	189	0.90	0.91	0.91	54,209	212,260	237,227	7,047	23,349	26,095	230.47	231.00	449,487	7,047	13,485	56,491	1
1989	9	10	82,489		694,843	436.0	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,185	212,111	237,065	11,379	6,363	7,112	230.47	231.00	449,176	11,379	13,475	24,854	1
1989	10	10	72,959	1,629	689,924	436.6	18	6	0	76,248	30	123	140	76,248	1	11	16	206	195	190	0.90	0.91	0.91	54,331	213,017	238,053	9,780	12,781	14,283	230.47	231.00	451,069	9,780	13,532	36,844	1
1989	10	10	72,959	1,629	693,394	436.6	19	5	0	67,860	30	123	140	67,860	1	11	16	206	195	190	0.90	0.91	0.91	54,323	212,968	237,999	10,321	10,648	11,900	230.47	231.00	450,967	10,321	13,529	32,870	1
1989	10	11	80,255	1,792	687,984	436.6	18	6	0	83,873	30	123	140	83,873	1	11	16	205	195	190	0.90	0.91	0.91	54,312	212,903	237,928	10,754	14,052	15,703	230.47	231.00	450,831	10,754	14,877	40,509	1
1989	11	10	139,297		600,248	434.4	0	24	0	227,033	30	123	140	227,033	1	11	16	203	192	187	0.90	0.90	0.91	53,758	209,292	234,318	0	50,230	56,236	230.47	231.00	443,610	0	13,308	106,466	1
1989	11	10	139,297		709,600	434.9	21	3	0	29,946	30	67		29,946	1		4	204	204	201	0.90		0.91	53,915	0	121,000	11,322	0	3,630	230.47	230.55	121,000	11,322	3,630	14,952	2
1989	11	10	139,297		621,665	435.4	0	24	0	227,232	30	123	140	227,232	1	11	16	204	193	188	0.90	0.91	0.91	54,037	211,149	236,029	0	50,676	56,647	230.47	231.00	447,178	0	13,415	107,323	1
1989	12	10	38,341		630,000	433.6	21	3	0	30,006	30		68	30,006	1		4	203	203	199	0.90		0.91	53,494	0	121,000	11,234	0	3,630	230.47	230.56	121,000	11,234	3,630	14,864	2
1989	12	10	38,341		638,353	434.0	21	3	0	29,989	30		68	29,989	1		4	203	203	200	0.90		0.91	53,615	0	121,000	11,259	0	3,630	230.47	230.55	121,000	11,259	3,630	14,889	2
1989	12	11	42,176		647,561	434.4	21	3	0	32,967	30		68	32,967	1		4	203	204	200	0.90		0.91	53,742	0	121,000	12,414	0	3,993	230.47	230.55	121,000	12,414	3,993	16,407	2

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (6/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1990	1	10	67,414		663,892	435.0	21	3	0	51,083	30	123	140	51,083	1	11	16	204	193	188	0.90	0.91	0.91	53,926	210,410	235,251	11,325	6,312	7,058	230.47	231.00	445,661	11,325	13,370	24,694	1
1990	1	10	67,414		680,222	435.7	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,108	211,611	236,525	11,363	6,348	7,096	230.47	231.00	448,137	11,363	13,444	24,807	1
1990	1	11	74,155		698,185	436.5	21	3	0	56,192	30	123	140	56,192	1	11	16	205	194	189	0.90	0.91	0.91	54,296	212,802	237,818	12,542	7,022	7,848	230.47	231.00	450,620	12,542	14,870	27,413	1
1990	2	10	18,535		665,636	436.2	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,216	212,303	237,274	11,385	6,369	7,118	230.47	231.00	449,577	11,385	13,487	24,873	1
1990	2	10	18,535		633,101	434.7	21	3	0	51,070	30	123	140	51,070	1	11	16	204	192	187	0.90	0.90	0.91	53,834	209,798	234,743	11,305	6,294	7,042	230.47	231.00	444,541	11,305	13,336	24,641	1
1990	2	8	14,828		623,929	433.7	21	3	0	24,000	30		68	24,000	1		4	203	203	200	0.90		0.91	53,533	0	121,000	8,993	0	2,904	230.47	230.55	121,000	8,993	2,904	11,897	2
1990	3	10	15,020		608,922	433.2	21	3	0	30,026	30		68	30,026	1		4	202	203	199	0.90		0.91	53,358	0	121,000	11,205	0	3,630	230.47	230.56	121,000	11,205	3,630	14,835	2
1990	3	10	15,020		593,883	432.5	21	3	0	30,060	30		68	30,060	1		4	201	202	198	0.90		0.91	53,141	0	121,000	11,160	0	3,630	230.47	230.56	121,000	11,160	3,630	14,790	2
1990	3	11	16,522		577,298	431.8	21	3	0	33,106	30		69	33,106	1		4	201	201	197	0.90		0.91	52,913	0	121,000	12,223	0	3,993	230.47	230.56	121,000	12,223	3,993	16,216	2
1990	4	10	6,031		553,183	430.9	21	3	0	30,146	30		69	30,146	1		4	200	200	196	0.90		0.91	52,620	0	121,000	11,050	0	3,630	230.47	230.56	121,000	11,050	3,630	14,680	2
1990	4	10	6,031		529,003	429.7	21	3	0	30,211	30		70	30,211	1		4	199	199	195	0.89		0.91	52,251	0	121,000	10,973	0	3,630	230.47	230.56	121,000	10,973	3,630	14,603	2
1990	4	10	6,031		504,839	428.3	21	3	0	30,195	30		70	30,195	1		4	197	198	194	0.89		0.91	51,809	0	119,816	10,880	0	3,594	230.47	230.56	119,816	10,880	3,594	14,474	2
1990	5	10	38,100		512,756	427.8	21	3	0	30,183	30		69	30,183	1		4	197	197	193	0.89		0.91	51,660	0	119,326	10,849	0	3,580	230.47	230.56	119,326	10,849	3,580	14,428	2
1990	5	10	38,100		520,662	428.3	21	3	0	30,195	30		70	30,195	1		4	197	198	194	0.89		0.91	51,805	0	119,803	10,879	0	3,594	230.47	230.56	119,803	10,879	3,594	14,473	2
1990	5	11	41,910		529,344	428.7	21	3	0	33,228	30		70	33,228	1		4	198	198	194	0.89		0.91	51,957	0	120,304	12,002	0	3,970	230.47	230.56	120,304	12,002	3,970	15,972	2
1990	6	10	42,583		541,703	429.4	21	3	0	30,223	30		70	30,223	1		4	198	199	195	0.89		0.91	52,149	0	120,939	10,951	0	3,628	230.47	230.56	120,939	10,951	3,628	14,580	2
1990	6	10	42,583		554,096	430.1	21	3	0	30,190	30		70	30,190	1		4	199	200	196	0.89		0.91	52,371	0	121,000	10,998	0	3,630	230.47	230.56	121,000	10,998	3,630	14,628	2
1990	6	10	42,583		566,520	430.6	21	3	0	30,158	30		69	30,158	1		4	200	200	196	0.89		0.91	52,549	0	121,000	11,035	0	3,630	230.47	230.56	121,000	11,035	3,630	14,665	2
1990	7	10	39,109		575,497	431.1	21	3	0	30,132	30		69	30,132	1		4	200	201	197	0.90		0.91	52,703	0	121,000	11,068	0	3,630	230.47	230.56	121,000	11,068	3,630	14,698	2
1990	7	10	39,109		584,496	431.5	21	3	0	30,110	30		69	30,110	1		4	200	201	197	0.90		0.91	52,833	0	121,000	11,095	0	3,630	230.47	230.56	121,000	11,095	3,630	14,725	2
1990	7	11	43,019		594,419	432.0	21	3	0	33,096	30		69	33,096	1		4	201	201	198	0.90		0.91	52,969	0	121,000	12,236	0	3,993	230.47	230.56	121,000	12,236	3,993	16,229	2
1990	8	10	35,170		599,519	432.3	21	3	0	30,070	30		68	30,070	1		4	201	202	198	0.90		0.91	53,077	0	121,000	11,146	0	3,630	230.47	230.56	121,000	11,146	3,630	14,776	2
1990	8	10	35,170		604,630	432.5	21	3	0	30,058	30		68	30,058	1		4	201	202	198	0.90		0.91	53,151	0	121,000	11,162	0	3,630	230.47	230.56	121,000	11,162	3,630	14,792	2
1990	8	11	38,687		610,266	432.8	21	3	0	33,051	30		68	33,051	1		4	202	202	199	0.90		0.91	53,228	0	121,000	12,296	0	3,993	230.47	230.56	121,000	12,296	3,993	16,289	2
1990	9	10	17,161		597,373	432.6	21	3	0	30,054	30		68	30,054	1		4	202	202	198	0.90		0.91	53,176	0	121,000	11,167	0	3,630	230.47	230.56	121,000	11,167	3,630	14,797	2
1990	9	10	17,161		584,451	432.0	21	3	0	30,084	30		69	30,084	1		4	201	201	198	0.90		0.91	52,990	0	121,000	11,128	0	3,630	230.47	230.56	121,000	11,128	3,630	14,758	2
1990	9	10	17,161		571,497	431.4	21	3	0	30,115	30		69	30,115	1		4	200	201	197	0.90		0.91	52,804	0	121,000	11,089	0	3,630	230.47	230.56	121,000	11,089	3,630	14,719	2
1990	10	10	35,452	1,629	579,400	431.3	24	0	0	25,920	30			25,920	1		200	201	201	0.90			52,767	0	0	12,664	0	0	230.47		52,767	12,664	0	12,664	3	
1990	10	10	35,452	1,629	583,116	431.6	21	3	0	30,107	30		69	30,107	1		4	201	201	197	0.90		0.91	52,851	0	121,000	11,099	0	3,630	230.47	230.56	121,000	11,099	3,630	14,729	2
1990	10	11	38,997	1,792	587,214	431.8	21	3	0	33,107	30		69	33,107	1		4	201	201	197	0.90		0.91	52,907	0	121,000	12,222	0	3,993	230.47	230.56	121,000	12,222	3,993	16,215	2
1990	11	10	51,391		608,537	432.3	21	3	0	30,068	30		68	30,068	1		4	201	202	198	0.90		0.91	53,090	0	121,000	11,149	0	3,630	230.47	230.56	121,000	11,149	3,630	14,779	2
1990	11	10	51,391		629,908	433.3	21	3	0	30,020	30		68	30,020	1		4	202	203	199	0.90		0.91	53,398	0	121,000	11,214	0	3,630	230.47	230.56	121,000	11,214	3,630	14,844	2
1990	11	10	51,391		651,324	434.3	21	3	0	29,975	30		68	29,975	1		4	203	204	200	0.90		0.91	53,708	0	121,000	11,279	0	3,630	230.47	230.55	121,000	11,279	3,630	14,909	2
1990	12	10	39,665		639,927	434.5	21	3	0	51,062	30	123	140	51,062	1	10	16	203	193	188	0.90	0.90	0.91	53,780	210,692	235,554	11,294	6,321	7,067	230.47	231.00	446,247	11,294	13,387	24,681	1
1990	12	10	39,665		649,625	434.5	21	3	0	29,966	30		67	29,966	1		4	203	204	200	0.90		0.91	53,768	0	121,000	11,291	0	3,630	230.47	230.55	121,000	11,291	3,630	14,921	2
1990	12	11	43,631		637,092	434.4	21	3	0	56,163	30	123	140	56,163	1	10	16	203	193	188	0.90	0.90	0.91	53,747	210,497	235,398	12,416	6,946	7,768	230.47	231.00	445,895	12,416	14,715	27,130	1

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (7/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria O for Hydro (1000 m <sup>3</sup> )	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1991	1	10	44,233		651,358	434.5	21	3	0	29,968	30		67	29,968	1		4	203	204	200	0.90		0.91	53,760	0	121,000	11,290	0	3,630	230.47	230.55	121,000	11,290	3,630	14,920	2
1991	1	10	44,233		644,524	434.6	21	3	0	51,067	30	123	140	51,067	1	10	16	204	193	188	0.90	0.90	0.91	53,814	210,892	235,713	11,301	6,327	7,071	230.47	231.00	446,605	11,301	13,398	24,699	1
1991	1	11	48,657		660,235	434.8	21	3	0	32,946	30		67	32,946	1		4	204	204	201	0.90		0.91	53,878	0	121,000	12,446	0	3,993	230.47	230.55	121,000	12,446	3,993	16,439	2
1991	2	10	12,181		621,363	434.3	21	3	0	51,052	30	123	140	51,052	1	10	16	203	193	188	0.90	0.90	0.91	53,710	210,277	235,221	11,279	6,308	7,057	230.47	231.00	445,498	11,279	13,365	24,644	1
1991	2	10	12,181		603,509	433.0	21	3	0	30,035	30		68	30,035	1		4	202	202	199	0.90		0.91	53,300	0	121,000	11,193	0	3,630	230.47	230.56	121,000	11,193	3,630	14,823	2
1991	2	8	9,745		589,197	432.3	21	3	0	24,057	30		68	24,057	1		4	201	202	198	0.90		0.91	53,068	0	121,000	8,915	0	2,904	230.47	230.56	121,000	8,915	2,904	11,819	2
1991	3	10	8,593		567,676	431.5	21	3	0	30,114	30		69	30,114	1		4	200	201	197	0.90		0.91	52,810	0	121,000	11,090	0	3,630	230.47	230.56	121,000	11,090	3,630	14,720	2
1991	3	10	8,593		546,101	430.5	21	3	0	30,167	30		69	30,167	1		4	199	200	196	0.89		0.91	52,500	0	121,000	11,025	0	3,630	230.47	230.56	121,000	11,025	3,630	14,655	2
1991	3	11	9,452		522,310	429.3	21	3	0	33,243	30		70	33,243	1		4	198	199	195	0.89		0.91	52,125	0	120,860	12,041	0	3,988	230.47	230.56	120,860	12,041	3,988	16,029	2
1991	4	10	8,936		501,059	428.0	21	3	0	30,187	30		70	30,187	1		4	197	197	194	0.89		0.91	51,713	0	119,500	10,860	0	3,585	230.47	230.56	119,500	10,860	3,585	14,445	2
1991	4	10	8,936		484,076	426.9	24	0	0	25,920	30			25,920	1			196	196	196	0.89			51,364	0	0	12,327	0	0	230.47		51,364	12,327	0	12,327	3
1991	4	10	8,936		467,092	425.9	24	0	0	25,920	30			25,920	1			195	195	195	0.89			51,055	0	0	12,253	0	0	230.47		51,055	12,253	0	12,253	3
1991	5	10	6,177		447,350	424.8	24	0	0	25,920	30			25,920	1			194	194	194	0.89			50,721	0	0	12,173	0	0	230.47		50,721	12,173	0	12,173	3
1991	5	10	6,177		427,607	423.6	24	0	0	25,920	30			25,920	1			193	193	193	0.89			50,362	0	0	12,087	0	0	230.47		50,362	12,087	0	12,087	3
1991	5	11	6,795		405,890	422.4	24	0	0	28,512	30			28,512	1			191	192	192	0.89			49,986	0	0	13,196	0	0	230.47		49,986	13,196	0	13,196	3
1991	6	10	43,766		423,736	422.3	24	0	0	25,920	30			25,920	1			191	192	192	0.89			49,951	0	0	11,988	0	0	230.47		49,951	11,988	0	11,988	3
1991	6	10	43,766		437,439	423.2	21	3	0	30,064	30	68		30,064	1		4	192	193	189	0.89		0.90	50,237	0	114,638	10,550	0	3,439	230.47	230.56	114,638	10,550	3,439	13,989	2
1991	6	10	43,766		451,120	424.0	21	3	0	30,085	30	69		30,085	1		4	193	193	190	0.89		0.90	50,486	0	115,455	10,602	0	3,464	230.47	230.56	115,455	10,602	3,464	14,066	2
1991	7	10	19,316		440,350	424.1	21	3	0	30,087	30	69		30,087	1		4	193	194	190	0.89		0.90	50,512	0	115,542	10,608	0	3,466	230.47	230.56	115,542	10,608	3,466	14,074	2
1991	7	10	19,316		429,595	423.5	21	3	0	30,071	30	68		30,071	1		4	192	193	189	0.89		0.90	50,317	0	114,899	10,567	0	3,447	230.47	230.56	114,899	10,567	3,447	14,013	2
1991	7	11	21,248		422,331	423.0	24	0	0	28,512	30			28,512	1			192	193	193	0.89			50,153	0	0	13,240	0	0	230.47		50,153	13,240	0	13,240	3
1991	8	10	14,382		410,793	422.4	24	0	0	25,920	30			25,920	1			191	192	192	0.89			49,983	0	0	11,996	0	0	230.47		49,983	11,996	0	11,996	3
1991	8	10	14,382		399,255	421.8	24	0	0	25,920	30			25,920	1			191	191	191	0.89			49,774	0	0	11,946	0	0	230.47		49,774	11,946	0	11,946	3
1991	8	11	15,820		386,564	421.1	24	0	0	28,512	30			28,512	1			190	191	191	0.89			49,555	0	0	13,083	0	0	230.47		49,555	13,083	0	13,083	3
1991	9	10	14,866		375,510	420.4	24	0	0	25,920	30			25,920	1			189	190	190	0.89			49,341	0	0	11,842	0	0	230.47		49,341	11,842	0	11,842	3
1991	9	10	14,866		364,456	419.6	24	0	0	25,920	30			25,920	1			189	189	189	0.89			49,111	0	0	11,787	0	0	230.47		49,111	11,787	0	11,787	3
1991	9	10	14,866		353,403	418.7	24	0	0	25,920	30			25,920	1			188	188	188	0.88			48,840	0	0	11,722	0	0	230.47		48,840	11,722	0	11,722	3
1991	10	10	45,730	1,629	371,584	419.0	24	0	0	25,920	30			25,920	1			188	189	189	0.88			48,927	0	0	11,743	0	0	230.47		48,927	11,743	0	11,743	3
1991	10	10	45,730	1,629	389,765	420.3	24	0	0	25,920	30			25,920	1			189	190	190	0.89			49,335	0	0	11,840	0	0	230.47		49,335	11,840	0	11,840	3
1991	10	11	50,303	1,792	409,765	421.5	24	0	0	28,512	30			28,512	1			190	191	191	0.89			49,679	0	0	13,115	0	0	230.47		49,679	13,115	0	13,115	3
1991	11	10	38,814		422,659	422.4	24	0	0	25,920	30			25,920	1			191	192	192	0.89			49,977	0	0	11,994	0	0	230.47		49,977	11,994	0	11,994	3
1991	11	10	38,814		435,553	423.2	24	0	0	25,920	30			25,920	1			192	193	193	0.89			50,210	0	0	12,050	0	0	230.47		50,210	12,050	0	12,050	3
1991	11	10	38,814		448,447	423.9	24	0	0	25,920	30			25,920	1			193	194	194	0.89			50,444	0	0	12,107	0	0	230.47		50,444	12,107	0	12,107	3
1991	12	10	52,973		475,500	425.1	24	0	0	25,920	30			25,920	1			194	195	195	0.89			50,807	0	0	12,194	0	0	230.47		50,807	12,194	0	12,194	3
1991	12	10	52,973		502,554	426.6	24	0	0	25,920	30			25,920	1			196	196	196	0.89			51,300	0	0	12,312	0	0	230.47		51,300	12,312	0	12,312	3
1991	12	11	58,271		532,312	428.3	24	0	0	28,512	30			28,512	1			197	198	198	0.89			51,818	0	0	13,680	0	0	230.47		51,818	13,680	0	13,680	3

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (8/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1992	1	10	28,296		534,689	429.2	24	0	0	25,920	30		25,920	1			198	199	199	0.89				52,112	0	0	12,507	0	0	230.47		52,112	12,507	0	12,507	3
1992	1	10	28,296		537,065	429.4	24	0	0	25,920	30		25,920	1			198	199	199	0.89				52,156	0	0	12,517	0	0	230.47		52,156	12,517	0	12,517	3
1992	1	11	31,126		539,679	429.5	24	0	0	28,512	30		28,512	1			198	199	199	0.89				52,201	0	0	13,781	0	0	230.47		52,201	13,781	0	13,781	3
1992	2	10	13,498		527,257	429.2	24	0	0	25,920	30		25,920	1			198	199	199	0.89				52,112	0	0	12,507	0	0	230.47		52,112	12,507	0	12,507	3
1992	2	10	13,498		514,835	428.5	24	0	0	25,920	30		25,920	1			197	198	198	0.89				51,884	0	0	12,452	0	0	230.47		51,884	12,452	0	12,452	3
1992	2	9	12,148		503,656	427.8	24	0	0	23,328	30		23,328	1			197	197	197	0.89				51,669	0	0	11,160	0	0	230.47		51,669	11,160	0	11,160	3
1992	3	10	5,736		483,472	426.9	24	0	0	25,920	30		25,920	1			196	197	197	0.89				51,382	0	0	12,332	0	0	230.47		51,382	12,332	0	12,332	3
1992	3	10	5,736		463,288	425.7	24	0	0	25,920	30		25,920	1			195	195	195	0.89				51,015	0	0	12,244	0	0	230.47		51,015	12,244	0	12,244	3
1992	3	11	6,310		441,086	424.5	24	0	0	28,512	30		28,512	1			193	194	194	0.89				50,629	0	0	13,366	0	0	230.47		50,629	13,366	0	13,366	3
1992	4	10	12,164		427,330	423.5	24	0	0	25,920	30		25,920	1			192	193	193	0.89				50,303	0	0	12,073	0	0	230.47		50,303	12,073	0	12,073	3
1992	4	10	12,164		413,574	422.7	24	0	0	25,920	30		25,920	1			192	192	192	0.89				50,054	0	0	12,013	0	0	230.47		50,054	12,013	0	12,013	3
1992	4	10	12,164		399,817	421.9	24	0	0	25,920	30		25,920	1			191	191	191	0.89				49,805	0	0	11,953	0	0	230.47		49,805	11,953	0	11,953	3
1992	5	10	17,892		391,789	421.2	24	0	0	25,920	30		25,920	1			190	191	191	0.89				49,608	0	0	11,906	0	0	230.47		49,608	11,906	0	11,906	3
1992	5	10	17,892		383,762	420.8	24	0	0	25,920	30		25,920	1			190	190	190	0.89				49,463	0	0	11,871	0	0	230.47		49,463	11,871	0	11,871	3
1992	5	11	19,681		374,931	420.3	24	0	0	28,512	30		28,512	1			189	190	190	0.89				49,311	0	0	13,018	0	0	230.47		49,311	13,018	0	13,018	3
1992	6	10	35,271		384,282	420.3	24	0	0	25,920	30		25,920	1			189	190	190	0.89				49,315	0	0	11,836	0	0	230.47		49,315	11,836	0	11,836	3
1992	6	10	35,271		393,634	420.8	24	0	0	25,920	30		25,920	1			190	190	190	0.89				49,484	0	0	11,876	0	0	230.47		49,484	11,876	0	11,876	3
1992	6	10	35,271		402,985	421.4	24	0	0	25,920	30		25,920	1			190	191	191	0.89				49,653	0	0	11,917	0	0	230.47		49,653	11,917	0	11,917	3
1992	7	10	68,264		445,329	422.9	24	0	0	25,920	30		25,920	1			192	192	192	0.89				50,121	0	0	12,029	0	0	230.47		50,121	12,029	0	12,029	3
1992	7	10	68,264		483,478	425.2	21	3	0	30,115	30	69	30,115	1		4	194	195	191	0.89		0.90	50,851	0	116,658	10,679	0	3,500	230.47	230.56	116,658	10,679	3,500	14,178	2	
1992	7	11	75,091		525,376	427.5	21	3	0	33,194	30	69	33,194	1		4	196	197	193	0.89		0.91	51,581	0	119,063	11,915	0	3,929	230.47	230.56	119,063	11,915	3,929	15,844	2	
1992	8	10	78,373		573,563	430.1	21	3	0	30,186	30	70	30,186	1		4	199	200	196	0.89		0.91	52,393	0	121,000	11,003	0	3,630	230.47	230.56	121,000	11,003	3,630	14,633	2	
1992	8	10	78,373		621,868	432.3	21	3	0	30,068	30	68	30,068	1		4	201	202	198	0.90		0.91	53,088	0	121,000	11,148	0	3,630	230.47	230.56	121,000	11,148	3,630	14,778	2	
1992	8	11	86,211		675,123	434.6	21	3	0	32,955	30	67	32,955	1		4	204	204	200	0.90		0.91	53,822	0	121,000	12,433	0	3,993	230.47	230.55	121,000	12,433	3,993	16,426	2	
1992	9	10	49,987		674,027	435.8	21	3	0	51,084	30	123	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,135	211,790	236,718	11,368	6,354	7,102	230.47	231.00	448,508	11,368	13,455	24,824	1	
1992	9	10	49,987		672,930	435.8	21	3	0	51,084	30	123	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,123	211,712	236,634	11,366	6,351	7,099	230.47	231.00	448,347	11,366	13,450	24,816	1	
1992	9	10	49,987		671,834	435.7	21	3	0	51,084	30	123	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,111	211,634	236,550	11,363	6,349	7,097	230.47	231.00	448,185	11,363	13,446	24,809	1	
1992	10	10	62,733	1,629	681,853	435.9	21	3	0	51,084	30	123	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,160	211,950	236,891	11,374	6,358	7,107	230.47	231.00	448,841	11,374	13,465	24,839	1	
1992	10	10	62,733	1,629	691,873	436.4	21	3	0	51,084	30	123	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,270	212,643	237,644	11,397	6,379	7,129	230.47	231.00	450,288	11,397	13,509	24,905	1	
1992	10	11	69,006	1,792	702,895	436.9	21	3	0	56,192	30	123	56,192	1	11	16	206	195	190	0.90	0.91	0.91	54,385	213,350	238,418	12,563	7,041	7,868	230.47	231.00	451,768	12,563	14,908	27,471	1	
1992	11	10	78,682		663,389	436.2	13	11	0	118,188	30	123	118,188	1	11	16	205	194	189	0.90	0.91	0.91	54,229	212,388	237,366	7,050	23,363	26,110	230.47	231.00	449,755	7,050	13,493	56,523	1	
1992	11	10	78,682		690,987	436.0	21	3	0	51,084	30	123	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,164	211,974	236,917	11,374	6,359	7,108	230.47	231.00	448,891	11,374	13,467	24,841	1	
1992	11	10	78,682		685,032	436.4	17	7	0	84,636	30	123	84,636	1	11	16	205	194	189	0.90	0.91	0.91	54,283	212,721	237,730	9,228	14,891	16,641	230.47	231.00	450,451	9,228	13,514	40,760	1	
1992	12	10	53,251		687,200	436.4	21	3	0	51,084	30	123	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,262	212,592	237,589	11,395	6,378	7,128	230.47	231.00	450,181	11,395	13,505	24,900	1	
1992	12	10	53,251		689,367	436.5	21	3	0	51,084	30	123	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,286	212,740	237,750	11,400	6,382	7,132	230.47	231.00	450,490	11,400	13,515	24,915	1	
1992	12	11	58,577		691,751	436.6	21	3	0	56,192	30	123	56,192	1	11	16	205	195	190	0.90	0.91	0.91	54,311	212,894	237,918	12,546	7,026	7,851	230.47	231.00	450,812	12,546	14,877	27,423	1	



**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (9/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1993	1	10	13,169		653,836	435.8	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,116	211,664	236,582	11,364	6,350	7,097	230.47	231.00	448,246	11,364	13,447	24,812	1
1993	1	10	13,169		615,965	434.0	21	3	0	51,040	30	123	140	51,040	1	10	16	203	193	187	0.90	0.90	0.91	53,625	209,770	234,810	11,261	6,293	7,044	230.47	231.00	444,580	11,261	13,337	24,599	1
1993	1	11	14,486		597,398	432.7	21	3	0	33,053	30		68	33,053	1		4	202	202	198	0.90		0.91	53,217	0	121,000	12,293	0	3,993	230.47	230.56	121,000	12,293	3,993	16,286	2
1993	2	10	8,500		575,804	431.8	21	3	0	30,094	30		69	30,094	1		4	201	201	198	0.90		0.91	52,928	0	121,000	11,115	0	3,630	230.47	230.56	121,000	11,115	3,630	14,745	2
1993	2	10	8,500		554,158	430.8	21	3	0	30,147	30		69	30,147	1		4	200	200	196	0.89		0.91	52,617	0	121,000	11,049	0	3,630	230.47	230.56	121,000	11,049	3,630	14,679	2
1993	2	8	6,800		540,222	430.0	24	0	0	20,736	30			20,736	1			199	200	200	0.89			52,361	0	0	10,053	0	0	230.47		52,361	10,053	0	10,053	3
1993	3	10	5,803		515,814	428.9	21	3	0	30,212	30		70	30,212	1		4	198	198	194	0.89		0.91	52,012	0	120,486	10,922	0	3,615	230.47	230.56	120,486	10,922	3,615	14,537	2
1993	3	10	5,803		495,697	427.6	24	0	0	25,920	30			25,920	1			197	197	197	0.89			51,605	0	0	12,385	0	0	230.47		51,605	12,385	0	12,385	3
1993	3	11	6,384		473,569	426.4	24	0	0	28,512	30			28,512	1			195	196	196	0.89			51,220	0	0	13,522	0	0	230.47		51,220	13,522	0	13,522	3
1993	4	10	5,793		453,442	425.2	24	0	0	25,920	30			25,920	1			194	195	195	0.89			50,835	0	0	12,200	0	0	230.47		50,835	12,200	0	12,200	3
1993	4	10	5,793		433,315	424.0	24	0	0	25,920	30			25,920	1			193	194	194	0.89			50,469	0	0	12,113	0	0	230.47		50,469	12,113	0	12,113	3
1993	4	10	5,793		413,187	422.8	24	0	0	25,920	30			25,920	1			192	192	192	0.89			50,104	0	0	12,025	0	0	230.47		50,104	12,025	0	12,025	3
1993	5	10	37,297		424,564	422.6	24	0	0	25,920	30			25,920	1			191	192	192	0.89			50,025	0	0	12,006	0	0	230.47		50,025	12,006	0	12,006	3
1993	5	10	37,297		435,941	423.2	24	0	0	25,920	30			25,920	1			192	193	193	0.89			50,231	0	0	12,055	0	0	230.47		50,231	12,055	0	12,055	3
1993	5	11	41,026		448,455	423.9	24	0	0	28,512	30			28,512	1			193	194	194	0.89			50,448	0	0	13,318	0	0	230.47		50,448	13,318	0	13,318	3
1993	6	10	116,087		534,386	426.8	21	3	0	30,156	30		69	30,156	1		4	196	196	192	0.89		0.91	51,343	0	118,281	10,782	0	3,548	230.47	230.56	118,281	10,782	3,548	14,331	2
1993	6	10	116,087		620,358	431.4	21	3	0	30,116	30		69	30,116	1		4	200	201	197	0.90		0.91	52,795	0	121,000	11,087	0	3,630	230.47	230.56	121,000	11,087	3,630	14,717	2
1993	6	10	116,087		706,516	435.3	21	3	0	29,929	30		67	29,929	1		4	204	205	201	0.90		0.91	54,013	0	121,000	11,343	0	3,630	230.47	230.55	121,000	11,343	3,630	14,973	2
1993	7	10	90,131		636,519	435.7	8	16	0	160,128	30	123	140	160,128	1	11	16	205	194	188	0.90	0.91	0.91	54,102	211,573	236,484	4,328	33,852	37,837	230.47	231.00	448,057	4,328	13,442	76,017	1
1993	7	10	90,131		675,566	435.0	21	3	0	51,084	30	123	140	51,084	1	11	16	204	193	188	0.90	0.91	0.91	53,931	210,441	235,276	11,326	6,313	7,058	230.47	231.00	445,717	11,326	13,371	24,697	1
1993	7	11	99,144		681,610	436.0	17	7	0	93,100	30	123	140	93,100	1	11	16	205	194	189	0.90	0.91	0.91	54,179	212,072	237,023	10,132	16,330	18,251	230.47	231.00	449,095	10,132	14,820	44,712	1
1993	8	10	31,921		662,447	435.7	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,107	211,609	236,523	11,363	6,348	7,096	230.47	231.00	448,132	11,363	13,444	24,806	1
1993	8	10	31,921		643,291	434.8	21	3	0	51,077	30	123	140	51,077	1	11	16	204	193	187	0.90	0.90	0.91	53,885	210,135	235,024	11,316	6,304	7,051	230.47	231.00	445,159	11,316	13,355	24,671	1
1993	8	11	35,113		622,265	433.9	21	3	0	56,139	30	123	140	56,139	1	10	16	203	193	187	0.90	0.90	0.91	53,594	209,588	234,662	12,380	6,916	7,744	230.47	231.00	444,249	12,380	14,660	27,041	1
1993	9	10	7,625		599,852	432.9	21	3	0	30,038	30		68	30,038	1		4	202	202	199	0.90		0.91	53,281	0	121,000	11,189	0	3,630	230.47	230.56	121,000	11,189	3,630	14,819	2
1993	9	10	7,625		577,388	431.9	21	3	0	30,089	30		69	30,089	1		4	201	201	198	0.90		0.91	52,957	0	121,000	11,121	0	3,630	230.47	230.56	121,000	11,121	3,630	14,751	2
1993	9	10	7,625		554,869	430.9	21	3	0	30,144	30		69	30,144	1		4	200	200	197	0.90		0.91	52,633	0	121,000	11,053	0	3,630	230.47	230.56	121,000	11,053	3,630	14,683	2
1993	10	10	74,415	1,629	601,735	431.4	24	0	0	25,920	30			25,920	1			200	201	201	0.90			52,808	0	0	12,674	0	0	230.47		52,808	12,674	0	12,674	3
1993	10	10	74,415	1,629	644,509	433.5	21	3	0	30,012	30		68	30,012	1		4	202	203	199	0.90		0.91	53,455	0	121,000	11,225	0	3,630	230.47	230.56	121,000	11,225	3,630	14,855	2
1993	10	11	81,857	1,792	691,662	435.5	21	3	0	32,912	30		67	32,912	1		4	204	205	201	0.90		0.91	54,064	0	121,000	12,489	0	3,993	230.47	230.55	121,000	12,489	3,993	16,482	2
1993	11	10	99,472		647,781	435.6	10	14	0	143,352	30	123	140	143,352	1	11	16	205	193	188	0.90	0.91	0.91	54,082	211,444	236,346	5,408	29,602	33,088	230.47	231.00	447,790	5,408	13,434	68,099	1
1993	11	10	99,472		696,169	435.7	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,107	211,605	236,519	11,362	6,348	7,096	230.47	231.00	448,125	11,362	13,444	24,806	1
1993	11	10	99,472		643,901	435.6	9	15	0	151,740	30	123	140	151,740	1	11	16	205	193	188	0.90	0.91	0.91	54,085	211,467	236,370	4,868	31,720	35,455	230.47	231.00	447,837	4,868	13,435	72,043	1
1993	12	10	108,432		701,249	435.7	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,113	211,648	236,565	11,364	6,349	7,097	230.47	231.00	448,213	11,364	13,446	24,810	1
1993	12	10	108,432		616,001	435.1	4	20	0	193,680	30	123	140	193,680	1	11	16	204	193	188	0.90	0.91	0.91	53,960	210,636	235,480	2,158	42,127	47,096	230.47	231.00	446,117	2,158	13,383	91,382	1
1993	12	11	119,276		702,346	435.1	21	3	0	32,931	30		67	32,931	1		4	204	205	201	0.90		0.91	53,966	0	121,000	12,466	0	3,993	230.47	230.55	121,000	12,466	3,993	16,459	2

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (10/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria for Hydro (1000 m <sup>3</sup> )	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1994	1	10	72,873		673,806	436.5	15	9	0	101,412	30	123	140	101,412	1	11	16	205	194	189	0.90	0.91	0.91	54,283	212,726	237,734	8,143	19,145	21,396	230.47	231.00	450,460	8,143	13,514	48,684	1
1994	1	10	72,873		695,595	436.3	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,246	212,495	237,483	11,392	6,375	7,124	230.47	231.00	449,979	11,392	13,499	24,891	1
1994	1	11	80,160		673,429	436.3	16	8	0	102,326	30	123	140	102,326	1	11	16	205	194	189	0.90	0.91	0.91	54,244	212,482	237,469	9,547	18,698	20,897	230.47	231.00	449,952	9,547	14,848	49,143	1
1994	2	10	56,431		678,776	435.9	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,152	211,898	236,835	11,372	6,357	7,105	230.47	231.00	448,732	11,372	13,462	24,834	1
1994	2	10	56,431		684,123	436.2	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,211	212,271	237,239	11,384	6,368	7,117	230.47	231.00	449,511	11,384	13,485	24,870	1
1994	2	8	45,145		688,401	436.4	21	3	0	40,867	30	123	140	40,867	1	11	16	205	194	189	0.90	0.91	0.91	54,263	212,602	237,600	9,116	5,102	5,702	230.47	231.00	450,202	9,116	10,805	19,921	1
1994	3	10	13,053		650,370	435.6	21	3	0	51,084	30	123	140	51,084	1	11	16	205	193	188	0.90	0.91	0.91	54,078	211,420	236,320	11,356	6,343	7,090	230.47	231.00	447,740	11,356	13,432	24,789	1
1994	3	10	13,053		612,390	433.9	21	3	0	51,033	30	123	140	51,033	1	10	16	203	193	187	0.90	0.90	0.91	53,574	209,468	234,563	11,251	6,284	7,037	230.47	231.00	444,031	11,251	13,321	24,571	1
1994	3	11	14,359		593,687	432.6	21	3	0	33,062	30			33,062	1		4	201	202	198	0.90		0.91	53,165		121,000	12,281	0	3,993	230.47	230.56	121,000	12,281	3,993	16,274	2
1994	4	10	13,559		577,149	431.8	21	3	0	30,097	30			30,097	1		4	201	201	197	0.90		0.91	52,911		121,000	11,111	0	3,630	230.47	230.56	121,000	11,111	3,630	14,741	2
1994	4	10	13,559		560,571	431.0	21	3	0	30,137	30			30,137	1		4	200	200	197	0.90		0.91	52,672		121,000	11,061	0	3,630	230.47	230.56	121,000	11,061	3,630	14,691	2
1994	4	10	13,559		543,951	430.3	21	3	0	30,179	30			30,179	1		4	199	200	196	0.89		0.91	52,434		121,000	11,011	0	3,630	230.47	230.56	121,000	11,011	3,630	14,641	2
1994	5	10	13,931		527,659	429.4	21	3	0	30,224	30			30,224	1		4	198	199	195	0.89		0.91	52,154		120,954	10,952	0	3,629	230.47	230.56	120,954	10,952	3,629	14,581	2
1994	5	10	13,931		511,391	428.4	21	3	0	30,199	30			30,199	1		4	197	198	194	0.89		0.91	51,857		119,973	10,890	0	3,599	230.47	230.56	119,973	10,890	3,599	14,489	2
1994	5	11	15,325		493,525	427.4	21	3	0	33,190	30			33,190	1		4	196	197	193	0.89		0.91	51,545		118,944	11,907	0	3,925	230.47	230.56	118,944	11,907	3,925	15,832	2
1994	6	10	12,112		475,492	426.4	21	3	0	30,146	30			30,146	1		4	195	196	192	0.89		0.91	51,217		117,865	10,756	0	3,536	230.47	230.56	117,865	10,756	3,536	14,292	2
1994	6	10	12,112		457,485	425.3	21	3	0	30,118	30			30,118	1		4	194	195	191	0.89		0.90	50,889		116,783	10,687	0	3,503	230.47	230.56	116,783	10,687	3,503	14,190	2
1994	6	10	12,112		439,506	424.3	21	3	0	30,091	30			30,091	1		4	193	194	190	0.89		0.90	50,562		115,706	10,618	0	3,471	230.47	230.56	115,706	10,618	3,471	14,089	2
1994	7	10	11,772		421,214	423.2	21	3	0	30,064	30			30,064	1		4	192	193	189	0.89		0.90	50,233		114,625	10,549	0	3,439	230.47	230.56	114,625	10,549	3,439	13,988	2
1994	7	10	11,772		407,066	422.3	24	0	0	25,920	30			25,920	1			191	192	192	0.89			49,939		0	11,985	0	0	230.47		49,939	11,985	0	11,985	3
1994	7	11	12,949		391,503	421.4	24	0	0	28,512	30			28,512	1			190	191	191	0.89			49,671		0	13,113	0	0	230.47		49,671	13,113	0	13,113	3
1994	8	10	33,128		398,711	421.2	24	0	0	25,920	30			25,920	1			190	191	191	0.89			49,595		0	11,903	0	0	230.47		49,595	11,903	0	11,903	3
1994	8	10	33,128		405,919	421.6	24	0	0	25,920	30			25,920	1			191	191	191	0.89			49,725		0	11,934	0	0	230.47		49,725	11,934	0	11,934	3
1994	8	11	36,441		413,848	422.0	24	0	0	28,512	30			28,512	1			191	192	192	0.89			49,862		0	13,164	0	0	230.47		49,862	13,164	0	13,164	3
1994	9	10	32,028		419,955	422.5	24	0	0	25,920	30			25,920	1			191	192	192	0.89			49,989		0	11,997	0	0	230.47		49,989	11,997	0	11,997	3
1994	9	10	32,028		426,063	422.8	24	0	0	25,920	30			25,920	1			192	192	192	0.89			50,100		0	12,024	0	0	230.47		50,100	12,024	0	12,024	3
1994	9	10	32,028		432,171	423.2	24	0	0	25,920	30			25,920	1			192	193	193	0.89			50,211		0	12,051	0	0	230.47		50,211	12,051	0	12,051	3
1994	10	10	99,341	1,629	503,963	425.4	24	0	0	25,920	30			25,920	1			194	195	195	0.89			50,918		0	12,220	0	0	230.47		50,918	12,220	0	12,220	3
1994	10	10	99,341	1,629	575,755	429.6	24	0	0	25,920	30			25,920	1			199	199	199	0.89			52,229		0	12,535	0	0	230.47		52,229	12,535	0	12,535	3
1994	10	11	109,275	1,792	650,201	433.0	21	3	0	33,037	30		68	33,037	1		4	202	202	199	0.90		0.91	53,308		121,000	12,314	0	3,993	230.47	230.56	121,000	12,314	3,993	16,307	2
1994	11	10	137,166		652,446	434.8	11	13	0	134,920	30	123	140	134,920	1	11	16	204	192	187	0.90	0.90	0.91	53,863	209,986	234,900	5,925	27,298	30,537	230.47	231.00	444,886	5,925	13,347	63,760	1
1994	11	10	137,166		654,671	434.9	11	13	0	134,940	30	123	140	134,940	1	11	16	204	193	187	0.90	0.90	0.91	53,895	210,201	235,078	5,928	27,326	30,560	230.47	231.00	445,280	5,928	13,358	63,815	1
1994	11	10	137,166		648,529	434.8	10	14	0	143,308	30	123	140	143,308	1	11	16	204	192	187	0.90	0.90	0.91	53,867	210,013	234,922	5,387	29,402	32,889	230.47	231.00	444,935	5,387	13,348	67,678	1
1994	12	10	76,689		674,134	435.2	21	3	0	51,084	30	123	140	51,084	1	11	16	204	193	188	0.90	0.91	0.91	53,990	210,836	235,693	11,338	6,325	7,071	230.47	231.00	446,529	11,338	13,396	24,734	1
1994	12	10	76,689		699,739	436.4	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,271	212,648	237,650	11,397	6,379	7,129	230.47	231.00	450,298	11,397	13,509	24,906	1
1994	12	11	84,358		663,316	436.2	14	10	0	120,780	30	123	140	120,780	1	11	16	205	194	189	0.90	0.91	0.91	54,211	212,277	237,245	8,349	23,350	26,097	230.47	231.00	449,522	8,349	14,834	57,796	1

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (11/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m³)	Spillover or Sand flushing (1000 m³)	Victoria Storage (1000 m³)	WL (m)	Generation Hours		Spill (1000 m³)	Power Discharge				Total Release (1000 m³)	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria for Hydro (1000 m³)	Q for existing base (m³/s)	Q for existing peak (m³/s)	Q for Expansion units (m³/s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1995	1	10	28,237		640,479	434.8	21	3	0	51,075	30	123	140	51,075	1	11	16	204	192	187	0.90	0.90	0.91	53,871	210,041	234,946	11,313	6,301	7,048	230.47	231.00	444,987	11,313	13,350	24,663	1
1995	1	10	28,237		638,739	434.2	21	3	0	29,977	30		68	29,977	1		4	203	204	200	0.90		0.91	53,693	0	121,000	11,276	0	3,630	230.47	230.55	121,000	11,276	3,630	14,906	2
1995	1	11	31,061		636,821	434.2	21	3	0	32,979	30		68	32,979	1		4	203	204	200	0.90		0.91	53,667	0	121,000	12,397	0	3,993	230.47	230.55	121,000	12,397	3,993	16,390	2
1995	2	10	27,036		633,871	434.0	21	3	0	29,986	30		68	29,986	1		4	203	203	200	0.90		0.91	53,631	0	121,000	11,263	0	3,630	230.47	230.55	121,000	11,263	3,630	14,893	2
1995	2	10	27,036		630,914	433.9	21	3	0	29,992	30		68	29,992	1		4	203	203	200	0.90		0.91	53,589	0	121,000	11,254	0	3,630	230.47	230.55	121,000	11,254	3,630	14,884	2
1995	2	8	21,629		628,545	433.8	21	3	0	23,998	30		68	23,998	1		4	203	203	200	0.90		0.91	53,550	0	121,000	8,996	0	2,904	230.47	230.55	121,000	8,996	2,904	11,900	2
1995	3	10	11,602		610,127	433.3	21	3	0	30,020	30		68	30,020	1		4	202	203	199	0.90		0.91	53,400	0	121,000	11,214	0	3,630	230.47	230.56	121,000	11,214	3,630	14,844	2
1995	3	10	11,602		591,667	432.5	21	3	0	30,061	30		68	30,061	1		4	201	202	198	0.90		0.91	53,134	0	121,000	11,158	0	3,630	230.47	230.56	121,000	11,158	3,630	14,788	2
1995	3	11	12,762		571,312	431.6	21	3	0	33,117	30		69	33,117	1		4	201	201	197	0.90		0.91	52,854	0	121,000	12,209	0	3,993	230.47	230.56	121,000	12,209	3,993	16,202	2
1995	4	10	40,779		581,973	431.4	21	3	0	30,118	30		69	30,118	1		4	200	201	197	0.90		0.91	52,784	0	121,000	11,085	0	3,630	230.47	230.56	121,000	11,085	3,630	14,715	2
1995	4	10	40,779		592,659	431.9	21	3	0	30,092	30		69	30,092	1		4	201	201	198	0.90		0.91	52,938	0	121,000	11,117	0	3,630	230.47	230.56	121,000	11,117	3,630	14,747	2
1995	4	10	40,779		603,370	432.3	21	3	0	30,067	30		68	30,067	1		4	201	202	198	0.90		0.91	53,092	0	121,000	11,149	0	3,630	230.47	230.56	121,000	11,149	3,630	14,779	2
1995	5	10	108,084		681,483	434.4	21	3	0	29,971	30		68	29,971	1		4	203	204	200	0.90		0.91	53,734	0	121,000	11,284	0	3,630	230.47	230.55	121,000	11,284	3,630	14,914	2
1995	5	10	108,084		654,603	435.5	11	13	0	134,964	30	123	140	134,964	1	11	16	204	193	188	0.90	0.91	0.91	54,063	211,324	236,216	5,947	27,472	30,708	230.47	231.00	447,540	5,947	13,426	64,127	1
1995	5	11	118,893		680,396	435.5	17	7	0	93,100	30	123	140	93,100	1	11	16	204	193	188	0.90	0.91	0.91	54,058	211,285	236,174	10,109	16,269	18,185	230.47	231.00	447,459	10,109	14,766	44,563	1
1995	6	10	81,378		693,914	436.4	19	5	0	67,860	30	123	140	67,860	1	11	16	205	194	189	0.90	0.91	0.91	54,273	212,663	237,666	10,312	10,633	11,883	230.47	231.00	450,329	10,312	13,510	32,828	1
1995	6	10	81,378		673,880	436.3	15	9	0	101,412	30	123	140	101,412	1	11	16	205	194	189	0.90	0.91	0.91	54,237	212,440	237,423	8,136	19,120	21,368	230.47	231.00	449,863	8,136	13,496	48,623	1
1995	6	10	81,378		704,174	436.5	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,294	212,790	237,805	11,402	6,384	7,134	230.47	231.00	450,595	11,402	13,518	24,920	1
1995	7	10	24,996		678,086	436.6	21	3	0	51,084	30	123	140	51,084	1	11	16	206	195	190	0.90	0.91	0.91	54,317	212,932	237,960	11,407	6,388	7,139	230.47	231.00	450,893	11,407	13,527	24,933	1
1995	7	10	24,996		651,999	435.4	21	3	0	51,084	30	123	140	51,084	1	11	16	204	193	188	0.90	0.91	0.91	54,031	211,107	235,983	11,346	6,333	7,079	230.47	231.00	447,090	11,346	13,413	24,759	1
1995	7	11	27,496		623,344	434.2	21	3	0	56,150	30	123	140	56,150	1	10	16	203	193	188	0.90	0.90	0.91	53,665	210,008	235,004	12,397	6,930	7,755	230.47	231.00	445,012	12,397	14,685	27,082	1
1995	8	10	30,868		624,202	433.5	21	3	0	30,010	30		68	30,010	1		4	202	203	199	0.90		0.91	53,464	0	121,000	11,227	0	3,630	230.47	230.56	121,000	11,227	3,630	14,857	2
1995	8	10	30,868		625,062	433.6	21	3	0	30,008	30		68	30,008	1		4	202	203	199	0.90		0.91	53,477	0	121,000	11,230	0	3,630	230.47	230.56	121,000	11,230	3,630	14,860	2
1995	8	11	33,955		626,009	433.6	21	3	0	33,007	30		68	33,007	1		4	203	203	199	0.90		0.91	53,490	0	121,000	12,356	0	3,993	230.47	230.56	121,000	12,356	3,993	16,349	2
1995	9	10	52,334		648,361	434.1	21	3	0	29,982	30		68	29,982	1		4	203	204	200	0.90		0.91	53,658	0	121,000	11,268	0	3,630	230.47	230.55	121,000	11,268	3,630	14,898	2
1995	9	10	52,334		649,626	434.7	21	3	0	51,069	30	123	140	51,069	1	11	16	204	192	187	0.90	0.90	0.91	53,829	209,762	234,713	11,304	6,293	7,041	230.47	231.00	444,475	11,304	13,334	24,638	1
1995	9	10	52,334		650,888	434.7	21	3	0	51,072	30	123	140	51,072	1	11	16	204	192	187	0.90	0.90	0.91	53,847	209,884	234,815	11,308	6,297	7,044	230.47	231.00	444,698	11,308	13,341	24,649	1
1995	10	10	93,884	1,629	692,058	435.7	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	188	0.90	0.91	0.91	54,101	211,570	236,481	11,361	6,347	7,094	230.47	231.00	448,050	11,361	13,442	24,803	1
1995	10	10	93,884	1,629	657,737	435.9	12	12	0	126,576	30	123	140	126,576	1	11	16	205	194	189	0.90	0.91	0.91	54,139	211,813	236,743	6,497	25,418	28,409	230.47	231.00	448,556	6,497	13,457	60,323	1
1995	10	11	103,272	1,792	703,025	436.1	21	3	0	56,192	30	123	140	56,192	1	11	16	205	194	189	0.90	0.91	0.91	54,199	212,197	237,159	12,520	7,002	7,826	230.47	231.00	449,356	12,520	14,829	27,349	1
1995	11	10	92,523		643,807	435.8	9	15	0	151,740	30	123	140	151,740	1	11	16	205	194	189	0.90	0.91	0.91	54,122	211,708	236,630	4,871	31,756	35,494	230.47	231.00	448,337	4,871	13,450	72,122	1
1995	11	10	92,523		685,246	435.4	21	3	0	51,084	30	123	140	51,084	1	11	16	204	193	188	0.90	0.91	0.91	54,025	211,069	235,943	11,345	6,332	7,078	230.47	231.00	447,012	11,345	13,410	24,756	1
1995	11	10	92,523		667,969	435.9	14	10	0	109,800	30	123	140	109,800	1	11	16	205	194	189	0.90	0.91	0.91	54,157	211,933	236,873	7,582	21,193	23,687	230.47	231.00	448,806	7,582	13,464	52,463	1
1995	12	10	24,339		641,227	434.9	21	3	0	51,081	30	123	140	51,081	1	11	16	204	193	188	0.90	0.90	0.91	53,910	210,302	235,161	11,321	6,309	7,055	230.47	231.00	445,463	11,321	13,364	24,685	1
1995	12	10	24,339		635,586	434.2	21	3	0	29,980	30		68	29,980	1		4	203	204	200	0.90		0.91	53,676	0	121,000	11,272	0	3,630	230.47	230.55	121,000	11,272	3,630	14,902	2
1995	12	11	26,773		629,368</																															

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (12/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1996	1	10	15,710		615,064	433.4	21	3	0	30,014	30		68	30,014	1		4	202	203	199	0.90		0.91	53,442	0	121,000	11,223	0	3,630	230.47	230.56	121,000	11,223	3,630	14,853	2
1996	1	10	15,710		600,729	432.8	21	3	0	30,045	30		68	30,045	1		4	202	202	199	0.90		0.91	53,235	0	121,000	11,179	0	3,630	230.47	230.56	121,000	11,179	3,630	14,809	2
1996	1	11	17,281		584,922	432.1	21	3	0	33,087	30		69	33,087	1		4	201	202	198	0.90		0.91	53,017	0	121,000	12,247	0	3,993	230.47	230.56	121,000	12,247	3,993	16,240	2
1996	2	10	15,323		570,129	431.4	21	3	0	30,116	30		69	30,116	1		4	200	201	197	0.90		0.91	52,797	0	121,000	11,087	0	3,630	230.47	230.56	121,000	11,087	3,630	14,717	2
1996	2	10	15,323		559,531	430.8	24	0	0	25,920	30			25,920	1			200	200	200	0.89			52,614	0	0	12,627	0	0	230.47		52,614	12,627	0	12,627	3
1996	2	9	13,790		549,994	430.4	24	0	0	23,328	30			23,328	1			199	200	200	0.89			52,470	0	0	11,333	0	0	230.47		52,470	11,333	0	11,333	3
1996	3	10	7,773		527,549	429.5	21	3	0	30,218	30		70	30,218	1		4	198	199	195	0.89		0.91	52,209	0	121,000	10,964	0	3,630	230.47	230.56	121,000	10,964	3,630	14,594	2
1996	3	10	7,773		505,127	428.2	21	3	0	30,194	30		70	30,194	1		4	197	198	194	0.89		0.91	51,798	0	119,781	10,878	0	3,593	230.47	230.56	119,781	10,878	3,593	14,471	2
1996	3	11	8,550		485,165	427.0	24	0	0	28,512	30			28,512	1			196	197	197	0.89			51,411	0	0	13,573	0	0	230.47		51,411	13,573	0	13,573	3
1996	4	10	34,968		494,213	426.7	24	0	0	25,920	30			25,920	1			196	196	196	0.89			51,312	0	0	12,315	0	0	230.47		51,312	12,315	0	12,315	3
1996	4	10	34,968		503,261	427.2	24	0	0	25,920	30			25,920	1			196	197	197	0.89			51,477	0	0	12,354	0	0	230.47		51,477	12,354	0	12,354	3
1996	4	10	34,968		512,309	427.7	24	0	0	25,920	30			25,920	1			197	197	197	0.89			51,642	0	0	12,394	0	0	230.47		51,642	12,394	0	12,394	3
1996	5	10	7,739		489,877	427.4	21	3	0	30,171	30		69	30,171	1		4	196	197	193	0.89		0.91	51,520	0	118,862	10,819	0	3,566	230.47	230.56	118,862	10,819	3,566	14,385	2
1996	5	10	7,739		467,479	426.0	21	3	0	30,137	30		69	30,137	1		4	195	195	192	0.89		0.91	51,111	0	117,515	10,733	0	3,525	230.47	230.56	117,515	10,733	3,525	14,259	2
1996	5	11	8,513		447,480	424.8	24	0	0	28,512	30			28,512	1			194	194	194	0.89			50,725	0	0	13,391	0	0	230.47		50,725	13,391	0	13,391	3
1996	6	10	30,206		447,597	424.2	21	3	0	30,090	30		69	30,090	1		4	193	194	190	0.89		0.90	50,545	0	115,649	10,614	0	3,469	230.47	230.56	115,649	10,614	3,469	14,084	2
1996	6	10	30,206		447,713	424.2	21	3	0	30,090	30		69	30,090	1		4	193	194	190	0.89		0.90	50,547	0	115,656	10,615	0	3,470	230.47	230.56	115,656	10,615	3,470	14,085	2
1996	6	10	30,206		447,830	424.2	21	3	0	30,090	30		69	30,090	1		4	193	194	190	0.89		0.90	50,549	0	115,663	10,615	0	3,470	230.47	230.56	115,663	10,615	3,470	14,085	2
1996	7	10	33,251		450,988	424.3	21	3	0	30,093	30		69	30,093	1		4	193	194	190	0.89		0.90	50,579	0	115,761	10,622	0	3,473	230.47	230.56	115,761	10,622	3,473	14,094	2
1996	7	10	33,251		454,141	424.5	21	3	0	30,097	30		69	30,097	1		4	193	194	190	0.89		0.90	50,636	0	115,950	10,634	0	3,478	230.47	230.56	115,950	10,634	3,478	14,112	2
1996	7	11	36,576		457,604	424.7	21	3	0	33,113	30		69	33,113	1		4	194	194	190	0.89		0.90	50,696	0	116,149	11,711	0	3,833	230.47	230.56	116,149	11,711	3,833	15,544	2
1996	8	10	37,352		469,036	425.2	24	0	0	25,920	30			25,920	1			194	195	195	0.89			50,832	0	0	12,200	0	0	230.47		50,832	12,200	0	12,200	3
1996	8	10	37,352		480,468	425.8	24	0	0	25,920	30			25,920	1			195	195	195	0.89			51,040	0	0	12,249	0	0	230.47		51,040	12,249	0	12,249	3
1996	8	11	41,087		493,043	426.5	24	0	0	28,512	30			28,512	1			195	196	196	0.89			51,258	0	0	13,532	0	0	230.47		51,258	13,532	0	13,532	3
1996	9	10	76,420		543,543	428.4	24	0	0	25,920	30			25,920	1			197	198	198	0.89			51,834	0	0	12,440	0	0	230.47		51,834	12,440	0	12,440	3
1996	9	10	76,420		594,042	431.0	24	0	0	25,920	30			25,920	1			200	201	201	0.90			52,671	0	0	12,641	0	0	230.47		52,671	12,641	0	12,641	3
1996	9	10	76,420		640,438	433.2	21	3	0	30,024	30		68	30,024	1		4	202	203	199	0.90		0.91	53,370	0	121,000	11,208	0	3,630	230.47	230.56	121,000	11,208	3,630	14,838	2
1996	10	10	99,737	1,629	708,638	435.8	21	3	0	29,908	30		67	29,908	1		4	205	205	202	0.90		0.91	54,135	0	121,000	11,368	0	3,630	230.47	230.55	121,000	11,368	3,630	14,998	2
1996	10	10	99,737	1,629	621,454	435.4	5	19	0	185,292	30	123	140	185,292	1	11	16	204	193	188	0.90	0.91	0.91	54,031	211,107	235,983	2,702	40,110	44,837	230.47	231.00	447,090	2,702	13,413	87,649	1
1996	10	11	109,711	1,792	696,441	435.1	21	3	0	32,932	30		67	32,932	1		4	204	205	201	0.90		0.91	53,964	0	121,000	12,466	0	3,993	230.47	230.55	121,000	12,466	3,993	16,459	2
1996	11	10	43,468		688,825	436.7	21	3	0	51,084	30	123	140	51,084	1	11	16	206	195	190	0.90	0.91	0.91	54,333	213,034	238,071	11,410	6,391	7,142	230.47	231.00	451,104	11,410	13,533	24,943	1
1996	11	10	43,468		681,209	436.3	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,250	212,517	237,507	11,392	6,376	7,125	230.47	231.00	450,024	11,392	13,501	24,893	1
1996	11	10	43,468		673,593	436.0	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,166	211,989	236,933	11,375	6,360	7,108	230.47	231.00	448,922	11,375	13,468	24,843	1
1996	12	10	30,995		653,504	435.3	21	3	0	51,084	30	123	140	51,084	1	11	16	204	193	188	0.90	0.91	0.91	54,014	210,998	235,867	11,343	6,330	7,076	230.47	231.00	446,865	11,343	13,406	24,749	1
1996	12	10	30,995		633,442	434.4	21	3	0	51,058	30	123	140	51,058	1	10	16	203	193	188	0.90	0.90	0.91	53,749	210,507	235,406	11,287	6,315	7,062	230.47	231.00	445,913	11,287	13,377	24,665	1
1996	12	11	34,095		634,548	434.0	21	3	0	32,988	30		68	32,988	1		4	203	203	200	0.90		0.91	53,612	0	121,000	12,384	0	3,993	230.47	230.55	121,000	12,384	3,993	16,377	2

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (13/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria for Hydro (1000 m <sup>3</sup> )	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1997	1	10	7,428		611,965	433.5	21	3	0	30,011	30	68	30,011	1		4	202	203	199	0.90		0.91	53,457	0	121,000	11,226	0	3,630	230.47	230.56	121,000	11,226	3,630	14,856	2	
1997	1	10	7,428		589,331	432.5	21	3	0	30,061	30	68	30,061	1		4	201	202	198	0.90	0.91	53,130	0	121,000	11,157	0	3,630	230.47	230.56	121,000	11,157	3,630	14,787	2		
1997	1	11	8,171		564,373	431.4	21	3	0	33,129	30	69	33,129	1		4	200	201	197	0.90	0.91	52,787	0	121,000	12,194	0	3,993	230.47	230.56	121,000	12,194	3,993	16,187	2		
1997	2	10	6,566		545,019	430.4	24	0	0	25,920	30		25,920	1			199	200	200	0.89		52,469	0	0	12,592	0	0	230.47		52,469	12,592	0	12,592	3		
1997	2	10	6,566		525,664	429.3	24	0	0	25,920	30		25,920	1			198	199	199	0.89		52,146	0	0	12,515	0	0	230.47		52,146	12,515	0	12,515	3		
1997	2	8	5,253		510,181	428.3	24	0	0	20,736	30		20,736	1			197	198	198	0.89		51,827	0	0	9,951	0	0	230.47		51,827	9,951	0	9,951	3		
1997	3	10	6,785		491,046	427.3	24	0	0	25,920	30		25,920	1			196	197	197	0.89		51,511	0	0	12,363	0	0	230.47		51,511	12,363	0	12,363	3		
1997	3	10	6,785		471,912	426.2	24	0	0	25,920	30		25,920	1			195	196	196	0.89		51,162	0	0	12,279	0	0	230.47		51,162	12,279	0	12,279	3		
1997	3	11	7,464		450,863	425.0	24	0	0	28,512	30		28,512	1			194	195	195	0.89		50,796	0	0	13,410	0	0	230.47		50,796	13,410	0	13,410	3		
1997	4	10	28,009		452,952	424.5	24	0	0	25,920	30		25,920	1			193	194	194	0.89		50,624	0	0	12,150	0	0	230.47		50,624	12,150	0	12,150	3		
1997	4	10	28,009		455,041	424.6	24	0	0	25,920	30		25,920	1			194	194	194	0.89		50,662	0	0	12,159	0	0	230.47		50,662	12,159	0	12,159	3		
1997	4	10	28,009		457,130	424.7	24	0	0	25,920	30		25,920	1			194	194	194	0.89		50,700	0	0	12,168	0	0	230.47		50,700	12,168	0	12,168	3		
1997	5	10	45,965		477,175	425.4	24	0	0	25,920	30		25,920	1			194	195	195	0.89		50,901	0	0	12,216	0	0	230.47		50,901	12,216	0	12,216	3		
1997	5	10	45,965		492,994	426.4	21	3	0	30,147	30	69	30,147	1		4	195	196	192	0.89	0.91	51,228	0	117,900	10,758	0	3,537	230.47	230.56	117,900	10,758	3,537	14,295	2		
1997	5	11	50,562		510,367	427.4	21	3	0	33,189	30	69	33,189	1		4	196	197	193	0.89	0.91	51,531	0	118,898	11,904	0	3,924	230.47	230.56	118,898	11,904	3,924	15,827	2		
1997	6	10	13,571		493,766	427.4	21	3	0	30,172	30	69	30,172	1		4	196	197	193	0.89	0.91	51,538	0	118,921	10,823	0	3,568	230.47	230.56	118,921	10,823	3,568	14,391	2		
1997	6	10	13,571		477,190	426.4	21	3	0	30,147	30	69	30,147	1		4	195	196	192	0.89	0.91	51,235	0	117,923	10,759	0	3,538	230.47	230.56	117,923	10,759	3,538	14,297	2		
1997	6	10	13,571		460,639	425.5	21	3	0	30,122	30	69	30,122	1		4	194	195	191	0.89	0.90	50,933	0	116,928	10,696	0	3,508	230.47	230.56	116,928	10,696	3,508	14,204	2		
1997	7	10	26,102		456,634	424.9	21	3	0	30,107	30	69	30,107	1		4	194	194	191	0.89	0.90	50,746	0	116,313	10,657	0	3,489	230.47	230.56	116,313	10,657	3,489	14,146	2		
1997	7	10	26,102		452,635	424.6	21	3	0	30,100	30	69	30,100	1		4	194	194	190	0.89	0.90	50,674	0	116,073	10,641	0	3,482	230.47	230.56	116,073	10,641	3,482	14,124	2		
1997	7	11	28,712		448,244	424.4	21	3	0	33,103	30	69	33,103	1		4	193	194	190	0.89	0.90	50,597	0	115,825	11,688	0	3,822	230.47	230.56	115,825	11,688	3,822	15,510	2		
1997	8	10	20,234		442,558	424.1	24	0	0	25,920	30		25,920	1			193	194	194	0.89		50,506	0	0	12,121	0	0	230.47		50,506	12,121	0	12,121	3		
1997	8	10	20,234		436,873	423.8	24	0	0	25,920	30		25,920	1			193	193	193	0.89		50,403	0	0	12,097	0	0	230.47		50,403	12,097	0	12,097	3		
1997	8	11	22,258		430,619	423.4	24	0	0	28,512	30		28,512	1			192	193	193	0.89		50,294	0	0	13,278	0	0	230.47		50,294	13,278	0	13,278	3		
1997	9	10	80,306		485,004	424.8	24	0	0	25,920	30		25,920	1			194	194	194	0.89		50,731	0	0	12,176	0	0	230.47		50,731	12,176	0	12,176	3		
1997	9	10	80,306		539,390	428.0	24	0	0	25,920	30		25,920	1			197	198	198	0.89		51,723	0	0	12,413	0	0	230.47		51,723	12,413	0	12,413	3		
1997	9	10	80,306		593,776	430.9	24	0	0	25,920	30		25,920	1			200	201	201	0.90		52,640	0	0	12,633	0	0	230.47		52,640	12,633	0	12,633	3		
1997	10	10	89,779	1,629	651,914	433.5	21	3	0	30,012	30	68	30,012	1		4	202	203	199	0.90	0.91	53,451	0	121,000	11,225	0	3,630	230.47	230.56	121,000	11,225	3,630	14,855	2		
1997	10	10	89,779	1,629	688,981	435.6	21	3	0	51,084	30	123	140	51,084	1	11	16	205	193	188	0.90	0.91	54,090	211,496	236,402	11,359	6,345	7,092	230.47	231.00	447,898	11,359	13,437	24,796	1	
1997	10	11	98,757	1,792	665,166	436.0	14	10	0	120,780	30	123	140	120,780	1	11	16	205	194	189	0.90	0.91	54,163	211,966	236,908	8,341	23,316	26,060	230.47	231.00	448,874	8,341	14,813	57,717	1	
1997	11	10	125,707		647,521	435.0	10	14	0	143,352	30	123	140	143,352	1	11	16	204	193	188	0.90	0.91	53,935	210,467	235,300	5,393	29,465	32,942	230.47	231.00	445,767	5,393	13,373	67,801	1	
1997	11	10	125,707		680,204	435.3	16	8	0	93,024	30	123	140	93,024	1	11	16	204	193	188	0.90	0.91	54,018	211,021	235,891	8,643	16,882	18,871	230.47	231.00	446,912	8,643	13,407	44,396	1	
1997	11	10	125,707		629,028	434.9	6	18	0	176,884	30	123	140	176,884	1	11	16	204	193	188	0.90	0.90	53,910	210,303	235,163	3,235	37,855	42,329	230.47	231.00	445,466	3,235	13,364	83,418	1	
1997	12	10	85,301		684,386	435.0	21	3	0	29,942	30	67	29,942	1		4	204	204	201	0.90	0.91	53,939	0	121,000	11,327	0	3,630	230.47	230.55	121,000	11,327	3,630	14,957	2		
1997	12	10	85,301		685,051	436.3	17	7	0	84,636	30	123	140	84,636	1	11	16	205	194	189	0.90	0.91	54,247	212,497	237,484	9,222	14,875	16,624	230.47	231.00	449,981	9,222	13,499	40,721	1	
1997	12	11	93,831		676,556	436.1	16	8	0	102,326	30	123	140	102,326	1	11	16	205	194	189	0.90	0.91	54,204	212,226	237,191	9,540	18,676	20,873	230.47	231.00	449,417	9,540	14,831	49,089	1	

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (14/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillout or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria for Hydro (1000 m <sup>3</sup> )	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1998	1	10	37,713		663,185	435.6	21	3	0	51,084	30	123	140	51,084	1	11	16	205	193	188	0.90	0.91	0.91	54,084	211,455	236,357	11,358	6,344	7,091	230.47	231.00	447,812	11,358	13,434	24,792	1
1998	1	10	37,713		649,814	435.0	21	3	0	51,084	30	123	140	51,084	1	11	16	204	193	188	0.90	0.91	0.91	53,937	210,479	235,312	11,327	6,314	7,059	230.47	231.00	445,791	11,327	13,374	24,700	1
1998	1	11	41,484		635,137	434.4	21	3	0	56,161	30	123	140	56,161	1	10	16	203	193	188	0.90	0.90	0.91	53,735	210,421	235,337	12,413	6,944	7,766	230.47	231.00	445,758	12,413	14,710	27,123	1
1998	2	10	14,321		619,455	433.7	21	3	0	30,003	30		68	30,003	1		4	203	203	199	0.90		0.91	53,515	0	121,000	11,238	0	3,630	230.47	230.55	121,000	11,238	3,630	14,868	2
1998	2	10	14,321		603,739	433.0	21	3	0	30,037	30		68	30,037	1		4	202	202	199	0.90		0.91	53,288	0	121,000	11,191	0	3,630	230.47	230.56	121,000	11,191	3,630	14,821	2
1998	2	8	11,457		591,140	432.3	21	3	0	24,055	30		68	24,055	1		4	201	202	198	0.90		0.91	53,084	0	121,000	8,918	0	2,904	230.47	230.56	121,000	8,918	2,904	11,822	2
1998	3	10	10,654		571,688	431.6	21	3	0	30,106	30		69	30,106	1		4	201	201	197	0.90		0.91	52,853	0	121,000	11,099	0	3,630	230.47	230.56	121,000	11,099	3,630	14,729	2
1998	3	10	10,654		552,188	430.7	21	3	0	30,154	30		69	30,154	1		4	200	200	196	0.89		0.91	52,573	0	121,000	11,040	0	3,630	230.47	230.56	121,000	11,040	3,630	14,670	2
1998	3	11	11,719		530,676	429.7	21	3	0	33,231	30		70	33,231	1		4	199	199	195	0.89		0.91	52,258	0	121,000	12,071	0	3,993	230.47	230.56	121,000	12,071	3,993	16,064	2
1998	4	10	6,628		507,106	428.4	21	3	0	30,198	30		70	30,198	1		4	197	198	194	0.89		0.91	51,845	0	119,935	10,887	0	3,598	230.47	230.56	119,935	10,887	3,598	14,485	2
1998	4	10	6,628		487,814	427.1	24	0	0	25,920	30			25,920	1			196	197	197	0.89			51,453	0	0	12,349	0	0	230.47		51,453	12,349	0	12,349	3
1998	4	10	6,628		468,522	426.0	24	0	0	25,920	30			25,920	1			195	196	196	0.89			51,102	0	0	12,264	0	0	230.47		51,102	12,264	0	12,264	3
1998	5	10	11,143		453,746	425.0	24	0	0	25,920	30			25,920	1			194	195	195	0.89			50,792	0	0	12,190	0	0	230.47		50,792	12,190	0	12,190	3
1998	5	10	11,143		438,969	424.2	24	0	0	25,920	30			25,920	1			193	194	194	0.89			50,523	0	0	12,126	0	0	230.47		50,523	12,126	0	12,126	3
1998	5	11	12,258		422,714	423.3	24	0	0	28,512	30			28,512	1			192	193	193	0.89			50,242	0	0	13,264	0	0	230.47		50,242	13,264	0	13,264	3
1998	6	10	20,150		412,820	422.5	21	3	0	30,044	30	68		30,044	1		4	191	192	188	0.89	0.90		50,005	0	113,875	10,501	0	3,416	230.47	230.56	113,875	10,501	3,416	13,917	2
1998	6	10	20,150		407,050	422.0	24	0	0	25,920	30			25,920	1			191	192	192	0.89			49,863	0	0	11,967	0	0	230.47		49,863	11,967	0	11,967	3
1998	6	10	20,150		401,280	421.7	24	0	0	25,920	30			25,920	1			191	191	191	0.89			49,759	0	0	11,942	0	0	230.47		49,759	11,942	0	11,942	3
1998	7	10	39,873		415,232	421.9	24	0	0	25,920	30			25,920	1			191	192	192	0.89			49,833	0	0	11,960	0	0	230.47		49,833	11,960	0	11,960	3
1998	7	10	39,873		429,185	422.8	24	0	0	25,920	30			25,920	1			192	192	192	0.89			50,085	0	0	12,020	0	0	230.47		50,085	12,020	0	12,020	3
1998	7	11	43,860		444,533	423.6	24	0	0	28,512	30			28,512	1			193	193	193	0.89			50,351	0	0	13,293	0	0	230.47		50,351	13,293	0	13,293	3
1998	8	10	40,696		459,309	424.5	24	0	0	25,920	30			25,920	1			193	194	194	0.89			50,624	0	0	12,150	0	0	230.47		50,624	12,150	0	12,150	3
1998	8	10	40,696		474,085	425.3	24	0	0	25,920	30			25,920	1			194	195	195	0.89			50,893	0	0	12,214	0	0	230.47		50,893	12,214	0	12,214	3
1998	8	11	44,765		490,338	426.3	24	0	0	28,512	30			28,512	1			195	196	196	0.89			51,175	0	0	13,510	0	0	230.47		51,175	13,510	0	13,510	3
1998	9	10	52,571		516,989	427.5	24	0	0	25,920	30			25,920	1			196	197	197	0.89			51,567	0	0	12,376	0	0	230.47		51,567	12,376	0	12,376	3
1998	9	10	52,571		543,640	429.1	24	0	0	25,920	30			25,920	1			198	199	199	0.89			52,054	0	0	12,493	0	0	230.47		52,054	12,493	0	12,493	3
1998	9	10	52,571		570,291	430.5	24	0	0	25,920	30			25,920	1			199	200	200	0.89			52,501	0	0	12,600	0	0	230.47		52,501	12,600	0	12,600	3
1998	10	10	66,481	1,629	609,223	432.0	24	0	0	25,920	30			25,920	1			201	202	202	0.90			52,973	0	0	12,714	0	0	230.47		52,973	12,714	0	12,714	3
1998	10	10	66,481	1,629	644,071	433.7	21	3	0	30,004	30	68		30,004	1		4	203	203	199	0.90	0.91		53,506	0	121,000	11,236	0	3,630	230.47	230.56	121,000	11,236	3,630	14,866	2
1998	10	11	73,129	1,792	682,486	435.3	21	3	0	32,922	30	67		32,922	1		4	204	205	201	0.90	0.91		54,011	0	121,000	12,477	0	3,993	230.47	230.55	121,000	12,477	3,993	16,470	2
1998	11	10	34,329		665,731	435.8	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,130	211,757	236,683	11,367	6,353	7,100	230.47	231.00	448,439	11,367	13,453	24,820	1
1998	11	10	34,329		648,977	435.1	21	3	0	51,084	30	123	140	51,084	1	11	16	204	193	188	0.90	0.91	0.91	53,946	210,542	235,380	11,329	6,316	7,061	230.47	231.00	445,922	11,329	13,378	24,706	1
1998	11	10	34,329		632,254	434.3	21	3	0	51,052	30	123	140	51,052	1	10	16	203	193	188	0.90	0.90	0.91	53,708	210,261	235,209	11,279	6,308	7,056	230.47	231.00	445,470	11,279	13,364	24,643	1
1998	12	10	35,273		637,540	434.0	21	3	0	29,987	30		68	29,987	1		4	203	203	200	0.90		0.91	53,625	0	121,000	11,261	0	3,630	230.47	230.55	121,000	11,261	3,630	14,891	2
1998	12	10	35,273		642,837	434.3	21	3	0	29,976	30		68	29,976	1		4	203	204	200	0.90		0.91	53,701	0	121,000	11,277	0	3,630	230.47	230.55	121,000	11,277	3,630	14,907	2
1998	12	11	38,800		625,495	434.0	21	3	0	56,142	30	123	140	56,142	1	10	16	203	193	187	0.90	0.90	0.91	53,614	209,707	234,759	12,385	6,920	7,747	230.47	231.00	444,466	12,385	14,667	27,052	1

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (15/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria for Hydro (1000 m <sup>3</sup> )	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
1999	1	10	78,011		673,549	434.7	21	3	0	29,957	30		67	29,957	1		4	204	204	201	0.90		0.91	53,837	0	121,000	11,306	0	3,630	230.47	230.55	121,000	11,306	3,630	14,936	2
1999	1	10	78,011		700,476	436.4	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,272	212,654	237,655	11,397	6,380	7,130	230.47	231.00	450,309	11,397	13,509	24,906	1
1999	1	11	85,812		656,281	436.0	13	11	0	130,007	30	123	140	130,007	1	11	16	205	194	189	0.90	0.91	0.91	54,177	212,057	237,007	7,747	25,659	28,678	230.47	231.00	449,065	7,747	14,819	62,084	1
1999	2	10	30,541		635,759	434.5	21	3	0	51,063	30	123	140	51,063	1	10	16	203	193	188	0.90	0.90	0.91	53,786	210,726	235,581	11,295	6,322	7,067	230.47	231.00	446,308	11,295	13,389	24,684	1
1999	2	10	30,541		636,316	434.1	21	3	0	29,985	30		68	29,985	1		4	203	204	200	0.90		0.91	53,641	0	121,000	11,265	0	3,630	230.47	230.55	121,000	11,265	3,630	14,895	2
1999	2	8	24,433		636,762	434.1	21	3	0	23,987	30		68	23,987	1		4	203	204	200	0.90		0.91	53,649	0	121,000	9,013	0	2,904	230.47	230.55	121,000	9,013	2,904	11,917	2
1999	3	10	25,128		631,902	434.0	21	3	0	29,988	30		68	29,988	1		4	203	203	200	0.90		0.91	53,617	0	121,000	11,260	0	3,630	230.47	230.55	121,000	11,260	3,630	14,890	2
1999	3	10	25,128		627,032	433.8	21	3	0	29,998	30		68	29,998	1		4	203	203	200	0.90		0.91	53,546	0	121,000	11,245	0	3,630	230.47	230.55	121,000	11,245	3,630	14,875	2
1999	3	11	27,641		621,663	433.5	21	3	0	33,010	30		68	33,010	1		4	202	203	199	0.90		0.91	53,472	0	121,000	12,352	0	3,993	230.47	230.56	121,000	12,352	3,993	16,345	2
1999	4	10	35,399		627,052	433.5	21	3	0	30,009	30		68	30,009	1		4	202	203	199	0.90		0.91	53,473	0	121,000	11,229	0	3,630	230.47	230.56	121,000	11,229	3,630	14,859	2
1999	4	10	35,399		632,454	433.8	21	3	0	29,998	30		68	29,998	1		4	203	203	200	0.90		0.91	53,551	0	121,000	11,246	0	3,630	230.47	230.55	121,000	11,246	3,630	14,876	2
1999	4	10	35,399		637,866	434.0	21	3	0	29,986	30		68	29,986	1		4	203	203	200	0.90		0.91	53,629	0	121,000	11,262	0	3,630	230.47	230.55	121,000	11,262	3,630	14,892	2
1999	5	10	36,682		623,516	433.8	21	3	0	51,031	30	123	140	51,031	1	10	16	203	193	187	0.90	0.90	0.91	53,564	209,408	234,515	11,248	6,282	7,035	230.47	231.00	443,923	11,248	13,318	24,566	1
1999	5	10	36,682		609,196	433.2	21	3	0	51,002	30	122	140	51,002	1	10	16	202	192	187	0.90	0.90	0.91	53,357	208,179	233,491	11,205	6,245	7,005	230.47	231.00	441,670	11,205	13,250	24,455	1
1999	5	11	40,350		616,508	433.0	21	3	0	33,038	30		68	33,038	1		4	202	202	199	0.90		0.91	53,306	0	121,000	12,314	0	3,993	230.47	230.56	121,000	12,314	3,993	16,307	2
1999	6	10	112,000		698,568	435.1	21	3	0	29,941	30		67	29,941	1		4	204	205	201	0.90		0.91	53,948	0	121,000	11,329	0	3,630	230.47	230.55	121,000	11,329	3,630	14,959	2
1999	6	10	112,000		616,888	435.1	4	20	0	193,680	30	123	140	193,680	1	11	16	204	193	188	0.90	0.91	0.91	53,950	210,570	235,409	2,158	42,114	47,082	230.47	231.00	445,979	2,158	13,379	91,354	1
1999	6	10	112,000		698,948	435.1	21	3	0	29,940	30		67	29,940	1		4	204	205	201	0.90		0.91	53,952	0	121,000	11,330	0	3,630	230.47	230.55	121,000	11,330	3,630	14,960	2
1999	7	10	22,024		669,898	436.3	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,243	212,476	237,462	11,391	6,374	7,124	230.47	231.00	449,938	11,391	13,498	24,889	1
1999	7	10	22,024		640,830	435.0	21	3	0	51,082	30	123	140	51,082	1	11	16	204	193	188	0.90	0.90	0.91	53,921	210,375	235,222	11,323	6,311	7,057	230.47	231.00	445,597	11,323	13,368	24,691	1
1999	7	11	24,226		608,935	433.6	21	3	0	56,121	30	122	140	56,121	1	10	16	202	192	187	0.90	0.90	0.91	53,480	208,910	234,103	12,354	6,894	7,725	230.47	231.00	443,013	12,354	14,619	26,973	1
1999	8	10	12,662		591,535	432.4	21	3	0	30,062	30		68	30,062	1		4	201	202	198	0.90		0.91	53,124	0	121,000	11,156	0	3,630	230.47	230.56	121,000	11,156	3,630	14,786	2
1999	8	10	12,662		574,094	431.7	21	3	0	30,103	30		69	30,103	1		4	201	201	197	0.90		0.91	52,873	0	121,000	11,103	0	3,630	230.47	230.56	121,000	11,103	3,630	14,733	2
1999	8	11	13,929		554,860	430.8	21	3	0	33,163	30		69	33,163	1		4	200	200	196	0.89		0.91	52,609	0	121,000	12,153	0	3,993	230.47	230.56	121,000	12,153	3,993	16,146	2
1999	9	10	18,917		547,857	430.2	24	0	0	25,920	30			25,920	1		199	200	200	0.89			52,421	0	0	12,581	0	0	230.47		52,421	12,581	0	12,581	3	
1999	9	10	18,917		540,854	429.9	24	0	0	25,920	30			25,920	1		199	199	199	0.89			52,311	0	0	12,555	0	0	230.47		52,311	12,555	0	12,555	3	
1999	9	10	18,917		533,851	429.5	24	0	0	25,920	30			25,920	1		198	199	199	0.89			52,183	0	0	12,524	0	0	230.47		52,183	12,524	0	12,524	3	
1999	10	10	33,243	1,629	539,545	429.4	24	0	0	25,920	30			25,920	1		198	199	199	0.89			52,171	0	0	12,521	0	0	230.47		52,171	12,521	0	12,521	3	
1999	10	10	33,243	1,629	545,239	429.8	24	0	0	25,920	30			25,920	1		199	199	199	0.89			52,275	0	0	12,546	0	0	230.47		52,275	12,546	0	12,546	3	
1999	10	11	36,568	1,792	551,503	430.1	24	0	0	28,512	30			28,512	1		199	200	200	0.89			52,378	0	0	13,828	0	0	230.47		52,378	13,828	0	13,828	3	
1999	11	10	30,588		556,171	430.3	24	0	0	25,920	30			25,920	1		199	200	200	0.89			52,456	0	0	12,590	0	0	230.47		52,456	12,590	0	12,590	3	
1999	11	10	30,588		560,839	430.5	24	0	0	25,920	30			25,920	1		199	200	200	0.89			52,523	0	0	12,606	0	0	230.47		52,523	12,606	0	12,606	3	
1999	11	10	30,588		565,507	430.8	24	0	0	25,920	30			25,920	1		200	200	200	0.89			52,591	0	0	12,622	0	0	230.47		52,591	12,622	0	12,622	3	
1999	12	10	29,737		569,325	430.9	24	0	0	25,920	30			25,920	1		200	201	201	0.90			52,652	0	0	12,636	0	0	230.47		52,652	12,636	0	12,636	3	
1999	12	10	29,737		573,142	431.1	24	0	0	25,920	30			25,920	1		200	201	201	0.90			52,706	0	0	12,650	0	0	230.47		52,706	12,650	0	12,650	3	
1999	12	11	32,711		577,341	431.3	24	0	0	28,512	30			28,512	1		200	201	201	0.90			52,764	0	0	13,930	0	0	230.47		52,764	13,930	0	13,930	3	

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (16/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
2000	1	10	29,204		576,428	431.4	21	3	0	30,117	30	69	30,117	1		4	200	201	197	0.90	0.91	52,788	0	121,000	11,085	0	3,630	230.47	230.56	121,000	11,085	3,630	14,715	2		
2000	1	10	29,204		575,512	431.3	21	3	0	30,119	30	69	30,119	1		4	200	201	197	0.90	0.91	52,775	0	121,000	11,083	0	3,630	230.47	230.56	121,000	11,083	3,630	14,713	2		
2000	1	11	32,124		574,502	431.3	21	3	0	33,134	30	69	33,134	1		4	200	201	197	0.90	0.91	52,761	0	121,000	12,188	0	3,993	230.47	230.56	121,000	12,188	3,993	16,181	2		
2000	2	10	51,845		596,250	431.8	21	3	0	30,097	30	69	30,097	1		4	201	201	197	0.90	0.91	52,910	0	121,000	11,111	0	3,630	230.47	230.56	121,000	11,111	3,630	14,741	2		
2000	2	10	51,845		618,049	432.8	21	3	0	30,047	30	68	30,047	1		4	202	202	199	0.90	0.91	53,224	0	121,000	11,177	0	3,630	230.47	230.56	121,000	11,177	3,630	14,807	2		
2000	2	9	46,661		637,708	433.7	21	3	0	27,001	30	68	27,001	1		4	203	203	200	0.90	0.91	53,523	0	121,000	10,116	0	3,267	230.47	230.55	121,000	10,116	3,267	13,383	2		
2000	3	10	31,386		639,114	434.2	21	3	0	29,980	30	68	29,980	1		4	203	204	200	0.90	0.91	53,676	0	121,000	11,272	0	3,630	230.47	230.55	121,000	11,272	3,630	14,902	2		
2000	3	10	31,386		619,472	433.8	21	3	0	51,029	30	122	140	51,029	1	10	16	203	193	187	0.90	0.90	53,544	209,288	234,416	11,244	6,279	7,032	230.47	231.00	443,704	11,244	13,311	24,555	1	
2000	3	11	34,524		620,976	433.4	21	3	0	33,020	30	68	33,020	1		4	202	203	199	0.90	0.91	53,413	0	121,000	12,338	0	3,993	230.47	230.56	121,000	12,338	3,993	16,331	2		
2000	4	10	32,006		622,969	433.4	21	3	0	30,014	30	68	30,014	1		4	202	203	199	0.90	0.91	53,438	0	121,000	11,222	0	3,630	230.47	230.56	121,000	11,222	3,630	14,852	2		
2000	4	10	32,006		624,965	433.5	21	3	0	30,010	30	68	30,010	1		4	202	203	199	0.90	0.91	53,467	0	121,000	11,228	0	3,630	230.47	230.56	121,000	11,228	3,630	14,858	2		
2000	4	10	32,006		626,966	433.6	21	3	0	30,006	30	68	30,006	1		4	203	203	199	0.90	0.91	53,496	0	121,000	11,234	0	3,630	230.47	230.56	121,000	11,234	3,630	14,864	2		
2000	5	10	10,887		586,871	432.8	21	3	0	50,983	30	122	140	50,983	1	10	16	202	192	186	0.90	0.90	53,221	207,372	232,803	11,176	6,221	6,984	230.47	231.00	440,175	11,176	13,205	24,382	1	
2000	5	10	10,887		567,642	431.4	21	3	0	30,116	30	69	30,116	1		4	200	201	197	0.90	0.91	52,793	0	121,000	11,087	0	3,630	230.47	230.56	121,000	11,087	3,630	14,717	2		
2000	5	11	11,976		546,434	430.5	21	3	0	33,183	30	69	33,183	1		4	199	200	196	0.89	0.91	52,502	0	121,000	12,128	0	3,993	230.47	230.56	121,000	12,128	3,993	16,121	2		
2000	6	10	23,973		540,204	429.8	21	3	0	30,204	30	70	30,204	1		4	199	199	195	0.89	0.91	52,292	0	121,000	10,981	0	3,630	230.47	230.56	121,000	10,981	3,630	14,611	2		
2000	6	10	23,973		533,954	429.4	21	3	0	30,223	30	70	30,223	1		4	198	199	195	0.89	0.91	52,178	0	121,000	10,957	0	3,630	230.47	230.56	121,000	10,957	3,630	14,587	2		
2000	6	10	23,973		527,712	429.1	21	3	0	30,216	30	70	30,216	1		4	198	199	195	0.89	0.91	52,063	0	120,656	10,933	0	3,620	230.47	230.56	120,656	10,933	3,620	14,553	2		
2000	7	10	15,638		513,150	428.5	21	3	0	30,200	30	70	30,200	1		4	197	198	194	0.89	0.91	51,873	0	120,028	10,893	0	3,601	230.47	230.56	120,028	10,893	3,601	14,494	2		
2000	7	10	15,638		498,610	427.6	21	3	0	30,178	30	69	30,178	1		4	197	197	193	0.89	0.91	51,607	0	119,150	10,838	0	3,575	230.47	230.56	119,150	10,838	3,575	14,412	2		
2000	7	11	17,202		482,641	426.7	21	3	0	33,171	30	69	33,171	1		4	196	196	192	0.89	0.91	51,329	0	118,233	11,857	0	3,902	230.47	230.56	118,233	11,857	3,902	15,759	2		
2000	8	10	54,970		511,691	427.1	24	0	0	25,920	30		25,920	1			196	197	197	0.89		51,448	0	0	12,348	0	0	230.47		51,448	12,348	0	12,348	3		
2000	8	10	54,970		536,456	428.7	21	3	0	30,206	30	70	30,206	1		4	198	198	194	0.89	0.91	51,940	0	120,248	10,907	0	3,607	230.47	230.56	120,248	10,907	3,607	14,515	2		
2000	8	11	60,467		563,720	430.2	21	3	0	33,203	30	69	33,203	1		4	199	200	196	0.89	0.91	52,402	0	121,000	12,105	0	3,993	230.47	230.56	121,000	12,105	3,993	16,098	2		
2000	9	10	31,039		568,840	430.9	24	0	0	25,920	30		25,920	1			200	200	200	0.90		52,635	0	0	12,632	0	0	230.47		52,635	12,632	0	12,632	3		
2000	9	10	31,039		573,959	431.1	24	0	0	25,920	30		25,920	1			200	201	201	0.90		52,709	0	0	12,650	0	0	230.47		52,709	12,650	0	12,650	3		
2000	9	10	31,039		574,875	431.3	21	3	0	30,123	30	69	30,123	1		4	200	201	197	0.90	0.91	52,752	0	121,000	11,078	0	3,630	230.47	230.56	121,000	11,078	3,630	14,708	2		
2000	10	10	42,703	1,629	585,840	431.5	21	3	0	30,109	30	69	30,109	1		4	200	201	197	0.90	0.91	52,838	0	121,000	11,096	0	3,630	230.47	230.56	121,000	11,096	3,630	14,726	2		
2000	10	10	42,703	1,629	596,830	432.0	21	3	0	30,083	30	69	30,083	1		4	201	201	198	0.90	0.91	52,996	0	121,000	11,129	0	3,630	230.47	230.56	121,000	11,129	3,630	14,759	2		
2000	10	11	46,973	1,792	608,949	432.6	21	3	0	33,062	30	68	33,062	1		4	201	202	198	0.90	0.91	53,163	0	121,000	12,281	0	3,993	230.47	230.56	121,000	12,281	3,993	16,274	2		
2000	11	10	35,002		613,914	433.0	21	3	0	30,037	30	68	30,037	1		4	202	202	199	0.90	0.91	53,286	0	121,000	11,190	0	3,630	230.47	230.56	121,000	11,190	3,630	14,820	2		
2000	11	10	35,002		618,889	433.2	21	3	0	30,026	30	68	30,026	1		4	202	203	199	0.90	0.91	53,358	0	121,000	11,205	0	3,630	230.47	230.56	121,000	11,205	3,630	14,835	2		
2000	11	10	35,002		623,875	433.4	21	3	0	30,015	30	68	30,015	1		4	202	203	199	0.90	0.91	53,430	0	121,000	11,220	0	3,630	230.47	230.56	121,000	11,220	3,630	14,850	2		
2000	12	10	32,577		626,445	433.6	21	3	0	30,007	30	68	30,007	1		4	203	203	199	0.90	0.91	53,484	0	121,000	11,232	0	3,630	230.47	230.56	121,000	11,232	3,630	14,862	2		
2000	12	10	32,577		629,021	433.7	21	3	0	30,002	30	68	30,002	1		4	203	203	199	0.90	0.91	53,521	0	121,000	11,239	0	3,630	230.47	230.55	121,000	11,239	3,630	14,869	2		
2000	12	11	35,835		631,860	433.8	21	3	0	32,996	30	68	32,996	1		4	203	203	200	0.90	0.91	53,561	0	121,000	12,372	0	3,993	230.47	230.55	121,000	12,372	3,993	16,365	2		



**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (17/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria Q for Hydro (1000 m <sup>3</sup> /s)	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
2001	1	10	39,973		641,850	434.1	21	3	0	29,983	30		68	29,983	1		4	203	204	200	0.90		0.91	53,653	0	121,000	11,267	0	3,630	230.47	230.55	121,000	11,267	3,630	14,897	2
2001	1	10	39,973		651,860	434.6	21	3	0	29,962	30		67	29,962	1		4	203	204	200	0.90		0.91	53,798	0	121,000	11,298	0	3,630	230.47	230.55	121,000	11,298	3,630	14,928	2
2001	1	11	43,970		639,662	434.5	21	3	0	56,169	30	123	140	56,169	1	10	16	203	193	188	0.90	0.90	0.91	53,782	210,704	235,564	12,424	6,953	7,774	230.47	231.00	446,268	12,424	14,727	27,151	1
2001	2	10	33,248		642,936	434.3	21	3	0	29,974	30		68	29,974	1		4	203	204	200	0.90		0.91	53,718	0	121,000	11,281	0	3,630	230.47	230.55	121,000	11,281	3,630	14,911	2
2001	2	10	33,248		646,217	434.5	21	3	0	29,967	30		67	29,967	1		4	203	204	200	0.90		0.91	53,765	0	121,000	11,291	0	3,630	230.47	230.55	121,000	11,291	3,630	14,921	2
2001	2	8	26,598		631,976	434.2	21	3	0	40,839	30	123	140	40,839	1	10	16	203	193	188	0.90	0.90	0.91	53,686	210,131	235,103	9,019	5,043	5,642	230.47	231.00	445,234	9,019	10,686	19,705	1
2001	3	10	11,557		613,521	433.5	21	3	0	30,013	30		68	30,013	1		4	202	203	199	0.90		0.91	53,449	0	121,000	11,224	0	3,630	230.47	230.56	121,000	11,224	3,630	14,854	2
2001	3	10	11,557		595,025	432.6	21	3	0	30,053	30		68	30,053	1		4	202	202	198	0.90		0.91	53,183	0	121,000	11,168	0	3,630	230.47	230.56	121,000	11,168	3,630	14,798	2
2001	3	11	12,713		574,629	431.7	21	3	0	33,108	30		69	33,108	1		4	201	201	197	0.90		0.91	52,902	0	121,000	12,220	0	3,993	230.47	230.56	121,000	12,220	3,993	16,213	2
2001	4	10	31,707		576,216	431.3	21	3	0	30,121	30		69	30,121	1		4	200	201	197	0.90		0.91	52,767	0	121,000	11,081	0	3,630	230.47	230.56	121,000	11,081	3,630	14,711	2
2001	4	10	31,707		577,806	431.4	21	3	0	30,117	30		69	30,117	1		4	200	201	197	0.90		0.91	52,790	0	121,000	11,086	0	3,630	230.47	230.56	121,000	11,086	3,630	14,716	2
2001	4	10	31,707		579,401	431.5	21	3	0	30,113	30		69	30,113	1		4	200	201	197	0.90		0.91	52,813	0	121,000	11,091	0	3,630	230.47	230.56	121,000	11,091	3,630	14,721	2
2001	5	10	15,552		564,823	431.2	21	3	0	30,129	30		69	30,129	1		4	200	201	197	0.90		0.91	52,719	0	121,000	11,071	0	3,630	230.47	230.56	121,000	11,071	3,630	14,701	2
2001	5	10	15,552		550,210	430.5	21	3	0	30,165	30		69	30,165	1		4	199	200	196	0.89		0.91	52,509	0	121,000	11,027	0	3,630	230.47	230.56	121,000	11,027	3,630	14,657	2
2001	5	11	17,107		534,088	429.7	21	3	0	33,228	30		70	33,228	1		4	199	199	195	0.89		0.91	52,271	0	121,000	12,075	0	3,993	230.47	230.56	121,000	12,075	3,993	16,068	2
2001	6	10	12,657		516,538	428.8	21	3	0	30,208	30		70	30,208	1		4	198	198	194	0.89		0.91	51,962	0	120,322	10,912	0	3,610	230.47	230.56	120,322	10,912	3,610	14,522	2
2001	6	10	12,657		499,014	427.7	21	3	0	30,181	30		69	30,181	1		4	197	197	193	0.89		0.91	51,642	0	119,265	10,845	0	3,578	230.47	230.56	119,265	10,845	3,578	14,423	2
2001	6	10	12,657		481,517	426.7	21	3	0	30,155	30		69	30,155	1		4	196	196	192	0.89		0.91	51,322	0	118,211	10,778	0	3,546	230.47	230.56	118,211	10,778	3,546	14,324	2
2001	7	10	32,476		483,851	426.3	21	3	0	30,143	30		69	30,143	1		4	195	196	192	0.89		0.91	51,184	0	117,756	10,749	0	3,533	230.47	230.56	117,756	10,749	3,533	14,281	2
2001	7	10	32,476		486,180	426.4	21	3	0	30,147	30		69	30,147	1		4	195	196	192	0.89		0.91	51,227	0	117,896	10,758	0	3,537	230.47	230.56	117,896	10,758	3,537	14,294	2
2001	7	11	35,724		488,739	426.6	21	3	0	33,165	30		69	33,165	1		4	195	196	192	0.89		0.91	51,271	0	118,042	11,844	0	3,895	230.47	230.56	118,042	11,844	3,895	15,739	2
2001	8	10	22,735		485,554	426.5	24	0	0	25,920	30		25,920	25,920	1		195	196	196	0.89			51,265	0	0	12,304	0	0	230.47		51,265	12,304	0	12,304	3	
2001	8	10	22,735		482,369	426.4	24	0	0	25,920	30		25,920	25,920	1		195	196	196	0.89			51,207	0	0	12,290	0	0	230.47		51,207	12,290	0	12,290	3	
2001	8	11	25,008		478,865	426.2	24	0	0	28,512	30		28,512	28,512	1		195	196	196	0.89			51,146	0	0	13,503	0	0	230.47		51,146	13,503	0	13,503	3	
2001	9	10	30,238		483,183	426.2	24	0	0	25,920	30		25,920	25,920	1		195	196	196	0.89			51,154	0	0	12,277	0	0	230.47		51,154	12,277	0	12,277	3	
2001	9	10	30,238		487,501	426.4	24	0	0	25,920	30		25,920	25,920	1		195	196	196	0.89			51,232	0	0	12,296	0	0	230.47		51,232	12,296	0	12,296	3	
2001	9	10	30,238		491,819	426.7	24	0	0	25,920	30		25,920	25,920	1		196	196	196	0.89			51,311	0	0	12,315	0	0	230.47		51,311	12,315	0	12,315	3	
2001	10	10	59,352	1,629	523,623	427.7	24	0	0	25,920	30		25,920	25,920	1		197	197	197	0.89			51,641	0	0	12,394	0	0	230.47		51,641	12,394	0	12,394	3	
2001	10	10	59,352	1,629	555,426	429.6	24	0	0	25,920	30		25,920	25,920	1		199	199	199	0.89			52,223	0	0	12,533	0	0	230.47		52,223	12,533	0	12,533	3	
2001	10	11	65,288	1,792	590,410	431.2	24	0	0	28,512	30		28,512	28,512	1		200	201	201	0.90			52,731	0	0	13,921	0	0	230.47		52,731	13,921	0	13,921	3	
2001	11	10	35,227		595,557	432.1	21	3	0	30,079	30		69	30,079	1		4	201	202	198	0.90		0.91	53,020	0	121,000	11,134	0	3,630	230.47	230.56	121,000	11,134	3,630	14,764	2
2001	11	10	35,227		600,717	432.4	21	3	0	30,067	30		68	30,067	1		4	201	202	198	0.90		0.91	53,094	0	121,000	11,150	0	3,630	230.47	230.56	121,000	11,150	3,630	14,780	2
2001	11	10	35,227		605,888	432.6	21	3	0	30,055	30		68	30,055	1		4	202	202	198	0.90		0.91	53,169	0	121,000	11,165	0	3,630	230.47	230.56	121,000	11,165	3,630	14,795	2
2001	12	10	41,612		617,463	433.0	21	3	0	30,037	30		68	30,037	1		4	202	202	199	0.90		0.91	53,289	0	121,000	11,191	0	3,630	230.47	230.56	121,000	11,191	3,630	14,821	2
2001	12	10	41,612		629,064	433.5	21	3	0	30,011	30		68	30,011	1		4	202	203	199	0.90		0.91	53,457	0	121,000	11,226	0	3,630	230.47	230.56	121,000	11,226	3,630	14,856	2
2001	12	11	45,773		641,852	434.1	21	3	0	32,984	30		68	32,984	1		4	203	203	200	0.90		0.91	53,633	0	121,000	12,389	0	3,993	230.47	230.55	121,000	12,389	3,993	16,382	2

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (18/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary					
							t1 base (hours)	t2 peak (hours)		Victoria O for Hydro (1000 m <sup>3</sup> )	O for existing base (m <sup>3</sup> /s)	O for existing peak (m <sup>3</sup> /s)	O for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode	
2002	1	10	20,217		632,087	434.1	21	3	0	29,983	30	68	29,983	1		4	203	204	200	0.90		0.91	53,655	0	121,000	11,268	0	3,630	230.47	230.55	121,000	11,268	3,630	14,898	2		
2002	1	10	20,217		622,302	433.7	21	3	0	30,003	30	68	30,003	1		4	203	203	199	0.90		0.91	53,514	0	121,000	11,238	0	3,630	230.47	230.55	121,000	11,238	3,630	14,868	2		
2002	1	11	22,239		611,513	433.2	21	3	0	33,028	30	68	33,028	1		4	202	203	199	0.90		0.91	53,365	0	121,000	12,327	0	3,993	230.47	230.56	121,000	12,327	3,993	16,320	2		
2002	2	10	11,400		592,854	432.5	21	3	0	30,058	30	68	30,058	1		4	201	202	198	0.90		0.91	53,152	0	121,000	11,162	0	3,630	230.47	230.56	121,000	11,162	3,630	14,792	2		
2002	2	10	11,400		574,153	431.7	21	3	0	30,101	30	69	30,101	1		4	201	201	197	0.90		0.91	52,883	0	121,000	11,105	0	3,630	230.47	230.56	121,000	11,105	3,630	14,735	2		
2002	2	8	9,120		559,158	430.9	21	3	0	24,114	30	69	24,114	1		4	200	200	197	0.90		0.91	52,641	0	121,000	8,844	0	2,904	230.47	230.56	121,000	8,844	2,904	11,748	2		
2002	3	10	7,926		536,895	430.1	21	3	0	30,190	30	70	30,190	1		4	199	200	196	0.89		0.91	52,373	0	121,000	10,998	0	3,630	230.47	230.56	121,000	10,998	3,630	14,628	2		
2002	3	10	7,926		514,613	428.8	21	3	0	30,208	30	70	30,208	1		4	198	198	194	0.89		0.91	51,970	0	120,349	10,914	0	3,610	230.47	230.56	120,349	10,914	3,610	14,524	2		
2002	3	11	8,719		494,820	427.6	24	0	0	28,512	30		28,512	1			196	197	197	0.89			51,586	0	0	13,619	0	0	230.47		51,586	13,619	0	13,619	3		
2002	4	10	49,671		518,571	427.7	24	0	0	25,920	30		25,920	1			197	197	197	0.89			51,622	0	0	12,389	0	0	230.47		51,622	12,389	0	12,389	3		
2002	4	10	49,671		538,030	428.9	21	3	0	30,212	30	70	30,212	1		4	198	198	195	0.89		0.91	52,017	0	120,503	10,924	0	3,615	230.47	230.56	120,503	10,924	3,615	14,539	2		
2002	4	10	49,671		557,511	430.1	21	3	0	30,191	30	70	30,191	1		4	199	199	196	0.89		0.91	52,369	0	121,000	10,998	0	3,630	230.47	230.56	121,000	10,998	3,630	14,628	2		
2002	5	10	31,333		558,680	430.5	21	3	0	30,164	30	69	30,164	1		4	199	200	196	0.89		0.91	52,517	0	121,000	11,029	0	3,630	230.47	230.56	121,000	11,029	3,630	14,659	2		
2002	5	10	31,333		559,852	430.6	21	3	0	30,161	30	69	30,161	1		4	200	200	196	0.89		0.91	52,534	0	121,000	11,032	0	3,630	230.47	230.56	121,000	11,032	3,630	14,662	2		
2002	5	11	34,467		561,145	430.6	21	3	0	33,174	30	69	33,174	1		4	200	200	196	0.89		0.91	52,552	0	121,000	12,140	0	3,993	230.47	230.56	121,000	12,140	3,993	16,133	2		
2002	6	10	27,567		558,553	430.6	21	3	0	30,159	30	69	30,159	1		4	200	200	196	0.89		0.91	52,543	0	121,000	11,034	0	3,630	230.47	230.56	121,000	11,034	3,630	14,664	2		
2002	6	10	27,567		555,955	430.5	21	3	0	30,166	30	69	30,166	1		4	199	200	196	0.89		0.91	52,505	0	121,000	11,026	0	3,630	230.47	230.56	121,000	11,026	3,630	14,656	2		
2002	6	10	27,567		553,349	430.4	21	3	0	30,173	30	69	30,173	1		4	199	200	196	0.89		0.91	52,468	0	121,000	11,018	0	3,630	230.47	230.56	121,000	11,018	3,630	14,648	2		
2002	7	10	12,355		535,504	429.9	21	3	0	30,200	30	70	30,200	1		4	199	199	195	0.89		0.91	52,312	0	121,000	10,986	0	3,630	230.47	230.56	121,000	10,986	3,630	14,616	2		
2002	7	10	12,355		517,650	428.8	21	3	0	30,210	30	70	30,210	1		4	198	198	194	0.89		0.91	51,986	0	120,399	10,917	0	3,612	230.47	230.56	120,399	10,917	3,612	14,529	2		
2002	7	11	13,591		498,042	427.7	21	3	0	33,199	30	69	33,199	1		4	197	197	193	0.89		0.91	51,643	0	119,269	11,930	0	3,936	230.47	230.56	119,269	11,930	3,936	15,865	2		
2002	8	10	25,849		497,971	427.2	24	0	0	25,920	30		25,920	1			196	197	197	0.89			51,463	0	0	12,351	0	0	230.47		51,463	12,351	0	12,351	3		
2002	8	10	25,849		497,900	427.2	24	0	0	25,920	30		25,920	1			196	197	197	0.89			51,462	0	0	12,351	0	0	230.47		51,462	12,351	0	12,351	3		
2002	8	11	28,434		497,822	427.2	24	0	0	28,512	30		28,512	1			196	197	197	0.89			51,461	0	0	13,586	0	0	230.47		51,461	13,586	0	13,586	3		
2002	9	10	30,843		502,744	427.3	24	0	0	25,920	30		25,920	1			196	197	197	0.89			51,505	0	0	12,361	0	0	230.47		51,505	12,361	0	12,361	3		
2002	9	10	30,843		507,667	427.6	24	0	0	25,920	30		25,920	1			197	197	197	0.89			51,595	0	0	12,383	0	0	230.47		51,595	12,383	0	12,383	3		
2002	9	10	30,843		512,589	427.9	24	0	0	25,920	30		25,920	1			197	197	197	0.89			51,685	0	0	12,404	0	0	230.47		51,685	12,404	0	12,404	3		
2002	10	10	29,633	1,629	514,673	428.1	24	0	0	25,920	30		25,920	1			197	198	198	0.89			51,749	0	0	12,420	0	0	230.47		51,749	12,420	0	12,420	3		
2002	10	10	29,633	1,629	516,757	428.2	24	0	0	25,920	30		25,920	1			197	198	198	0.89			51,787	0	0	12,429	0	0	230.47		51,787	12,429	0	12,429	3		
2002	10	11	32,596	1,792	519,050	428.3	24	0	0	28,512	30		28,512	1			197	198	198	0.89			51,827	0	0	13,682	0	0	230.47		51,827	13,682	0	13,682	3		
2002	11	10	61,551		554,680	429.4	24	0	0	25,920	30		25,920	1			198	199	199	0.89			52,174	0	0	12,522	0	0	230.47		52,174	12,522	0	12,522	3		
2002	11	10	61,551		590,311	431.2	24	0	0	25,920	30		25,920	1			200	201	201	0.90			52,725	0	0	12,654	0	0	230.47		52,725	12,654	0	12,654	3		
2002	11	10	61,551		621,813	432.7	21	3	0	30,049	30	68	30,049	1		4	202	202	198	0.90		0.91	53,208	0	121,000	11,174	0	3,630	230.47	230.56	121,000	11,174	3,630	14,804	2		
2002	12	10	46,131		637,946	433.8	21	3	0	29,997	30	68	29,997	1		4	203	203	200	0.90		0.91	53,552	0	121,000	11,246	0	3,630	230.47	230.55	121,000	11,246	3,630	14,876	2		
2002	12	10	46,131		654,113	434.5	21	3	0	29,964	30	67	29,964	1		4	203	204	200	0.90		0.91	53,786	0	121,000	11,295	0	3,630	230.47	230.55	121,000	11,295	3,630	14,925	2		
2002	12	11	50,744		648,676	434.8	21	3	0	56,181	30	123	140	56,181	1		11	16	204	192	187	0.90	0.90	0.91	53,864	209,993	234,906	12,443	6,930	7,752	230.47	231.00	444,899	12,443	14,682	27,124	1

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (19/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary					
							t1 base (hours)	t2 peak (hours)		Victoria for Hydro (1000 m <sup>3</sup> )	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode	
2003	1	10	42,961		640,577	434.5	21	3	0	51,060	30	123	140	51,060	1	10	16	203	193	188	0.90	0.90	0.91	53,766	210,606	235,486	11,291	6,318	7,065	230.47	231.00	446,092	11,291	13,383	24,674	1	
2003	1	10	42,961		653,576	434.6	21	3	0	29,962	30		67	29,962	1			4	204	204	200	0.90		0.91	53,801	0	121,000	11,298	0	3,630	230.47	230.55	121,000	11,298	3,630	14,928	2
2003	1	11	47,257		644,657	434.7	21	3	0	56,176	30	123	140	56,176	1	11	16	204	192	187	0.90	0.90	0.91	53,831	209,774	234,723	12,435	6,923	7,746	230.47	231.00	444,497	12,435	14,668	27,103	1	
2003	2	10	23,124		616,750	433.8	21	3	0	51,031	30	123	140	51,031	1	10	16	203	193	187	0.90	0.90	0.91	53,564	209,410	234,516	11,249	6,282	7,035	230.47	231.00	443,925	11,249	13,318	24,566	1	
2003	2	10	23,124		609,841	433.0	21	3	0	30,033	30		68	30,033	1		4	202	202	199	0.90		0.91	53,313	0	121,000	11,196	0	3,630	230.47	230.56	121,000	11,196	3,630	14,826	2	
2003	2	8	18,499		604,303	432.8	21	3	0	24,038	30		68	24,038	1		4	202	202	199	0.90		0.91	53,223	0	121,000	8,941	0	2,904	230.47	230.56	121,000	8,941	2,904	11,845	2	
2003	3	10	37,129		611,387	432.8	21	3	0	30,045	30		68	30,045	1		4	202	202	199	0.90		0.91	53,234	0	121,000	11,179	0	3,630	230.47	230.56	121,000	11,179	3,630	14,809	2	
2003	3	10	37,129		618,487	433.1	21	3	0	30,030	30		68	30,030	1		4	202	203	199	0.90		0.91	53,337	0	121,000	11,201	0	3,630	230.47	230.56	121,000	11,201	3,630	14,831	2	
2003	3	11	40,842		626,314	433.5	21	3	0	33,015	30		68	33,015	1		4	202	203	199	0.90		0.91	53,444	0	121,000	12,346	0	3,993	230.47	230.56	121,000	12,346	3,993	16,339	2	
2003	4	10	38,232		634,550	433.8	21	3	0	29,996	30		68	29,996	1		4	203	203	200	0.90		0.91	53,560	0	121,000	11,248	0	3,630	230.47	230.55	121,000	11,248	3,630	14,878	2	
2003	4	10	38,232		621,755	433.7	21	3	0	51,026	30	122	140	51,026	1	10	16	203	193	187	0.90	0.90	0.91	53,527	209,191	234,335	11,241	6,276	7,030	230.47	231.00	443,526	11,241	13,306	24,547	1	
2003	4	10	38,232		629,981	433.6	21	3	0	30,006	30		68	30,006	1		4	203	203	199	0.90		0.91	53,494	0	121,000	11,234	0	3,630	230.47	230.56	121,000	11,234	3,630	14,864	2	
2003	5	10	40,726		619,688	433.6	21	3	0	51,019	30	122	140	51,019	1	10	16	202	192	187	0.90	0.90	0.91	53,479	208,906	234,099	11,231	6,267	7,023	230.47	231.00	443,005	11,231	13,290	24,521	1	
2003	5	10	40,726		609,416	433.1	21	3	0	50,998	30	122	140	50,998	1	10	16	202	192	187	0.90	0.90	0.91	53,331	208,025	233,360	11,200	6,241	7,001	230.47	231.00	441,385	11,200	13,242	24,441	1	
2003	5	11	44,799		621,183	433.1	21	3	0	33,032	30		68	33,032	1		4	202	203	199	0.90		0.91	53,342	0	121,000	12,322	0	3,993	230.47	230.56	121,000	12,322	3,993	16,315	2	
2003	6	10	7,742		598,884	432.9	21	3	0	30,040	30		68	30,040	1		4	202	202	199	0.90		0.91	53,266	0	121,000	11,186	0	3,630	230.47	230.56	121,000	11,186	3,630	14,816	2	
2003	6	10	7,742		576,534	431.9	21	3	0	30,091	30		69	30,091	1		4	201	201	198	0.90		0.91	52,944	0	121,000	11,118	0	3,630	230.47	230.56	121,000	11,118	3,630	14,748	2	
2003	6	10	7,742		554,130	430.9	21	3	0	30,146	30		69	30,146	1		4	200	200	196	0.90		0.91	52,622	0	121,000	11,051	0	3,630	230.47	230.56	121,000	11,051	3,630	14,681	2	
2003	7	10	19,969		543,911	430.1	21	3	0	30,187	30		70	30,187	1		4	199	200	196	0.89		0.91	52,387	0	121,000	11,001	0	3,630	230.47	230.56	121,000	11,001	3,630	14,631	2	
2003	7	10	19,969		533,662	429.5	21	3	0	30,218	30		70	30,218	1		4	198	199	195	0.89		0.91	52,209	0	121,000	10,964	0	3,630	230.47	230.56	121,000	10,964	3,630	14,594	2	
2003	7	11	21,966		522,395	428.9	21	3	0	33,233	30		70	33,233	1		4	198	198	194	0.89		0.91	52,012	0	120,486	12,015	0	3,976	230.47	230.56	120,486	12,015	3,976	15,991	2	
2003	8	10	38,715		530,900	428.8	21	3	0	30,210	30		70	30,210	1		4	198	198	194	0.89		0.91	51,987	0	120,403	10,917	0	3,612	230.47	230.56	120,403	10,917	3,612	14,529	2	
2003	8	10	38,715		539,392	429.3	21	3	0	30,223	30		70	30,223	1		4	198	199	195	0.89		0.91	52,142	0	120,916	10,950	0	3,627	230.47	230.56	120,916	10,950	3,627	14,577	2	
2003	8	11	42,586		548,757	429.9	21	3	0	33,222	30		70	33,222	1		4	199	199	195	0.89		0.91	52,306	0	121,000	12,083	0	3,993	230.47	230.56	121,000	12,083	3,993	16,076	2	
2003	9	10	36,456		559,293	430.3	24	0	0	25,920	30			25,920	1			199	200	200	0.89			52,459	0	0	12,590	0	0	230.47		52,459	12,590	0	12,590	3	
2003	9	10	36,456		569,830	430.8	24	0	0	25,920	30			25,920	1			200	200	200	0.89			52,610	0	0	12,627	0	0	230.47		52,610	12,627	0	12,627	3	
2003	9	10	36,456		580,366	431.3	24	0	0	25,920	30			25,920	1			200	201	201	0.90			52,762	0	0	12,663	0	0	230.47		52,762	12,663	0	12,663	3	
2003	10	10	11,857	1,629	560,461	431.1	21	3	0	30,133	30		69	30,133	1		4	200	201	197	0.90		0.91	52,695	0	121,000	11,066	0	3,630	230.47	230.56	121,000	11,066	3,630	14,696	2	
2003	10	10	11,857	1,629	544,769	430.3	24	0	0	25,920	30			25,920	1			199	200	200	0.89			52,439	0	0	12,585	0	0	230.47		52,439	12,585	0	12,585	3	
2003	10	11	13,043	1,792	527,508	429.4	24	0	0	28,512	30			28,512	1			198	199	199	0.89			52,161	0	0	13,770	0	0	230.47		52,161	13,770	0	13,770	3	
2003	11	10	13,918		515,507	428.5	24	0	0	25,920	30			25,920	1			197	198	198	0.89			51,893	0	0	12,454	0	0	230.47		51,893	12,454	0	12,454	3	
2003	11	10	13,918		503,505	427.8	24	0	0	25,920	30			25,920	1			197	197	197	0.89			51,673	0	0	12,402	0	0	230.47		51,673	12,402	0	12,402	3	
2003	11	10	13,918		491,503	427.1	24	0	0	25,920	30			25,920	1			196	197	197	0.89			51,454	0	0	12,349	0	0	230.47		51,454	12,349	0	12,349	3	
2003	12	10	6,448		472,031	426.2	24	0	0	25,920	30			25,920	1			195	196	196	0.89			51,167	0	0	12,280	0	0	230.47		51,167	12,280	0	12,280	3	
2003	12	10	6,448		452,559	425.1	24	0	0	25,920	30			25,920	1			194	195	195	0.89			50,813	0	0	12,195	0	0	230.47		50,813	12,195	0	12,195	3	
2003	12	11	7,093		431,140	423.9	24	0	0	28,512	30			28,512	1			193	194	194	0.89			50,441	0	0	13,317	0	0	230.47		50,441	13,317	0	13,317	3	

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (20/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							t1 base (hours)	t2 peak (hours)		Victoria for Hydro (1000 m <sup>3</sup> )	Q for existing base (m <sup>3</sup> /s)	Q for existing peak (m <sup>3</sup> /s)	Q for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
2004	1	10	8,207		413,427	422.8	24	0	0	25,920	30		25,920	1			192	192	192	0.89				50,087	0	0	12,021	0	0	230.47		50,087	12,021	0	12,021	3
2004	1	10	8,207		395,714	421.7	24	0	0	25,920	30		25,920	1			191	191	191	0.89				49,766	0	0	11,944	0	0	230.47		49,766	11,944	0	11,944	3
2004	1	11	9,027		376,229	420.7	24	0	0	28,512	30		28,512	1			190	190	190	0.89				49,430	0	0	13,050	0	0	230.47		49,430	13,050	0	13,050	3
2004	2	10	5,822		356,131	419.3	24	0	0	25,920	30		25,920	1			188	189	189	0.88				49,018	0	0	11,764	0	0	230.47		49,018	11,764	0	11,764	3
2004	2	10	5,822		336,034	417.7	24	0	0	25,920	30		25,920	1			187	187	187	0.88				48,527	0	0	11,646	0	0	230.47		48,527	11,646	0	11,646	3
2004	2	9	5,240		317,946	416.2	24	0	0	23,328	30		23,328	1			185	186	186	0.88				48,062	0	0	10,381	0	0	230.47		48,062	10,381	0	10,381	3
2004	3	10	7,188		299,214	414.8	24	0	0	25,920	30		25,920	1			184	184	184	0.88				47,614	0	0	11,427	0	0	230.47		47,614	11,427	0	11,427	3
2004	3	10	7,188		280,482	413.3	24	0	0	25,920	30		25,920	1			182	183	183	0.88				47,160	0	0	11,318	0	0	230.47		47,160	11,318	0	11,318	3
2004	3	11	7,907		259,877	411.7	24	0	0	28,512	30		28,512	1			181	181	181	0.88				46,684	0	0	12,325	0	0	230.47		46,684	12,325	0	12,325	3
2004	4	10	22,315		256,273	410.8	24	0	0	25,920	30		25,920	1			180	180	180	0.88				46,392	0	0	11,134	0	0	230.47		46,392	11,134	0	11,134	3
2004	4	10	22,315		252,668	410.5	24	0	0	25,920	30		25,920	1			179	180	180	0.88				46,306	0	0	11,113	0	0	230.47		46,306	11,113	0	11,113	3
2004	4	10	22,315		249,064	410.2	24	0	0	25,920	30		25,920	1			179	180	180	0.88				46,219	0	0	11,092	0	0	230.47		46,219	11,092	0	11,092	3
2004	5	10	28,755		251,899	410.2	24	0	0	25,920	30		25,920	1			179	180	180	0.88				46,209	0	0	11,090	0	0	230.47		46,209	11,090	0	11,090	3
2004	5	10	28,755		254,734	410.4	24	0	0	25,920	30		25,920	1			179	180	180	0.88				46,278	0	0	11,107	0	0	230.47		46,278	11,107	0	11,107	3
2004	5	11	31,631		257,852	410.6	24	0	0	28,512	30		28,512	1			180	180	180	0.88				46,349	0	0	12,236	0	0	230.47		46,349	12,236	0	12,236	3
2004	6	10	44,331		276,263	411.5	24	0	0	25,920	30		25,920	1			180	181	181	0.88				46,609	0	0	11,186	0	0	230.47		46,609	11,186	0	11,186	3
2004	6	10	44,331		294,675	412.9	24	0	0	25,920	30		25,920	1			182	183	183	0.88				47,054	0	0	11,293	0	0	230.47		47,054	11,293	0	11,293	3
2004	6	10	44,331		313,086	414.4	24	0	0	25,920	30		25,920	1			183	184	184	0.88				47,500	0	0	11,400	0	0	230.47		47,500	11,400	0	11,400	3
2004	7	10	41,971		329,137	415.8	24	0	0	25,920	30		25,920	1			185	185	185	0.88				47,919	0	0	11,500	0	0	230.47		47,919	11,500	0	11,500	3
2004	7	10	41,971		345,189	417.0	24	0	0	25,920	30		25,920	1			186	187	187	0.88				48,309	0	0	11,594	0	0	230.47		48,309	11,594	0	11,594	3
2004	7	11	46,168		362,845	418.4	24	0	0	28,512	30		28,512	1			187	188	188	0.88				48,720	0	0	12,862	0	0	230.47		48,720	12,862	0	12,862	3
2004	8	10	30,177		367,102	419.2	24	0	0	25,920	30		25,920	1			188	189	189	0.88				48,988	0	0	11,757	0	0	230.47		48,988	11,757	0	11,757	3
2004	8	10	30,177		371,358	419.6	24	0	0	25,920	30		25,920	1			188	189	189	0.89				49,092	0	0	11,782	0	0	230.47		49,092	11,782	0	11,782	3
2004	8	11	33,194		376,041	419.9	24	0	0	28,512	30		28,512	1			189	190	190	0.89				49,202	0	0	12,989	0	0	230.47		49,202	12,989	0	12,989	3
2004	9	10	34,463		384,584	420.3	24	0	0	25,920	30		25,920	1			189	190	190	0.89				49,328	0	0	11,839	0	0	230.47		49,328	11,839	0	11,839	3
2004	9	10	34,463		393,127	420.8	24	0	0	25,920	30		25,920	1			190	190	190	0.89				49,482	0	0	11,876	0	0	230.47		49,482	11,876	0	11,876	3
2004	9	10	34,463		401,670	421.3	24	0	0	25,920	30		25,920	1			190	191	191	0.89				49,636	0	0	11,913	0	0	230.47		49,636	11,913	0	11,913	3
2004	10	10	51,375	1,629	425,496	422.3	24	0	0	25,920	30		25,920	1			191	192	192	0.89				49,929	0	0	11,983	0	0	230.47		49,929	11,983	0	11,983	3
2004	10	10	51,375	1,629	449,321	423.6	24	0	0	25,920	30		25,920	1			193	193	193	0.89				50,361	0	0	12,087	0	0	230.47		50,361	12,087	0	12,087	3
2004	10	11	56,512	1,792	475,529	425.1	24	0	0	28,512	30		28,512	1			194	195	195	0.89				50,815	0	0	13,415	0	0	230.47		50,815	13,415	0	13,415	3
2004	11	10	50,400		500,009	426.6	24	0	0	25,920	30		25,920	1			195	196	196	0.89				51,277	0	0	12,306	0	0	230.47		51,277	12,306	0	12,306	3
2004	11	10	50,400		524,489	428.0	24	0	0	25,920	30		25,920	1			197	198	198	0.89				51,724	0	0	12,414	0	0	230.47		51,724	12,414	0	12,414	3
2004	11	10	50,400		548,969	429.4	24	0	0	25,920	30		25,920	1			198	199	199	0.89				52,171	0	0	12,521	0	0	230.47		52,171	12,521	0	12,521	3
2004	12	10	74,094		597,143	431.2	24	0	0	25,920	30		25,920	1			200	201	201	0.90				52,733	0	0	12,656	0	0	230.47		52,733	12,656	0	12,656	3
2004	12	10	74,094		641,216	433.3	21	3	0	30,020	30		68	30,020			4	202	203	199	0.90		0.91	53,398	0	121,000	11,214	0	3,630	230.47	230.56	121,000	11,214	3,630	14,844	2
2004	12	11	81,503		689,802	435.4	21	3	0	32,917	30		67	32,917			4	204	205	201	0.90		0.91	54,036	0	121,000	12,482	0	3,993	230.47	230.55	121,000	12,482	3,993	16,475	2

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (21/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary				
							I1 base (hours)	I2 peak (hours)		Victoria O for Hydro (1000 m <sup>3</sup> )	O for existing base (m <sup>3</sup> /s)	O for existing peak (m <sup>3</sup> /s)	O for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode
2005	1	10	24,488		663,205	435.9	21	3	0	51,084	30	123	140	51,084	1	11	16	205	194	189	0.90	0.91	0.91	54,156	211,926	236,865	11,373	6,358	7,106	230.47	231.00	448,791	11,373	13,464	24,837	1
2005	1	10	24,488		636,622	434.7	21	3	0	51,071	30	123	140	51,071	1	11	16	204	192	187	0.90	0.90	0.91	53,842	209,850	234,787	11,307	6,296	7,044	230.47	231.00	444,637	11,307	13,339	24,646	1
2005	1	11	26,936		630,569	434.0	21	3	0	32,989	30		68	32,989	1		4	203	203	200	0.90		0.91	53,606	0	121,000	12,383	0	3,993	230.47	230.55	121,000	12,383	3,993	16,376	2
2005	2	10	24,414		624,981	433.7	21	3	0	30,002	30		68	30,002	1		4	203	203	199	0.90		0.91	53,522	0	121,000	11,240	0	3,630	230.47	230.55	121,000	11,240	3,630	14,870	2
2005	2	10	24,414		619,381	433.4	21	3	0	30,014	30		68	30,014	1		4	202	203	199	0.90		0.91	53,441	0	121,000	11,223	0	3,630	230.47	230.56	121,000	11,223	3,630	14,853	2
2005	2	8	19,531		614,892	433.2	21	3	0	24,020	30		68	24,020	1		4	202	203	199	0.90		0.91	53,368	0	121,000	8,966	0	2,904	230.47	230.56	121,000	8,966	2,904	11,870	2
2005	3	10	9,878		594,718	432.7	21	3	0	30,052	30		68	30,052	1		4	202	202	198	0.90		0.91	53,190	0	121,000	11,170	0	3,630	230.47	230.56	121,000	11,170	3,630	14,800	2
2005	3	10	9,878		574,497	431.7	21	3	0	30,099	30		68	30,099	1		4	201	201	197	0.90		0.91	52,899	0	121,000	11,109	0	3,630	230.47	230.56	121,000	11,109	3,630	14,739	2
2005	3	11	10,865		552,196	430.8	21	3	0	33,166	30		69	33,166	1		4	200	200	196	0.89		0.91	52,593	0	121,000	12,149	0	3,993	230.47	230.56	121,000	12,149	3,993	16,142	2
2005	4	10	12,649		534,642	429.8	21	3	0	30,203	30		70	30,203	1		4	199	199	195	0.89		0.91	52,294	0	121,000	10,982	0	3,630	230.47	230.56	121,000	10,982	3,630	14,612	2
2005	4	10	12,649		517,082	428.8	21	3	0	30,209	30		70	30,209	1		4	198	198	194	0.89		0.91	51,972	0	120,355	10,914	0	3,611	230.47	230.56	120,355	10,914	3,611	14,525	2
2005	4	10	12,649		499,550	427.8	21	3	0	30,182	30		69	30,182	1		4	197	197	193	0.89		0.91	51,652	0	119,297	10,847	0	3,579	230.47	230.56	119,297	10,847	3,579	14,426	2
2005	5	10	13,263		482,657	426.8	21	3	0	30,156	30		69	30,156	1		4	196	196	192	0.89		0.91	51,338	0	118,261	10,781	0	3,548	230.47	230.56	118,261	10,781	3,548	14,329	2
2005	5	10	13,263		465,789	425.8	21	3	0	30,130	30		69	30,130	1		4	195	195	191	0.89		0.90	51,030	0	117,248	10,716	0	3,517	230.47	230.56	117,248	10,716	3,517	14,234	2
2005	5	11	14,589		451,867	424.9	24	0	0	28,512	30			28,512	1			194	194	194	0.89			50,750	0	0	13,398	0	0	230.47		50,750	13,398	0	13,398	3
2005	6	10	13,110		434,893	424.0	21	3	0	30,083	30		69	30,083	1		4	193	193	190	0.89		0.90	50,469	0	115,401	10,599	0	3,462	230.47	230.56	115,401	10,599	3,462	14,061	2
2005	6	10	13,110		417,945	423.0	21	3	0	30,058	30		68	30,058	1		4	192	192	189	0.89		0.90	50,162	0	114,390	10,534	0	3,432	230.47	230.56	114,390	10,534	3,432	13,966	2
2005	6	10	13,110		405,135	422.1	24	0	0	25,920	30			25,920	1			191	192	192	0.89			49,892	0	0	11,974	0	0	230.47		49,892	11,974	0	11,974	3
2005	7	10	15,966		395,181	421.5	24	0	0	25,920	30			25,920	1			190	191	191	0.89			49,686	0	0	11,925	0	0	230.47		49,686	11,925	0	11,925	3
2005	7	10	15,966		385,228	420.9	24	0	0	25,920	30			25,920	1			190	190	190	0.89			49,507	0	0	11,882	0	0	230.47		49,507	11,882	0	11,882	3
2005	7	11	17,563		374,279	420.3	24	0	0	28,512	30			28,512	1			189	190	190	0.89			49,318	0	0	13,020	0	0	230.47		49,318	13,020	0	13,020	3
2005	8	10	11,197		359,556	419.4	24	0	0	25,920	30			25,920	1			188	189	189	0.88			49,036	0	0	11,769	0	0	230.47		49,036	11,769	0	11,769	3
2005	8	10	11,197		344,834	418.2	24	0	0	25,920	30			25,920	1			187	188	188	0.88			48,676	0	0	11,682	0	0	230.47		48,676	11,682	0	11,682	3
2005	8	11	12,317		328,639	417.0	24	0	0	28,512	30			28,512	1			186	187	187	0.88			48,299	0	0	12,751	0	0	230.47		48,299	12,751	0	12,751	3
2005	9	10	53,809		356,528	417.5	24	0	0	25,920	30			25,920	1			186	187	187	0.88			48,441	0	0	11,626	0	0	230.47		48,441	11,626	0	11,626	3
2005	9	10	53,809		384,417	419.7	24	0	0	25,920	30			25,920	1			189	189	189	0.89			49,123	0	0	11,789	0	0	230.47		49,123	11,789	0	11,789	3
2005	9	10	53,809		412,307	421.4	24	0	0	25,920	30			25,920	1			190	191	191	0.89			49,654	0	0	11,917	0	0	230.47		49,654	11,917	0	11,917	3
2005	10	10	39,311	1,629	424,069	422.5	24	0	0	25,920	30			25,920	1			191	192	192	0.89			50,013	0	0	12,003	0	0	230.47		50,013	12,003	0	12,003	3
2005	10	10	39,311	1,629	435,831	423.2	24	0	0	25,920	30			25,920	1			192	193	193	0.89			50,226	0	0	12,054	0	0	230.47		50,226	12,054	0	12,054	3
2005	10	11	43,242	1,792	448,769	423.9	24	0	0	28,512	30			28,512	1			193	194	194	0.89			50,450	0	0	13,319	0	0	230.47		50,450	13,319	0	13,319	3
2005	11	10	98,866		521,715	426.4	24	0	0	25,920	30			25,920	1			195	196	196	0.89			51,231	0	0	12,295	0	0	230.47		51,231	12,295	0	12,295	3
2005	11	10	98,866		594,661	430.5	24	0	0	25,920	30			25,920	1			199	200	200	0.89			52,519	0	0	12,605	0	0	230.47		52,519	12,605	0	12,605	3
2005	11	10	98,866		663,528	433.8	21	3	0	29,999	30		68	29,999	1		4	203	203	200	0.90		0.91	53,541	0	121,000	11,244	0	3,630	230.47	230.55	121,000	11,244	3,630	14,874	2
2005	12	10	51,801		664,245	435.3	21	3	0	51,084	30	123	140	51,084	1	11	16	204	193	188	0.90	0.91	0.91	54,018	211,022	235,893	11,344	6,331	7,077	230.47	231.00	446,916	11,344	13,407	24,751	1
2005	12	10	51,801		664,962	435.4	21	3	0	51,084	30	123	140	51,084	1	11	16	204	193	188	0.90	0.91	0.91	54,026	211,075	235,949	11,345	6,332	7,078	230.47	231.00	447,024	11,345	13,411	24,756	1
2005	12	11	56,981		665,750	435.4	21	3	0	56,192	30	123	140	56,192	1	11	16	204	193	188	0.90	0.91	0.91	54,034	211,129	236,008	12,482	6,967	7,788	230.47	231.00	447,137	12,482	14,756	27,237	1

**Table 3-2 Calculation of Annual Energy with Expansion Plant in Case Used as Base Demand Power Source (22/22)**

Year	Month	Days	Pogolla Release + Residual Basin (1000 m <sup>3</sup> )	Spillover or Sand flushing (1000 m <sup>3</sup> )	Victoria Storage (1000 m <sup>3</sup> )	WL (m)	Generation Hours		Spill (1000 m <sup>3</sup> )	Power Discharge				Total Release (1000 m <sup>3</sup> )	Head Loss (m)			Effective Head (m)			Efficiency			Power Output (kW)			Energy (MWh)			Tail Water Level (EL, m)		Summary					
							t1 base (hours)	t2 peak (hours)		Victoria O for Hydro (1000 m <sup>3</sup> )	O for existing base (m <sup>3</sup> /s)	O for existing peak (m <sup>3</sup> /s)	O for Expansion units (m <sup>3</sup> /s)		Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Existing Base	Existing Peak	Expansion Peak	Base	Peak	Victoria Power Combined (kW)	Victoria Base Energy (MWh)	Victoria Firm Energy (for 3 hrs of peaking hours) (MWh)	Victoria Total Energy (MWh)	Victoria Generation mode	
2006	1	10	53,941		668,607	435.5	21	3	0	51,084	30	123	140	51,084	1	11	16	204	193	188	0.90	0.91	0.91	54,054	211,261	236,149	11,351	6,338	7,084	230.47	231.00	447,411	11,351	13,422	24,774	1	
2006	1	10	53,941		671,464	435.6	21	3	0	51,084	30	123	140	51,084	1	11	16	205	193	188	0.90	0.91	0.91	54,085	211,467	236,370	11,358	6,344	7,091	230.47	231.00	447,837	11,358	13,435	24,793	1	
2006	1	11	59,335		674,606	435.8	21	3	0	56,192	30	123	140	56,192	1	11	16	205	194	189	0.90	0.91	0.91	54,118	211,681	236,600	12,501	6,985	7,808	230.47	231.00	448,281	12,501	14,793	27,295	1	
2006	2	10	27,967		651,489	435.3	21	3	0	51,084	30	123	140	51,084	1	11	16	204	193	188	0.90	0.91	0.91	54,009	210,961	235,827	11,342	6,329	7,075	230.47	231.00	446,789	11,342	13,404	24,745	1	
2006	2	10	27,967		628,405	434.3	21	3	0	51,050	30	123	140	51,050	1	10	16	203	193	188	0.90	0.90	0.91	53,698	210,204	235,162	11,277	6,306	7,055	230.47	231.00	445,366	11,277	13,361	24,638	1	
2006	2	8	22,374		626,777	433.7	21	3	0	24,002	30			24,002	1		4	203	203	199	0.90		0.91	53,519	0	121,000	8,991	0	2,904	230.47	230.55	121,000	8,991	2,904	11,895	2	
2006	3	10	38,004		634,785	433.8	21	3	0	29,995	30			29,995	1		4	203	203	200	0.90		0.91	53,565	0	121,000	11,249	0	3,630	230.47	230.55	121,000	11,249	3,630	14,879	2	
2006	3	10	38,004		642,810	434.2	21	3	0	29,979	30			29,979	1		4	203	204	200	0.90		0.91	53,681	0	121,000	11,273	0	3,630	230.47	230.55	121,000	11,273	3,630	14,903	2	
2006	3	11	41,804		628,468	434.1	21	3	0	56,146	30	123	140	56,146	1	10	16	203	193	187	0.90	0.90	0.91	53,636	209,833	234,862	12,390	6,925	7,750	230.47	231.00	444,696	12,390	14,675	27,065	1	
2006	4	10	30,471		628,939	433.7	21	3	0	30,000	30			30,000	1		4	203	203	200	0.90		0.91	53,535	0	121,000	11,242	0	3,630	230.47	230.55	121,000	11,242	3,630	14,872	2	
2006	4	10	30,471		629,412	433.8	21	3	0	29,999	30			29,999	1		4	203	203	200	0.90		0.91	53,542	0	121,000	11,244	0	3,630	230.47	230.55	121,000	11,244	3,630	14,874	2	
2006	4	10	30,471		629,885	433.8	21	3	0	29,998	30			29,998	1		4	203	203	200	0.90		0.91	53,549	0	121,000	11,245	0	3,630	230.47	230.55	121,000	11,245	3,630	14,875	2	
2006	5	10	27,832		606,711	433.3	21	3	0	51,006	30	122	140	51,006	1	10	16	202	192	187	0.90	0.90	0.91	53,385	208,346	233,631	11,211	6,250	7,009	230.47	231.00	441,977	11,211	13,259	24,470	1	
2006	5	10	27,832		604,493	432.7	21	3	0	30,050	30			30,050	1		4	202	202	198	0.90		0.91	53,202	0	121,000	11,172	0	3,630	230.47	230.56	121,000	11,172	3,630	14,802	2	
2006	5	11	30,615		602,047	432.6	21	3	0	33,061	30			33,061	1		4	202	202	198	0.90		0.91	53,168	0	121,000	12,282	0	3,993	230.47	230.56	121,000	12,282	3,993	16,275	2	
2006	6	10	33,007		604,999	432.6	21	3	0	30,055	30			30,055	1		4	202	202	198	0.90		0.91	53,172	0	121,000	11,166	0	3,630	230.47	230.56	121,000	11,166	3,630	14,796	2	
2006	6	10	33,007		607,958	432.7	21	3	0	30,048	30			30,048	1		4	202	202	198	0.90		0.91	53,214	0	121,000	11,175	0	3,630	230.47	230.56	121,000	11,175	3,630	14,805	2	
2006	6	10	33,007		610,923	432.9	21	3	0	30,042	30			30,042	1		4	202	202	199	0.90		0.91	53,257	0	121,000	11,184	0	3,630	230.47	230.56	121,000	11,184	3,630	14,814	2	
2006	7	10	45,011		625,912	433.3	21	3	0	30,022	30			30,022	1		4	202	203	199	0.90		0.91	53,387	0	121,000	11,211	0	3,630	230.47	230.56	121,000	11,211	3,630	14,841	2	
2006	7	10	45,011		640,933	434.0	21	3	0	29,990	30			29,990	1		4	203	203	200	0.90		0.91	53,604	0	121,000	11,257	0	3,630	230.47	230.55	121,000	11,257	3,630	14,887	2	
2006	7	11	49,512		634,295	434.2	21	3	0	56,150	30	123	140	56,150	1	10	16	203	193	188	0.90	0.90	0.91	53,664	210,003	235,000	12,396	6,930	7,755	230.47	231.00	445,003	12,396	14,685	27,082	1	
2006	8	10	17,651		600,941	433.2	21	3	0	51,005	30	122	140	51,005	1	10	16	202	192	187	0.90	0.90	0.91	53,375	208,287	233,582	11,209	6,249	7,007	230.47	231.00	441,869	11,209	13,256	24,465	1	
2006	8	10	17,651		588,518	432.2	21	3	0	30,075	30			30,075	1		4	201	202	198	0.90		0.91	53,045	0	121,000	11,139	0	3,630	230.47	230.56	121,000	11,139	3,630	14,769	2	
2006	8	11	19,416		574,818	431.6	21	3	0	33,116	30			33,116	1		4	201	201	197	0.90		0.91	52,857	0	121,000	12,210	0	3,993	230.47	230.56	121,000	12,210	3,993	16,203	2	
2006	9	10	29,238		573,933	431.3	21	3	0	30,123	30			30,123	1		4	200	201	197	0.90		0.91	52,752	0	121,000	11,078	0	3,630	230.47	230.56	121,000	11,078	3,630	14,708	2	
2006	9	10	29,238		573,045	431.2	21	3	0	30,126	30			30,126	1		4	200	201	197	0.90		0.91	52,739	0	121,000	11,075	0	3,630	230.47	230.56	121,000	11,075	3,630	14,705	2	
2006	9	10	29,238		572,156	431.2	21	3	0	30,128	30			30,128	1		4	200	201	197	0.90		0.91	52,726	0	121,000	11,072	0	3,630	230.47	230.56	121,000	11,072	3,630	14,702	2	
2006	10	10	52,291	1,629	596,898	431.7	24	0	0	25,920	30			25,920	1			201	201	201	0.90			52,898	0	0	12,695	0	0	230.47		52,898	12,695	0	12,695	3	
2006	10	10	52,291	1,629	617,513	432.8	21	3	0	30,047	30			30,047	1		4	202	202	199	0.90		0.91	53,225	0	121,000	11,177	0	3,630	230.47	230.56	121,000	11,177	3,630	14,807	2	
2006	10	11	57,520	1,792	640,242	433.8	21	3	0	32,999	30			32,999	1		4	203	203	200	0.90		0.91	53,538	0	121,000	12,367	0	3,993	230.47	230.55	121,000	12,367	3,993	16,360	2	
2006	11	10	211,050		722,000	436.1	0	24	71,572	57,719	30			67	129,292	1		4	205	206	202	0.90		0.91	54,207	0	121,000	0	0	29,040	230.47	230.55	121,000	0	3,630	29,040	2
2006	11	10	211,050		705,818	437.6	0	24	0	227,232	30	123	140	227,232	1	10	16	207	196	191	0.90	0.91	0.91	54,567	215,150	239,948	0	51,636	57,588	230.47	231.00	455,098	0	13,653	109,224	0	
2006	11	10	211,050		689,636	436.9	0	24	0	227,232	30	123	140	227,232	1	11	16	206	195	190	0.90	0.91	0.91	54,389	213,372	238,443	0	51,209	57,226	230.47	231.00	451,815	0	13,554	108,436	1	
2006	12	10	77,765		691,152	436.6	18	6	0	76,248	30	123	140	76,248	1	11	16	205	195	190	0.90	0.91	0.91	54,309	212,883	237,906	9,776	12,773	14,274	230.47	231.00	450,789	9,776	13,524	36,823	1	
2006	12	10	77,765		684,281	436.4	17	7	0	84,636	30	123	140	84,636	1	11	16	205	194	189	0.90	0.91	0.91	54,279	212,702	237,708	9,227	14,889	16,640	230.47	231.00	450,409	9,227	13,512	40,756	1	
2006	12	11	85,541		685,949	436.3	18	6	0	83,873	30	123	140	83,873	1	11	16	205	194	189	0.90	0.91	0.91	54,251	212,524	237,514	10,										