

2.4 Peak Shift Demand Interconnection;1,300MW Fuel Price × 2 (2015)

TABLE 2-4-1 kW BALANCE (MARGINAL OPERATION)
(NORTH)

FY. 2015														(MW)
MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	
DEMAND	7,967	8,019	8,103	8,220	8,340	8,438	8,499	8,520	8,529	8,529	8,512	8,503	100,179	
PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	
OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO A	63	69	62	64	65	106	106	106	73	87	105	84	991	
AB	4,687	4,770	4,674	4,756	4,624	6,491	6,294	6,388	5,120	5,589	4,564	4,761	62,718	
PA	194	188	213	203	221	307	500	500	244	230	269	226	3,295	
PB	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO TOTAL	4,943	5,028	4,949	5,023	4,910	6,903	6,900	6,994	5,436	5,907	4,939	5,071	67,004	
THERMAL,NUCLEAR	4,925	4,925	4,925	4,925	4,925	4,925	4,925	4,925	4,925	4,925	4,925	4,925	59,098	
SUPPLY CAPACITY	9,868	9,952	9,874	9,948	9,835	11,828	11,825	11,919	10,361	10,832	9,863	9,995	126,101	
MAINTENANCE	401	424	246	180	0	1,802	1,726	1,795	226	697	0	0	7,497	
RESERVE CAPACITY	1,500	1,510	1,525	1,547	1,495	1,589	1,600	1,604	1,606	1,606	1,351	1,492	18,425	
RESERVE RATE (%)	19	19	19	19	18	19	19	19	19	19	16	18	18	
(REFERENCE) MAINTENANCE	321	343	164	98	0	1,717	1,641	1,710	141	612	0	0	6,747	

TABLE 2-4-2 kW BALANCE (MARGINAL OPERATION)
(CENTRAL&SOUTH)

FY. 2015														(MW)
MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	
DEMAND	13,095	13,239	13,436	13,573	13,680	13,790	13,884	13,962	14,009	14,068	14,122	14,172	165,030	
PURCHASE	0	0	0	0	0	0	0	0	0	0	0	0	0	
OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO A	201	232	206	208	210	234	270	312	312	312	312	256	3,063	
AB	5,168	5,516	4,958	5,036	4,869	5,302	5,677	6,190	6,588	6,701	6,567	6,045	68,619	
PA	0	0	0	0	0	0	0	0	0	0	0	0	0	
PB	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO TOTAL	5,369	5,748	5,163	5,244	5,079	5,536	5,947	6,502	6,900	7,013	6,879	6,302	71,682	
THERMAL,NUCLEAR.	10,377	10,377	10,377	10,377	10,377	10,377	10,377	10,377	10,377	10,377	10,377	10,377	124,523	
SUPPLY CAPACITY	15,746	16,125	15,540	15,621	15,456	15,913	16,324	16,879	17,277	17,390	17,256	16,679	196,205	
MAINTENANCE	1,496	1,718	919	851	569	907	1,215	1,685	2,032	2,081	1,888	1,257	16,619	
RESERVE CAPACITY	1,155	1,168	1,185	1,197	1,207	1,216	1,225	1,231	1,236	1,241	1,246	1,250	14,555	
RESERVE RATE (%)	9	9	9	9	9	9	9	9	9	9	9	9	9	
(REFERENCE) MAINTENANCE	1,364	1,585	784	714	431	768	1,076	1,545	1,891	1,939	1,746	1,114	14,957	

**TABLE2-4-5 FUEL CONSUMPTION
(NORTH)**

FY. 2015

(UNIT 10*6)

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
GAS ST (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0
GAS C/C (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0
GAS GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0
OIL ST (EQUIVALENT).	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0
OIL GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0
DIESEL (EQUIVALENT)	3 3	2 2	2 2	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	3 3	11 11
COAL ST (EQUIVALENT)	1,236 686	1,104 613	1,276 708	1,253 695	1,321 733	806 447	846 470	817 453	1,222 678	1,121 622	1,257 697	1,320 733	13,579 7,536
(EQUIV.TOTAL)	689	615	710	695	733	447	470	453	678	622	697	736	7,547

**TABLE2-4-6 FUEL CONSUMPTION
(CENTRAL&SOUTH)**

FY. 2015

(UNIT 10*6)

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
GAS ST (EQUIVALENT)	340 344	299 302	354 358	339 342	353 356	288 291	299 302	271 273	282 285	263 266	274 276	342 345	3,704 3,738
GAS C/C (EQUIVALENT)	569 574	477 482	608 613	602 607	639 645	552 557	565 571	489 493	435 439	432 436	477 482	600 605	6,445 6,504
GAS GT (EQUIVALENT)	37 37	23 24	23 23	23 23	24 24	15 15	16 17	2 3	22 22	20 20	0 0	2 2	207 209
OIL ST (EQUIVALENT).	122 122	109 109	140 140	130 130	129 129	115 115	116 116	112 112	106 106	109 109	107 107	125 125	1,421 1,421
OIL GT (EQUIVALENT)	1 1	1 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	3 3
DIESEL (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0
COAL ST (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0
(EQUIV.TOTAL)	1,078	918	1,135	1,102	1,154	978	1,006	881	852	831	865	1,077	11,875

GAS ST	10,000 KCAL	KG	UNIT	KG.
GAS C/C	10,000 KCAL	KG	UNIT	KG.
GAS GT	10,000 KCAL	KG	UNIT	KG.
OIL ST	9,910 KCAL	KG	UNIT	KG.
OIL GT	9,910 KCAL	KG	UNIT	KG.
DIESEL	10,150 KCAL	KG	UNIT	KG.
COAL ST	5,500 KCAL	KG	UNIT	KG.
(EQUIVALENT)	9,910 KCAL	KG	UNIT	KG.

**TABLE2-4-7 ECONOMIC EVALUATION-1
(NORTH)**

FY. 2015

	ENERGY (GWH)	FIXED COST		FUEL COST		PURCHASE MERIT		TOTAL COST	
		(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)
OTHERS	0	0	0.0	0	0.0			0	0.0
CONVEN HYDRO	29,424	108,809	3.7	0	0.0			108,809	3.7
PUMPED HYDRO	528	3,575	6.8	0	0.0			3,575	6.8
NUCLEAR	0	0	0.0	0	0.0			0	0.0
GAS ST	0	0	0.0	0	0.0			0	0.0
GAS C/C	0	0	0.0	0	0.0			0	0.0
GAS GT	0	0	0.0	0	0.0			0	0.0
OIL ST	0	0	0.0	0	0.0			0	0.0
OIL GT	0	0	0.0	0	0.0			0	0.0
DIESEL	19	345	18.2	729	38.4			1,074	56.5
COAL ST	33,124	72,214	2.2	44,588	1.3			116,802	3.5
TOTAL	63,095	184,943	2.9	45,317	0.7			230,260	3.6
PURCHASE TOTAL	-7,879	0	0.0	-2,486	0.3	-20,793	2.6	-23,279	3.0
RECEIVE KW	0	0	0.0	0	0.0			0	0.0
EC	0			0	0.0	0	0.0	0	0.0
SEND KW	0			0	0.0	0	0.0	0	0.0
EC	-7,879			-2,486	0.3	-20,793	2.6	-23,279	3.0
(DEMAND)	51,743	184,943	3.6	42,831	0.8			206,981	4.0
SHORTAGE	13	184,943	3.6	42,831	0.8			0	0.0

**TABLE2-4-8 ECONOMIC EVALUATION-1
(CENTRAL&SOUTH)**

FY. 2015

	ENERGY (GWH)	FIXED COST		FUEL COST		PURCHASE MERIT		TOTAL COST	
		(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)
OTHERS	0	0	0.0	0	0.0			0	0.0
CONVEN HYDRO	31,292	118,237	3.8	0	0.0			118,237	3.8
PUMPED HYDRO	0	0	0.0	0	0.0			0	0.0
NUCLEAR	0	0	0.0	0	0.0			0	0.0
GAS ST	10,300	24,243	2.4	127,229	12.4			151,472	14.7
GAS C/C	35,543	61,241	1.7	222,304	6.3			283,545	8.0
GAS GT	726	3,372	4.6	7,126	9.8			10,498	14.5
OIL ST	4,684	13,450	2.9	53,753	11.5			67,203	14.3
OIL GT	6	1,684	280.6	182	30.3			1,866	311.0
DIESEL	0	2,881	0.0	14	0.0			2,895	0.0
COAL ST	0	0	0.0	0	0.0			0	0.0
TOTAL	82,550	225,107	2.7	410,607	5.0			635,715	7.7
PURCHASE TOTAL	7,879	0	0.0	44,861	5.7	-20,793	-2.6	24,067	3.1
RECEIVE KW	0	0	0.0	0	0.0			0	0.0
EC	7,879			44,861	5.7	-20,793	-2.6	24,067	3.1
SEND KW	0			0	0.0	0	0.0	0	0.0
EC	0			0	0.0	0	0.0	0	0.0
(DEMAND)	90,429	225,107	2.5	455,468	5.0			659,782	7.3
SHORTAGE	0	225,107	2.5	455,468	5.0			0	0.0

2.5 Peak Shift Demand Interconnection;1,300MW Fuel Price × 2 (2020)

TABLE 2-5-1 kW BALANCE (MARGINAL OPERATION)
(NORTH)

FY. 2020

(MW)

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
DEMAND	11,353	11,422	11,524	11,660	11,798	11,914	11,993	12,031	12,056	12,073	12,073	12,080	141,977
PURCHASE	0	27	0	0	0	0	0	0	0	0	0	0	27
OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0
HYDRO A	70	72	68	71	69	106	106	106	78	89	106	89	1,030
AB	5,391	5,504	5,403	5,492	5,365	7,841	7,644	7,738	6,891	6,953	5,391	5,503	75,118
PA	638	612	652	638	673	909	1,492	1,500	726	649	868	706	10,062
PB	0	0	0	0	0	0	0	0	0	0	0	0	0
HYDRO TOTAL	6,099	6,189	6,123	6,201	6,107	8,856	9,243	9,344	7,694	7,691	6,364	6,298	86,209
THERMAL,NUCLEAR	7,475	7,475	7,475	7,475	7,475	7,475	7,475	7,475	7,475	7,475	7,475	7,475	89,698
SUPPLY CAPACITY	13,574	13,691	13,598	13,676	13,582	16,331	16,717	16,819	15,169	15,166	13,839	13,772	175,934
MAINTENANCE	532	570	360	282	30	2,645	2,941	2,999	1,320	1,297	0	0	12,977
RESERVE CAPACITY	1,688	1,699	1,714	1,734	1,755	1,772	1,784	1,789	1,793	1,795	1,766	1,692	20,980
RESERVE RATE (%)	15	15	15	15	15	15	15	15	15	15	15	14	15
(REFERENCE) MAINTENANCE	398	418	224	144	0	2,504	2,799	2,857	1,178	1,155	0	0	11,677

TABLE 2-5-2 kW BALANCE (MARGINAL OPERATION)
(CENTRAL&SOUTH)

FY. 2020

(MW)

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
DEMAND	18,913	19,091	19,319	19,492	19,638	19,785	19,917	20,034	20,121	20,220	20,315	20,406	237,251
PURCHASE	0	-27	0	0	0	0	0	0	0	0	0	0	-27
OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0
HYDRO A	238	276	240	261	277	312	304	312	312	312	312	267	3,420
AB	6,448	6,867	6,186	6,355	6,059	6,609	7,053	7,173	7,623	7,710	7,562	7,435	83,080
PA	0	0	0	0	0	0	0	0	0	0	0	0	0
PB	0	0	0	0	0	0	0	0	0	0	0	0	0
HYDRO TOTAL	6,686	7,143	6,427	6,615	6,336	6,921	7,357	7,485	7,935	8,022	7,874	7,701	86,500
THERMAL,NUCLEAR.	16,757	16,757	16,757	16,757	16,757	16,757	16,757	16,757	16,757	16,757	16,757	16,757	201,083
SUPPLY CAPACITY	23,443	23,873	23,183	23,372	23,093	23,678	24,114	24,241	24,692	24,779	24,631	24,458	287,556
MAINTENANCE	3,035	3,274	2,338	2,340	1,903	2,329	2,623	2,625	2,981	2,961	2,710	2,440	31,560
RESERVE CAPACITY	1,494	1,508	1,526	1,540	1,552	1,563	1,574	1,583	1,590	1,598	1,605	1,612	18,745
RESERVE RATE (%)	8	8	8	8	8	8	8	8	8	8	8	8	8
(REFERENCE) MAINTENANCE	2,782	3,041	2,079	2,079	1,640	2,064	2,356	2,356	2,711	2,690	2,438	2,167	28,403

**TABLE 2-5-5 FUEL CONSUMPTION
(NORTH)**

FY. 2020

(UNIT 10*6)

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
GAS ST (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
GAS C/C (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
GAS GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
OIL ST (EQUIVALENT).	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
OIL GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
DIESEL (EQUIVALENT)	3 3	2 2	3 3	3 3	3 3	0 0	0 0	0 0	0 0	0 0	0 0	3 3	17 17
COAL ST (EQUIVALENT)	1,929 1,071	1,716 952	1,974 1,096	1,934 1,073	2,035 1,129	1,267 703	1,223 679	1,197 665	1,619 899	1,677 931	1,918 1,064	2,034 1,129	20,523 11,390
(EQUIV.TOTAL)	1,074	954	1,099	1,076	1,132	703	679	665	899	931	1,064	1,132	11,407

**TABLE 2-5-6 FUEL CONSUMPTION
(CENTRAL&SOUTH)**

FY. 2020

(UNIT 10*6)

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
GAS ST (EQUIVALENT)	330 333	277 280	343 346	330 333	332 335	299 302	319 322	297 300	297 300	288 290	269 271	315 318	3,697 3,731
GAS C/C (EQUIVALENT)	806 813	698 705	835 843	817 824	856 864	756 762	790 797	708 714	664 671	688 694	735 741	826 834	9,178 9,262
GAS GT (EQUIVALENT)	4 4	4 4	4 4	4 4	2 2	29 29	4 4	1 1	0 0	2 3	0 0	0 0	56 56
OIL ST (EQUIVALENT)	116 116	109 109	120 120	115 115	120 120	112 112	116 116	115 115	119 119	113 113	111 111	118 118	1,384 1,384
OIL GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	1 1
DIESEL (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
COAL ST (EQUIVALENT)	230 128	203 113	244 135	236 131	253 140	236 131	239 132	239 132	224 124	232 129	229 127	242 134	2,807 1,558
(EQUIV.TOTAL)	1,394	1,211	1,448	1,407	1,461	1,337	1,371	1,262	1,214	1,229	1,250	1,404	15,992

GAS ST	10,000 KCAL	KG	UNIT	KG.
GAS C/C	10,000 KCAL	KG	UNIT	KG.
GAS GT	10,000 KCAL	KG	UNIT	KG.
OIL ST	9,910 KCAL	KG	UNIT	KG.
OIL GT	9,910 KCAL	KG	UNIT	KG.
DIESEL	10,150 KCAL	KG	UNIT	KG.
COAL ST	5,500 KCAL	KG	UNIT	KG.
(EQUIVALENT)	9,910 KCAL	KG	UNIT	KG.

**TABLE2-5-7 ECONOMIC EVALUATION-1
(NORTH)**

FY. 2020

	ENERGY (GWH)	FIXED COST		FUEL COST		PURCHASE MERIT		TOTAL COST	
		(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)
OTHERS	0	0	0.0	0	0.0			0	0.0
CONVEN HYDRO	34,788	128,617	3.7	0	0.0			128,617	3.7
PUMPED HYDRO	1,750	10,725	6.1	0	0.0			10,725	6.1
NUCLEAR	0	0	0.0	0	0.0			0	0.0
GAS ST	0	0	0.0	0	0.0			0	0.0
GAS C/C	0	0	0.0	0	0.0			0	0.0
GAS GT	0	0	0.0	0	0.0			0	0.0
OIL ST	0	0	0.0	0	0.0			0	0.0
OIL GT	0	0	0.0	0	0.0			0	0.0
DIESEL	22	345	15.7	1,210	55.0			1,555	70.7
COAL ST	50,688	103,624	2.0	74,952	1.5			178,576	3.5
TOTAL	87,247	243,312	2.8	76,162	0.9			319,474	3.7
PURCHASE TOTAL	-6,655	0	0.0	-4,324	0.7	-17,469	2.6	-21,792	3.3
RECEIVE KW	1	0	0.1	1	1.5			1	1.6
EC	0			0	0.0	0	0.0	0	0.0
SEND KW	0			0	0.0	0	0.0	0	0.0
EC	-6,656			-4,325	0.7	-17,469	2.6	-21,794	3.3
(DEMAND)	73,207	243,312	3.3	71,838	1.0			297,681	4.1
SHORTAGE	0	243,312	3.3	71,838	1.0			0	0.0

**TABLE2-5-8 ECONOMIC EVALUATION-1
(CENTRAL&SOUTH)**

FY. 2020

	ENERGY (GWH)	FIXED COST		FUEL COST		PURCHASE MERIT		TOTAL COST	
		(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)
OTHERS	0	0	0.0	0	0.0			0	0.0
CONVEN HYDRO	36,497	136,521	3.7	0	0.0			136,521	3.7
PUMPED HYDRO	0	0	0.0	0	0.0			0	0.0
NUCLEAR	12,549	57,200	4.6	13,147	1.0			70,347	5.6
GAS ST	10,263	24,243	2.4	140,407	13.7			164,650	16.0
GAS C/C	51,355	92,066	1.8	349,301	6.8			441,367	8.6
GAS GT	183	3,372	18.4	2,106	11.5			5,478	29.9
OIL ST	4,551	13,450	3.0	54,658	12.0			68,108	15.0
OIL GT	1	1,684	1,683.8	60	60.0			1,744	1,743.8
DIESEL	0	2,881	0.0	14	0.0			2,895	0.0
COAL ST	7,103	12,194	1.7	12,213	1.7			24,407	3.4
TOTAL	122,502	343,611	2.8	571,906	4.7			915,517	7.5
PURCHASE TOTAL	6,655	0	0.0	39,918	6.0	-17,460	-2.6	22,458	3.4
RECEIVE KW	0	0	0.0	0	0.0			0	0.0
EC	6656			39928	6.0	-17469	-2.6	22459	3.4
SEND KW	-1			-10	11.2	9	-9.8	-1	1.5
EC	0			0	0.0	0	0.0	0	0.0
(DEMAND)	129,156	343,611	2.7	611,824	4.7			937,975	7.3
SHORTAGE	0	343,611	2.7	611,824	4.7			0	0.0

2.6 Peak Shift Demand Interconnection;1,300MW PSPP;2,000MW in C&S (2020)

**TABLE 2-6-1 kW BALANCE (MARGINAL OPERATION)
(NORTH)**

FY. 2020														(MW)
MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	
DEMAND	11,353	11,422	11,524	11,660	11,798	11,914	11,993	12,031	12,056	12,073	12,073	12,080	141,977	
PURCHASE	160	195	167	155	0	0	0	0	0	0	0	0	678	
OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO A	70	71	64	68	69	106	106	106	78	89	106	89	1,020	
AB	5,358	5,470	5,375	5,462	5,365	7,841	7,644	7,738	6,891	6,953	5,391	5,503	74,993	
PA	0	0	0	0	0	0	0	0	0	0	0	0	0	
PB	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO TOTAL	5,428	5,541	5,440	5,530	5,434	7,947	7,750	7,844	6,969	7,042	5,496	5,592	76,014	
THERMAL,NUCLEAR.	8,325	8,325	8,325	8,325	8,325	8,325	8,325	8,325	8,325	8,325	8,325	8,325	99,898	
SUPPLY CAPACITY	13,913	14,061	13,932	14,010	13,759	16,271	16,075	16,169	15,294	15,367	13,821	13,917	176,589	
MAINTENANCE	979	1,048	803	726	318	2,698	2,412	2,463	1,559	1,613	67	155	14,840	
RESERVE CAPACITY	1,581	1,591	1,605	1,624	1,643	1,659	1,670	1,675	1,679	1,681	1,681	1,682	19,772	
RESERVE RATE (%)	14	14	14	14	14	14	14	14	14	14	14	14	14	
(REFERENCE) MAINTENANCE	774	818	589	526	238	2,618	2,331	2,381	1,477	1,531	0	73	13,356	

**TABLE 2-6-2 kW BALANCE (MARGINAL OPERATION)
(CENTRAL&SOUTH)**

FY. 2020														(MW)
MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	
DEMAND	18,913	19,091	19,319	19,492	19,638	19,785	19,917	20,034	20,121	20,220	20,315	20,406	237,251	
PURCHASE	-160	-195	-167	-155	0	0	0	0	0	0	0	0	-678	
OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO A	242	280	240	263	277	312	304	312	312	312	312	267	3,430	
AB	6,469	6,890	6,212	6,376	6,059	6,609	7,053	7,173	7,623	7,710	7,562	7,435	83,171	
PA	935	898	1,001	966	1,002	1,060	1,151	1,865	1,635	1,645	1,532	943	14,633	
PB	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO TOTAL	7,645	8,067	7,453	7,605	7,337	7,981	8,509	9,350	9,570	9,667	9,406	8,645	101,234	
THERMAL,NUCLEAR.	15,367	15,367	15,367	15,367	15,367	15,367	15,367	15,367	15,367	15,367	15,367	15,367	184,403	
SUPPLY CAPACITY	22,852	23,239	22,653	22,817	22,704	23,348	23,875	24,716	24,936	25,034	24,772	24,012	284,959	
MAINTENANCE	2,449	2,645	1,812	1,790	1,520	2,005	2,390	3,105	3,231	3,221	2,857	1,998	29,021	
RESERVE CAPACITY	1,490	1,504	1,522	1,535	1,547	1,558	1,569	1,578	1,585	1,593	1,600	1,607	18,687	
RESERVE RATE (%)	8	8	8	8	8	8	8	8	8	8	8	8	8	
(REFERENCE) MAINTENANCE	2,290	2,499	1,657	1,623	1,241	1,724	2,107	2,820	2,945	2,934	2,569	1,709	26,118	

**TABLE-2-6-3 kWh BALANCE (ECONOMIC OPERATION)
(NORTH)**

FY. 2020

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL (GWH)	INS.CAP (MW)	AVAIL.F (%)
DEMAND	5,982	5,346	6,042	5,909	6,198	6,083	6,353	6,361	6,116	6,338	6,129	6,351	73,207	0	0
PURCHASE	-523	-525	-526	-515	-608	-933	-957	-965	-787	-966	-935	-654	-8,904	0	0
OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CONVEN HYDRO	1,898	1,723	1,855	1,805	1,899	4,168	4,913	5,259	3,135	3,490	2,583	2,058	34,788	8,700	46
PUMPED HYDRO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NUCLEAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GAS ST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GAS C/C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GAS GT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL ST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OIL GT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DIESEL.	1	1	1	1	0	0	0	0	0	0	0	0	3	25	1
COAL ST	4,996	4,485	5,116	4,995	5,345	3,502	3,748	3,697	4,323	4,312	5,193	5,444	55,155	8,300	76
GENE TOTAL.	6,895	6,211	6,971	6,801	7,244	7,671	8,661	8,955	7,458	7,803	7,776	7,502	89,946	17,025	60
OVER_FLOW SHORTAGE	389 0	339 0	402 0	375 0	437 0	654 0	1,350 0	1,629 0	554 0	498 0	712 0	496 0	7,834 0	0 0	0 0
PUMPING UP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**TABLE-2-6-4 kWh BALANCE (ECONOMIC OPERATION)
(CENTRAL&SOUTH)**

FY. 2,020

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL (GWH)	INS.CAP (MW)	AVAIL.F (%)
DEMAND	10,502	9,355	10,725	10,473	10,908	10,634	11,108	11,165	10,768	11,254	10,938	11,327	129,156	0	0
PURCHASE	524	526	527	516	609	934	958	966	788	967	936	655	8,905	0	0
OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CONVEN HYDRO	2,517	2,398	2,375	2,337	2,401	2,870	3,106	3,815	3,864	4,090	3,610	3,116	36,497	8,412	50
PUMPED HYDRO	207	157	214	202	131	3	2	6	12	1	0	30	965	2,000	6
NUCLEAR	1,047	915	1,148	1,116	1,215	1,101	1,076	962	912	944	970	1,140	12,546	2,000	72
GAS ST	1,070	780	1,090	1,074	989	782	839	706	738	682	663	967	10,382	2,040	58
GAS C/C	4,261	3,802	4,437	4,315	4,510	3,821	3,978	3,641	3,433	3,514	3,731	4,310	47,751	8,157	67
GAS GT	149	97	158	153	160	96	110	89	91	81	87	137	1,407	527	30
OIL ST	374	336	386	374	391	371	377	367	353	365	358	384	4,437	1,173	43
OIL GT	31	18	32	31	26	16	19	16	16	15	16	3	240	263	10
DIESEL.	22	19	32	32	9	36	40	36	35	34	6	1	304	207	17
COAL ST	597	529	631	613	654	607	607	568	543	562	563	629	7,102	1,000	81
GENE TOTAL.	10,275	9,052	10,504	10,246	10,486	9,704	10,153	10,208	9,997	10,288	10,002	10,715	121,630	25,778	54
OVER_FLOW SHORTAGE	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
PUMPING UP	-296	-224	-306	-289	-187	-5	-2	-8	-18	-2	0	-43	-1,379	0	0

**TABLE 2-6-5 FUEL CONSUMPTION
(NORTH)**

FY. 2020

(UNIT 10*6)

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
GAS ST (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
GAS C/C (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
GAS GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
OIL ST (EQUIVALENT).	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
OIL GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
DIESEL (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	2 2
COAL ST (EQUIVALENT)	2,018 1,120	1,812 1,006	2,067 1,147	2,018 1,120	2,159 1,198	1,417 786	1,518 842	1,498 831	1,747 970	1,744 968	2,098 1,164	2,199 1,221	22,295 12,374
(EQUIV.TOTAL)	1,120	1,006	1,147	1,120	1,198	786	842	831	970	968	1,164	1,221	12,376

**TABLE 2-6-6 FUEL CONSUMPTION
(CENTRAL&SOUTH)**

FY. 2020

(UNIT 10*6)

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
GAS ST (EQUIVALENT)	350 353	281 283	358 361	350 353	342 345	295 298	308 311	279 282	280 282	274 277	268 270	335 338	3,720 3,753
GAS C/C (EQUIVALENT)	763 770	678 685	795 803	773 780	808 815	690 696	717 723	658 664	619 625	637 643	673 679	773 780	8,585 8,663
GAS GT (EQUIVALENT)	41 41	27 27	44 44	42 43	45 45	31 31	34 34	29 29	28 28	27 28	28 29	37 38	412 416
OIL ST (EQUIVALENT).	114 114	102 102	117 117	114 114	119 119	113 113	115 115	112 112	107 107	111 111	109 109	117 117	1,351 1,351
OIL GT (EQUIVALENT)	15 15	10 10	16 16	15 15	15 15	13 13	14 14	14 14	12 12	14 14	13 13	2 2	154 154
DIESEL (EQUIVALENT)	11 12	10 10	17 17	16 16	5 5	27 28	29 30	28 29	25 26	28 28	5 5	1 1	202 206
COAL ST (EQUIVALENT)	236 131	209 116	250 138	242 134	258 143	240 133	240 133	224 125	215 119	222 123	222 123	248 138	2,807 1,558
(EQUIV.TOTAL)	1,436	1,233	1,496	1,455	1,487	1,312	1,360	1,255	1,199	1,224	1,228	1,414	16,101

GAS ST	10,000 KCAL	KG	UNIT	KG.
GAS C/C	10,000 KCAL	KG	UNIT	KG.
GAS GT	10,000 KCAL	KG	UNIT	KG.
OIL ST	9,910 KCAL	KG	UNIT	KG.
OIL GT	9,910 KCAL	KG	UNIT	KG.
DIESEL	10,150 KCAL	KG	UNIT	KG.
COAL ST	5,500 KCAL	KG	UNIT	KG.
(EQUIVALENT)	9,910 KCAL	KG	UNIT	KG.

**TABLE2-6-7 ECONOMIC EVALUATION-1
(NORTH)**

FY. 2020

	ENERGY (GWH)	FIXED COST		FUEL COST		PURCHASE MERIT		TOTAL COST	
		(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)
OTHERS	0	0	0.0	0	0.0			0	0.0
CONVEN HYDRO	34,788	128,617	3.7	0	0.0			128,617	3.7
PUMPED HYDRO	0	0	0.0	0	0.0			0	0.0
NUCLEAR	0	0	0.0	0	0.0			0	0.0
GAS ST	0	0	0.0	0	0.0			0	0.0
GAS C/C	0	0	0.0	0	0.0			0	0.0
GAS GT	0	0	0.0	0	0.0			0	0.0
OIL ST	0	0	0.0	0	0.0			0	0.0
OIL GT	0	0	0.0	0	0.0			0	0.0
DIESEL	3	345	115.1	61	20.3			406	135.4
COAL ST	55,155	113,989	2.1	81,424	1.5			195,413	3.5
TOTAL	89,946	242,951	2.7	81,483	0.9			324,435	3.6
PURCHASE TOTAL	-8,905	2	0.0	-1,902	0.2	-12,692	1.4	-14,591	1.6
RECEIVE KW	22	2	0.1	120	5.4			123	5.5
EC	0			0	0.0	0	0.0	0	0.0
SEND KW	0			0	0.0	0	0.0	0	0.0
EC	-8,928			-2,022	0.2	-12,692	1.4	-14,714	1.6
(DEMAND)	73,207	242,954	3.3	79,581	1.1			309,843	4.2
SHORTAGE	0	242,954	3.3	79,581	1.1			0	0.0

**TABLE2-6-8 ECONOMIC EVALUATION-1
(CENTRAL&SOUTH)**

FY. 2,020

	ENERGY (GWH)	FIXED COST		FUEL COST		PURCHASE MERIT		TOTAL COST	
		(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)
OTHERS	0	0	0.0	0	0.0			0	0.0
CONVEN HYDRO	36,497	136,521	3.7	0	0.0			136,521	3.7
PUMPED HYDRO	965	14,300	14.8	0	0.0			14,300	14.8
NUCLEAR	12,546	57,200	4.6	13,144	1.0			70,344	5.6
GAS ST	10,382	24,243	2.3	70,789	6.8			95,032	9.2
GAS C/C	47,751	79,390	1.7	163,545	3.4			242,935	5.1
GAS GT	1,407	3,372	2.4	7,830	5.6			11,202	8.0
OIL ST	4,437	13,450	3.0	26,415	6.0			39,865	9.0
OIL GT	240	1,684	7.0	5,167	21.5			6,851	28.5
DIESEL	304	2,881	9.5	7,171	23.6			10,052	33.1
COAL ST	7,102	12,194	1.7	12,211	1.7			24,405	3.4
TOTAL	121,630	345,234	2.8	306,273	2.5			651,507	5.4
PURCHASE TOTAL	8,905	0	0.0	28,179	3.2	-12,693	-1.4	15,486	1.7
RECEIVE KW	0	0	0.0	0	0.0			0	0.0
EC	8,928			28,298	3.2	-12,692	-1.4	15,607	1.7
SEND KW	-22			-119	5.3	-1	0.1	-120	5.4
EC	0			0	0.0	0	0.0	0	0.0
(DEMAND)	129,156	345,234	2.7	334,452	2.6			666,993	5.2
SHORTAGE	0	345,234	2.7	334,452	2.6			0	0.0

2.7 Peak Shift Demand Interconnection;1300MW Gsa;1,500MW in C&S (2020)

**TABLE 2-7-1 kW BALANCE (MARGINAL OPERATION)
(NORTH)**

FY. 2020														(MW)
MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	
DEMAND	11,353	11,422	11,524	11,660	11,798	11,914	11,993	12,031	12,056	12,073	12,073	12,080	141,977	
PURCHASE	160	195	167	155	0	0	0	0	0	0	0	0	678	
OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO A	70	71	64	68	69	106	106	106	78	89	106	89	1,020	
AB	5,358	5,470	5,375	5,462	5,365	7,841	7,644	7,738	6,891	6,953	5,391	5,503	74,993	
PA	0	0	0	0	0	0	0	0	0	0	0	0	0	
PB	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO TOTAL	5,428	5,541	5,440	5,530	5,434	7,947	7,750	7,844	6,969	7,042	5,496	5,592	76,014	
THERMAL,NUCLEAR.	8,325	8,325	8,325	8,325	8,325	8,325	8,325	8,325	8,325	8,325	8,325	8,325	99,898	
SUPPLY CAPACITY	13,913	14,061	13,932	14,010	13,759	16,271	16,075	16,169	15,294	15,367	13,821	13,917	176,589	
MAINTENANCE	979	1,048	803	726	318	2,698	2,412	2,463	1,559	1,613	67	155	14,840	
RESERVE CAPACITY	1,581	1,591	1,605	1,624	1,643	1,659	1,670	1,675	1,679	1,681	1,681	1,682	19,772	
RESERVE RATE (%)	14	14	14	14	14	14	14	14	14	14	14	14	14	
(REFERENCE) MAINTENANCE	774	818	589	526	238	2,618	2,331	2,381	1,477	1,531	0	73	13,356	

**TABLE 2-7-2 kW BALANCE (MARGINAL OPERATION)
(CENTRAL&SOUTH)**

FY. 2020														(MW)
MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	
DEMAND	18,913	19,091	19,319	19,492	19,638	19,785	19,917	20,034	20,121	20,220	20,315	20,406	237,251	
PURCHASE	-160	-195	-167	-155	0	0	0	0	0	0	0	0	-678	
OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO A	242	280	240	263	277	312	304	312	312	312	312	267	3,430	
AB	6,469	6,890	6,212	6,376	6,059	6,609	7,053	7,173	7,623	7,710	7,562	7,435	83,171	
PA	0	0	0	0	0	0	0	0	0	0	0	0	0	
PB	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO TOTAL	6,710	7,169	6,452	6,639	6,336	6,921	7,357	7,485	7,935	8,022	7,874	7,701	86,600	
THERMAL,NUCLEAR.	16,607	16,607	16,607	16,607	16,607	16,607	16,607	16,607	16,607	16,607	16,607	16,607	199,283	
SUPPLY CAPACITY	23,157	23,581	22,892	23,091	22,943	23,528	23,964	24,091	24,542	24,629	24,481	24,308	285,206	
MAINTENANCE	2,915	3,149	2,215	2,229	1,925	2,353	2,648	2,650	3,007	2,988	2,738	2,469	31,286	
RESERVE CAPACITY	1,329	1,341	1,357	1,369	1,380	1,390	1,399	1,408	1,414	1,421	1,427	1,434	16,669	
RESERVE RATE (%)	7	7	7	7	7	7	7	7	7	7	7	7	7	
(REFERENCE) MAINTENANCE	2,756	3,016	2,056	2,056	1,619	2,044	2,337	2,337	2,693	2,672	2,421	2,150	28,157	

**TABLE 2-7-5 FUEL CONSUMPTION
(NORTH)**

FY. 2020

(UNIT 10*6)

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
GAS ST (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
GAS C/C (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
GAS GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
OIL ST (EQUIVALENT).	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
OIL GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
DIESEL (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	2 2
COAL ST (EQUIVALENT)	2,018 1,120	1,812 1,006	2,067 1,147	2,018 1,120	2,159 1,198	1,417 786	1,518 842	1,498 831	1,747 970	1,744 968	2,098 1,164	2,199 1,221	22,295 12,374
(EQUIV.TOTAL)	1,120	1,006	1,147	1,120	1,198	786	842	831	970	968	1,164	1,221	12,376

**TABLE 2-7-6 FUEL CONSUMPTION
(CENTRAL&SOUTH)**

FY. 2020

(UNIT 10*6)

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
GAS ST (EQUIVALENT)	324 327	276 279	333 336	322 324	336 339	282 285	291 294	287 290	297 300	283 286	267 269	329 332	3,626 3,659
GAS C/C (EQUIVALENT)	840 848	712 718	874 882	851 859	888 896	784 791	815 822	743 750	680 687	724 731	724 730	840 848	9,475 9,561
GAS GT (EQUIVALENT)	5 5	5 5	5 5	5 5	4 4	27 28	15 15	3 3	0 0	2 2	0 0	0 0	70 71
OIL ST (EQUIVALENT).	147 147	129 129	152 152	148 148	128 128	112 112	115 115	115 115	115 115	113 113	111 111	118 118	1,504 1,504
OIL GT (EQUIVALENT)	1 1	3 3	2 2	2 2	0 0	13 13	0 0	0 0	0 0	0 0	0 0	0 0	21 21
DIESEL (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
COAL ST (EQUIVALENT)	230 128	203 113	244 135	236 131	253 140	236 131	239 132	239 132	224 124	232 129	229 127	242 134	2,807 1,558
(EQUIV.TOTAL)	1,456	1,247	1,512	1,469	1,507	1,360	1,378	1,290	1,226	1,261	1,237	1,432	16,374

GAS ST	10,000 KCAL	KG	UNIT	KG.
GAS C/C	10,000 KCAL	KG	UNIT	KG.
GAS GT	10,000 KCAL	KG	UNIT	KG.
OIL ST	9,910 KCAL	KG	UNIT	KG.
OIL GT	9,910 KCAL	KG	UNIT	KG.
DIESEL	10,150 KCAL	KG	UNIT	KG.
COAL ST	5,500 KCAL	KG	UNIT	KG.
(EQUIVALENT)	9,910 KCAL	KG	UNIT	KG.

**TABLE2-7-7 ECONOMIC EVALUATION-1
(NORTH)**

FY. 2020

	ENERGY (GWH)	FIXED COST		FUEL COST		PURCHASE MERIT		TOTAL COST	
		(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)
OTHERS	0	0	0.0	0	0.0			0	0.0
CONVEN HYDRO	34,788	128,617	3.7	0	0.0			128,617	3.7
PUMPED HYDRO	0	0	0.0	0	0.0			0	0.0
NUCLEAR	0	0	0.0	0	0.0			0	0.0
GAS ST	0	0	0.0	0	0.0			0	0.0
GAS C/C	0	0	0.0	0	0.0			0	0.0
GAS GT	0	0	0.0	0	0.0			0	0.0
OIL ST	0	0	0.0	0	0.0			0	0.0
OIL GT	0	0	0.0	0	0.0			0	0.0
DIESEL	4	345	86.3	62	15.5			407	101.8
COAL ST	55,155	113,989	2.1	81,424	1.5			195,413	3.5
TOTAL	89,947	242,951	2.7	81,485	0.9			324,437	3.6
PURCHASE TOTAL	-7,389	2	0.0	-1,903	0.3	-9,665	1.3	-11,566	1.6
RECEIVE KW	22	2	0.1	120	5.4			123	5.5
EC	0			0	0.0	0	0.0	0	0.0
SEND KW	0			0	0.0	0	0.0	0	0.0
EC	-7,411			-2,023	0.3	-9,665	1.3	-11,689	1.6
(DEMAND)	73,207	242,954	3.3	79,582	1.1			312,871	4.3
SHORTAGE	0	242,954	3.3	79,582	1.1			0	0.0

**TABLE2-7-8 ECONOMIC EVALUATION-1
(CENTRAL&SOUTH)**

FY. 2020

	ENERGY (GWH)	FIXED COST		FUEL COST		PURCHASE MERIT		TOTAL COST	
		(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)
OTHERS	0	0	0.0	0	0.0			0	0.0
CONVEN HYDRO	36,497	136,521	3.7	0	0.0			136,521	3.7
PUMPED HYDRO	0	0	0.0	0	0.0			0	0.0
NUCLEAR	12,549	57,200	4.6	13,147	1.0			70,347	5.6
GAS ST	9,879	24,243	2.5	69,023	7.0			93,266	9.4
GAS C/C	50,506	87,743	1.7	180,482	3.6			268,225	5.3
GAS GT	223	3,372	15.1	1,349	6.0			4,721	21.2
OIL ST	4,972	13,450	2.7	29,284	5.9			42,734	8.6
OIL GT	36	1,684	46.8	710	19.7			2,394	66.5
DIESEL	1	2,881	2,881.4	21	21.0			2,902	2,902.4
COAL ST	7,103	12,194	1.7	12,213	1.7			24,407	3.4
TOTAL	121,767	339,288	2.8	306,229	2.5			645,517	5.3
PURCHASE TOTAL	7,389	0	0.0	21,968	3.0	-9,659	-1.3	12,309	1.7
RECEIVE KW	0	0	0.0	0	0.0			0	0.0
EC	7,411			22,095	3.0	-9,665	-1.3	12,430	1.7
SEND KW	-22			-127	5.7	6	-0.3	-120	5.4
EC	0			0	0.0	0	0.0	0	0.0
(DEMAND)	129,156	339,288	2.6	328,197	2.5			657,826	5.1
SHORTAGE	0	339,288	2.6	328,197	2.5			0	0.0

2.8 Peak Shift Demand Interconnection;1,300MW PSPP;750MW in N (2015)

**TABLE 2-8-1 kW BALANCE (MARGINAL OPERATION)
(NORTH)**

FY. 2015														(MW)
MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	
DEMAND	7,967	8,019	8,103	8,220	8,340	8,438	8,499	8,520	8,529	8,529	8,512	8,503	100,179	
PURCHASE	3	0	0	0	7	0	0	0	0	0	0	0	10	
OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO A	63	69	62	64	65	106	106	106	73	87	105	84	991	
AB	4,686	4,770	4,674	4,756	4,624	6,491	6,294	6,388	5,120	5,589	4,564	4,761	62,717	
PA	269	262	290	280	306	397	677	750	341	320	404	311	4,608	
PB	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO TOTAL	5,018	5,101	5,027	5,100	4,995	6,993	7,078	7,244	5,534	5,996	5,073	5,156	68,316	
THERMAL,NUCLEA	4,775	4,775	4,775	4,775	4,775	4,775	4,775	4,775	4,775	4,775	4,775	4,775	57,298	
SUPPLY CAPACITY	9,796	9,876	9,802	9,875	9,777	11,768	11,852	12,019	10,309	10,771	9,848	9,931	125,624	
MAINTENANCE	342	360	186	121	0	1,755	1,767	1,909	188	650	0	0	7,278	
RESERVE CAPACIT	1,487	1,497	1,512	1,534	1,437	1,575	1,586	1,590	1,592	1,592	1,336	1,428	18,166	
RESERVE RATE (%)	19	19	19	19	17	19	19	19	19	19	16	17	18	
(REFERENCE) MAINTENANCE	262	283	108	41	0	1,673	1,685	1,826	105	568	0	0	6,551	

**TABLE 2-8-2 kW BALANCE (MARGINAL OPERATION)
(CENTRAL&SOUTH)**

FY. 2015														(MW)
MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	
DEMAND	13,095	13,239	13,436	13,573	13,680	13,790	13,884	13,962	14,009	14,068	14,122	14,172	165,030	
PURCHASE	-3	0	0	0	-7	0	0	0	0	0	0	0	-10	
OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO A	201	232	206	208	210	234	270	312	312	312	312	256	3,063	
AB	5,169	5,516	4,958	5,036	4,869	5,302	5,677	6,190	6,588	6,701	6,567	6,045	68,619	
PA	0	0	0	0	0	0	0	0	0	0	0	0	0	
PB	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO TOTAL	5,370	5,748	5,163	5,244	5,079	5,536	5,947	6,502	6,900	7,013	6,879	6,302	71,682	
THERMAL,NUCLEA	10,377	10,377	10,377	10,377	10,377	10,377	10,377	10,377	10,377	10,377	10,377	10,377	124,523	
SUPPLY CAPACITY	15,744	16,125	15,540	15,621	15,449	15,913	16,324	16,879	17,277	17,390	17,256	16,679	196,195	
MAINTENANCE	1,494	1,719	920	852	563	907	1,216	1,686	2,033	2,082	1,889	1,257	16,619	
RESERVE CAPACIT	1,154	1,167	1,184	1,196	1,206	1,215	1,224	1,231	1,235	1,240	1,245	1,249	14,546	
RESERVE RATE (%)	9	9	9	9	9	9	9	9	9	9	9	9	9	
(REFERENCE) MAINTENANCE	1,364	1,585	784	714	431	768	1,076	1,545	1,891	1,939	1,746	1,114	14,957	

**TABLE2-8-5 FUEL CONSUMPTION
(NORTH)**

FY. 2015

(UNIT 10*6)

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
GAS ST (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
GAS C/C (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
GAS GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
OIL ST (EQUIVALENT).	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
OIL GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
DIESEL (EQUIVALENT)	3 3	2 2	3 3	3 3	4 4	0 0	0 0	0 0	0 0	0 0	0 0	3 3	18 18
COAL ST (EQUIVALENT)	1,221 677	1,098 610	1,262 700	1,241 689	1,292 717	784 435	800 444	758 421	1,195 663	1,107 614	1,224 679	1,292 717	13,273 7,366
(EQUIV.TOTAL)	680	612	703	692	721	435	444	421	663	614	679	720	7,384

**TABLE2-8-6 FUEL CONSUMPTION
(CENTRAL&SOUTH)**

FY. 2015

(UNIT 10*6)

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
GAS ST (EQUIVALENT)	344 347	303 305	359 362	343 347	358 362	293 296	307 310	273 275	290 292	264 266	283 286	346 349	3,763 3,797
GAS C/C (EQUIVALENT)	574 579	477 482	610 616	604 610	643 649	552 557	566 571	493 498	435 439	434 437	478 482	605 610	6,471 6,530
GAS GT (EQUIVALENT)	36 36	24 24	23 23	23 23	24 24	15 15	17 17	3 3	22 22	20 20	0 0	2 2	208 210
OIL ST (EQUIVALENT).	119 119	106 106	136 136	126 126	131 131	115 115	117 117	112 112	106 106	109 109	107 107	126 126	1,410 1,410
OIL GT (EQUIVALENT)	1 1	1 1	1 1	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	3 3
DIESEL (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
COAL ST (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
(EQUIV.TOTAL)	1,082	918	1,138	1,106	1,166	983	1,015	888	859	832	875	1,087	11,950

GAS ST	10,000 KCAL	KG	UNIT	KG.
GAS C/C	10,000 KCAL	KG	UNIT	KG.
GAS GT	10,000 KCAL	KG	UNIT	KG.
OIL ST	9,910 KCAL	KG	UNIT	KG.
OIL GT	9,910 KCAL	KG	UNIT	KG.
DIESEL	10,150 KCAL	KG	UNIT	KG.
COAL ST	5,500 KCAL	KG	UNIT	KG.
(EQUIVALENT)	9,910 KCAL	KG	UNIT	KG.

**TABLE2-8-7 ECONOMIC EVALUATION-1
(NORTH)**

FY. 2015

	ENERGY (GWH)	FIXED COST		FUEL COST		PURCHASE MERIT		TOTAL COST	
		(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)
OTHERS	0	0	0.0	0	0.0			0	0.0
CONVEN HYDRO	29,424	108,809	3.7	0	0.0			108,809	3.7
PUMPED HYDRO	764	5,363	7.0	0	0.0			5,363	7.0
NUCLEAR	0	0	0.0	0	0.0			0	0.0
GAS ST	0	0	0.0	0	0.0			0	0.0
GAS C/C	0	0	0.0	0	0.0			0	0.0
GAS GT	0	0	0.0	0	0.0			0	0.0
OIL ST	0	0	0.0	0	0.0			0	0.0
OIL GT	0	0	0.0	0	0.0			0	0.0
DIESEL	27	345	12.8	599	22.2			944	35.0
COAL ST	32,372	70,069	2.2	43,561	1.3			113,630	3.5
TOTAL	62,587	184,586	2.9	44,160	0.7			228,746	3.7
PURCHASE TOTAL	-7,441	0	0.0	-2,721	0.4	-8,866	1.2	-11,587	1.6
RECEIVE KW	0	0	0.1	0	1.2			1	1.3
EC	0			0	0.0	0	0.0	0	0.0
SEND KW	0			0	0.0	0	0.0	0	0.0
EC	-7,441			-2,722	0.4	-8,866	1.2	-11,587	1.6
(DEMAND)	51,743	184,586	3.6	41,439	0.8			217,159	4.2
SHORTAGE	0	184,586	3.6	41,439	0.8			0	0.0

**TABLE2-8-8 ECONOMIC EVALUATION-1
(CENTRAL&SOUTH)**

FY. 2015

	ENERGY (GWH)	FIXED COST		FUEL COST		PURCHASE MERIT		TOTAL COST	
		(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)
OTHERS	0	0	0.0	0	0.0			0	0.0
CONVEN HYDRO	31,292	118,237	3.8	0	0.0			118,237	3.8
PUMPED HYDRO	0	0	0.0	0	0.0			0	0.0
NUCLEAR	0	0	0.0	0	0.0			0	0.0
GAS ST	10,616	24,243	2.3	64,495	6.1			88,738	8.4
GAS C/C	35,701	61,241	1.7	111,537	3.1			172,778	4.8
GAS GT	730	3,372	4.6	3,568	4.9			6,940	9.5
OIL ST	4,644	13,450	2.9	26,651	5.7			40,101	8.6
OIL GT	6	1,684	280.6	93	15.5			1,777	296.1
DIESEL	0	2,881	0.0	7	0.0			2,888	0.0
COAL ST	0	0	0.0	0	0.0			0	0.0
TOTAL	82,988	225,107	2.7	206,351	2.5			431,458	5.2
PURCHASE TOTAL	7,441	0	0.0	21,195	2.8	-8,864	-1.2	12,331	1.7
RECEIVE KW	0	0	0.0	0	0.0			0	0.0
EC	7,441			21,197	2.8	-8,866	-1.2	12,332	1.7
SEND KW	0			-2	5.4	2	-4.2	0	1.2
EC	0			0	0.0	0	0.0	0	0.0
(DEMAND)	90,429	225,107	2.5	227,546	2.5			443,790	4.9
SHORTAGE	0	225,107	2.5	227,546	2.5			0	0.0

2.9 Peak Shift Demand Interconnection;1,300MW PSPP;1,500MW (2020)

**TABLE 2-9-1 kW BALANCE (MARGINAL OPERATION)
(NORTH)**

FY. 2020														(MW)
MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	
DEMAND	11,353	11,422	11,524	11,660	11,798	11,914	11,993	12,031	12,056	12,073	12,073	12,080	141,977	
PURCHASE	0	27	0	0	0	0	0	0	0	0	0	0	27	
OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO A	70	72	68	71	69	106	106	106	78	89	106	89	1,030	
AB	5,391	5,504	5,403	5,492	5,365	7,841	7,644	7,738	6,891	6,953	5,391	5,503	75,118	
PA	638	612	652	638	673	909	1,492	1,500	726	649	868	706	10,062	
PB	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO TOTAL	6,099	6,189	6,123	6,201	6,107	8,856	9,243	9,344	7,694	7,691	6,364	6,298	86,209	
THERMAL,NUCLEAR.	7,475	7,475	7,475	7,475	7,475	7,475	7,475	7,475	7,475	7,475	7,475	7,475	89,698	
SUPPLY CAPACITY	13,574	13,691	13,598	13,676	13,582	16,331	16,717	16,819	15,169	15,166	13,839	13,772	175,934	
MAINTENANCE	532	570	360	282	30	2,645	2,941	2,999	1,320	1,297	0	0	12,977	
RESERVE CAPACITY	1,688	1,699	1,714	1,734	1,755	1,772	1,784	1,789	1,793	1,795	1,766	1,692	20,980	
RESERVE RATE (%)	15	15	15	15	15	15	15	15	15	15	15	14	15	
(REFERENCE) MAINTENANCE	398	418	224	144	0	2,504	2,799	2,857	1,178	1,155	0	0	11,677	

**TABLE 2-9-2 kW BALANCE (MARGINAL OPERATION)
(CENTRAL&SOUTH)**

FY. 2020														(MW)
MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	
DEMAND	18,913	19,091	19,319	19,492	19,638	19,785	19,917	20,034	20,121	20,220	20,315	20,406	237,251	
PURCHASE	0	-27	0	0	0	0	0	0	0	0	0	0	-27	
OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO A	238	276	240	261	277	312	304	312	312	312	312	267	3,420	
AB	6,448	6,867	6,186	6,355	6,059	6,609	7,053	7,173	7,623	7,710	7,562	7,435	83,080	
PA	0	0	0	0	0	0	0	0	0	0	0	0	0	
PB	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO TOTAL	6,686	7,143	6,427	6,615	6,336	6,921	7,357	7,485	7,935	8,022	7,874	7,701	86,500	
THERMAL,NUCLEAR.	16,757	16,757	16,757	16,757	16,757	16,757	16,757	16,757	16,757	16,757	16,757	16,757	201,083	
SUPPLY CAPACITY	23,443	23,873	23,183	23,372	23,093	23,678	24,114	24,241	24,692	24,779	24,631	24,458	287,556	
MAINTENANCE	3,035	3,274	2,338	2,340	1,903	2,329	2,623	2,625	2,981	2,961	2,710	2,440	31,560	
RESERVE CAPACITY	1,494	1,508	1,526	1,540	1,552	1,563	1,574	1,583	1,590	1,598	1,605	1,612	18,745	
RESERVE RATE (%)	8	8	8	8	8	8	8	8	8	8	8	8	8	
(REFERENCE) MAINTENANCE	2,782	3,041	2,079	2,079	1,640	2,064	2,356	2,356	2,711	2,690	2,438	2,167	28,403	

**TABLE 2-9-5 FUEL CONSUMPTION
(NORTH)**

FY. 2020

(UNIT 10*6)

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
GAS ST (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
GAS C/C (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
GAS GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
OIL ST (EQUIVALENT).	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
OIL GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
DIESEL (EQUIVALENT)	3 3	2 2	3 3	3 3	3 3	0 0	0 0	0 0	0 0	0 0	0 0	3 3	17 17
COAL ST (EQUIVALENT)	1,929 1,071	1,716 952	1,974 1,096	1,926 1,069	2,035 1,129	1,267 703	1,223 679	1,197 665	1,619 899	1,677 931	1,918 1,064	2,034 1,129	20,515 11,386
(EQUIV.TOTAL)	1,074	954	1,099	1,072	1,132	703	679	665	899	931	1,064	1,132	11,403

**TABLE 2-9-6 FUEL CONSUMPTION
(CENTRAL&SOUTH)**

FY. 2020

(UNIT 10*6)

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
GAS ST (EQUIVALENT)	330 333	277 280	343 346	330 333	332 335	299 302	319 322	297 300	297 300	288 290	269 271	315 318	3,697 3,731
GAS C/C (EQUIVALENT)	806 814	698 705	835 843	817 824	856 864	756 762	790 797	708 714	664 671	688 694	735 741	826 834	9,179 9,262
GAS GT (EQUIVALENT)	4 4	4 4	4 4	4 4	2 2	29 29	4 4	1 1	0 0	2 3	0 0	0 0	56 56
OIL ST (EQUIVALENT).	116 116	109 109	120 120	115 115	120 120	112 112	116 116	115 115	119 119	113 113	111 111	118 118	1,384 1,384
OIL GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	1 1	0 0	0 0	0 0	0 0	0 0	0 0	1 1
DIESEL (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
COAL ST (EQUIVALENT)	230 128	203 113	244 135	236 131	253 140	236 131	239 132	239 132	224 124	232 129	229 127	242 134	2,807 1,558
(EQUIV.TOTAL)	1,395	1,211	1,448	1,407	1,461	1,337	1,371	1,262	1,214	1,229	1,250	1,404	15,992

GAS ST	10,000 KCAL	KG	UNIT	KG.
GAS C/C	10,000 KCAL	KG	UNIT	KG.
GAS GT	10,000 KCAL	KG	UNIT	KG.
OIL ST	9,910 KCAL	KG	UNIT	KG.
OIL GT	9,910 KCAL	KG	UNIT	KG.
DIESEL	10,150 KCAL	KG	UNIT	KG.
COAL ST	5,500 KCAL	KG	UNIT	KG.
(EQUIVALENT)	9,910 KCAL	KG	UNIT	KG.

**TABLE2-9-7 ECONOMIC EVALUATION-1
(NORTH)**

FY. 2020

	ENERGY (GWH)	FIXED COST (10*6CENT)	(CENT/KWH)	FUEL COST (10*6CENT)	(CENT/KWH)	PURCHASE MERIT (10*6CENT)	(CENT/KWH)	TOTAL COST (10*6CENT)	(CENT/KWH)
OTHERS	0	0	0.0	0	0.0			0	0.0
CONVEN HYDRO	34,788	128,617	3.7	0	0.0			128,617	3.7
PUMPED HYDRO	1,751	10,725	6.1	0	0.0			10,725	6.1
NUCLEAR	0	0	0.0	0	0.0			0	0.0
GAS ST	0	0	0.0	0	0.0			0	0.0
GAS C/C	0	0	0.0	0	0.0			0	0.0
GAS GT	0	0	0.0	0	0.0			0	0.0
OIL ST	0	0	0.0	0	0.0			0	0.0
OIL GT	0	0	0.0	0	0.0			0	0.0
DIESEL	22	345	15.7	603	27.4			948	43.1
COAL ST	50,665	103,624	2.0	74,923	1.5			178,547	3.5
TOTAL	87,227	243,312	2.8	75,526	0.9			318,838	3.7
PURCHASE TOTAL	-6,653	0	0.0	-4,272	0.6	-7,586	1.1	-11,858	1.8
RECEIVE KW	1	0	0.1	1	1.5			1	1.6
EC	0			0	0.0	0	0.0	0	0.0
SEND KW	0			0	0.0	0	0.0	0	0.0
EC	-6,654			-4,274	0.6	-7,586	1.1	-11,860	1.8
(DEMAND)	73,207	243,312	3.3	71,254	1.0			306,979	4.2
SHORTAGE	0	243,312	3.3	71,254	1.0			0	0.0

**TABLE2-9-8 ECONOMIC EVALUATION-1
(CENTRAL&SOUTH)**

FY. 2020

	ENERGY (GWH)	FIXED COST (10*6CENT)	(CENT/KWH)	FUEL COST (10*6CENT)	(CENT/KWH)	PURCHASE MERIT (10*6CENT)	(CENT/KWH)	TOTAL COST (10*6CENT)	(CENT/KWH)
OTHERS	0	0	0.0	0	0.0			0	0.0
CONVEN HYDRO	36,497	136,521	3.7	0	0.0			136,521	3.7
PUMPED HYDRO	0	0	0.0	0	0.0			0	0.0
NUCLEAR	12,549	57,200	4.6	13,147	1.0			70,347	5.6
GAS ST	10,263	24,243	2.4	70,204	6.8			94,447	9.2
GAS C/C	51,356	92,066	1.8	174,654	3.4			266,720	5.2
GAS GT	183	3,372	18.4	1,053	5.8			4,425	24.2
OIL ST	4,551	13,450	3.0	27,331	6.0			40,781	9.0
OIL GT	1	1,684	1,683.8	30	30.0			1,714	1,713.8
DIESEL	0	2,881	0.0	7	0.0			2,888	0.0
COAL ST	7,103	12,194	1.7	12,213	1.7			24,407	3.4
TOTAL	122,503	343,611	2.8	298,638	2.4			642,249	5.2
PURCHASE TOTAL	6,653	0	0.0	20,106	3.0	-7,582	-1.1	12,524	1.9
RECEIVE KW	0	0	0.0	0	0.0			0	0.0
EC	6654			20,111	3.0	-7,586	-1.1	12,525	1.9
SEND KW	-1			-5	5.6	4	-4.2	-1	1.5
EC	0			0	0.0	0	0.0	0	0.0
(DEMAND)	129,156	343,611	2.7	318,744	2.5			654,773	5
SHORTAGE	0	343,611	2.7	318,744	2.5			0	0

2.10 Peak Shift Demand Interconnection;1,300MW PSPP;1,500 Coal;3,000MW (2020)

**TABLE 2-10-1 kW BALANCE (MARGINAL OPERATION)
(NORTH)**

FY. 2020														(MW)
MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	
DEMAND	11,353	11,422	11,524	11,660	11,798	11,914	11,993	12,031	12,056	12,073	12,073	12,080	141,977	
PURCHASE	0	27	0	0	0	0	0	0	0	0	0	0	27	
OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO A	70	72	68	71	69	106	106	106	78	89	106	89	1,030	
AB	5,391	5,504	5,403	5,492	5,365	7,841	7,644	7,738	6,891	6,953	5,391	5,503	75,118	
PA	638	612	652	638	673	909	1,492	1,500	726	649	868	706	10,062	
PB	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO TOTAL	6,099	6,189	6,123	6,201	6,107	8,856	9,243	9,344	7,694	7,691	6,364	6,298	86,209	
THERMAL,NUCLEAR.	7,475	7,475	7,475	7,475	7,475	7,475	7,475	7,475	7,475	7,475	7,475	7,475	89,698	
SUPPLY CAPACITY	13,574	13,691	13,598	13,676	13,582	16,331	16,717	16,819	15,169	15,166	13,839	13,772	175,934	
MAINTENANCE	532	570	360	282	30	2,645	2,941	2,999	1,320	1,297	0	0	12,977	
RESERVE CAPACITY	1,688	1,699	1,714	1,734	1,755	1,772	1,784	1,789	1,793	1,795	1,766	1,692	20,980	
RESERVE RATE (%)	15	15	15	15	15	15	15	15	15	15	15	14	15	
(REFERENCE) MAINTENANCE	398	418	224	144	0	2,504	2,799	2,857	1,178	1,155	0	0	11,677	

**TABLE 2-10-2 kW BALANCE (MARGINAL OPERATION)
(CENTRAL&SOUTH)**

FY. 2020														(MW)
MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	
DEMAND	18,913	19,091	19,319	19,492	19,638	19,785	19,917	20,034	20,121	20,220	20,315	20,406	237,251	
PURCHASE	0	-27	0	0	0	0	0	0	0	0	0	0	-27	
OTHERS	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO A	238	276	240	261	277	312	304	312	312	312	312	267	3,420	
AB	6,448	6,867	6,186	6,355	6,059	6,609	7,053	7,173	7,623	7,710	7,562	7,435	83,080	
PA	0	0	0	0	0	0	0	0	0	0	0	0	0	
PB	0	0	0	0	0	0	0	0	0	0	0	0	0	
HYDRO TOTAL	6,686	7,143	6,427	6,615	6,336	6,921	7,357	7,485	7,935	8,022	7,874	7,701	86,500	
THERMAL,NUCLEAR.	16,677	16,677	16,677	16,677	16,677	16,677	16,677	16,677	16,677	16,677	16,677	16,677	200,123	
SUPPLY CAPACITY	23,363	23,793	23,103	23,292	23,013	23,598	24,034	24,161	24,612	24,699	24,551	24,378	286,596	
MAINTENANCE	3,078	3,318	2,384	2,387	1,951	2,378	2,673	2,675	3,032	3,013	2,763	2,493	32,144	
RESERVE CAPACITY	1,371	1,384	1,401	1,413	1,424	1,434	1,444	1,452	1,459	1,466	1,473	1,479	17,200	
RESERVE RATE (%)	7	7	7	7	7	7	7	7	7	7	7	7	7	
(REFERENCE) MAINTENANCE	2,820	3,081	2,120	2,121	1,683	2,108	2,401	2,402	2,757	2,737	2,485	2,214	28,929	

**TABLE 2-10-5 FUEL CONSUMPTION
(NORTH)**

FY. 2020

(UNIT 10*6)

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
GAS ST (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
GAS C/C (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
GAS GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
OIL ST (EQUIVALENT).	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
OIL GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
DIESEL (EQUIVALENT)	3 3	2 2	3 3	3 3	3 3	0 0	0 0	0 0	0 0	0 0	0 0	3 3	17 18
COAL ST (EQUIVALENT)	1,916 1,064	1,710 949	1,960 1,088	1,920 1,066	2,015 1,118	1,267 703	1,223 679	1,197 664	1,616 897	1,675 930	1,918 1,064	2,025 1,124	20,442 11,345
(EQUIV.TOTAL)	1,067	951	1,091	1,069	1,121	703	679	664	897	930	1,064	1,127	11,363

**TABLE 2-10-6 FUEL CONSUMPTION
(CENTRAL&SOUTH)**

FY. 2020

(UNIT 10*6)

MONTH	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL
GAS ST (EQUIVALENT)	323 326	280 282	351 355	336 339	350 353	312 315	329 332	319 321	304 307	308 311	296 298	329 332	3,838 3,873
GAS C/C (EQUIVALENT)	628 634	531 536	635 641	621 626	635 641	556 561	594 599	485 490	469 474	473 477	525 530	614 619	6,766 6,828
GAS GT (EQUIVALENT)	4 4	5 5	4 4	4 4	4 4	29 29	4 4	1 1	0 0	2 2	0 0	0 0	58 59
OIL ST (EQUIVALENT).	115 115	108 108	119 119	115 115	120 120	112 112	115 115	126 126	118 118	122 122	113 113	117 117	1,401 1,401
OIL GT (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	2 2	0 0	0 0	0 0	0 0	0 0	0 0	2 2
DIESEL (EQUIVALENT)	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
COAL ST (EQUIVALENT)	691 384	610 339	732 406	708 393	757 420	709 393	716 397	715 397	672 373	695 386	688 382	726 403	8,420 4,673
(EQUIV.TOTAL)	1,463	1,270	1,525	1,477	1,538	1,412	1,447	1,335	1,272	1,298	1,323	1,471	16,836

GAS ST	10,000 KCAL	KG	UNIT	KG.
GAS C/C	10,000 KCAL	KG	UNIT	KG.
GAS GT	10,000 KCAL	KG	UNIT	KG.
OIL ST	9,910 KCAL	KG	UNIT	KG.
OIL GT	9,910 KCAL	KG	UNIT	KG.
DIESEL	10,150 KCAL	KG	UNIT	KG.
COAL ST	5,500 KCAL	KG	UNIT	KG.
(EQUIVALENT)	9,910 KCAL	KG	UNIT	KG.

**TABLE2-10-7 ECONOMIC EVALUATION-1
(NORTH)**

FY. 2020

	ENERGY (GWH)	FIXED COST		FUEL COST		PURCHASE MERIT		TOTAL COST	
		(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)
OTHERS	0	0	0.0	0	0.0			0	0.0
CONVEN HYDRO	34,788	128,617	3.7	0	0.0			128,617	3.7
PUMPED HYDRO	1,748	10,725	6.1	0	0.0			10,725	6.1
NUCLEAR	0	0	0.0	0	0.0			0	0.0
GAS ST	0	0	0.0	0	0.0			0	0.0
GAS C/C	0	0	0.0	0	0.0			0	0.0
GAS GT	0	0	0.0	0	0.0			0	0.0
OIL ST	0	0	0.0	0	0.0			0	0.0
OIL GT	0	0	0.0	0	0.0			0	0.0
DIESEL	25	345	13.8	615	24.6			960	38.4
COAL ST	50,479	103,624	2.1	74,654	1.5			178,278	3.5
TOTAL	87,041	243,312	2.8	75,269	0.9			318,581	3.7
PURCHASE TOTAL	-5,449	0	0.0	-4,013	0.7	-5,910	1.1	-9,923	1.8
RECEIVE KW	1	0	0.1	1	1.5			1	1.6
EC	0			0	0.0	0	0.0	0	0.0
SEND KW	0			0	0.0	0	0.0	0	0.0
EC	-5,449			-4,014	0.7	-5,910	1.1	-9,924	1.8
(DEMAND)	73,207	243,312	3.3	71,256	1.0			308,658	4.2
SHORTAGE	0	243,312	3.3	71,256	1.0			0	0.0

**TABLE2-10-8 ECONOMIC EVALUATION-1
(CENTRAL&SOUTH)**

FY. 2020

	ENERGY (GWH)	FIXED COST		FUEL COST		PURCHASE MERIT		TOTAL COST	
		(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)	(10*6CENT)	(CENT/kWH)
OTHERS	0	0	0.0	0	0.0			0	0.0
CONVEN HYDRO	36,497	136,521	3.7	0	0.0			136,521	3.7
PUMPED HYDRO	0	0	0.0	0	0.0			0	0.0
NUCLEAR	12,549	57,200	4.6	13,146	1.0			70,346	5.6
GAS ST	11,020	24,243	2.2	72,891	6.6			97,134	8.8
GAS C/C	37,533	73,097	1.9	128,704	3.4			201,801	5.4
GAS GT	190	3,372	17.7	1,102	5.8			4,474	23.5
OIL ST	4,611	13,450	2.9	27,667	6.0			41,117	8.9
OIL GT	3	1,684	561.3	69	23.0			1,753	584.3
DIESEL	0	2,881	0.0	7	0.0			2,888	0.0
COAL ST	21,305	36,582	1.7	34,082	1.6			70,664	3.3
TOTAL	123,708	349,029	2.8	277,669	2.2			626,699	5.1
PURCHASE TOTAL	5,449	0	0.0	16,373	3.0	-5,906	-1.1	10,468	1.9
RECEIVE KW	0	0	0.0	0	0.0			0	0.0
EC	5449			16378	3.0	-5910	-1.1	10469	1.9
SEND KW	-1			-5	5.6	4	-4.2	-1	1.5
EC	0			0	0.0	0	0.0	0	0.0
(DEMAND)	129,156	349,029	2.7	294,042	2.3			637,166	4.9
SHORTAGE	0	349,029	2.7	294,042	2.3			0	0.0