

## 6.2 Hydropower Generating Facilities

### 6.2.1 Procedure of Energy Generation Review

The procedure of the review is as follows;

- 1) to make mass curve by using discharge data of the project
- 2) to calculate firm discharge ( $Q_f$ ) based on the effective volume of the reservoir and mass curve
- 3) to make reservoir operation rule which can generate provable maximum annual energy based on  $Q_f$ , which can be done automatically by our computer program
- 4) to calculate monthly average capacity and energy during the term of the discharge data
- 5) to find "firm capacity" defined as the value which is not less than monthly average capacity in 95% of the calculating term.

Appendix 6.2-1 Reviewed Projects and used discharge data and calculation term

Project	The Name of G/S	C.A. of G/S (km <sup>2</sup> )	Start of Calculation	End of Calculation	Remarks
Hoa Binh	Hoa Binh	51,700	Jan,1961	Dec,1991	Along the Da river
Son La	Ta Bu	45,700	Jan,1961	Dec,1991	
Huoi Quan	N0.60.	2,930	Jan,1961	Dec,1991	
Yaly	Tuyen Dap	7,455	Jan,1961	Dec,1990	Along the Sesan river
Plei Krung	Tuyen Dap	7,455	Jan,1961	Dec,1990	
Thuong Kontum	Tuyen Dap	7,455	Jan,1961	Dec,1990	
Sesan 3	Tuyen Dap	7,455	Jan,1961	Dec,1990	
Sesan 4	Tuyen Dap	7,455	Jan,1961	Dec,1990	
Tri An	Cay Gao	14,800	Jan,1979	Dec,1986	Along the Dong Nai river
Ham Thuan	Cay Gao	14,800	Jan,1979	Dec,1986	
Da Mi	Cay Gao	14,800	Jan,1979	Dec,1986	
Dai Ninh	Cay Gao	14,800	Jan,1979	Dec,1986	
Dong Nai 8	Cay Gao	14,800	Jan,1979	Dec,1986	
Dong Nai 4	Cay Gao	14,800	Jan,1979	Dec,1986	

Appendix 6.2-1 Monthly Discharge (unit:CMS) at HUOI QUANG Dam Site No.60 gauging station 20 km upstream from dam site

Year	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Average	Total	Max	Min
1961	352.27	503.69	383.82	247.15	91.14	49.88	49.09	34.44	47.98	48.31	72.91	81.86	163.71	2,128.25	503.69	34.44
1962	287.41	299.71	580.41	236.41	146.50	82.64	62.40	62.63	40.60	29.86	48.98	98.64	164.68	2,140.87	580.41	29.86
1963	441.74	435.03	335.50	135.32	79.62	43.61	62.40	24.71	22.03	29.86	21.92	49.88	137.27	1,784.55	441.74	21.92
1964	183.40	421.61	309.77	176.69	127.49	192.35	70.79	42.83	32.32	31.09	44.62	89.02	143.50	1,865.48	421.61	31.09
1965	390.29	619.55	324.31	161.04	178.93	75.82	56.25	39.81	38.35	31.09	54.59	66.65	169.73	2,206.52	619.55	31.09
1966	488.71	498.77	367.93	138.67	183.40	139.79	78.95	52.90	37.02	26.62	33.10	46.97	174.40	2,267.23	498.77	26.62
1967	495.42	798.48	374.64	211.36	98.52	60.72	41.49	34.78	33.77	23.71	35.45	73.92	190.19	2,472.45	798.48	23.71
1968	167.75	297.47	493.18	176.69	82.20	54.80	46.30	33.55	36.79	31.87	69.11	100.98	132.56	1,723.25	493.18	31.87
1969	366.81	613.96	427.20	242.68	144.26	117.42	52.11	35.45	26.76	22.93	30.64	149.85	185.84	2,415.91	613.96	22.93
1970	295.24	479.76	885.71	148.74	75.15	84.55	41.83	43.17	36.68	23.82	44.17	266.16	202.08	2,627.06	885.71	23.82
1971	248.27	1,063.52	287.41	277.34	105.79	56.25	73.59	37.69	41.71	25.39	53.68	117.42	199.01	2,587.07	1,063.52	25.39
1972	413.78	521.14	726.91	229.26	91.37	51.67	36.90	36.46	26.84	25.16	45.18	119.66	193.69	2,518.02	726.91	25.16
1973	207.63	572.58	322.08	216.95	169.98	89.24	62.63	41.71	45.96	55.02	102.66	208.01	174.54	2,268.99	572.58	41.71
1974	390.29	421.61	441.74	295.24	107.14	55.80	37.35	28.29	22.70	22.81	35.45	99.98	163.20	2,121.60	441.74	22.70
1975	499.89	691.12	281.82	418.26	189.00	60.39	39.36	45.18	27.85	25.72	65.53	187.88	211.00	2,743.00	691.12	25.72
1976	384.70	338.85	199.05	187.88	119.66	116.31	57.26	40.04	49.99	32.65	61.62	216.95	150.41	1,955.38	384.70	32.65
1977	366.81	357.86	362.34	194.59	108.25	93.60	45.29	40.04	30.87	24.94	63.86	73.36	146.82	1,908.63	366.81	24.94
1978	275.11	674.35	347.80	128.61	121.90	66.88	49.88	61.26	37.46	27.18	26.50	206.89	168.65	2,192.49	674.35	26.50
1979	375.76	324.31	350.03	288.53	114.07	52.90	37.13	33.44	42.50	27.51	36.68	73.70	146.38	1,902.94	375.76	27.51
1980	265.04	365.69	588.24	450.68	88.24	45.18	30.98	23.71	24.38	20.80	27.06	81.53	167.63	2,179.16	588.24	20.80
1981	148.74	454.04	413.78	216.95	74.70	40.82	36.68	46.30	27.62	26.50	48.54	176.69	142.61	1,853.97	454.04	26.50
1982	315.37	509.95	490.94	269.52	135.32	118.54	54.13	36.90	40.71	24.27	56.59	61.28	176.13	2,289.65	509.95	24.27
1983	211.36	339.97	458.51	313.13	138.67	100.65	54.24	37.13	31.31	41.38	22.93	58.82	142.64	1,854.34	458.51	22.93
1984	162.16	284.05	362.34	238.20	125.25	92.60	43.61	33.44	26.17	20.80	66.09	209.13	146.69	1,906.93	362.34	20.80
1985	501.01	451.80	258.33	225.90	191.23	57.82	37.35	31.87	27.40	26.06	42.16	72.47	160.28	2,083.68	501.01	26.06
1986	296.35	339.97	374.64	281.92	78.73	127.49	53.01	33.77	24.60	20.13	90.81	194.59	159.66	2,075.57	374.64	20.13
1987	380.23	644.15	184.52	171.00	92.82	51.22	35.23	34.22	23.82	21.36	25.83	36.57	141.76	1,842.83	644.15	21.36
1988	156.56	376.87	306.42	149.85	138.67	83.09	40.26	34.89	31.42	24.49	38.82	165.51	128.90	1,675.75	376.87	24.49
1989	179.59	474.17	380.23	307.54	107.36	48.76	38.47	31.42	27.62	29.08	44.73	120.78	149.15	1,938.90	474.17	27.62
Ave.	318.89	488.76	400.75	232.28	120.87	79.68	47.95	38.35	33.22	28.29	48.63	120.87	163.71	2,128.25	503.69	34.44
Max	501.01	1,063.52	885.71	450.68	191.23	192.35	78.95	62.63	49.99	55.02	102.66	208.01	193.69	2,587.07	1,063.52	208.01
Min	148.74	284.05	184.52	128.61	74.70	40.82	28.07	23.71	22.03	20.13	21.92	36.57	128.90	1,675.75	20.13	21.92

Appendix 6.2-1 Monthly Discharge (unit:CMS) at SON LA, Dam Site, River G.S. No.61 locating 6 km downstream from dam site

Year	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Average	Total	Max	Min
1961	2,424.0	2,856.0	5,632.0	2,434.0	1,730.0	1,086.0	776.0	692.0	504.0	350.0	350.0	692.0	1,627.2	19,526.0	5,632.0	350.0
1962	3,238.0	3,902.0	3,791.0	1,579.0	1,157.0	686.0	438.0	362.0	300.0	293.0	236.0	292.0	1,356.2	16,274.0	3,902.0	236.0
1963	1,076.0	2,876.0	3,389.0	1,619.0	1,488.0	1,740.0	720.0	516.0	406.0	338.0	325.0	682.0	1,259.6	15,115.0	3,329.0	325.0
1964	2,102.0	5,491.0	3,570.0	2,635.0	1,519.0	1,026.0	760.0	517.0	417.0	323.0	365.0	414.0	1,594.9	19,139.0	5,491.0	323.0
1965	2,223.0	3,621.0	3,168.0	1,428.0	2,032.0	1,921.0	991.0	690.0	484.0	357.0	336.0	487.0	1,478.2	17,738.0	3,621.0	336.0
1966	3,138.0	5,632.0	4,495.0	3,470.0	2,182.0	1,126.0	714.0	543.0	409.0	319.0	360.0	449.0	1,903.1	22,837.0	5,632.0	319.0
1967	1,066.0	2,866.0	4,365.0	2,132.0	1,348.0	1,086.0	724.0	648.0	523.0	408.0	585.0	788.0	1,378.3	16,540.0	4,365.0	408.0
1968	1,861.0	4,948.0	4,043.0	2,846.0	2,102.0	1,388.0	697.0	495.0	356.0	280.0	264.0	543.0	1,651.9	19,823.0	4,948.0	264.0
1969	1,569.0	3,208.0	7,130.0	2,072.0	1,096.0	831.0	530.0	436.0	358.0	268.0	312.0	1,177.0	1,582.3	18,987.0	7,130.0	268.0
1970	1,951.0	6,970.0	3,590.0	2,384.0	1,167.0	774.0	1,267.0	554.0	456.0	333.0	148.0	726.0	1,693.3	20,320.0	6,970.0	148.0
1971	2,715.0	4,224.0	8,005.0	3,389.0	1,408.0	883.0	547.0	457.0	338.0	285.0	357.0	547.0	1,929.6	23,155.0	8,005.0	285.0
1972	1,659.0	4,335.0	3,138.0	2,233.0	1,951.0	1,468.0	1,247.0	569.0	436.0	474.0	512.0	1,046.0	1,589.0	19,068.0	4,335.0	436.0
1973	2,404.0	3,399.0	3,993.0	2,665.0	1,458.0	1,227.0	680.0	494.0	375.0	316.0	363.0	593.0	1,497.3	17,967.0	3,993.0	316.0
1974	1,901.0	3,781.0	3,560.0	3,832.0	1,680.0	861.0	587.0	537.0	390.0	289.0	440.0	881.0	1,561.6	18,739.0	3,832.0	289.0
1975	2,534.0	2,967.0	3,460.0	1,881.0	1,307.0	1,036.0	689.0	501.0	555.0	358.0	390.0	1,197.0	1,304.8	15,658.0	2,967.0	358.0
1976	2,202.0	3,460.0	4,817.0	2,554.0	1,448.0	1,197.0	750.0	530.0	433.0	336.0	448.0	525.0	1,558.3	18,700.0	4,817.0	336.0
1977	1,368.0	5,049.0	3,791.0	1,589.0	1,589.0	965.0	602.0	659.0	396.0	291.0	262.0	1,096.0	1,471.4	17,657.0	5,049.0	262.0
1978	2,725.0	3,017.0	3,208.0	2,353.0	1,056.0	600.0	387.0	318.0	317.0	239.0	240.0	319.0	1,231.6	14,779.0	3,208.0	239.0
1979	1,207.0	2,524.0	4,073.0	4,304.0	1,378.0	625.0	449.0	325.0	313.0	243.0	225.0	350.0	1,334.7	16,016.0	4,304.0	225.0
1980	774.0	2,766.0	3,550.0	1,961.0	1,297.0	619.0	471.0	397.0	302.0	234.0	291.0	1,167.0	1,152.4	13,829.0	3,550.0	234.0
1981	2,444.0	3,631.0	4,184.0	2,957.0	1,629.0	1,770.0	863.0	596.0	485.0	299.0	478.0	344.0	1,640.0	19,680.0	4,184.0	299.0
1982	1,509.0	3,128.0	4,787.0	2,343.0	1,931.0	1,106.0	724.0	530.0	397.0	433.0	237.0	943.0	1,455.7	17,468.0	4,787.0	237.0
1983	911.0	1,619.0	4,214.0	3,631.0	1,519.0	1,951.0	891.0	614.0	405.0	285.0	297.0	945.0	1,440.2	17,282.0	4,214.0	285.0
1984	2,444.0	4,174.0	2,474.0	2,625.0	2,072.0	848.0	548.0	439.0	361.0	266.0	370.0	625.0	1,437.3	17,248.0	4,174.0	266.0
1985	2,213.0	3,409.0	3,471.0	3,258.0	1,227.0	1,760.0	861.0	527.0	381.0	296.0	472.0	1,016.0	1,574.3	18,891.0	3,471.0	296.0
1986	1,981.0	4,978.0	3,098.0	2,524.0	1,911.0	954.0	592.0	478.0	372.0	302.0	274.0	261.0	1,477.1	17,725.0	4,978.0	261.0
1987	939.0	3,118.0	3,007.0	2,394.0	1,659.0	1,227.0	654.0	447.0	383.0	285.0	300.0	901.0	1,276.2	15,314.0	3,118.0	285.0
1988	844.0	3,570.0	3,721.0	3,359.0	1,287.0	655.0	480.0	370.0	324.0	322.0	327.0	656.0	1,326.3	15,915.0	3,721.0	322.0
1989	2,011.0	2,816.0	1,730.0	1,649.0	1,307.0	749.0	461.0	344.0	320.0	494.0	430.0	1,569.0	1,156.7	13,880.0	2,816.0	320.0
Ave.	1,911.5	3,735.7	3,936.4	2,552.2	1,549.5	1,109.8	693.1	502.9	396.4	321.3	344.7	711.4				
Max	3,238.0	6,970.0	8,005.0	4,304.0	2,182.0	1,951.0	1,267.0	692.0	555.0	494.0	586.0	1,569.0				
Min	774.0	1,619.0	1,730.0	1,428.0	1,056.0	600.0	387.0	318.0	300.0	234.0	148.0	261.0				

Appendix 6.2-1 Monthly Average River Runoff at Hoa Binh Gauging Station

Year	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Average	Total	Max	Min
1961	526.0	498.0	396.0	432.0	456.0	2,583.0	2,893.0	6,527.0	3,073.0	2,192.0	1,391.0	563.0	1,824.2	21,890.0	6,527.0	396.0
1962	861.0	607.0	428.0	402.0	800.0	3,792.0	4,790.0	4,480.0	2,235.0	1,472.0	837.0	538.0	1,770.6	21,247.0	4,790.0	402.0
1963	411.0	334.0	322.0	258.0	325.0	1,141.0	3,284.0	3,825.0	2,203.0	1,702.0	1,972.0	837.0	1,384.5	16,614.0	3,825.0	258.0
1964	563.0	417.0	350.0	346.0	759.0	2,237.0	6,233.0	4,125.0	3,226.0	2,147.0	1,229.0	832.0	1,872.0	22,464.0	6,233.0	346.0
1965	566.0	435.0	332.0	384.0	453.0	2,558.0	4,027.0	3,378.0	1,779.0	2,188.0	2,118.0	1,039.0	1,604.8	19,257.0	4,027.0	332.0
1966	735.0	509.0	363.0	336.0	530.0	3,347.0	6,244.0	4,945.0	3,976.0	2,308.0	1,239.0	761.0	2,107.8	25,293.0	6,244.0	336.0
1967	560.0	430.0	319.0	363.0	468.0	1,190.0	3,070.0	5,040.0	2,570.0	1,520.0	1,210.0	781.0	1,460.1	17,521.0	5,040.0	319.0
1968	730.0	580.0	440.0	600.0	868.0	1,890.0	5,061.0	4,461.0	3,441.0	2,330.0	1,600.0	764.0	1,897.1	22,765.0	5,061.0	440.0
1969	525.0	390.0	295.0	279.0	563.0	1,648.0	3,407.0	7,562.0	2,168.0	1,169.0	879.0	569.0	1,621.2	19,454.0	7,562.0	279.0
1970	490.0	400.0	290.0	340.0	1,239.0	2,051.0	7,425.0	4,243.0	2,932.0	1,431.0	834.0	1,401.0	1,923.0	23,076.0	7,425.0	290.0
1971	597.0	514.0	377.0	488.0	867.0	2,854.0	4,721.0	8,413.0	3,723.0	1,647.0	1,048.0	630.0	2,156.6	25,879.0	8,413.0	377.0
1972	497.0	380.0	302.0	376.0	609.0	1,757.0	4,444.0	3,844.0	2,786.0	2,237.0	1,538.0	1,348.0	1,676.5	20,118.0	4,444.0	302.0
1973	648.0	539.0	539.0	611.0	1,306.0	2,923.0	4,244.0	4,885.0	3,583.0	1,652.0	1,331.0	722.0	1,915.4	22,985.0	4,885.0	539.0
1974	537.0	399.0	328.0	375.0	621.0	2,152.0	4,144.0	4,044.0	4,465.0	2,082.0	1,041.0	670.0	1,738.2	20,858.0	4,465.0	328.0
1975	577.0	387.0	286.0	478.0	913.0	2,982.0	3,202.0	2,772.0	2,982.0	1,611.0	1,201.0	731.0	1,510.2	18,122.0	3,202.0	286.0
1976	558.0	599.0	393.0	417.0	1,151.0	2,233.0	3,574.0	5,126.0	2,763.0	1,602.0	1,402.0	811.0	1,719.1	20,629.0	5,126.0	393.0
1977	587.0	459.0	357.0	465.0	541.0	1,565.0	5,352.0	4,252.0	2,094.0	1,809.0	1,163.0	736.0	1,615.0	19,380.0	5,352.0	357.0
1978	716.0	480.0	363.0	304.0	1,206.0	2,822.0	3,202.0	3,672.0	2,942.0	1,471.0	755.0	506.0	1,536.6	18,439.0	3,672.0	304.0
1979	411.0	363.0	271.0	257.0	367.0	1,383.0	2,746.0	4,329.0	4,670.0	1,583.0	739.0	517.0	1,469.7	17,636.0	4,670.0	257.0
1980	382.0	314.0	247.0	233.0	379.0	800.0	3,248.0	3,997.0	2,718.0	1,459.0	721.0	528.0	1,252.2	15,026.0	3,997.0	233.0
1981	442.0	347.0	295.0	357.0	1,289.0	2,700.0	4,030.0	4,970.0	3,480.0	2,070.0	2,040.0	997.0	1,918.1	23,017.0	4,970.0	295.0
1982	615.0	498.0	374.0	502.0	405.0	1,695.0	3,246.0	5,076.0	3,081.0	2,233.0	1,251.0	853.0	1,652.4	19,829.0	5,076.0	374.0
1983	643.0	502.0	530.0	356.0	455.0	1,010.0	1,690.0	4,439.0	3,969.0	2,109.0	2,039.0	970.0	1,559.3	18,712.0	4,439.0	356.0
1984	751.0	506.0	380.0	378.0	1,200.0	2,992.0	4,924.0	2,782.0	2,882.0	2,502.0	1,041.0	606.0	1,745.3	20,944.0	4,924.0	378.0
1985	453.0	381.0	306.0	386.0	663.0	2,304.0	3,447.0	3,797.0	3,918.0	1,463.0	1,783.0	862.0	1,646.9	19,763.0	3,918.0	306.0
1986	661.0	437.0	329.0	567.0	1,313.0	2,280.0	5,200.0	3,550.0	2,830.0	2,040.0	1,080.0	643.0	1,744.2	20,930.0	5,200.0	329.0
1987	509.0	387.0	295.0	266.0	273.0	995.0	2,990.0	3,690.0	2,690.0	1,840.0	1,260.0	650.0	1,320.4	15,845.0	3,690.0	266.0
1988	448.0	368.0	269.0	259.0	938.0	746.0	3,450.0	3,900.0	3,790.0	1,680.0	287.0	105.0	1,353.3	16,240.0	3,900.0	105.0
1989	390.0	400.0	361.0	432.0	816.0	2,670.0	3,190.0	1,820.0	1,740.0	1,610.0	848.0	547.0	1,235.3	14,824.0	3,190.0	361.0
Ave.	565.1	443.4	349.6	387.8	750.9	2,113.8	4,049.6	4,411.9	3,038.9	1,833.2	1,237.1	755.8				
Max	861.0	607.0	539.0	611.0	1,313.0	3,792.0	7,425.0	8,413.0	4,670.0	2,502.0	2,118.0	1,401.0				
Min	382.0	314.0	247.0	233.0	273.0	746.0	1,690.0	1,820.0	1,740.0	1,169.0	287.0	105.0				

Appendix 6.2-1 Monthly Discharge (unit:CMS)at TUYEN DAP YALY Dam Site

Year	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Average	Total	Max	Min
1960	300.1	671.0	581.8	904.6	551.6	330.7	207.5	142.5	118.8	108.2	201.8	479.1	383.1	4597.7	904.6	108.2
1961	495.1	605.6	514.1	696.1	380.5	191.5	154.1	111.5	80.3	76.0	90.7	165.6	296.8	3561.1	696.1	76.0
1962	246.2	373.9	390.4	402.0	222.1	143.7	96.9	71.4	56.0	42.6	48.7	111.2	183.8	2205.1	402.0	42.6
1963	139.3	377.7	696.8	417.4	187.6	133.9	84.6	72.8	46.6	41.5	99.3	200.7	208.2	2498.2	696.8	41.5
1964	260.2	387.6	838.0	542.2	841.4	323.4	124.2	76.3	62.7	54.7	99.8	150.1	313.4	3760.6	841.4	54.7
1965	262.6	456.1	586.8	331.8	207.0	135.4	65.1	57.9	46.5	42.1	142.1	71.9	200.4	2405.3	586.8	42.1
1966	311.3	389.7	536.2	295.2	170.9	200.2	166.6	102.7	64.7	56.5	99.6	370.6	230.4	2764.2	536.2	56.5
1967	236.4	688.6	799.1	554.2	293.3	216.2	141.1	78.7	43.3	32.1	29.8	36.0	262.4	3148.8	799.1	29.8
1968	81.4	525.3	531.8	408.4	281.9	167.8	96.6	75.5	61.5	61.8	86.7	119.5	208.2	2498.2	531.8	61.5
1969	231.2	389.4	337.1	254.3	163.9	111.1	66.9	59.1	56.8	55.0	130.2	324.1	181.6	2179.1	389.4	55.0
1970	381.3	467.0	416.4	508.2	654.6	234.8	193.8	117.3	101.1	92.0	154.6	485.7	315.6	3785.8	654.6	92.0
1971	311.3	870.2	590.0	553.7	345.7	274.0	179.7	109.3	94.1	85.9	143.0	429.0	332.2	3985.9	870.2	85.9
1972	295.2	825.6	538.6	529.6	329.0	259.7	223.6	135.5	116.7	106.0	180.6	459.9	342.2	4106.0	825.6	106.0
1973	345.5	965.1	657.7	607.2	379.0	303.0	126.8	99.4	82.3	98.0	86.3	235.9	332.2	3986.2	965.1	82.3
1974	154.4	569.1	431.9	360.3	475.6	243.6	115.8	71.4	58.5	51.4	92.8	139.2	230.3	2764.0	569.1	51.4
1975	248.7	432.8	553.9	316.4	196.8	128.7	106.8	65.8	53.7	47.1	85.7	129.0	197.1	2355.4	553.9	47.1
1976	244.0	422.6	545.6	309.1	191.8	125.8	87.6	71.8	60.6	59.8	59.5	67.8	187.2	2246.0	545.6	59.5
1977	134.0	206.7	413.1	221.0	234.9	102.9	73.6	47.7	51.5	54.2	69.3	118.6	144.0	1727.5	413.1	47.7
1978	241.1	637.6	706.6	451.6	303.0	207.2	140.6	101.8	75.6	76.3	157.2	436.1	294.6	3534.7	706.6	75.6
1979	515.0	905.2	526.1	517.4	322.9	201.7	139.8	102.4	78.5	74.0	168.4	236.2	315.6	3787.6	905.2	74.0
1980	351.0	316.7	574.1	568.5	623.8	267.4	179.1	127.8	112.7	115.2	142.3	541.3	326.7	3919.9	623.8	112.7
1981	373.3	654.7	351.7	657.5	641.0	350.3	204.3	141.3	105.2	105.2	96.7	305.5	332.2	3986.7	657.5	96.7
1982	480.2	438.3	692.8	345.9	225.7	150.9	107.3	79.2	60.0	50.5	85.2	154.5	239.2	2870.5	692.8	50.5
1983	165.3	378.8	297.9	652.5	463.2	214.7	150.8	108.6	81.5	114.0	122.1	399.7	262.4	3149.1	652.5	81.5
1984	219.0	696.7	643.1	487.9	469.9	266.3	174.9	129.7	98.4	104.9	116.2	340.4	312.3	3747.4	696.7	98.4
1985	327.8	602.3	543.5	416.3	287.8	214.8	141.3	101.9	79.1	74.3	262.2	177.8	269.1	3229.1	602.3	74.3
1986	280.6	508.5	545.5	513.9	307.7	332.7	161.1	115.9	85.2	69.4	74.3	128.3	260.3	3123.1	545.5	69.4
1987	246.1	339.2	438.6	227.3	285.3	156.8	122.8	103.2	93.4	85.9	152.5	259.4	213.7	2564.6	438.6	85.9
1988	222.1	339.3	211.1	580.3	282.9	187.9	149.2	122.7	117.2	116.1	233.2	242.1	233.7	2804.1	580.3	116.1
1989	368.8	643.3	605.6	384.3	230.3	172.8	124.0	99.4	86.4	82.5	152.8	265.8	268.0	3216.0	643.3	82.5
1990	274.2	396.8	507.4	722.7	485.8	259.8	163.3	123.1	106.5	85.0	90.5	173.5	282.4	3388.6	722.7	85.0
Ave.	282.0	533.4	536.2	475.4	356.0	213.2	137.7	97.5	78.6	74.8	121.1	252.3				
Max	515.0	965.1	838.0	904.6	841.4	350.3	223.6	142.5	118.8	116.1	262.2	545.9				
Min	81.4	206.7	211.1	221.0	163.9	102.9	65.1	47.7	43.3	32.1	29.8	36.0				

Appendix 6.2-1 Discharge at <Cay Gao> G/S on Dong Nai R CA=14800km2  
Average Discharge <Unit :M3/S>

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average	Total	Max	Min
1978	72.6	36.6	30.9	37.6	99.6	244.0	523.0	1,510.0	1,860.0	1,600.0	516.0	196.0	560.5	6,726.3	1,850.0	30.9
1979	97.4	59.6	47.6	55.6	140.0	466.0	1,490.0	1,710.0	820.0	1,296.0	593.0	211.0	582.2	6,986.2	1,710.0	47.6
1980	97.4	71.6	49.5	48.9	134.0	570.0	646.0	784.0	1,600.0	1,270.0	817.0	284.0	531.9	6,382.4	1,600.0	48.9
1981	123.0	92.1	55.0	46.7	91.3	600.0	564.0	1,480.0	1,000.0	1,090.0	595.0	257.0	499.5	5,994.1	1,480.0	46.7
1982	103.0	63.8	50.8	89.2	95.7	241.0	903.0	974.0	1,850.0	916.0	504.0	207.0	499.8	5,997.5	1,850.0	50.8
1983	92.7	57.4	41.7	38.4	50.5	230.0	621.0	1,280.0	815.0	1,639.0	750.0	238.0	487.8	5,853.7	1,639.0	38.4
1984	127.0	78.8	50.7	66.2	161.0	451.0	673.0	2,110.0	1,569.0	1,270.0	449.0	241.0	603.9	7,246.7	2,110.0	50.7
1985	104.0	66.6	52.1	91.9	242.0	516.0	568.0	882.0	1,020.0	1,150.0	530.0	307.0	460.8	5,529.6	1,150.0	52.1
1986	133.0	74.4	44.4	44.6	214.0	346.0	731.0	2,040.0	1,620.0	1,430.0	779.0	336.0	649.4	7,792.4	2,040.0	44.4
1987	147.0	77.2	48.6	92.0	56.5	437.0	1,000.0	1,200.0	1,390.0	1,013.0	547.0	264.0	522.7	6,272.3	1,390.0	48.6
1988	137.0	85.8	59.9	71.4	96.9	356.0	491.0	617.0	677.0	1,194.0	710.0	216.0	392.7	4,712.0	1,194.0	59.9
1989	109.0	62.4	78.6	95.3	277.0	500.0	1,033.0	1,237.0	1,487.0	1,125.0	397.0	174.0	547.9	6,575.3	1,487.0	62.4
Ave	111.9	68.9	50.8	64.8	138.2	413.1	770.3	1,319.5	1,309.0	1,249.4	598.9	244.3				
Max	147.0	92.1	78.6	95.3	277.0	600.0	1,490.0	2,110.0	1,860.0	1,639.0	817.0	336.0				
Min	72.6	36.6	30.9	37.6	50.5	230.0	491.0	617.0	677.0	916.0	397.0	174.0				

Appendix 6.2-1 Input Data for Review of Projects

Project Name	Catchment Area (km <sup>2</sup> )	HWL EL-m	LWL EL-m	Active Capacity 10 <sup>6</sup> m <sup>3</sup>	IWL EL-m	TWL EL-m	He Design m	Q <sub>max</sub> m <sup>3</sup> /s
<b>Da River</b>								
Hoa Binh	51,700	115	80	5,650	105	17	88	2,400
Hoa Binh (S)	51,700	115	90	2,160	107	17	88	2,400
Hoa Binh (L)	51,700	115	105	2,160	112	17	88	2,400
Son La (S)	45,730	215	180	19,162	203	107	83	3,177
Son La (L)	45,730	265	215	7,410	248	112	129	3,060
Huoi Quang	2,930	440	410	1,067	430	203	220	368
<b>Se San River</b>								
Yaly	25,250	515	490	779	507	303	189	420
Plei Krong	3,224	585	560	1,292	577	507	60	208
Thuong Kontun*	350	1,194	1,150	357	1,179	310	800	33
Se San 3	8,009	305	305	0	305	250	53	516
Se San 4	10,920	235	225	1,315	232	165	62	734
<b>Dong Nai River</b>								
Da Nhim	7,555	1,042	1,018	150	1,018	242	706	26
Tri An	15,250	64	50	2,547	59	4	52	888
Da Mi	1,360	325	323	18	324	173	142	136
Ham Thuan	1,280	605	575	523	595	324	250	136
Dai Ninh	1,933	880	860	252	873	210	611	57
Dong Nai 4	4,530	480	430	262	463	285	167	133
Dong Nai 8	9,047	120	110	847	117	60	49	492

\* As loss is so large, electricity values are 10% increased in assessment of the project.



Appendix 6.2-1 H-V curve Data of Reservoir 1

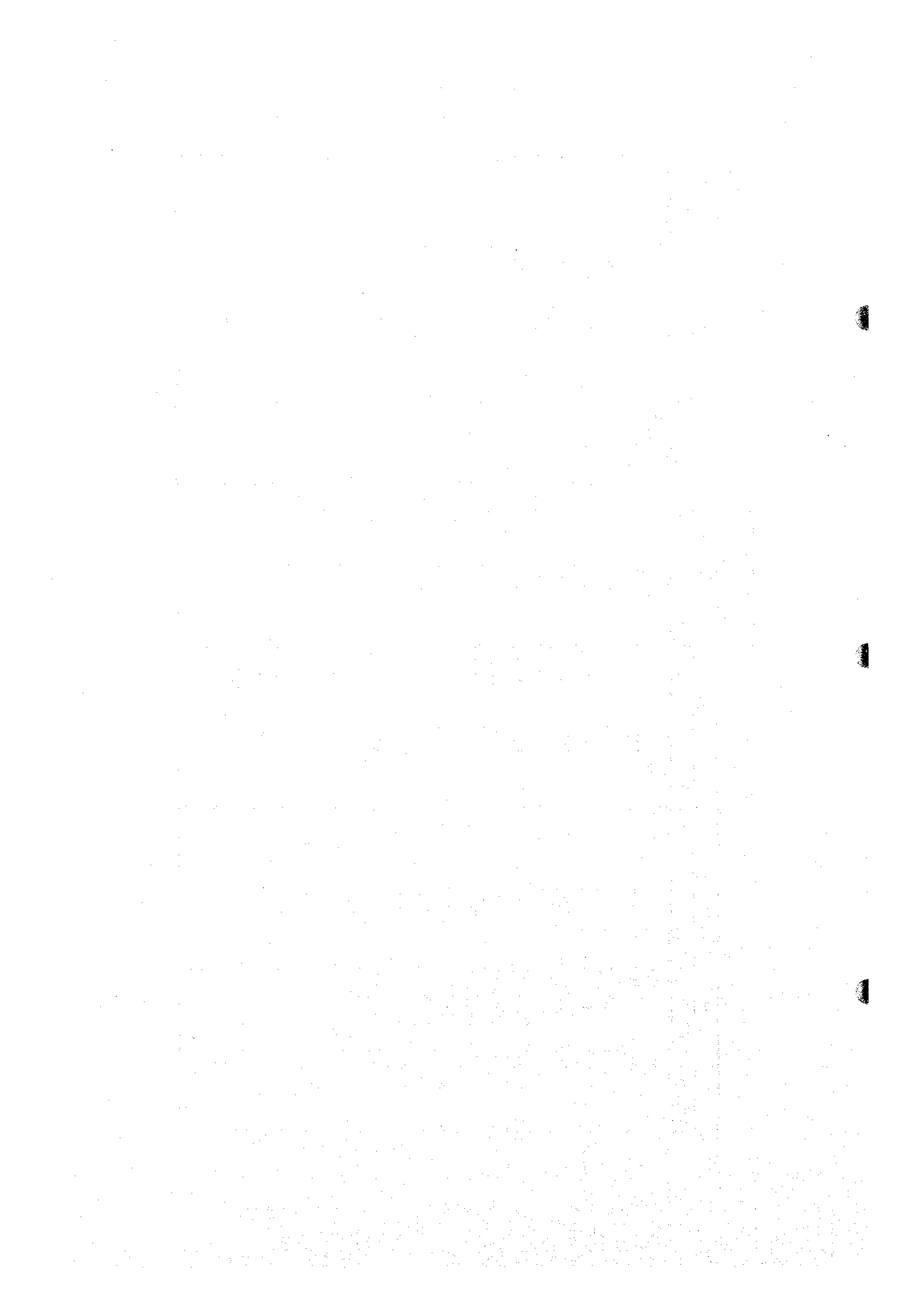
Hoa Binh		Son La (Ban Pau)		Huoi Quan		Volume(10 <sup>6</sup> m <sup>3</sup> )	
E.L.(m)	Volume	E.L.(m)	Volume	E.L.(m)	Volume	E.L.(m)	Volume
25	322	100	0	300	0		
50	1222	110	9.6	320	4.47		
75	3215	120	80.2	340	39.87		
90	5089	130	252.5	360	149.34		
100	6634	140	540.5	380	353.27		
115	9450	150	1035.6	400	677.3		
125	11526	160	1805.3	420	1204.4		
135	14077	170	2814.1	440	2007.9		
150	19005	180	4068.3	460	3173.4		
		190	5599.6	480	4805.8		
		200	7465.5	500	7114.5		
		210	9676.4				
		220	12239.2				
		230	15193.1				
		240	18559.1				
		250	22412.7				
		260	26828.2				
		270	31755.5				

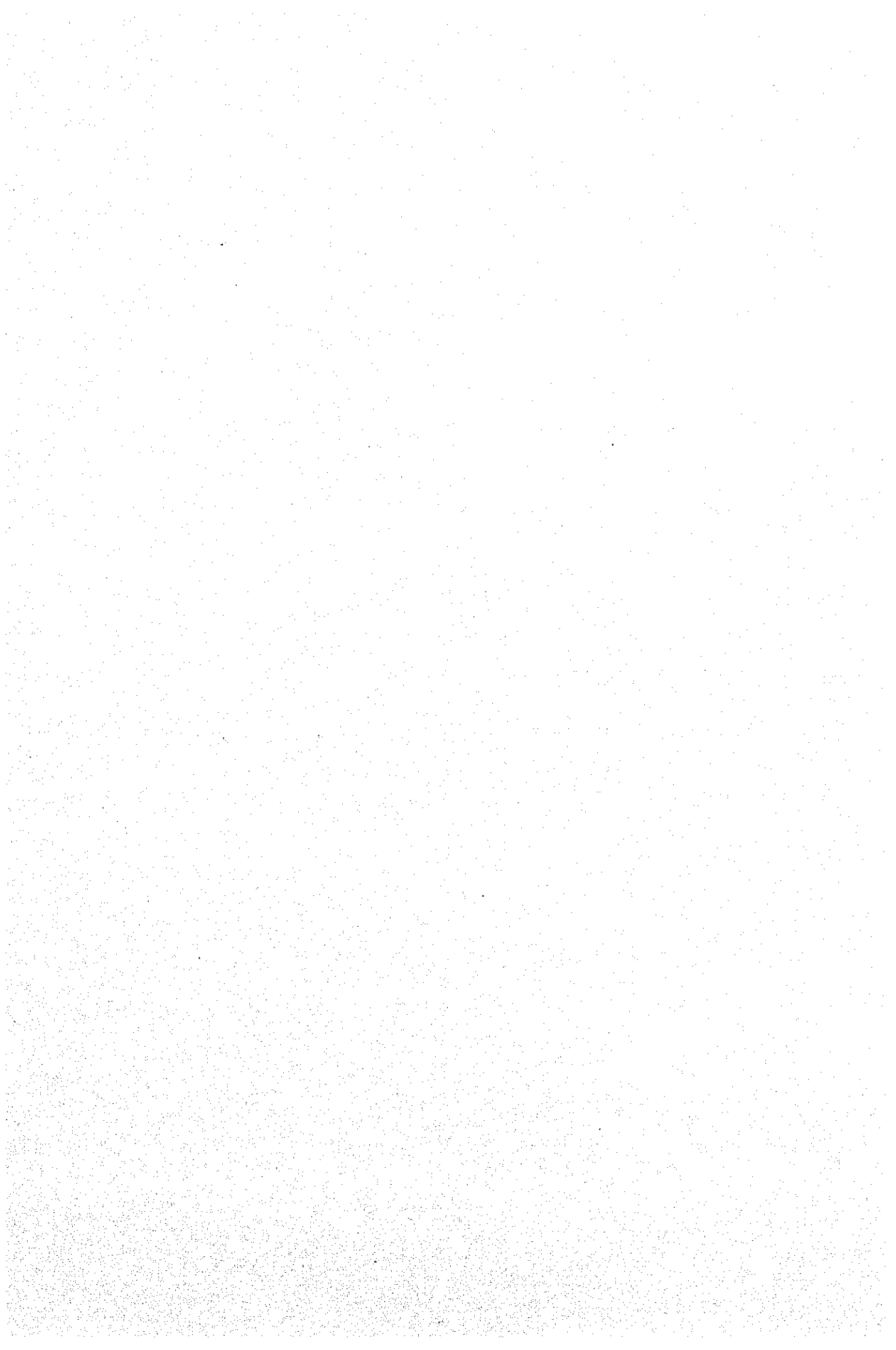
Appendix 6.2-1 H-V curve Data of Reservoir 2

Yaly		Plei Krung		Thoung Kontum		Sesan 3		Sesan 4		Volume(10 <sup>6</sup> m <sup>3</sup> )
E.L.(m)	Volume	E.L.(m)	Volume	E.L.(m)	Volume	E.L.(m)	Volume	E.L.(m)	Volume	
455	0	508	0	1002	0	235.7	0	162	0	
460	2.6	520	15	1120	4.55	245	1.71	165	1.38	
465	12.2	530	59.8	1140	34.87	255	18.1	175	20.4	
470	32.3	540	153.9	1160	107.03	265	48.85	185	56.23	
475	66.6	550	320.9	1180	249.4	275	93.5	195	125.23	
480	114.6	560	578.9	1200	506.68	285	154.8	205	279.4	
485	179	570	958.9			295	233.4	215	589.9	
490	258.1	580	1508.6			305	331.03	225	1131.4	
495	349.2	590	2306.3			315	448.5	235	1974.4	
500	461.4	600	3422.8			325	587.2			
505	598.9					335	749.9			
510	776					345	938.55			
515	1037.1					355	1149.98			
520	1442.5					360	1263.1			
525	2002.7									

Appendix 6.2-1 H-V curve Data of Reservoir 3

Tri Anh		Da Mi		Ham Thuan		Dong Nai 4		Dong Nai 8		Dai Nhim	
E.L.(m)	Volume	E.L.(m)	Volume	E.L.(m)	Volume	E.L.(m)	Volume	E.L.(m)	Volume	E.L.(m)	Volume
40	0	260	0	518.68	0	349.5	0	80	0	835	0
42	10	265	0.08	530	1.19	360	0.3	105	277.8	840	1.2
44	28.48	270	0.6	535	3.76	370	4	110	480.1	850	17.2
46	62.64	275	1.87	540	8.68	380	8.9	120	1327.2	860	58.5
48	120.6	280	4.73	545	16.65	390	15.7			865	92.7
50	218.03	285	10.08	550	29.27	400	24.6			870	139.5
52	306.39	290	17.29	555	45.92	410	40			875	201.7
54	397.86	295	26.05	560	66.66	420	57.2			880	276.7
56	1108.26	300	36.71	565	93.57	430	83.6				
58	1594.25	305	50.06	570	128.43	440	117.5				
60	2147.77	310	66.78	575	172.73	450	159				
62	2764.73	315	87.1	580	227.54	460	210.1				
64	3440.92	320	111.72	585	293.5	470	271.6				
66	4177.3	325	140.78	590	372.55	480	345.4				
		330	175.47	595	465.26	490	433.5				
		335	263.59	600	574.55	500	544.2				
		340	316.38	605	695.23						
				610	828.63						
				615	976.55						



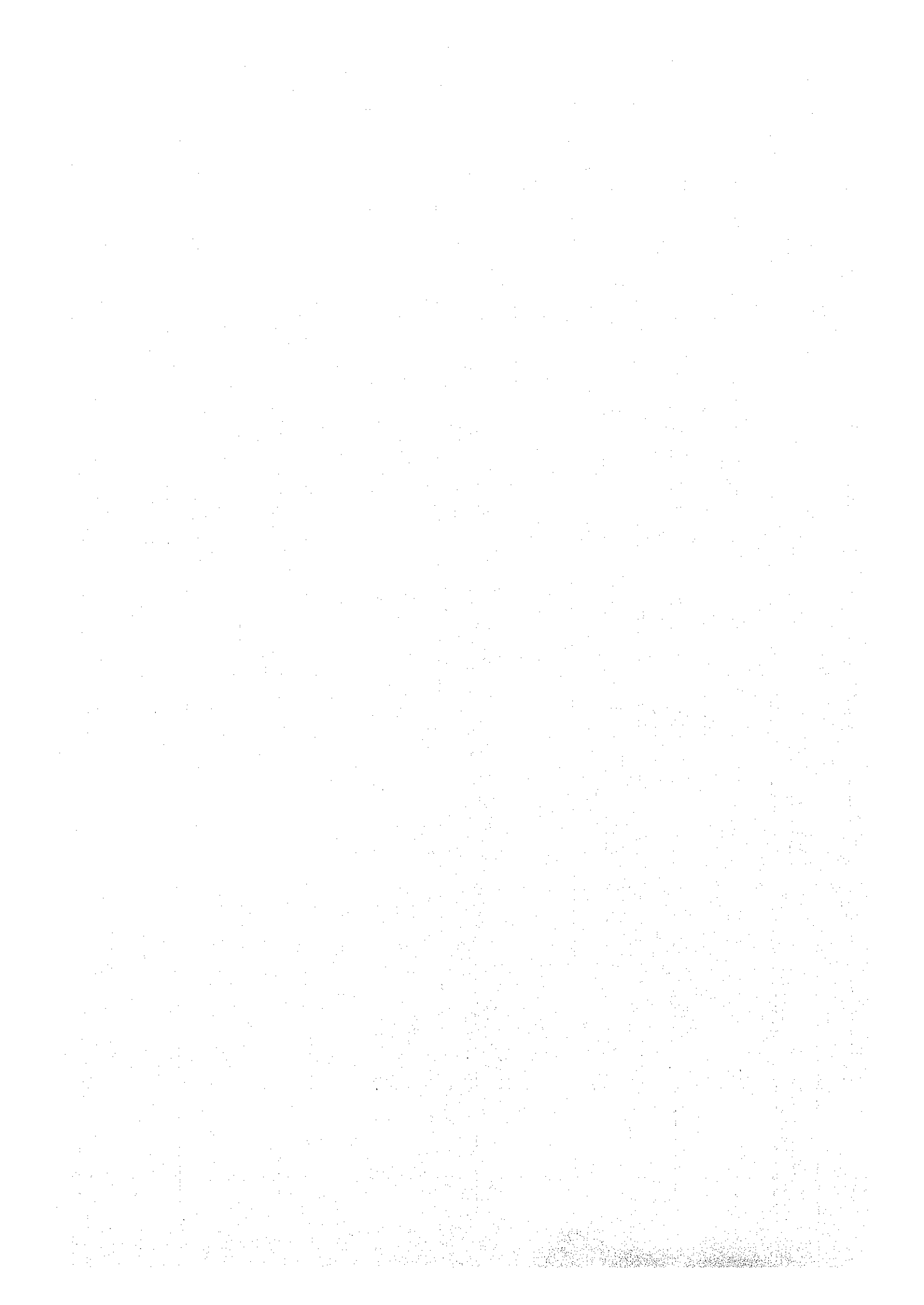


Appendix 6.2-2 Electricity of the projects along the Da River

Case	Project Name	P	Electricity Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	Remarks				
1	Hoa Binh	10%	Energy GWh	432.81	299.46	331.59	1,189.04	696.54	849.59	987.35	1,281.59	1,299.48	1,053.00	1,053.00	778.36	434.42	9,633.25				
			Capacity MW	581.73	445.63	445.68	1,651.45	936.21	1,179.98	1,327.09	1,327.09	1,327.09	1,722.57	1,804.83	1,415.32	1,081.05	583.90	-	-		
		50%	Energy GWh	332.37	296.76	319.96	802.45	539.38	319.96	930.31	963.54	1,281.59	1,299.48	1,053.00	1,053.00	477.78	865.88	9,037.36			
			Capacity MW	446.74	441.60	430.06	1,114.51	724.97	1,292.10	1,292.10	1,292.10	1,722.57	1,804.83	1,415.32	1,081.05	663.59	1,163.82	-	-		
		90%	Energy GWh	326.85	289.29	310.25	637.95	233.70	430.06	622.57	889.04	1,281.59	1,299.48	1,053.00	1,053.00	478.15	330.55	7,692.45			
			Capacity MW	439.31	430.49	417.07	886.04	314.11	1,194.94	1,194.94	1,194.94	1,722.57	1,804.83	1,415.32	1,081.05	664.10	444.29	-	-		
		2	Son La (L)	10%	Energy GWh	1,148.70	1,043.94	1,073.97	998.05	997.09	1,027.06	2,471.83	2,509.28	2,332.81	1,985.72	1,985.72	1,295.49	1,184.05	18,067.99		
					Capacity MW	1,543.95	1,499.91	1,443.51	1,386.17	1,340.17	1,426.48	3,322.36	3,322.36	3,322.36	3,322.36	3,240.01	2,668.98	1,799.29	1,591.47	-	-
				50%	Energy GWh	1,154.55	1,009.46	1,072.06	990.08	975.34	924.67	1,466.90	2,509.28	2,064.43	2,064.43	1,985.72	1,985.72	1,599.75	1,569.98	15,443.31	
					Capacity MW	1,551.82	1,502.18	1,440.94	1,375.11	1,310.95	1,284.27	1,971.64	3,322.36	3,322.36	3,322.36	3,240.01	2,668.98	1,799.29	1,591.47	-	-
90%	Energy GWh			1,102.48	951.62	998.54	904.38	851.93	774.77	1,466.90	2,064.43	2,064.43	1,985.72	1,985.72	1,599.75	1,569.98	11,770.94				
	Capacity MW			1,481.83	1,416.10	1,342.13	1,256.08	1,145.07	1,076.07	1,162.84	3,322.36	3,322.36	3,322.36	3,240.01	2,668.98	1,799.29	1,591.47	-	-		
3	Hoa Binh			10%	Energy GWh	828.47	771.93	818.99	1,007.23	750.21	729.54	1,262.04	1,373.39	1,373.39	1,373.39	1,373.39	1,418.84	955.09	833.03	12,121.83	
					Capacity MW	1,113.54	1,109.10	1,100.79	1,398.93	1,008.35	1,013.25	1,696.29	1,845.95	1,845.95	1,845.95	1,845.95	1,845.95	1,604.14	1,160.99	-	-
				50%	Energy GWh	828.05	742.27	813.44	943.42	754.26	776.00	1,127.82	1,373.39	1,373.39	1,373.39	1,373.39	1,418.84	955.09	833.03	11,464.72	
					Capacity MW	1,112.97	1,104.57	1,093.33	1,310.30	1,013.79	1,077.77	1,515.89	1,845.95	1,845.95	1,845.95	1,845.95	1,845.95	1,604.14	1,160.99	-	-
		90%	Energy GWh	830.66	744.61	816.92	959.83	757.47	726.86	1,162.84	1,373.39	1,373.39	1,373.39	1,373.39	1,418.84	955.09	833.03	10,026.07			
			Capacity MW	1,116.48	1,108.04	1,098.01	1,333.09	1,018.11	1,009.53	1,231.63	1,039.73	1,217.59	1,217.59	1,217.59	1,217.59	1,217.59	1,121.78	-	-		
		4	Son La (S)	10%	Energy GWh	563.40	494.40	527.64	490.99	529.70	1,324.37	1,650.52	1,676.11	1,622.05	1,622.05	1,110.69	1,110.69	563.30	10,244.90		
					Capacity MW	757.26	735.72	709.19	681.93	711.96	1,839.40	2,232.84	2,232.84	2,232.84	2,232.84	2,232.84	2,232.84	2,232.84	2,000.92	-	-
				50%	Energy GWh	551.01	479.33	502.71	454.76	443.64	784.72	1,053.59	1,676.11	1,676.11	1,622.05	1,110.69	1,110.69	563.30	10,244.90		
					Capacity MW	740.61	713.29	675.68	631.60	596.29	1,089.89	2,023.67	2,232.84	2,232.84	2,232.84	2,232.84	2,232.84	2,232.84	2,000.92	-	-
90%	Energy GWh			554.05	477.47	497.74	444.01	413.15	384.95	503.47	1,630.80	1,630.80	1,630.80	1,630.80	1,630.80	1,630.80	1,630.80	1,630.80	1,630.80		
	Capacity MW			744.70	710.53	669.01	616.68	553.31	534.66	676.71	2,191.94	2,191.94	2,191.94	2,191.94	2,191.94	2,191.94	2,191.94	2,191.94			
5	Huaui Quan			10%	Energy GWh	587.75	530.38	753.64	1,136.18	522.18	918.72	949.35	1,219.39	1,219.39	1,219.39	1,219.39	1,219.39	1,219.39	1,219.39	10,325.51	
					Capacity MW	789.99	789.26	789.26	1,578.03	701.86	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	
				50%	Energy GWh	581.91	521.18	570.85	1,117.02	432.92	794.82	949.35	1,191.42	1,191.42	1,191.42	1,191.42	1,191.42	1,191.42	1,191.42	9,958.98	
					Capacity MW	782.13	775.57	767.27	1,551.42	81.88	1,033.91	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	
		90%	Energy GWh	551.59	494.17	541.77	909.46	436.59	413.88	516.42	1,601.38	1,601.38	1,601.38	1,601.38	1,601.38	1,601.38	1,601.38	8,918.13			
			Capacity MW	741.39	735.38	728.19	1,263.14	587.36	788.31	1,216.16	1,791.75	1,791.75	1,791.75	1,791.75	1,791.75	1,791.75	1,791.75	1,791.75			
		6	Hoa Binh	10%	Energy GWh	147.11	131.11	142.71	135.68	146.40	439.54	511.53	435.51	406.77	151.17	151.17	151.17	145.73	149.49	3,260.40	
					Capacity MW	197.72	195.11	191.82	188.44	623.73	610.47	687.54	583.37	564.96	203.19	202.40	202.40	202.40	200.92	-	-
				50%	Energy GWh	149.17	132.98	145.01	138.16	141.53	495.11	523.92	480.07	252.87	270.67	270.67	270.67	270.67	270.67	3,005.19	
					Capacity MW	200.50	197.89	194.90	191.89	190.23	687.66	704.19	645.26	323.44	363.80	202.72	202.72	202.72	201.27	-	-
90%	Energy GWh			148.84	133.08	145.23	138.45	142.10	362.94	503.47	503.47	503.47	503.47	503.47	503.47	503.47	503.47	2,718.48			
	Capacity MW			200.50	197.89	194.90	191.89	190.23	687.66	704.19	645.26	323.44	363.80	202.72	202.72	202.72	201.27	-	-		
7	Son La (S)			10%	Energy GWh	590.73	519.28	552.17	499.58	490.07	1,267.32	1,590.88	1,590.88	1,590.88	1,590.88	1,590.88	1,590.88	1,590.88	1,590.88	10,904.86	
					Capacity MW	793.99	772.74	742.17	693.87	658.70	1,760.17	2,138.28	2,232.84	2,232.84	2,232.84	2,232.84	2,232.84	2,232.84	2,232.84	2,232.84	
				50%	Energy GWh	583.79	511.07	540.44	493.27	476.06	486.56	1,609.30	1,676.11	1,676.11	1,676.11	1,676.11	1,676.11	1,676.11	1,676.11	10,533.47	
					Capacity MW	784.66	760.51	726.39	685.10	639.87	675.78	2,163.04	2,232.84	2,232.84	2,232.84	2,232.84	2,232.84	2,232.84	2,232.84	2,232.84	
		90%	Energy GWh	580.29	500.27	522.88	467.98	434.63	391.09	481.08	1,453.71	1,453.71	1,453.71	1,453.71	1,453.71	1,453.71	1,453.71	8,565.31			
			Capacity MW	779.96	744.45	702.80	649.97	584.18	543.17	646.62	1,953.91	1,953.91	1,953.91	1,953.91	1,953.91	1,953.91	1,953.91	1,953.91			
		8	Hoa Binh	10%	Energy GWh	609.32	546.93	847.06	1,098.39	465.90	918.72	949.35	1,219.39	1,219.39	1,219.39	1,219.39	1,219.39	1,219.39	1,219.39	10,261.61	
					Capacity MW	818.98	813.88	1,138.52	1,525.55	626.21	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	
				50%	Energy GWh	608.79	545.30	596.94	1,151.27	451.05	533.95	949.35	777.49	777.49	777.49	777.49	777.49	777.49	777.49	9,932.06	
					Capacity MW	818.27	811.46	802.34	1,598.98	606.25	741.60	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	1,276.01	
90%	Energy GWh			574.28	514.47	563.99	919.53	456.09	434.61	583.87	701.08	1,299.24	1,299.24	1,299.24	1,299.24	1,299.24	1,299.24	8,923.90			
	Capacity MW			771.88	765.58	758.06	1,277.13	613.03	603.63	784.77	942.31	1,804.50	1,804.50	1,804.50	1,804.50	1,804.50	1,804.50	1,804.50			

Appendix 6.2-2 Electricity of the projects along the Sesan River

Case	Project Name	P	Electricity Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	Remarks		
1	Yaly	10%	Energy GWh	277.39	180.27	236.80	276.63	363.69	440.16	489.47	504.69	504.69	488.41	504.69	476.69	257.67	4,496.56		
			Capacity MW	372.84	268.26	318.28	384.21	488.83	611.34	657.89	678.35	678.35	678.35	678.35	678.35	662.07	346.33	-	-
		50%	Energy GWh	218.93	145.36	159.62	151.89	171.89	376.41	462.52	488.41	504.69	504.69	488.41	504.69	376.32	277.27	3,818.09	
			Capacity MW	294.26	216.31	214.54	210.96	231.03	522.80	621.66	651.59	678.35	678.35	678.35	678.35	522.67	372.68	-	-
		90%	Energy GWh	161.07	149.59	157.31	148.21	149.11	143.18	240.20	452.39	482.82	406.25	230.88	166.98	230.88	166.98	2,887.79	
			Capacity MW	216.49	214.92	211.44	205.85	200.42	198.86	322.58	608.06	670.58	546.03	324.44	224.44	32			





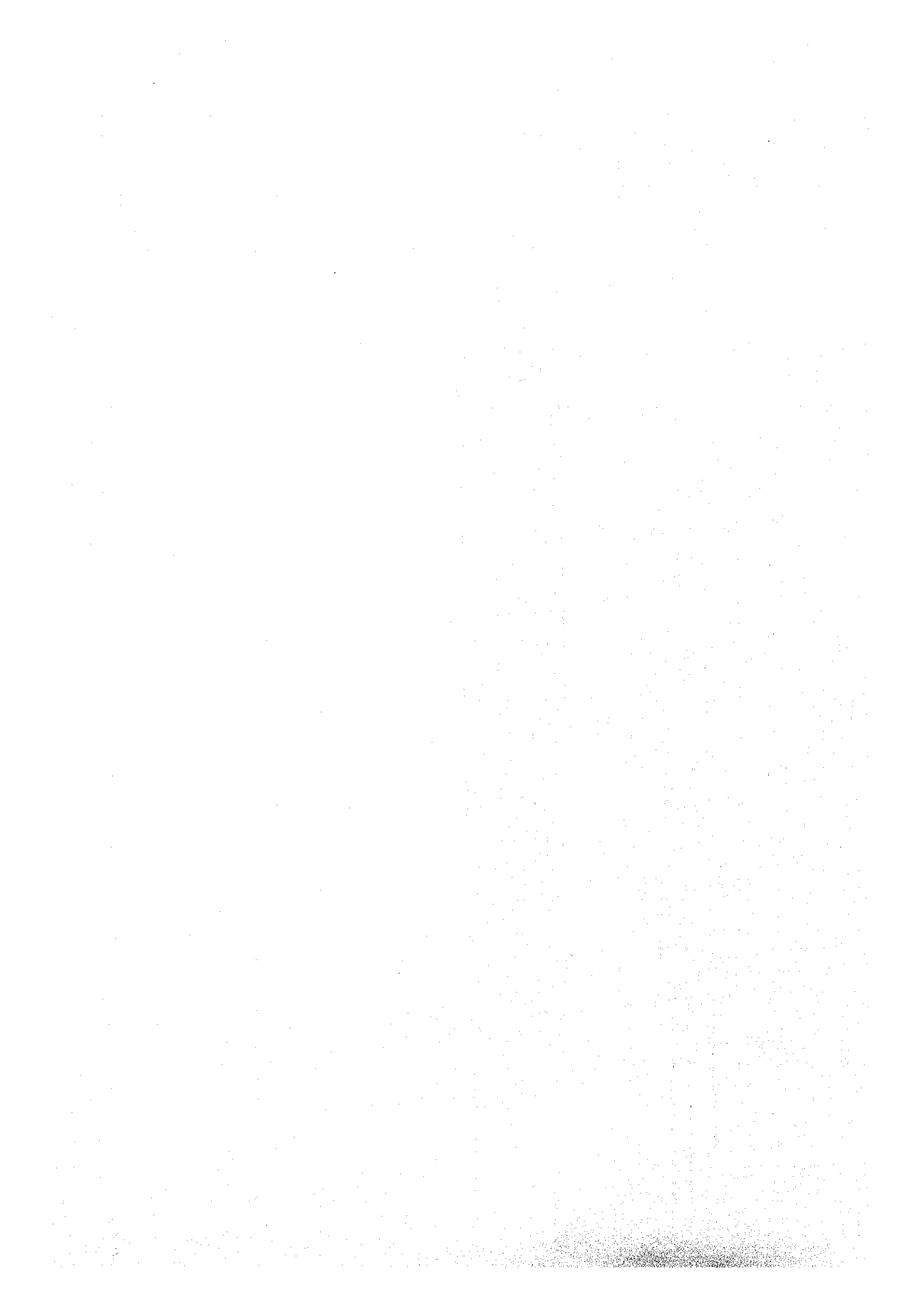


Appendix 6.2-2 Electricity of the projects along the Dong Nai River 1

Case	Project Name	P	Electricity Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	Remarks			
1	Da Nhim	10%	Energy GWh	74.92	67.45	74.33	71.52	109.83	105.03	119.04	119.04	115.20	119.04	119.04	115.20	91.86	1,182.46			
			Capacity MW	100.70	100.37	99.91	99.34	147.62	147.62	147.62	145.87	160.00	160.00	160.00	160.00	160.00	160.00	123.47		
		50%	Energy GWh	74.92	67.45	74.36	77.86	97.84	97.84	97.84	115.20	119.04	119.04	115.20	119.04	115.20	75.02	1,170.47		
			Capacity MW	100.70	100.37	99.94	108.14	131.51	131.51	131.51	160.00	160.00	160.00	160.00	160.00	160.00	100.83	-		
		90%	Energy GWh	63.94	67.41	74.25	71.40	73.28	71.40	98.49	98.02	119.04	119.04	115.20	119.04	115.20	74.98	1,083.35		
			Capacity MW	85.94	100.31	99.79	99.17	98.49	98.49	98.49	98.02	160.00	160.00	160.00	160.00	160.00	100.78	-		
	2	Tri Anh	10%	Energy GWh	106.62	93.17	90.53	72.94	71.07	85.90	210.96	210.96	271.91	284.10	293.57	275.96	161.91	2,018.64		
				Capacity MW	143.31	138.64	121.68	101.30	95.53	119.31	283.56	365.47	394.59	394.59	394.59	394.59	383.28	217.62	-	
			50%	Energy GWh	103.87	75.83	81.41	76.04	73.41	152.52	165.24	274.27	284.10	284.10	293.57	293.57	209.02	140.99	1,930.27	
				Capacity MW	139.62	112.85	109.42	105.61	98.67	211.83	222.10	368.64	394.59	394.59	394.59	394.59	290.30	189.51	-	
			90%	Energy GWh	190.36	76.46	81.60	76.00	73.36	67.22	134.11	284.10	284.10	275.17	284.10	293.57	188.73	108.83	1,849.51	
			Capacity MW	252.87	113.79	109.68	105.55	98.60	93.36	180.26	369.86	394.59	394.59	394.59	394.59	262.12	146.27	-		
3		Ham Thuan	10%	Energy GWh	64.37	57.37	62.51	59.45	61.74	60.30	84.55	126.45	155.53	138.85	138.85	70.43	61.08	1,002.63		
				Capacity MW	86.52	83.37	84.02	82.57	82.98	83.75	113.64	169.96	216.02	186.62	186.62	97.82	82.10	-		
			50%	Energy GWh	64.21	59.24	63.30	59.15	59.96	57.76	60.35	61.35	98.78	146.10	146.10	118.22	64.94	912.36		
				Capacity MW	86.30	85.11	83.73	82.15	80.59	80.22	82.46	82.46	137.19	196.37	196.37	164.20	87.29	-		
			90%	Energy GWh	64.32	57.31	62.41	59.25	59.89	56.88	58.79	60.70	65.87	128.56	128.56	110.14	64.92	849.04		
			Capacity MW	86.46	85.28	83.89	82.29	80.50	79.00	79.00	81.58	91.49	172.79	152.97	87.26	-	-			
	4	Da Mi	10%	Energy GWh	36.48	32.89	36.34	35.10	38.22	35.24	53.31	75.29	93.52	79.19	79.19	40.74	35.13	591.45		
				Capacity MW	49.03	48.94	48.84	48.75	51.37	48.95	71.66	101.20	129.89	106.44	106.44	56.58	47.22	-		
			50%	Energy GWh	36.47	34.06	36.33	35.08	36.19	35.08	38.24	38.30	62.54	86.41	86.41	69.54	36.37	544.61		
				Capacity MW	49.02	48.93	48.83	48.72	48.64	48.72	51.39	51.48	86.86	116.15	96.58	86.59	48.89	-		
			90%	Energy GWh	36.40	32.81	36.25	34.99	36.08	34.87	37.92	38.11	40.73	79.07	79.07	62.50	36.50	506.23		
			Capacity MW	48.92	48.83	48.72	48.60	48.49	48.43	50.97	51.22	56.57	106.28	86.80	49.06	-	-			
5		Tri Anh	10%	Energy GWh	103.19	102.43	120.84	85.24	226.51	82.71	228.49	252.04	278.74	293.57	293.57	125.61	107.89	2,007.26		
				Capacity MW	138.69	132.43	162.42	118.40	304.45	114.87	307.11	338.76	387.15	394.59	394.59	174.46	145.02	-		
			50%	Energy GWh	104.08	94.72	97.68	90.95	87.84	143.26	156.27	250.39	266.09	293.57	284.10	132.91	284.10	2,001.86		
				Capacity MW	139.89	136.09	131.29	126.31	118.06	198.98	210.04	336.54	369.57	394.59	394.59	394.59	266.63	130.26	-	
			90%	Energy GWh	106.23	93.53	100.05	93.09	91.44	83.26	158.49	295.31	260.96	293.51	260.96	293.51	266.63	130.26	1,936.26	
			Capacity MW	142.78	139.19	134.47	129.29	122.91	115.64	213.02	348.54	362.44	362.44	362.44	393.83	370.31	175.08	-		
	6	Dai Ninh	10%	Energy GWh	100.82	97.98	107.54	99.97	182.37	191.15	217.04	220.18	215.27	222.44	222.44	168.32	69.99	1,893.07		
				Capacity MW	135.52	145.65	144.54	138.85	245.13	265.48	291.73	295.93	298.98	298.98	233.77	233.77	94.07	-		
			50%	Energy GWh	80.69	91.00	100.16	96.28	98.67	135.54	217.62	222.31	215.27	222.44	188.16	88.90	1,757.04			
				Capacity MW	108.45	135.42	134.62	133.72	132.62	188.25	292.50	298.80	298.98	298.98	261.34	119.49	-			
			90%	Energy GWh	100.83	90.60	99.64	95.68	101.66	158.12	178.23	216.91	212.73	222.44	222.44	180.79	109.35	1,766.98		
			Capacity MW	135.52	134.82	133.93	132.89	136.64	219.62	239.55	291.55	292.45	298.98	252.10	146.98	-	-			
7		Tri Anh	10%	Energy GWh	115.51	138.77	155.36	98.65	293.94	93.57	314.00	342.08	387.74	394.59	394.59	241.41	119.00	1,948.18		
				Capacity MW	102.86	75.88	81.33	76.18	73.62	111.01	248.18	333.57	364.56	394.59	394.59	262.60	189.72	-		
			50%	Energy GWh	138.26	112.92	109.31	105.81	98.95	154.18	98.95	154.18	234.56	281.44	293.57	188.78	151.49	1,801.54		
				Capacity MW	96.10	84.17	108.92	80.79	75.98	128.26	77.48	234.56	281.44	293.57	293.57	262.19	203.61	-		
			90%	Energy GWh	129.17	125.25	146.40	112.20	102.13	178.14	178.14	104.14	315.27	390.89	394.59	262.19	203.61	-		
			Capacity MW	36.85	32.31	34.17	31.50	110.24	130.03	124.06	141.22	136.66	141.22	102.53	44.80	1,065.59	-			
	8	Dong Nai 4	50%	Energy GWh	49.53	48.08	45.93	43.75	148.18	180.59	166.75	189.81	189.81	189.81	189.81	142.40	60.21	-		
				Capacity MW	37.25	33.01	35.14	32.54	31.91	83.94	123.20	141.22	136.66	141.22	111.35	58.65	966.09	-		
			90%	Energy GWh	50.07	49.12	47.23	45.19	42.89	116.59	165.59	189.81	189.81	189.81	189.81	154.65	78.84	-		
				Capacity MW	36.80	31.99	33.41	29.84	28.47	27.47	91.81	130.92	136.66	141.22	106.82	44.02	839.43	-		
				Capacity MW	49.46	47.60	44.91	41.45	38.26	38.15	123.41	175.97	189.81	189.81	148.36	59.16	-			

Appendix 6.2-2.Electricity of the projects along the Dong Nai River 2

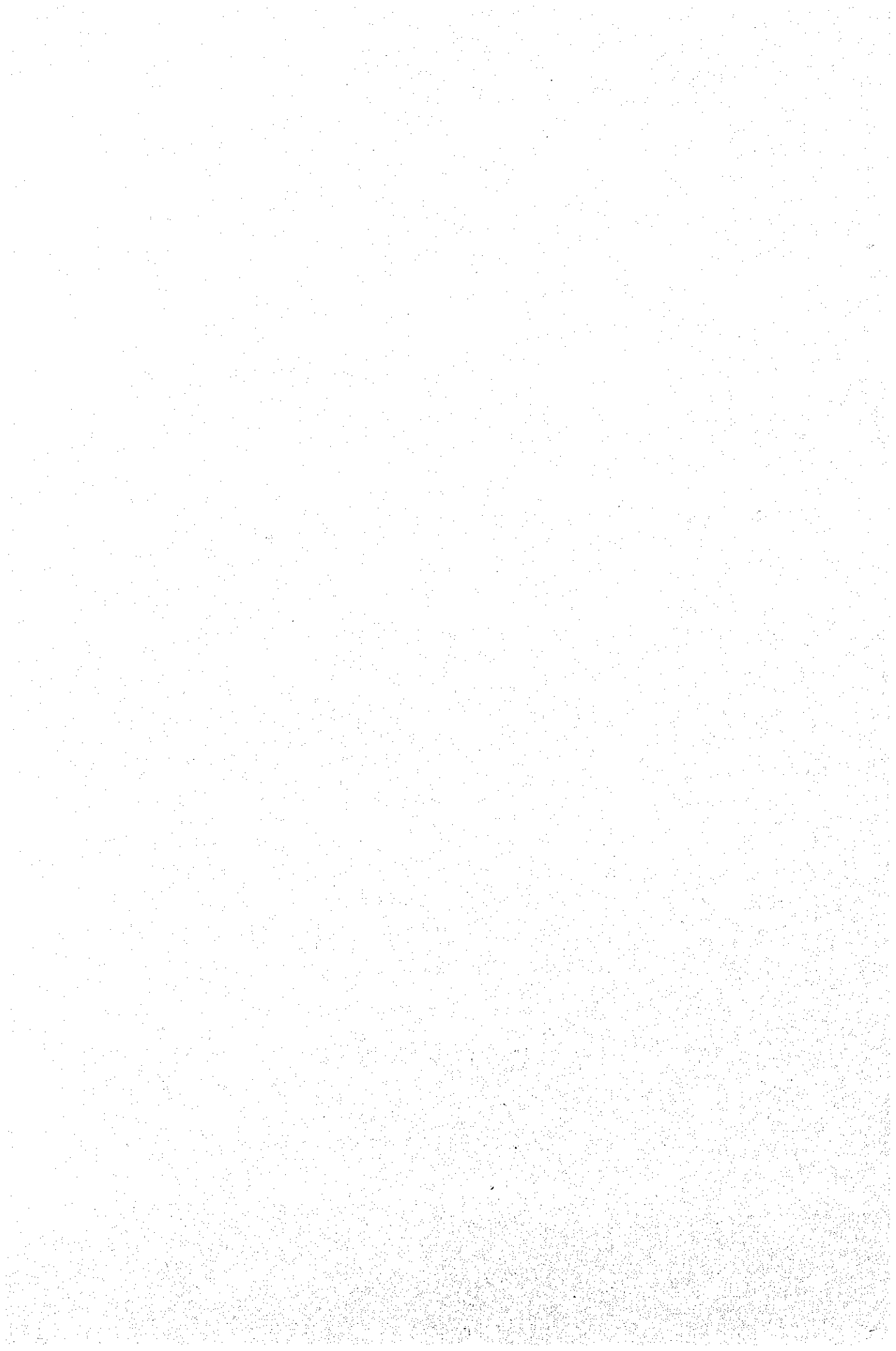
Project Name	P	Electricity Unit	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL	Remarks
Dong Nai 8	10%	Energy GWh	42.80	37.60	40.20	37.39	52.39	106.06	137.58	142.64	147.70	153.37	85.93	37.45	1,021.11	
		Capacity MW	57.52	55.95	54.03	51.93	70.42	147.30	184.92	191.72	205.14	206.14	119.35	50.33	-	-
	50%	Energy GWh	42.99	37.95	40.65	37.89	37.48	59.19	120.81	134.97	148.42	153.37	94.91	44.92	953.55	
		Capacity MW	57.78	56.47	54.64	52.63	50.37	82.22	162.38	181.41	206.14	206.14	131.81	60.38	-	-
	90%	Energy GWh	24.39	38.63	41.38	38.48	37.92	35.54	62.91	136.20	141.59	153.30	127.24	44.95	882.53	
		Capacity MW	32.79	57.49	55.62	53.44	50.96	49.37	84.56	183.07	196.65	206.05	176.73	60.42	-	-
	10%	Energy GWh	121.01	120.67	137.76	108.70	159.81	111.15	167.68	266.09	283.53	286.21	122.73	126.62	2,011.96	
		Capacity MW	162.65	179.57	185.16	150.97	214.80	154.38	225.38	357.65	393.79	384.69	170.46	170.19	-	-
	50%	Energy GWh	137.99	109.50	114.01	106.96	103.45	97.33	132.93	246.08	284.10	293.57	176.35	124.26	1,926.53	
90%	Energy GWh	185.47	162.95	153.24	148.56	139.05	135.18	178.67	330.75	394.59	394.59	244.92	167.02	-		
	Capacity MW	123.72	108.70	116.82	109.42	109.59	99.62	102.92	156.86	271.69	291.85	238.37	130.57	1,860.13	-	
	Capacity MW	166.29	161.76	157.02	151.97	147.30	138.37	138.33	210.84	377.35	392.27	331.08	175.49	-	-	



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**Result of Capacity Duration**  
**(The Da river system case-1 Hoa Binh - project)**

NO.	DATE	P	NO. DATE	P	NO. DATE	P	NO. DATE	P	NO. DATE	P	NO. DATE	P	NO. DATE	P
1	6209	1804.8	61	7208	1490.0	121	6406	1307.2	181	7212	1080.6	241	8706	637.0
2	6309	1804.8	62	8308	1660.3	122	6411	1078.6	182	6411	1078.6	242	9112	605.5
3	6410	1804.8	63	8311	1667.3	123	8606	1301.1	183	8206	1033.4	243	7312	583.9
4	7209	1804.8	64	8111	1667.0	124	8506	1300.0	184	8704	1087.3	244	7712	583.2
5	7509	1804.8	65	8708	1658.2	125	7007	1293.1	185	8104	1036.5	245	8712	582.6
6	8709	1804.8	66	7808	1654.4	126	7006	1293.1	186	9008	1013.3	246	9012	582.5
7	8809	1804.8	67	7304	1651.4	127	6804	1268.3	187	7511	1003.1	247	8301	582.4
8	6109	1804.8	68	8608	1629.1	128	6504	1268.2	188	9109	1003.1	248	6612	582.4
9	6409	1804.8	69	8308	1611.6	129	7404	1257.3	189	9911	999.8	249	6812	581.7
10	6511	1804.8	70	8308	1601.5	130	6807	1255.5	190	7711	998.2	250	7301	581.7
11	6609	1804.8	71	8710	1580.6	131	7504	1250.8	191	8711	998.0	251	7112	581.5
12	6709	1804.8	72	9110	1578.6	132	8110	1250.8	192	9111	997.0	252	8401	579.8
13	6809	1804.8	73	8804	1577.8	133	7810	1250.3	193	8711	997.5	253	6801	579.0
14	7009	1804.8	74	9004	1571.4	134	6806	1250.3	194	8504	970.6	254	8006	571.9
15	7109	1804.8	75	9104	1505.6	135	8510	1249.7	195	8804	961.4	255	8805	564.9
16	7309	1804.8	76	7710	1502.6	136	8010	1249.4	196	8105	951.2	256	9105	564.9
17	7409	1804.8	77	8511	1494.5	137	7010	1247.1	197	7305	936.2	257	8306	531.2
18	7609	1804.8	78	8509	1491.6	138	6907	1238.6	198	7805	914.6	258	8201	501.0
19	7809	1804.8	79	8304	1430.2	139	9006	1233.0	199	7411	913.1	259	7701	500.6
20	7909	1804.8	80	8204	1426.7	140	7508	1232.9	200	9009	912.9	260	7501	500.0
21	8009	1804.8	81	8204	1426.7	141	7207	1225.6	201	8311	910.4	262	6401	499.9
22	8109	1804.8	82	8310	1419.7	142	7707	1220.3	202	8611	910.4	263	6701	498.8
23	8309	1804.8	83	8810	1417.9	143	8207	1218.2	203	8704	886.0	264	7101	498.8
24	8509	1804.8	84	7104	1417.5	144	7206	1205.0	204	8605	878.7	265	7412	498.8
25	8609	1804.8	85	8104	1417.5	145	7804	1198.4	205	8706	871.1	266	7602	497.9
26	8809	1804.8	86	7310	1415.3	146	6404	1197.5	206	7806	864.7	267	8412	487.6
27	6110	1804.8	87	7110	1414.9	147	6704	1195.2	207	8605	838.6	268	7602	487.6
28	6610	1804.8	88	7604	1358.3	148	7907	1194.9	208	8312	834.9	269	8601	487.3
29	6810	1804.8	89	7704	1346.5	149	6506	1191.4	209	6112	832.2	270	6805	487.1
30	6909	1804.8	90	8408	1343.7	150	8106	1190.0	210	8412	831.0	271	6805	486.9
31	7210	1804.8	91	8404	1343.7	151	6106	1189.0	211	7111	831.9	272	6405	486.9
32	8210	1804.8	92	8604	1342.8	152	7306	1188.0	212	8212	827.2	273	8212	486.9
33	8410	1804.8	93	6811	1338.2	153	8406	1176.3	213	8004	807.4	274	7401	486.9
34	8409	1770.3	94	7510	1336.2	154	7506	1169.8	214	6306	754.6	275	8101	486.9
35	8310	1753.7	95	7610	1336.2	155	6206	1169.8	215	8211	748.5	276	8202	486.9
36	7709	1753.1	96	7910	1334.7	156	6307	1169.8	216	9011	747.8	277	8012	486.9
37	7410	1750.4	97	8910	1334.1	157	7806	1169.8	217	6911	747.5	278	6912	486.9
38	8110	1750.4	98	7211	1331.0	158	6606	1169.8	218	8201	745.3	279	8501	486.9
39	8311	1747.1	99	6710	1329.3	159	8007	1169.8	219	8512	744.6	280	8802	486.9
40	8310	1747.0	100	9010	1327.7	160	6707	1169.8	220	7505	730.0	281	6403	486.9
41	6510	1745.8	101	7107	1327.1	161	8707	1169.8	221	7005	725.0	282	7001	486.9
42	6408	1722.6	102	6607	1327.1	162	8807	1169.8	222	7605	722.7	283	7702	486.9
43	6108	1722.6	103	7307	1327.1	163	7106	1169.8	223	7105	713.0	284	7102	486.9
44	6508	1722.6	104	6407	1327.1	164	9106	1169.8	224	8806	687.9	285	7402	486.9
45	6708	1722.6	105	7507	1327.1	165	7611	1168.5	225	6205	679.7	286	8701	486.9
46	6808	1722.6	106	7607	1327.1	166	6111	1168.5	226	8905	677.3	287	8402	486.9
47	6908	1722.6	107	7807	1327.1	167	8906	1168.5	227	7612	668.1	288	8502	486.9
48	7008	1722.6	108	6207	1327.1	168	7012	1163.8	228	6211	666.9	289	9101	486.9
49	7108	1722.6	109	8507	1327.1	169	8909	1140.8	229	6312	666.9	290	7601	486.9
50	7308	1722.6	110	8107	1327.1	170	8307	1136.1	230	6812	666.1	291	7303	486.9
51	7408	1722.6	111	8407	1327.1	171	7004	1114.5	231	8212	665.1	292	7302	486.9
52	7608	1722.6	112	8507	1327.1	172	6904	1109.8	232	7512	665.1	293	6301	486.9
53	7708	1722.6	113	6107	1327.1	173	7204	1104.4	233	6601	664.5	294	7402	486.9
54	7808	1722.6	114	6407	1327.1	174	8504	1103.6	234	7801	664.5	295	7402	486.9
55	8008	1722.6	115	8907	1327.1	175	6906	1088.2	235	7911	664.1	296	8505	486.9
56	8108	1722.6	116	9005	1327.1	176	9005	1086.6	236	7811	663.7	297	9001	486.9
57	8208	1722.6	117	9107	1327.1	177	8211	1082.3	237	7011	663.6	298	6502	486.9
58	9108	1722.6	118	7407	1318.6	178	7706	1082.1	238	6412	662.2	299	8302	486.9
59	8008	1720.5	119	7406	1315.5	179	6611	1081.5	239	6712	661.2	300	8502	486.9
60	8808	1701.5	120	7606	1310.8	180	7311	1081.1	240	8904	642.7	300	8908	486.9

Result of Monthly Energy Calculation  
(The Da river system case-I Hoa Binh - project)

\* MONTHLY TOTAL ENERGY (GWH) \*

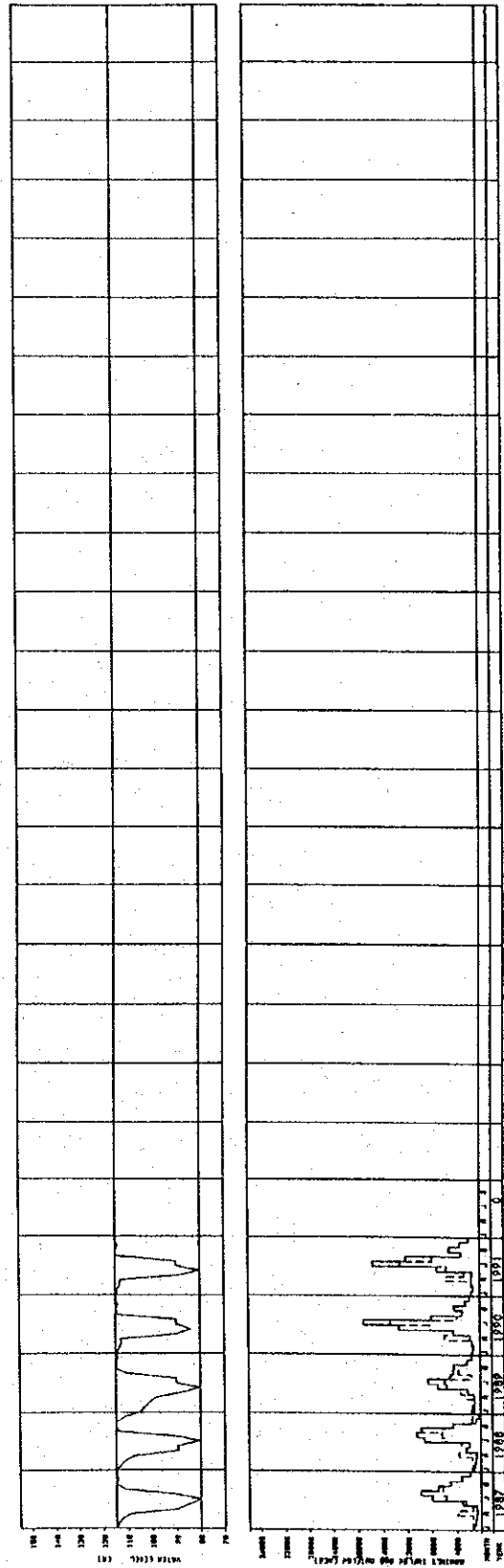
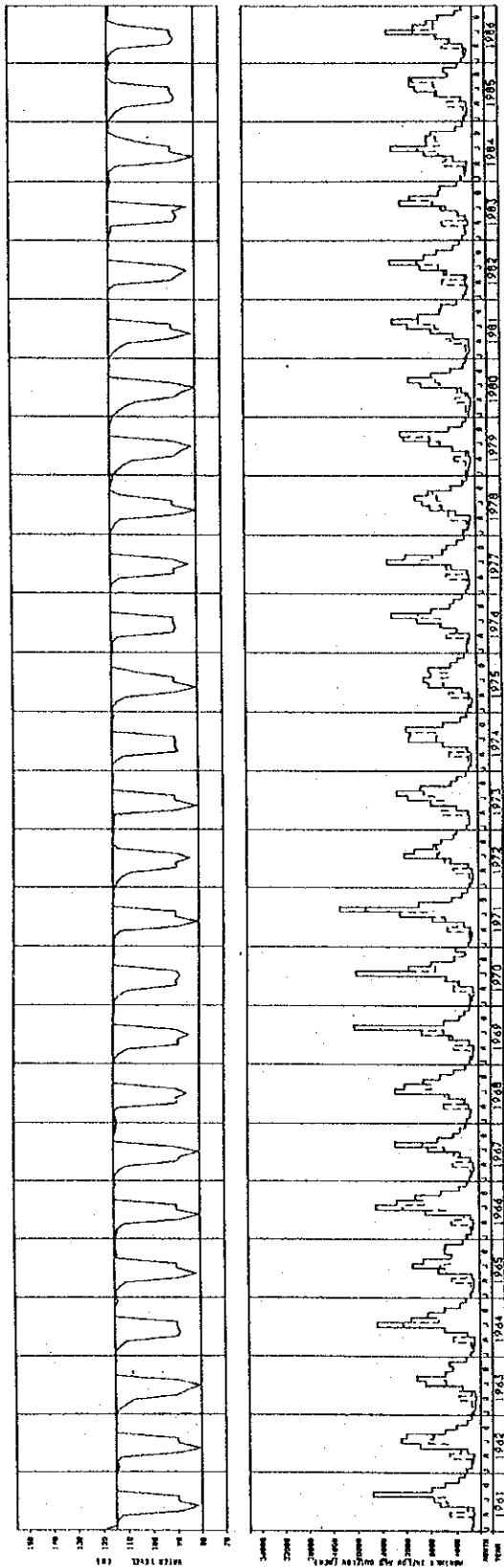
NO.	YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	1961	334.01	300.76	339.07	1020.63	329.82	826.05	987.35	1281.59	1299.48	1342.79	841.32	619.16	9542.02
2	1962	554.51	299.85	330.94	1029.76	505.71	827.22	987.35	1281.59	1299.48	930.61	480.31	334.27	8876.63
3	1963	311.54	293.09	315.19	698.84	234.60	543.30	870.32	1191.51	1299.48	1056.24	1200.67	496.19	8530.77
4	1964	371.91	308.93	323.34	862.22	356.95	941.21	987.35	1281.59	1299.48	1342.79	776.56	492.64	9344.87
5	1965	332.59	299.14	324.60	908.77	331.39	857.77	987.35	970.85	1073.92	1298.87	1999.48	619.03	9303.54
6	1966	464.39	298.53	325.93	913.17	388.91	827.22	987.35	1281.59	1299.48	1342.79	778.70	433.28	9386.36
7	1967	371.84	298.47	323.20	860.53	359.25	920.21	934.10	1281.59	1299.48	989.01	714.57	491.96	8566.94
8	1968	430.78	311.11	331.30	1133.98	328.50	783.51	921.49	1281.59	1299.48	1342.79	538.30	333.74	7888.94
9	1969	332.45	297.36	329.96	802.45	539.58	930.31	963.54	1281.59	1299.48	927.86	477.78	863.88	9037.35
10	1970	332.37	296.76	328.11	1020.85	530.44	827.22	987.35	1281.59	1299.48	1052.66	598.98	432.61	9045.38
11	1971	371.05	300.03	328.11	793.17	240.87	842.25	987.35	1281.59	1299.48	1342.79	958.34	803.99	9459.12
12	1972	330.08	304.76	316.87	1183.04	696.54	869.59	987.35	1281.59	1299.48	1342.79	778.36	434.42	9633.21
13	1973	432.81	299.46	331.59	1183.04	696.54	869.59	987.35	1281.59	1299.48	1053.00	778.36	434.42	9633.21
14	1974	324.25	299.44	323.92	905.24	239.59	947.16	987.35	917.28	1299.48	1303.27	657.66	370.87	8943.29
15	1975	372.00	298.16	321.19	909.72	543.12	842.25	987.35	1281.59	1299.48	994.11	721.53	424.86	8692.03
16	1976	331.74	346.53	323.82	978.72	537.66	779.30	907.92	1281.59	1299.48	994.11	841.79	497.06	9388.75
17	1977	372.48	300.04	326.53	969.51	241.21	779.30	907.92	1281.59	1299.48	1117.96	719.88	433.93	8712.36
18	1978	494.38	297.60	324.28	868.86	680.48	842.25	987.35	1281.59	1299.48	930.25	477.89	330.45	7692.44
19	1979	326.85	289.29	310.25	637.95	233.70	622.57	889.04	1281.59	1299.48	929.53	419.23	335.17	7287.16
20	1980	368.52	297.55	306.17	581.34	232.30	411.33	870.32	1280.02	1299.48	1302.27	1200.23	621.20	992.50
21	1981	330.89	293.35	325.11	746.15	707.70	857.37	987.35	1281.59	1299.48	1304.77	779.29	429.55	9130.14
22	1982	372.72	301.22	329.11	1027.21	236.40	758.42	845.24	1199.05	1299.48	1342.79	1257.91	613.42	9234.14
23	1983	433.34	299.08	330.24	1031.74	235.40	582.49	845.24	1199.05	1299.48	1342.79	658.99	370.21	9171.65
24	1984	431.38	310.58	327.80	994.63	653.75	846.91	987.35	999.77	1274.63	929.77	1076.03	553.99	9076.52
25	1985	330.24	293.61	316.37	794.63	308.92	936.01	987.35	1250.13	1299.48	929.77	655.49	370.03	9344.67
26	1986	369.88	293.97	324.77	966.81	623.93	936.80	987.35	1212.03	1299.48	1299.75	655.49	370.03	9344.67
27	1987	332.09	296.64	317.67	754.09	231.89	458.32	870.32	1233.68	1299.48	1054.89	718.57	433.42	8124.53
28	1988	330.08	303.47	314.41	693.19	403.18	458.32	870.32	1233.68	1299.48	1054.89	718.57	433.42	7658.94
29	1989	297.96	262.17	281.44	462.71	503.94	840.27	987.35	282.47	831.38	992.56	538.91	332.00	6603.17
30	1990	331.31	296.89	327.12	1131.38	808.46	887.74	987.35	753.90	637.26	987.80	538.41	433.36	8140.98
31	1991	331.81	297.90	327.99	1084.05	398.98	842.35	987.35	1281.59	721.53	1174.45	717.83	450.46	8616.18
TOTAL		11470.2	9290.7	9975.1	27531.2	12811.6	24314.1	29397.2	36831.9	38397.8	34936.3	23180.3	14630.8	272866.5
AVE		370.01	299.70	321.78	888.10	413.27	784.33	948.30	1188.13	1235.41	1126.98	747.75	471.96	8795.69
MAX		554.51	346.53	331.59	1183.04	808.46	947.16	987.35	1281.59	1299.48	1342.79	1399.48	863.88	9942.50
MIN		297.96	262.17	281.44	462.71	231.89	382.49	845.24	282.47	637.26	744.11	317.45	312.25	6603.17

Result of Monthly Capacity  
(The Da river system case-1, Hoa Binh - project)

\* MONTHLY PEAK POWER (MW) \*

NO.	YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	1961	448.94	447.56	442.30	1417.55	443.30	1188.96	1327.09	1722.57	1804.83	1804.83	1768.50	832.20	13048.61
2	1962	745.31	446.20	444.82	1430.23	679.72	1189.79	1327.09	1722.57	1804.83	1804.83	1667.10	449.29	12137.75
3	1963	445.62	436.15	423.64	1970.61	315.32	1169.79	1469.79	1722.57	1804.83	1804.83	1667.32	666.93	11675.96
4	1964	499.88	443.86	434.64	1197.52	479.64	1307.33	1327.09	1722.57	1804.83	1804.83	1078.36	666.16	12765.77
5	1965	447.03	445.15	436.02	1282.17	445.41	1191.35	1327.09	1304.50	1491.56	1745.79	1804.83	832.03	12783.33
6	1966	684.51	444.24	438.08	1288.29	522.72	1169.79	1327.09	1722.57	1804.83	1804.83	1081.33	582.36	12830.83
7	1967	499.78	444.16	434.42	1195.18	320.90	871.14	1169.79	1722.57	1804.83	1804.83	1336.17	666.55	11445.77
8	1968	579.00	447.00	445.30	1577.75	442.86	1250.39	1255.52	1722.57	1804.83	1804.83	1000.14	747.64	10799.51
9	1969	446.84	442.50	430.86	1109.84	320.30	1098.21	1238.57	1722.57	1804.83	1804.83	1247.12	1163.82	12346.97
10	1970	446.74	441.60	430.06	1114.51	724.97	1292.90	1327.09	1722.57	1804.83	1804.83	1614.86	831.92	12369.50
11	1971	448.72	446.47	441.00	1417.84	712.96	1169.79	1327.09	1722.57	1804.83	1804.83	1331.03	1080.63	12877.45
12	1972	443.66	437.87	425.90	1104.40	323.75	1204.97	1225.62	1689.57	1804.83	1804.83	1681.05	583.90	13175.43
13	1973	581.73	445.63	445.68	1651.45	936.21	1179.98	1327.09	1722.57	1804.83	1804.83	1415.32	498.49	12234.34
14	1974	449.26	445.60	435.38	1257.27	322.03	1315.50	1318.58	1722.57	1804.83	1804.83	1751.71	913.14	11894.44
15	1975	500.00	443.69	431.70	1251.00	730.00	1109.79	1327.09	1722.57	1804.83	1804.83	1336.17	1169.15	12806.58
16	1976	443.89	447.89	442.10	1359.33	722.67	1330.81	1327.09	1722.57	1753.08	1804.83	1502.64	989.83	11920.52
17	1977	500.65	446.48	438.88	1346.55	324.21	1082.09	1220.32	1722.57	1804.83	1804.83	1250.34	663.74	11970.63
18	1978	644.48	442.86	435.86	1198.42	914.62	1169.79	1327.09	1654.24	1804.83	1804.83	1334.72	444.29	10517.08
19	1979	439.31	430.49	417.01	886.04	314.11	864.68	1194.94	1722.57	1804.83	1804.83	1249.37	582.37	9943.64
20	1980	438.88	427.51	411.52	807.42	312.23	571.57	1169.79	1720.46	1804.83	1804.83	1249.37	447.81	9943.64
21	1981	444.74	436.54	423.54	1036.31	951.21	1190.32	1327.09	1722.57	1804.83	1804.83	1750.36	1667.01	13589.66
22	1982	500.97	448.25	442.36	1426.68	317.74	1033.57	1218.24	1722.57	1804.83	1804.83	1082.34	666.06	12488.21
23	1983	592.44	445.06	443.88	1432.97	316.39	531.24	1136.08	1611.53	1804.83	1804.83	1753.73	1247.09	12632.51
24	1984	579.81	446.24	440.60	1343.75	878.70	1176.27	1327.09	1343.77	1770.32	1804.83	915.26	497.59	12524.20
25	1985	443.87	436.91	425.23	1103.65	415.22	1300.02	1327.09	1680.29	1804.83	1804.83	1249.69	744.61	12425.88
26	1986	437.15	444.90	435.71	1342.79	838.61	1301.11	1327.09	1629.07	1804.83	1804.83	1746.98	497.35	12775.98
27	1987	446.36	441.42	429.67	1047.34	311.69	634.97	1169.79	1458.17	1804.83	1804.83	1580.60	998.15	11107.54
28	1988	443.66	434.02	422.59	941.38	441.91	687.94	1169.79	1701.49	1804.83	1804.83	1417.87	440.90	10448.05
29	1989	400.48	390.14	378.28	642.65	677.33	1167.05	1327.09	379.67	1160.81	1334.09	748.58	466.24	9032.30
30	1990	445.31	441.81	439.67	1571.36	1086.64	1327.09	1327.09	1013.31	912.87	1327.69	747.79	582.48	11128.97
31	1991	445.98	443.31	440.85	1505.63	536.26	1169.79	1327.09	1722.57	1002.13	1578.56	996.99	603.45	11774.59
TOTAL		15416.95	13713.47	13407.45	38237.85	17219.61	33769.61	39512.31	49505.25	53191.45	44957.49	32194.92	19665.12	372791.00
AVE		497.32	442.37	432.50	1233.48	555.47	1089.34	1274.59	1596.94	1715.85	1514.76	1038.55	634.36	12025.52
MAX		745.31	497.89	445.68	1651.45	1086.64	1315.50	1327.09	1722.57	1804.83	1804.83	1804.83	1163.82	13589.66
MIN		400.48	390.14	378.28	642.65	311.69	531.24	1136.08	379.67	912.87	1000.14	440.90	419.69	9032.30

Result of Reservoir Operation  
 (The Da river system case-1 Hoa Binh - project)





Result of Monthly Energy Calculation  
(The Da river system case-2 Son La(L) - project)

NO. YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1 1962	1185.43	1043.86	1115.64	1032.34	1025.46	1359.18	2489.89	2509.28	1486.11	1195.06	1141.82	1146.76	16730.80
2 1963	1102.48	951.62	998.54	904.38	851.93	774.77	865.15	1001.68	1041.30	1092.59	1076.08	1110.42	11770.93
3 1964	1075.48	965.02	977.87	886.42	850.97	834.45	1150.56	2371.00	2343.90	1470.24	1533.78	1175.41	15255.10
4 1965	1145.50	999.85	1060.08	974.42	951.85	924.45	1056.30	1950.53	1295.51	1922.89	1797.78	1190.32	14869.45
5 1966	1170.73	1029.65	1106.45	1284.98	1468.53	1876.52	2281.87	2509.28	2428.34	2050.76	1575.85	1180.26	19544.41
6 1967	1150.05	1004.79	1065.52	979.96	958.98	896.34	972.92	1110.22	1793.99	1338.66	1154.01	1176.17	13601.57
7 1968	1148.70	1043.94	1075.97	998.05	997.09	1027.06	2471.83	2509.28	2352.81	1985.72	1295.49	1184.05	18080.98
8 1969	1158.36	1004.73	1042.98	973.17	951.77	1009.37	2007.61	2509.28	1921.44	1193.27	1141.93	1156.63	16080.54
9 1970	1113.43	965.27	1016.08	928.25	922.23	1326.79	2407.27	2499.18	1264.87	1195.66	1144.83	1172.24	16851.87
10 1971	1155.60	1011.58	1363.32	1359.42	1371.54	1581.30	1833.12	2509.28	2428.34	1340.02	1151.88	1164.87	18270.05
11 1972	1127.73	1013.17	1030.78	941.66	920.23	877.81	1019.62	1891.48	2043.96	1857.66	1358.55	1194.91	14679.54
12 1973	1180.64	1035.27	1107.93	1031.32	1039.44	1030.86	2308.18	2476.91	2403.17	1404.01	1157.78	1182.32	17356.91
13 1974	1150.12	1002.92	1042.40	976.63	960.36	928.54	1338.56	2445.82	2410.56	1601.65	1151.39	1164.83	16193.76
14 1975	1130.74	985.14	1041.20	955.53	949.74	978.50	1067.23	1140.59	1141.37	1195.30	1153.76	1174.36	12881.18
15 1976	1142.26	1034.50	1082.78	979.10	983.91	978.50	2042.67	2492.16	2343.11	1338.42	1458.51	1184.08	16739.98
16 1977	1154.55	1009.46	1072.06	990.08	975.34	924.67	1466.90	2509.28	1484.39	1334.69	1351.82	1168.07	15443.31
17 1978	1137.61	995.02	1052.96	962.68	959.10	967.11	1092.73	1875.70	2123.18	1193.97	1136.46	1137.65	14634.16
18 1979	1089.83	938.83	991.53	883.51	826.80	755.59	837.96	992.36	1652.94	1119.34	583.10	1077.03	11938.79
19 1980	1142.93	1024.87	1042.11	948.38	915.23	827.43	900.32	1028.85	1079.38	1134.65	1093.57	1081.94	12209.93
20 1981	1035.15	886.68	917.86	803.72	782.96	805.94	971.53	1373.55	2428.52	1400.05	1610.16	1186.02	14484.04
21 1982	1145.00	1020.32	1085.12	1003.33	985.16	933.09	1030.03	2304.19	2104.27	1857.98	1155.04	1177.71	15821.22
22 1983	1147.32	1001.51	1044.73	978.76	950.14	875.75	906.72	1015.09	1489.27	1470.27	1797.55	1188.49	13885.59
23 1984	1164.59	1056.33	1081.50	994.08	989.04	983.58	1196.96	2359.73	2342.53	1922.71	1151.10	1163.25	16404.39
24 1985	1125.60	976.97	1030.32	940.95	922.76	902.91	1031.01	1815.45	2372.31	1195.62	1547.67	1189.47	15050.92
25 1986	1162.73	1016.52	1077.59	995.38	998.05	980.09	2058.98	2397.44	2284.98	1794.89	1153.45	1169.30	17089.19
26 1987	1134.02	986.52	1042.74	952.40	918.78	834.38	926.96	1043.93	1088.24	1162.60	1134.20	1156.90	12381.66
27 1988	1121.66	1007.97	1026.10	934.82	923.58	862.87	960.33	1229.64	2308.65	1210.10	610.98	463.09	12660.09
28 1989	357.12	1040.99	1136.75	1053.07	1046.19	1016.35	1113.72	1166.09	1148.56	1197.30	698.25	444.79	11419.17
TOTAL	31067.3	28053.1	29756.0	27642.7	27396.7	28040.9	39806.9	52039.5	53487.8	40776.1	33008.2	31161.3	422235.7
AVE	1109.55	1001.89	1082.71	987.24	978.45	1001.46	1421.67	1838.56	1910.28	1456.29	1178.87	1112.90	15079.84
MAX	1185.43	1056.33	1363.32	1359.42	1468.53	1876.52	2489.89	2509.28	2428.34	2050.76	1797.76	1196.91	19544.41
MIN	357.12	886.68	917.96	803.72	782.96	755.59	837.96	992.36	1041.30	1092.59	583.10	444.79	11419.17

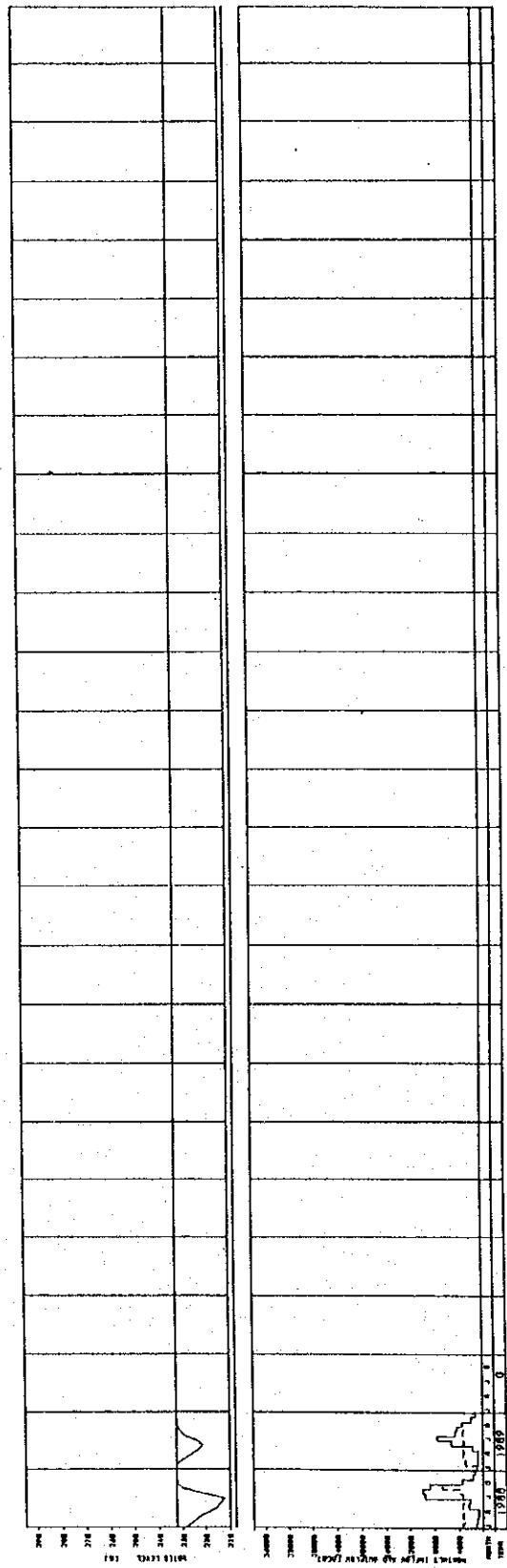
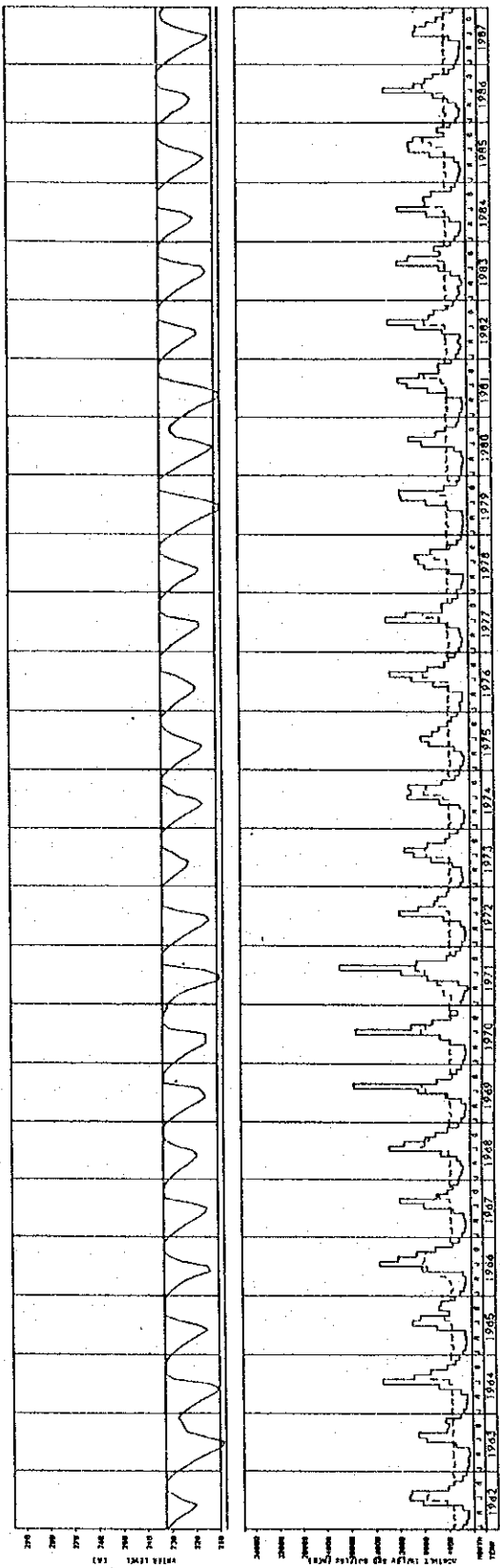
Result of Monthly Capacity  
(The Da river system case-2 Son La(L) - project)

\* MONTHLY PEAK POWER (MW) \*

NO. YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1 1982	1593.32	1553.36	1499.52	1433.80	1378.30	1387.75	3346.62	3372.69	2034.04	1606.26	1585.86	1541.35	22862.86
2 1983	1481.83	1416.10	1342.13	1256.08	1145.07	1076.07	1168.84	1346.35	1446.25	1468.53	1494.56	1492.50	16128.28
3 1984	1445.64	1386.52	1314.35	1231.15	1145.78	1128.96	1546.45	3186.83	3225.42	1976.12	1602.47	1579.86	20837.43
4 1985	1539.65	1487.87	1424.84	1353.36	1279.37	1293.94	1419.76	2084.05	1799.33	2584.54	2496.89	1599.89	20333.48
5 1986	1573.57	1532.22	1487.17	1384.69	1273.57	1266.28	3067.03	3372.69	3372.70	2756.39	1607.30	1586.37	26719.96
6 1987	1543.76	1495.22	1452.15	1361.05	1288.96	1244.91	3307.68	3492.23	3240.61	1799.28	1602.79	1580.87	18642.54
7 1988	1543.95	1499.91	1443.51	1386.17	1340.17	1426.48	3328.32	3372.69	3240.01	2668.98	1799.29	1591.47	24634.98
8 1989	1548.87	1495.14	1428.74	1331.62	1279.15	1401.90	2698.41	3372.69	2668.67	1603.86	1586.02	1549.24	21984.41
9 1970	1496.54	1436.42	1365.67	1293.68	1239.55	1842.77	3235.58	3359.18	3006.77	1607.07	1599.76	1575.59	23038.51
10 1971	1505.33	1505.33	1332.42	1888.08	1843.19	2196.25	2453.87	3372.69	3372.70	1801.11	1599.83	1545.69	24994.37
11 1972	1515.77	1455.71	1385.46	1307.86	1236.87	1219.18	3370.46	1735.86	2858.83	2496.86	1886.87	1608.75	20588.66
12 1973	1586.88	1540.59	1487.94	1432.38	1397.10	1431.75	3102.39	3329.18	3337.74	1887.11	1608.03	1589.14	23730.21
13 1974	1545.87	1492.45	1427.96	1356.43	1290.81	1289.63	1799.14	3287.39	3348.01	2152.76	1599.15	1545.63	22155.20
14 1975	1519.82	1465.99	1399.46	1327.13	1276.53	1314.21	1434.46	1533.05	1585.23	1606.58	1602.45	1578.44	17443.33
15 1976	1535.09	1486.35	1428.47	1359.85	1322.46	1359.02	2745.53	3349.68	3354.32	1798.96	1609.05	1591.50	22840.46
16 1977	1551.82	1502.18	1440.94	1375.11	1310.95	1384.27	1971.64	3372.70	2064.43	2062.76	1599.75	1569.98	21106.52
17 1978	1529.04	1480.69	1415.28	1357.05	1289.12	1343.20	1468.75	2521.10	2848.87	1601.80	1378.41	1529.30	20845.57
18 1979	1464.82	1397.06	1319.27	1227.10	1111.28	1049.43	1428.29	1333.81	2895.75	1773.30	809.87	1447.62	16335.59
19 1980	1536.19	1472.51	1400.69	1317.20	1230.14	1149.20	1210.10	1382.86	1499.14	1525.07	1505.37	1454.82	16682.68
20 1981	1591.33	1519.47	1233.82	1116.28	1059.36	1119.36	1305.81	1846.17	3372.70	2150.60	2236.33	1596.81	19741.03
21 1982	1543.17	1518.33	1458.50	1393.52	1324.14	1295.96	1394.45	3099.72	2932.60	2497.29	1604.22	1582.94	21444.82
22 1983	1542.10	1490.35	1431.09	1359.59	1277.07	1216.52	1218.71	1364.36	2688.43	1976.17	2496.60	1597.43	19538.02
23 1984	1565.51	1517.71	1453.63	1380.67	1329.35	1364.70	1608.81	3171.71	3253.51	2584.29	1598.75	1563.51	22391.93
24 1985	1512.90	1453.82	1384.71	1306.88	1240.27	1254.04	1585.77	2440.12	3294.87	1607.02	2149.54	1598.75	20628.66
25 1986	1562.81	1512.38	1448.38	1382.47	1341.46	1361.24	2767.45	3222.37	3173.58	2412.48	1602.02	1571.65	23358.27
26 1987	1524.22	1468.04	1401.53	1332.77	1234.92	1158.87	1265.92	1403.14	1511.44	1542.64	1575.28	1554.97	16963.72
27 1988	1507.61	1448.24	1379.17	1298.57	1241.38	1198.43	1890.76	1653.14	3206.46	1626.48	848.59	622.63	17321.05
28 1989	479.99	1549.09	1527.89	1462.60	1406.17	1411.60	1496.94	1567.53	1595.22	1609.28	969.79	597.84	15673.72
TOTAL	41757.18	41378.96	39994.61	38392.71	36823.56	38945.70	53503.92	69945.62	74288.56	54806.53	45844.81	41885.49	577565.12
AVE	1491.33	1477.82	1428.38	1371.17	1315.13	1390.92	1910.85	2498.06	2653.16	1957.38	1637.31	1495.84	20627.32
MAX	1593.32	1553.36	1487.42	1468.08	1433.57	1406.28	3346.62	3372.70	3372.70	2756.39	2496.89	1608.75	26719.96
MIN	479.99	1319.47	1233.82	1116.28	1052.36	1049.43	1126.29	1333.81	1446.25	1468.53	809.87	597.84	15673.72



Result of Reservoir Operation  
 (The Da river system case-2 Son La(L) - project)



Result of Monthly Energy Calculation  
(The Da river system case-2 Hoa Binh - project)

NO. YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1 1962	833.97	751.07	830.45	1116.98	753.31	1183.87	1262.04	1373.39	1356.66	953.65	836.07	833.54	12145.00
2 1963	830.66	744.61	816.92	959.83	757.47	773.86	916.33	773.56	876.67	924.00	864.55	831.61	10026.04
3 1964	831.90	770.99	814.57	971.51	750.40	733.88	1174.90	1373.39	1373.07	1343.17	835.66	833.31	11821.95
4 1965	838.84	742.20	812.26	943.39	752.81	848.35	915.25	782.24	947.71	1313.87	1274.06	831.95	10989.13
5 1966	835.89	739.64	810.16	1148.68	1101.27	1221.33	1262.04	1373.39	1373.07	1418.84	806.82	831.22	12912.16
6 1967	833.50	735.83	804.76	882.87	754.07	737.47	805.67	784.33	1318.35	985.06	806.17	831.92	10269.98
7 1968	828.47	771.93	818.99	1007.23	750.21	739.54	1262.04	1373.39	1373.07	1418.84	935.09	833.03	12121.82
8 1969	827.19	740.48	811.51	931.67	754.01	792.85	1262.04	1373.39	1373.07	1418.84	801.83	832.22	11258.44
9 1970	816.10	732.01	802.88	914.18	751.55	1059.06	1262.04	1373.39	1373.07	1418.84	805.44	833.93	11648.82
10 1971	831.14	745.85	1228.24	1247.47	1190.20	1221.33	1262.04	1373.39	1373.07	1418.84	837.31	833.44	13160.93
11 1972	838.58	769.99	815.23	974.62	751.60	774.90	753.86	1018.30	1373.07	1369.72	834.36	831.89	11109.91
12 1973	833.71	752.09	830.85	1140.58	837.22	944.66	1262.04	1373.39	1373.07	1418.84	807.96	831.61	12004.37
13 1974	825.09	738.77	808.90	918.65	753.25	907.66	822.55	776.77	1220.39	953.79	834.56	833.95	11636.80
14 1975	829.58	741.43	809.60	933.91	753.25	907.66	822.55	776.77	1220.39	953.79	834.56	833.95	11636.80
15 1976	823.08	764.88	810.88	875.11	766.55	728.88	1262.04	1373.39	1373.07	1418.84	866.95	832.69	10412.69
16 1977	828.05	742.27	813.44	943.42	754.26	776.00	1127.82	1373.39	1271.12	1104.79	866.38	863.78	11464.70
17 1978	830.00	746.74	824.33	1074.82	753.00	784.96	795.52	1278.70	1357.88	1423.52	822.68	831.46	11093.39
18 1979	832.14	748.75	822.34	1013.24	752.24	784.96	795.52	1278.70	1357.88	1423.52	822.68	831.46	11093.39
19 1980	803.54	744.19	783.95	747.57	762.68	739.17	956.24	770.57	937.04	967.98	806.84	831.41	9757.05
20 1981	825.85	740.54	814.81	1030.94	760.96	739.17	956.24	770.57	937.04	967.98	806.84	831.41	9757.05
21 1982	827.40	739.12	812.37	980.37	751.42	770.20	750.77	1342.33	1331.97	1313.93	1184.67	863.33	11849.52
22 1983	832.71	753.03	833.78	1170.26	751.99	738.41	750.77	756.84	1373.07	1375.61	837.20	863.60	11431.24
23 1984	832.97	781.03	837.41	1142.09	833.42	939.74	1142.13	1335.49	828.73	1282.31	1214.83	832.24	10733.66
24 1985	824.49	736.53	807.71	892.56	761.80	732.92	752.87	1267.50	1373.07	1418.84	866.35	831.75	12371.70
25 1986	824.51	744.43	818.09	1053.98	826.23	826.66	1262.04	1365.54	1373.07	1351.84	806.59	804.95	10992.91
26 1987	830.92	743.11	812.18	774.12	788.24	735.04	763.25	794.31	856.79	857.68	768.34	771.30	9503.77
27 1988	774.37	715.24	832.10	788.90	803.69	782.91	762.17	836.26	1338.64	1410.66	172.82	65.35	8853.50
28 1989	592.26	686.16	732.81	727.42	781.70	897.91	797.89	813.34	786.06	323.53	509.49	340.10	8508.45
TOTAL	22937.9	20862.8	23178.5	27335.3	22288.6	23413.5	28167.0	31816.1	34531.2	30955.4	23449.2	22021.9	311156.9
AVE	819.21	745.10	827.80	976.26	796.02	843.31	1005.86	1136.39	1233.26	1105.55	837.47	786.50	11112.75
MAX	893.97	781.03	1228.24	1247.47	1190.20	1221.33	1262.04	1373.39	1373.07	1418.84	1274.06	863.78	13160.93
MIN	592.26	686.16	732.81	727.42	750.21	724.90	750.77	736.84	786.06	323.53	172.82	65.35	8508.45

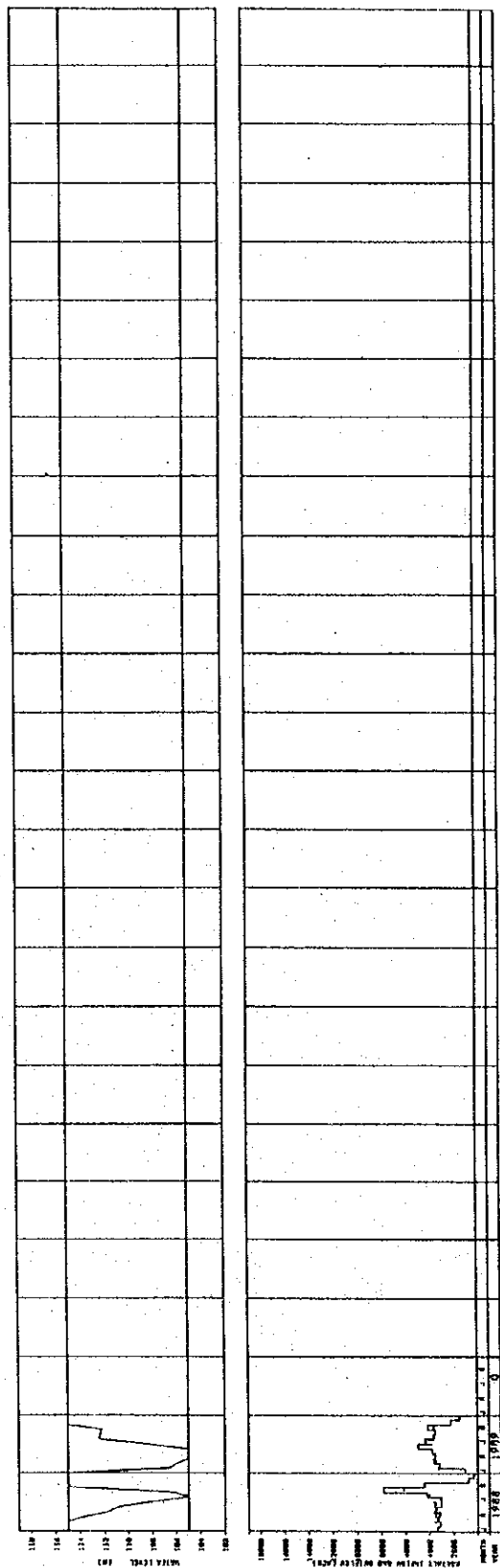
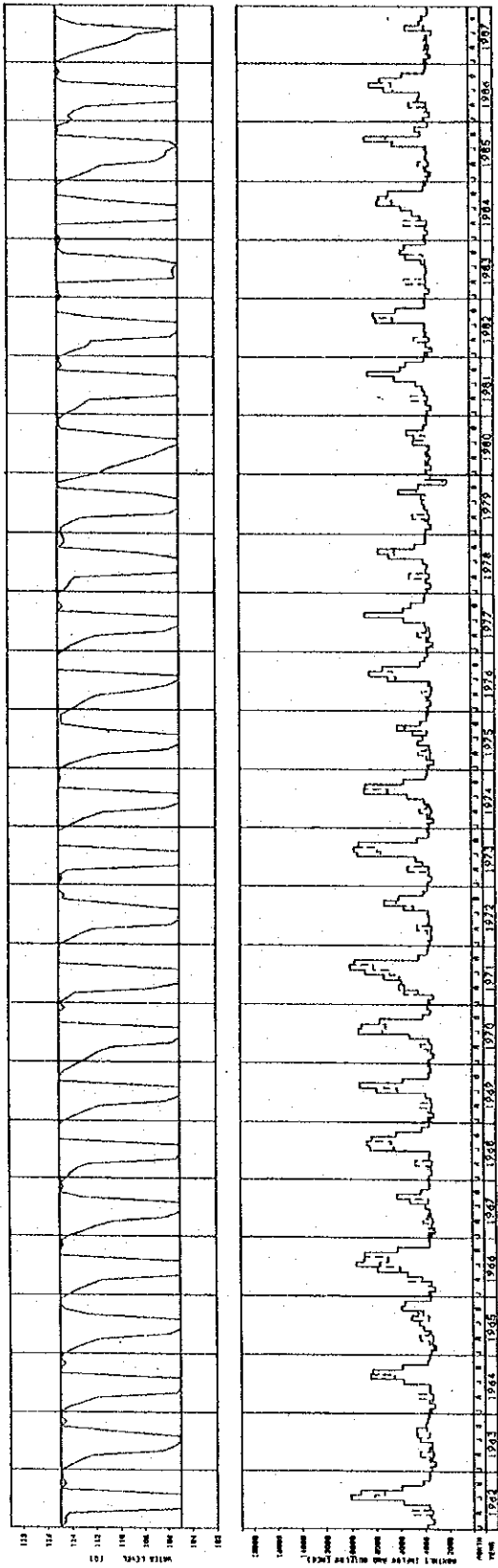
Result of Monthly Capacity  
(The Da river system case-2 Hoa Binh - project)

\* MONTHLY PEAK POWER (MW) \*

NO.	YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	1962	1201.57	1117.67	1116.20	1551.37	1012.51	1644.26	1696.29	1845.95	1884.24	1281.79	1161.21	1120.36	16633.43
2	1963	1116.48	1108.04	1098.01	1333.09	1018.11	1009.53	1231.63	1939.73	1217.59	1241.94	1200.76	1121.78	13736.68
3	1964	1118.14	1107.75	1094.58	1357.65	1008.60	1032.35	1578.17	1845.95	1907.05	1805.33	1160.65	1120.04	16137.22
4	1965	1114.04	1104.47	1091.74	1313.05	1011.84	1178.54	1230.17	1051.40	1307.93	1765.96	1789.54	1118.22	15056.88
5	1966	1110.07	1100.66	1088.93	1295.39	1480.21	1696.29	1696.29	1845.95	1907.05	1907.05	1220.30	1117.23	17865.41
6	1967	1106.85	1094.98	1081.67	1226.20	1013.53	1024.26	1082.90	1054.21	1831.04	1324.00	1119.68	1118.18	14077.50
7	1968	1113.54	1109.10	1100.79	1398.93	1008.35	1013.35	1696.29	1845.95	1907.05	1907.05	1326.52	1119.66	16546.46
8	1969	1111.82	1101.90	1090.73	1293.98	1013.45	1151.49	1696.29	1845.95	1907.05	1244.97	1119.23	1118.87	15948.20
9	1970	1096.92	1089.30	1079.14	1269.70	1009.88	1470.94	1696.29	1845.95	1907.05	1366.91	1162.93	1120.88	13006.49
10	1971	1117.12	1109.89	1090.86	1732.60	1599.73	1696.29	1696.29	1845.95	1907.05	1841.02	1322.17	1122.16	15181.78
11	1972	1115.02	1106.30	1095.74	1353.64	1010.21	1006.80	1013.25	1368.69	1906.78	1841.02	1322.17	1122.16	15181.78
12	1973	1120.57	1119.19	1116.73	1584.14	1125.30	1312.03	1696.29	1845.95	1907.05	1367.19	1122.16	1117.76	16434.56
13	1974	1109.00	1099.36	1087.23	1275.90	1012.77	1117.77	1458.75	1845.95	1907.05	1727.57	1161.75	1120.88	15923.46
14	1975	1115.02	1103.32	1088.18	1297.09	1012.43	1260.63	1103.57	1044.05	1694.98	1281.98	1159.66	1114.01	14276.92
15	1976	1106.30	1098.97	1089.89	1215.42	1030.30	1012.33	1696.29	1845.95	1907.05	1285.78	1159.66	1119.21	15611.33
16	1977	1112.97	1104.57	1093.33	1310.30	1013.79	1077.77	1515.89	1845.95	1785.44	1484.94	1203.31	1160.99	15689.25
17	1978	1118.59	1111.21	1107.97	1493.80	1012.10	1006.89	1068.98	1718.68	1895.95	1402.58	1156.50	1117.55	15196.80
18	1979	1118.46	1114.22	1105.29	1405.89	1011.07	1062.39	1096.07	1019.84	1351.45	1301.45	704.42	1094.57	13384.73
19	1980	1080.02	1069.23	1053.69	1038.29	1024.84	1012.74	1289.27	1035.72	1330.20	1160.45	1120.60	1117.48	13328.52
20	1981	1110.02	1102.00	1095.17	1431.86	1022.79	1120.92	1225.09	1698.94	1849.96	1766.05	1645.58	1160.59	16228.54
21	1982	1112.10	1099.87	1091.89	1361.63	1009.97	1069.72	1019.86	1803.93	1907.05	1848.94	1162.78	1160.75	15683.48
22	1983	1119.23	1120.56	1120.68	1625.36	1010.73	1011.47	1009.12	1017.25	1151.01	1721.54	1686.98	1118.60	14714.74
23	1984	1119.59	1122.16	1121.79	1644.02	1120.19	1332.98	1535.12	1795.01	1907.05	1907.05	1203.55	1117.95	16996.43
24	1985	1108.18	1096.03	1085.63	1259.66	1023.93	1017.95	1011.92	1703.63	1856.45	1243.79	1605.53	1113.16	14905.86
25	1986	1108.22	1107.78	1099.58	1466.64	1150.85	1132.30	1696.29	1835.40	1907.05	1681.58	1120.26	1081.93	16108.85
26	1987	1116.83	1105.81	1091.65	1075.16	1059.47	1048.67	1035.88	1054.85	1189.98	1152.80	1067.13	1036.70	13048.92
27	1988	1040.81	1027.65	1104.97	1095.59	1080.23	1059.60	1045.21	1124.01	1858.97	1358.41	240.02	87.84	12103.41
28	1989	796.05	1021.08	1011.84	1010.31	1050.67	1247.09	1072.44	1093.20	1091.75	1106.62	707.62	437.12	11665.77
	TOTAL	30830.49	30773.03	31153.86	37865.73	29957.81	32796.59	37858.90	42763.55	47860.00	41606.81	33268.37	29599.36	425833.75
	AVE	1101.09	1099.04	1112.64	1355.92	1069.92	1171.31	1332.10	1527.27	1712.88	1485.98	1163.16	1057.12	15208.35
	MAX	1301.57	1122.16	1450.86	1732.60	1599.73	1696.29	1696.29	1845.95	1907.05	1907.05	1769.54	1160.99	18008.49
	MIN	796.05	1021.08	1011.84	1010.31	1008.35	1006.80	1009.12	1017.25	1091.75	1106.62	240.02	87.84	11665.77



Result of Reservoir Operation  
 (The Da river system case-2 Hoa Binh - project)





Result of Monthly Energy Calculation  
(The Da river system case-2 Son La(S) - project)

\* MONTHLY TOTAL ENERGY (GWH) \*

NO.	YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	1962	566.34	501.26	534.30	489.81	661.10	1341.32	1652.94	1676.11	1015.23	755.42	445.39	352.84	9992.06
2	1963	554.05	477.47	444.01	444.01	413.15	384.95	503.47	1630.80	1072.21	980.65	1069.32	564.57	8592.40
3	1964	553.28	499.75	507.61	459.64	451.36	1057.88	1625.94	1676.11	1621.15	983.22	644.02	567.06	10647.00
4	1965	558.84	486.58	512.92	466.41	450.16	536.86	1645.51	1676.11	952.98	1286.16	1190.18	666.00	10426.50
5	1966	565.05	499.61	531.95	487.12	690.52	1247.77	1671.04	1676.11	1622.05	1407.09	708.15	566.86	11673.30
6	1967	556.17	486.35	512.31	465.43	450.25	428.66	1500.21	1676.11	1358.87	858.08	707.24	565.62	9215.28
7	1968	557.71	509.93	525.04	488.58	674.38	1131.70	1565.98	1676.11	1622.05	1350.59	894.37	565.91	11562.32
8	1969	553.59	481.54	503.73	451.35	434.03	704.68	1600.11	1676.11	1305.50	730.54	548.84	560.01	9744.23
9	1970	541.80	488.10	484.80	433.79	440.94	1089.97	1600.11	1676.11	1470.43	794.83	547.80	790.96	10341.84
10	1971	560.33	491.57	520.49	468.05	456.46	1165.06	1641.91	1676.11	1622.05	924.63	581.87	562.09	10670.22
11	1972	544.96	489.91	489.91	439.59	425.58	427.27	1574.88	1676.11	1613.57	1228.61	953.42	795.46	10454.71
12	1973	563.40	494.40	527.64	490.99	529.70	1324.37	1650.32	1676.11	1622.05	988.35	767.42	563.86	11193.79
13	1974	551.01	479.33	502.71	455.47	457.94	784.72	1505.59	1676.11	1622.05	1110.69	590.99	563.30	10344.89
14	1975	549.25	478.95	501.79	455.47	457.94	492.34	1511.15	1676.11	1572.55	838.32	644.75	566.17	9249.78
15	1976	553.91	503.51	516.69	472.66	541.35	1245.98	1508.01	1676.11	1015.64	1048.54	643.63	561.57	10872.19
16	1977	557.45	487.79	515.25	472.05	463.43	886.40	1500.81	1676.11	1614.30	793.09	390.00	284.89	9447.73
17	1978	550.87	483.68	507.72	442.00	440.36	844.46	1676.11	1676.11	1622.04	910.69	406.12	302.08	8562.67
18	1979	555.47	478.26	497.43	442.00	412.08	391.32	1010.67	1536.51	1622.04	910.69	406.12	302.08	8562.67
19	1980	537.57	498.71	500.90	445.56	417.28	377.44	1597.77	1606.14	1245.35	836.23	543.39	546.66	8032.98
20	1981	524.46	448.42	458.61	399.51	403.48	866.49	1525.08	1676.11	1622.05	1108.50	1072.40	570.01	10674.91
21	1982	564.05	496.63	526.57	483.99	471.49	671.23	1643.26	1676.11	1622.05	1228.58	707.43	566.23	10323.45
22	1983	555.44	485.10	513.87	466.69	445.08	411.88	573.78	1613.43	1622.04	1046.39	1187.25	569.35	9487.30
23	1984	564.48	513.14	522.28	473.46	474.83	1066.79	1676.11	1573.28	1573.79	1348.75	550.27	561.30	10898.48
24	1985	543.68	470.17	489.53	438.88	426.78	520.91	1640.89	1676.11	1622.04	796.08	1132.88	568.50	10326.44
25	1986	560.98	490.00	515.51	471.88	556.56	1163.87	1633.83	1676.11	1524.27	1232.73	632.00	562.79	11020.32
26	1987	547.34	475.14	497.13	444.96	416.37	377.92	476.93	1591.00	1466.50	1105.86	766.83	562.80	8725.86
27	1988	548.07	491.95	496.24	444.31	441.58	428.90	1325.49	1676.11	1622.04	840.59	546.77	551.40	9433.17
28	1989	529.28	493.00	468.47	415.63	399.32	421.95	735.84	1110.13	1073.44	831.58	485.84	310.12	7232.58
TOTAL		15666.8	13418.1	14181.1	12822.3	13323.1	21793.1	37934.9	45582.4	39973.7	28252.4	20090.7	13336.0	278374.2
AVE		552.39	486.36	506.47	457.94	473.83	778.32	1354.82	1627.94	1427.63	1009.02	717.52	547.72	9941.93
MAX		566.34	513.14	534.30	490.99	690.52	1341.32	1876.11	1676.11	1622.05	1407.09	1190.18	795.46	11673.30
MIN		524.46	448.42	458.61	399.51	399.32	377.44	459.77	1110.13	952.98	793.09	390.00	284.89	7232.58

Result of Monthly Capacity  
(The Da river system case-2 Son La(S) - project)

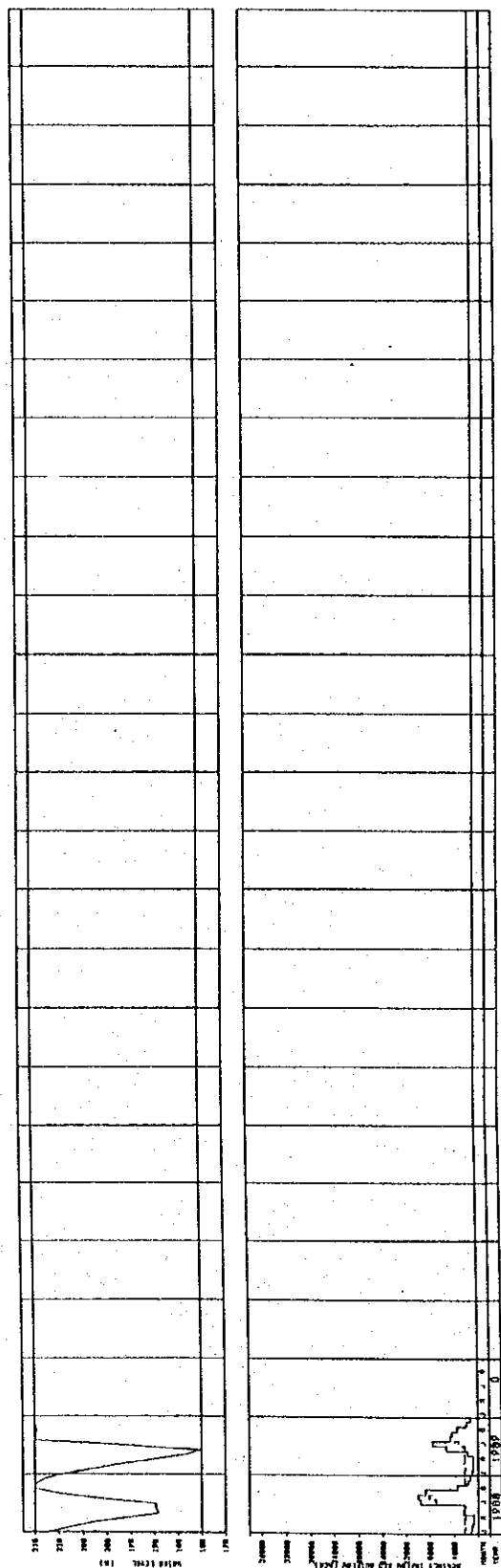
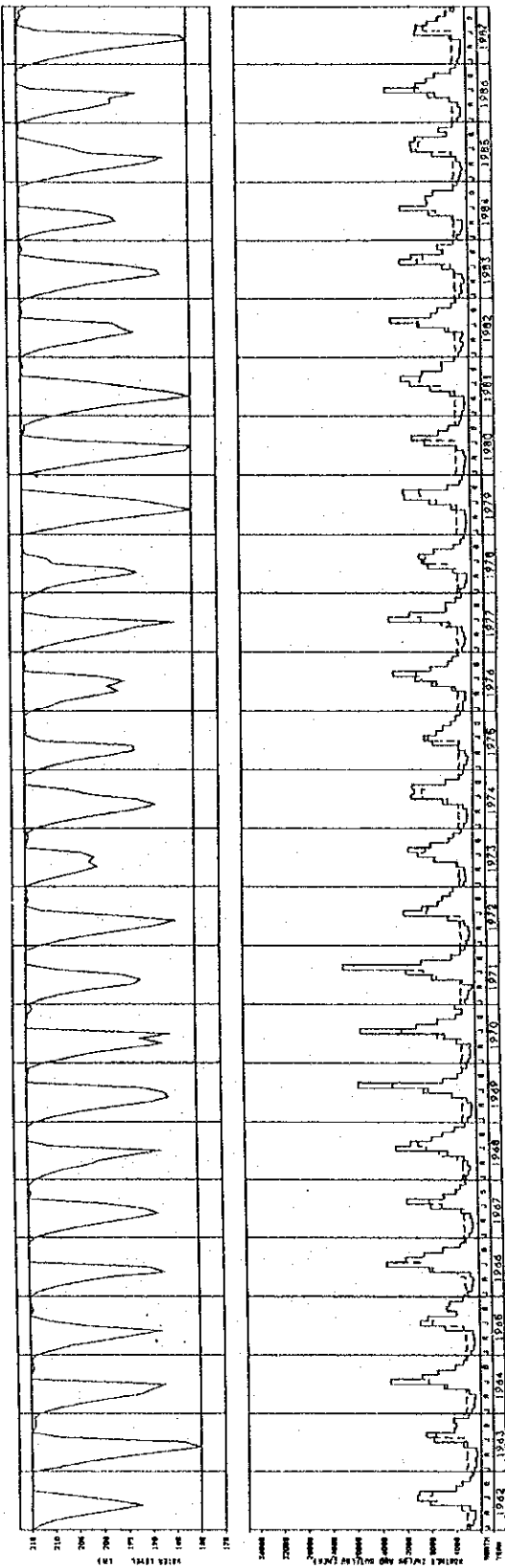
\* MONTHLY PEAK POWER (MW)

NO.	YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	1962	761.21	745.92	718.15	680.29	888.58	1862.95	2221.70	2252.84	1410.04	1015.35	618.60	474.35	13649.87
2	1963	744.70	710.53	669.01	618.68	558.31	334.66	676.1	2191.94	1489.18	1318.08	1485.17	758.83	11750.79
3	1964	743.65	682.27	638.58	606.67	606.67	2169.47	2185.41	2252.84	2351.60	1321.53	894.47	762.18	14526.28
4	1965	748.45	724.08	689.41	647.78	603.05	647.78	2211.44	2252.84	1323.58	178.71	1653.03	895.16	14225.15
5	1966	759.48	743.46	714.99	676.56	628.12	713.01	2246.02	2252.84	2252.84	1891.25	983.54	761.91	15844.01
6	1967	747.54	723.74	688.58	646.43	605.14	595.37	1545.99	2252.84	1887.32	1123.33	924.28	760.23	12888.80
7	1968	749.61	732.66	705.70	678.59	908.42	1571.81	2104.78	2252.84	2352.84	1815.30	1242.18	760.83	15773.37
8	1969	744.07	716.57	677.06	626.88	580.37	978.72	1738.34	2252.84	1813.19	981.91	763.67	752.71	12629.32
9	1970	728.22	696.58	654.31	602.48	592.66	1513.85	2150.89	2252.84	2352.84	1088.32	760.83	1063.12	14126.16
10	1971	753.14	731.14	699.58	650.08	613.52	1618.14	2206.33	2252.84	2352.84	1282.78	808.16	755.50	16584.40
11	1972	732.67	709.81	658.48	610.27	563.32	593.43	2116.50	2252.84	1963.29	1631.36	1324.19	1069.16	14542.12
12	1973	737.26	735.72	709.19	681.93	711.94	1839.40	2238.45	2252.84	2352.84	1321.70	1065.86	757.87	15305.02
13	1974	740.61	713.29	675.68	631.60	596.29	1089.89	2023.45	2252.84	2352.84	1492.86	765.27	757.13	13991.95
14	1975	738.24	712.72	674.45	632.60	615.51	683.81	2219.59	1888.98	1832.29	1153.65	895.48	761.11	12626.13
15	1976	744.50	723.43	694.48	656.20	754.51	1730.53	2026.89	2252.84	2184.10	1280.49	1071.01	762.86	14841.83
16	1977	749.26	725.88	692.54	655.63	628.89	1231.11	2017.32	2252.84	1964.30	1409.33	893.93	754.79	13616.00
17	1978	740.41	719.76	682.43	633.53	618.76	1172.87	2232.84	2252.84	1964.30	1409.33	893.93	754.79	13616.00
18	1979	746.60	711.70	668.58	613.89	595.87	543.50	1558.2	2042.52	2352.84	1224.05	564.06	406.02	11706.05
19	1980	722.54	716.54	673.25	618.84	560.86	524.23	617.87	2156.10	1729.65	1150.84	754.71	734.76	10960.28
20	1981	704.92	667.29	616.41	554.87	542.31	1203.46	2049.84	2252.84	2038.71	1631.32	982.55	761.07	14096.34
21	1982	758.14	739.03	707.75	672.21	633.73	932.27	1966.75	2252.84	2352.84	1406.44	1648.96	765.26	12986.84
22	1983	746.54	731.88	690.69	648.18	595.53	572.06	771.22	2167.24	2252.84	1812.82	1064.26	754.43	14860.23
23	1984	758.71	737.27	701.99	657.59	638.21	1481.65	2252.84	2114.62	2185.82	1812.82	1064.26	754.43	14860.23
24	1985	730.75	699.67	657.97	609.56	575.63	723.63	2205.79	2252.84	2352.84	1059.99	1573.45	764.11	14113.77
25	1986	754.00	789.16	692.88	655.39	748.06	1616.49	2195.74	2252.84	2117.05	1656.90	877.78	756.44	15052.73
26	1987	735.67	707.05	668.18	618.00	586.95	524.88	639.83	2138.44	2036.81	1486.37	1065.04	756.44	11933.66
27	1988	736.66	706.82	666.99	617.10	593.55	595.70	1781.17	2252.84	2252.84	1156.71	759.41	741.12	12860.88
28	1989	711.40	674.11	629.66	577.26	536.72	586.04	986.34	1492.11	1490.89	1117.72	674.77	416.82	9893.84
TOTAL		20788.71	20085.20	19060.65	17808.74	17907.46	30268.17	50987.82	61266.73	55519.05	37973.75	27903.73	20612.98	380182.50
AVE		742.45	717.33	680.74	636.03	639.55	1081.01	1820.99	2188.10	1982.82	1336.31	996.56	736.18	13577.95
MAX		761.21	745.92	718.15	681.93	928.12	1862.95	2252.84	2252.84	2352.84	1891.25	1653.03	1069.16	15944.01
MIN		704.92	667.29	616.41	554.87	536.72	524.23	617.87	1492.11	1323.58	945.01	541.67	382.92	9893.84

Result of Capacity Duration  
 (The Da river system case-2 Son La(S) - project)

NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P		
1	6208	2252.8	61	7707	2017.2	121	8010	1150.8	181	7101	753.1	241	7103	699.6	301	7204	610.3	361									0.0	
2	7208	2252.8	62	8207	1966.7	122	8910	1117.7	182	6912	752.7	242	7002	696.6	302	8504	609.6	362										0.0
3	7309	2252.8	63	7809	1964.3	123	7406	1089.9	183	6801	749.6	243	7603	694.5	303	6405	606.7	363										0.0
4	8109	2252.8	64	7209	1964.3	124	7611	1071.0	184	7701	749.3	244	8603	692.9	304	6705	605.1	364										0.0
5	6408	2252.8	65	6410	1891.2	125	8510	1070.0	185	6501	748.4	245	7703	692.5	305	6505	605.0	365										0.0
6	6608	2252.8	66	6709	1887.3	126	7212	1069.2	186	8605	748.1	246	8303	690.7	306	7004	602.5	366										0.0
7	6609	2252.8	67	7508	1887.0	127	7010	1048.3	187	6701	747.5	247	6703	688.4	307	7805	596.3	367										0.0
8	6808	2252.8	68	6206	1862.9	128	7311	1045.9	188	7901	746.6	248	6703	688.6	308	8806	592.7	368										0.0
9	6809	2252.8	69	7306	1839.4	129	8711	1045.0	189	8301	745.6	249	7503	685.8	309	8305	595.5	369										0.0
10	7008	2252.8	70	6810	1815.3	130	7012	1065.1	190	6202	745.9	250	7803	682.4	310	6706	595.4	370										0.0
11	7109	2252.8	71	6909	1813.2	131	8210	1045.4	191	6506	745.6	251	6403	682.3	311	8805	593.5	371										0.0
12	7409	2252.8	72	8410	1812.8	132	8907	998.3	192	6301	744.7	252	7304	681.9	312	7206	593.4	372										0.0
13	7608	2252.8	73	8807	1781.2	133	6411	983.5	193	7601	744.5	253	6204	680.3	313	7005	592.7	373										0.0
14	8808	2252.8	74	6907	1738.3	134	8211	982.5	194	6901	743.7	255	6903	677.1	315	8906	585.4	375										0.0
15	6708	2252.8	75	6606	1730.5	135	6710	981.9	196	6602	743.5	256	6307	676.7	316	8904	577.3	376										0.0
16	6709	2252.8	76	7606	1730.5	136	6910	981.9	196	6602	743.5	256	6307	676.7	316	8904	577.3	376										0.0
17	8108	2252.8	77	8009	1729.6	137	6906	978.7	197	8812	741.1	257	6604	676.6	317	8506	578.1	378										0.0
18	8208	2252.8	78	6510	1728.7	138	7810	945.0	198	7801	740.6	258	7403	675.7	318	8306	578.1	378										0.0
19	8608	2252.8	79	8610	1658.9	139	8206	932.3	199	7801	740.4	259	8911	674.8	319	7205	569.3	379										0.0
20	6508	2252.8	80	6511	1653.0	140	8605	908.4	201	7501	739.0	260	7503	674.5	320	7911	564.1	380										0.0
21	6908	2252.8	81	7509	1652.3	141	8805	908.4	201	7501	739.0	260	7503	674.5	320	7911	564.1	380										0.0
22	7408	2252.8	82	7210	1651.3	142	7511	895.5	202	8402	737.3	262	8003	673.3	322	8205	557.0	382										0.0
23	7808	2252.8	83	8210	1651.3	143	6512	895.2	203	8801	736.7	263	8204	672.2	323	8305	555.3	383										0.0
24	7909	2252.8	84	8311	1649.0	144	6411	894.5	204	7302	735.7	264	6303	669.0	324	8104	554.9	384										0.0
25	8208	2252.8	85	7710	1618.1	145	7711	893.9	205	8701	735.7	265	7903	668.6	325	7905	553.9	385										0.0
26	8809	2252.8	86	8606	1618.1	146	6205	885.6	206	8012	734.8	266	8703	667.3	327	8105	542.3	386										0.0
27	7108	2252.8	87	8511	1573.4	147	8411	877.8	207	6802	732.7	267	8803	667.0	328	7811	541.7	388										0.0
28	7308	2252.8	88	8806	1571.8	148	7111	808.2	208	7201	732.5	268	8803	667.0	328	7811	541.7	388										0.0
29	8508	2252.8	89	6707	1546.0	149	8307	771.2	209	7102	731.5	269	7203	658.5	329	8905	536.7	389										0.0
30	8509	2252.8	90	7006	1513.9	150	8112	766.1	210	8501	730.8	270	8503	658.0	330	6306	534.7	390										0.0
31	7708	2252.8	91	7410	1492.9	151	7411	765.3	212	7001	728.9	272	7604	656.2	332	8006	524.2	392										0.0
32	8309	2252.8	92	8909	1492.1	152	8312	765.3	213	7702	728.9	273	7704	655.6	333	8205	524.2	393										0.0
33	6409	2251.4	93	8909	1492.1	153	8411	764.3	214	6502	724.1	274	8604	654.4	334	8912	416.8	394										0.0
34	6607	2246.0	94	8110	1489.7	154	8512	764.1	214	6502	724.1	274	8604	654.4	334	8912	416.8	394										0.0
35	6207	2241.7	95	8111	1489.4	155	6511	763.7	215	6702	723.7	275	7003	654.3	335	7912	406.0	396										0.0
36	7507	2241.7	96	6309	1489.2	156	7412	763.9	216	8506	723.5	276	7104	650.1	336	7812	382.9	397										0.0
37	6507	2241.4	97	8710	1486.4	157	6412	763.2	217	7602	723.4	277	8304	648.2	337													0.0
38	6507	2241.4	98	6311	1485.2	158	6412	763.2	217	7602	723.4	277	8304	648.2	337													0.0
39	7107	2206.3	99	8406	1481.7	159	6201	761.2	219	8302	721.9	279	6704	646.1	339													0.0
40	8507	2205.5	100	6406	1469.3	160	7512	761.1	220	7802	719.8	280	8707	639.8	340													0.0
41	8607	2195.7	101	7709	1410.6	161	8212	761.1	221	6203	718.1	281	6404	638.4	341													0.0
42	6308	2191.9	102	6209	1410.0	162	7011	760.8	222	6202	718.0	282	8405	638.2	342													0.0
43	8409	2185.8	103	7710	1409.3	163	6812	760.6	223	6902	716.6	283	8205	633.7	343													0.0
44	6407	2185.4	104	8310	1406.4	164	6712	760.2	224	8002	716.5	284	7804	633.7	344													0.0
45	7609	2184.1	105	7907	1358.4	165	6601	759.5	225	6603	715.0	285	7504	632.6	345													0.0
46	8308	2184.1	106	7211	1326.2	166	8811	759.4	226	7402	713.3	286	7404	631.6	346													0.0
47	8008	2156.1	107	6509	1323.6	167	6512	758.8	227	7502	712.7	287	8903	629.7	347													0.0
48	7007	2150.7	108	7310	1321.6	168	8401	758.7	228	7305	712.0	288	6904	626.9	348													0.0
49	8609	2138.4	109	6410	1321.5	169	8801	758.1	229	7902	711.7	289	7705	622.9	349													0.0
50	8609	2138.4	110	6310	1318.1	170	7312	757.9	230	8901	711.4	290	8004	618.8	350													0.0
51	7207	2116.5	111	7110	1242.8	171	7301	757.3	231	6302	710.5	291	7805	618.8	351													0.0
52	8408	2114.6	112	6811	1242.2	172	7412	757.2	232	7303	709.2	292	6211	618.6	352													0.0
53	6807	2104.6	113	7610	1240.5	173	8712	756.4	233	8203	707.8	293	8704	618.0	353													0.0
54	7908	2062.5	114	7706	1231.1	174	8612	756.4	234	8702	707.1	294	8007	618.0	354													0.0
55	8107	2049.8	115	7910	1224.0	175	7112	755.5	235	8802	706.8	295	8804	617.1	355													0.0
56	7009	2042.3	116	8106	1203.5	176	7712	754.8	236	6803	705.7	296	6304	616.4	356													0.0
57	8209	2038.7	117	7806	1172.9	177	8011	754.7	237	8101	704.9																	

Result of Reservoir Operation  
 (The Da river system case-2 Son La(S) - project)



Result of Monthly Energy Calculation  
(The Da river system case-2 Hoa Binh - project)

NO. YEAR	* MONTHLY TOTAL ENERGY (GWH) *												< TOTAL >
	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	
1 1962	648.77	529.70	726.06	1145.15	586.50	918.72	949.35	1115.19	1299.24	894.44	565.47	586.83	< TOTAL >
2 1963	551.59	494.17	541.77	909.46	436.99	416.42	580.50	904.82	1299.06	1044.07	1154.98	587.30	8918.14
3 1964	586.08	543.46	574.21	1164.37	429.54	918.72	949.35	1241.17	1299.24	1313.01	716.16	586.04	10311.35
4 1965	583.19	522.57	571.83	1139.89	432.17	579.05	949.35	753.02	1096.36	1311.64	1241.01	688.35	9819.22
5 1966	584.91	524.09	573.89	1137.68	431.86	918.72	949.35	1241.17	1299.24	1342.55	746.29	584.37	10582.09
6 1967	579.14	517.63	566.27	1072.10	425.48	425.48	949.35	1196.79	1299.24	923.51	716.55	586.56	9265.94
7 1968	584.40	544.72	634.02	1143.77	474.20	918.72	949.35	1241.17	1299.24	1342.55	953.82	587.30	10773.25
8 1969	585.34	522.54	572.85	1131.14	433.47	681.91	949.35	1241.17	1299.24	740.64	565.68	580.31	9301.82
9 1970	576.13	516.97	567.21	1113.77	430.58	918.72	949.35	1241.17	1299.24	922.83	565.50	768.97	9870.48
10 1971	586.39	526.50	823.13	1104.32	447.23	918.72	949.35	1241.17	1299.24	1015.66	628.89	587.91	10188.49
11 1972	585.14	543.35	575.47	1168.72	430.58	444.27	949.35	1178.48	1299.24	1342.55	923.75	803.16	10214.04
12 1973	587.75	530.38	753.64	1116.18	522.18	918.72	949.35	1119.59	1299.24	1045.65	776.84	586.19	10335.52
13 1974	581.91	521.18	570.85	1117.02	432.92	774.82	949.35	1191.42	1299.24	1285.37	628.31	586.59	9958.97
14 1975	583.82	521.94	570.10	1121.19	432.65	564.18	949.35	909.59	1299.24	983.93	687.92	586.35	9210.26
15 1976	582.64	541.62	659.92	1123.65	429.86	918.72	949.35	1204.85	1299.24	955.32	836.28	587.07	10058.52
16 1977	584.12	523.80	574.21	1142.48	433.74	895.08	949.35	1117.46	1299.24	1104.49	717.77	618.36	9900.59
17 1978	585.55	527.05	593.67	1138.42	431.55	689.44	949.35	1135.52	1299.24	893.97	562.43	559.79	9442.84
18 1979	587.71	485.68	532.68	864.72	442.45	447.86	949.35	1025.56	1299.24	893.08	569.42	586.68	8093.43
19 1980	581.80	490.61	516.95	712.00	438.77	878.50	949.35	1160.01	1299.24	1314.18	1156.84	618.99	10738.55
20 1981	583.10	523.03	658.75	1129.57	438.77	62.87	949.35	1160.01	1299.24	1342.55	747.44	618.10	10034.44
21 1982	585.00	522.84	602.77	1153.62	430.65	444.70	949.35	954.88	1299.24	1342.55	1184.19	586.56	9987.68
22 1983	587.24	531.14	783.74	1142.14	434.32	642.87	949.35	1155.72	1299.24	1342.55	628.82	586.59	10285.21
23 1984	614.33	547.62	752.83	1130.65	497.85	918.72	949.35	954.88	1299.24	893.84	1069.89	584.79	9650.77
24 1985	584.81	519.91	570.34	1126.71	432.23	474.92	949.35	1147.93	1299.24	1252.34	656.87	585.23	10283.63
25 1986	582.44	526.00	689.04	1124.54	470.03	918.72	949.35	1118.17	1299.24	1190.51	885.25	584.60	8850.66
26 1987	580.77	519.42	567.77	984.51	470.03	446.78	949.35	1133.03	1299.24	1045.58	551.47	531.17	8990.44
27 1988	576.70	531.82	589.50	927.64	458.15	426.78	949.35	702.48	1299.24	945.99	508.66	339.52	6818.77
28 1989	506.38	453.28	498.05	709.81	455.68	675.38	702.48	480.20	565.34	508.66	339.52	16583.6	270442.7
TOTAL	16266.4	14602.6	17250.4	30006.2	12994.7	19452.6	24691.5	30945.8	35373.2	31009.6	21306.6	16583.6	9658.67
AVE	579.51	521.52	616.09	1071.65	464.10	694.74	881.84	1105.21	1283.33	1107.49	760.95	592.27	10773.25
MAX	648.77	547.62	823.13	1168.72	601.86	918.72	949.35	1241.17	1299.24	1342.55	1241.01	803.16	10773.25
MIN	506.38	453.28	498.05	709.81	429.14	444.27	443.42	480.20	565.34	740.64	508.66	339.52	6818.77

Result of Monthly Capacity  
(The Da river system case-2 Hoa Binh - project)

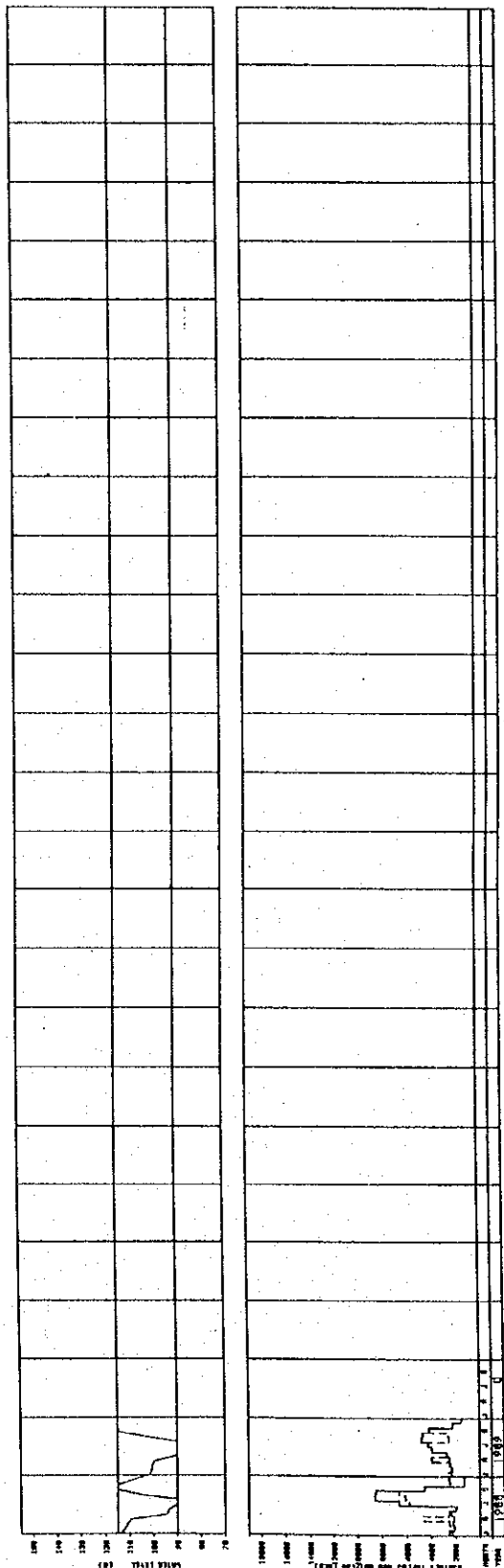
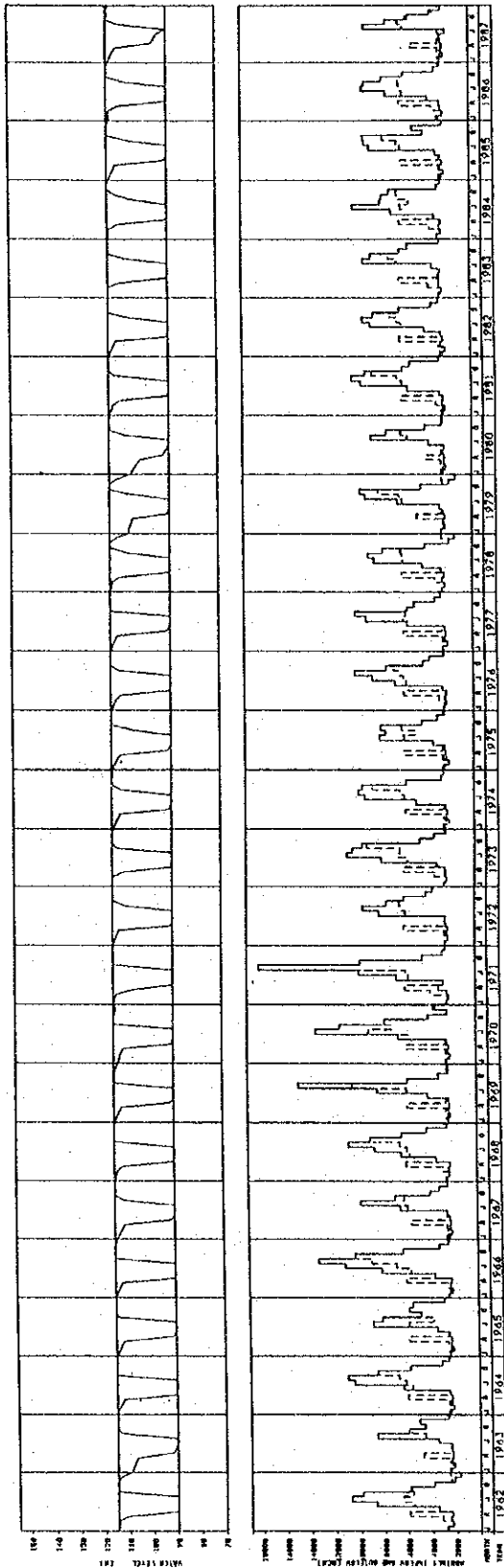
\* MONTHLY PEAK POWER (MW) \*

NO.	YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	1962	872.00	788.24	975.89	1590.48	788.31	1276.01	1276.01	1498.91	1804.50	1202.20	785.38	761.87	13619.79
2	1963	741.39	735.38	728.19	1263.14	587.36	578.36	788.31	1216.16	1791.75	1403.33	1404.14	789.38	12826.86
3	1964	787.75	780.83	771.79	1617.18	577.34	1276.01	1276.01	1668.24	1804.50	1761.80	994.67	787.70	14006.79
4	1965	783.85	777.33	768.59	1570.88	580.87	804.23	1276.01	1012.12	1822.73	1762.96	1723.63	871.44	13454.44
5	1966	786.17	779.89	771.35	1607.88	580.89	1276.01	1276.01	1668.24	1804.50	1804.50	1036.52	785.45	14405.44
6	1967	778.42	770.28	761.12	1489.03	581.71	590.94	1276.01	1668.24	1804.50	1241.00	995.20	788.59	12486.18
7	1968	785.49	782.64	852.18	1588.37	771.78	1376.01	1276.01	1668.24	1804.50	1324.75	789.38	12724.02	
8	1969	784.33	777.59	769.66	1371.93	581.62	647.10	1276.01	1668.24	1804.50	995.48	785.67	779.99	12742.48
9	1970	774.43	769.30	762.39	1346.92	578.74	1276.01	1276.01	1668.24	1804.50	1260.36	785.42	1033.56	13151.84
10	1971	788.16	783.18	1105.36	1333.77	601.11	1276.01	1276.01	1668.24	1804.50	1365.14	873.46	790.50	13866.42
11	1972	786.48	780.68	773.48	1623.22	578.74	575.37	1276.01	1668.24	1804.50	1804.50	1282.99	1079.51	13949.43
12	1973	789.99	789.26	1012.96	1878.03	701.86	1276.01	1276.01	1638.97	1804.50	1405.44	1078.95	787.89	14139.85
13	1974	782.13	775.57	767.27	1551.42	581.88	1103.91	1276.01	1601.38	1804.50	1727.65	872.65	788.43	13832.80
14	1975	784.70	776.70	766.27	1357.21	581.52	783.59	1276.01	1222.57	1804.50	1332.49	955.64	788.11	13219.09
15	1976	783.12	778.20	846.66	1360.63	577.77	1276.01	1276.01	1619.42	1804.50	1284.05	1161.50	789.08	13756.90
16	1977	785.10	779.44	771.78	1366.78	582.99	1243.17	1276.01	1501.97	1721.86	1484.54	996.91	831.13	13561.67
17	1978	787.03	784.30	932.35	1581.14	582.56	957.56	1276.01	1496.66	1804.50	1201.57	781.15	748.37	12933.18
18	1979	725.42	732.45	715.94	1201.00	580.04	622.03	1276.01	1548.71	1804.50	1323.30	778.48	743.26	12041.11
19	1980	714.79	704.90	693.61	988.89	584.69	581.85	803.84	1378.45	1804.50	1200.38	790.44	788.55	11044.68
20	1981	783.74	778.32	885.42	1368.85	589.74	1220.14	1276.01	1623.98	1804.50	1766.37	1606.72	831.98	14735.75
21	1982	786.30	778.04	810.18	1602.25	578.83	892.87	1276.01	1559.16	1804.50	1804.50	1038.11	830.78	15761.51
22	1983	789.30	790.38	1053.41	1886.31	593.76	575.97	707.20	1553.39	1804.50	1804.50	1644.71	788.59	13681.81
23	1984	828.40	786.82	1011.59	1570.35	649.15	1276.01	1276.01	1283.44	1804.50	1804.50	873.36	788.43	13972.53
24	1985	782.00	773.68	766.59	1564.88	580.94	659.62	1276.01	1542.92	1804.50	1201.40	1485.69	786.01	13224.23
25	1986	782.85	782.74	926.16	1561.87	781.82	1276.01	1276.01	1503.92	1804.50	1683.26	913.32	786.60	14077.03
26	1987	780.60	772.94	763.13	1339.59	631.76	620.51	596.00	1422.44	1804.50	1600.15	951.88	785.76	12069.23
27	1988	775.14	764.11	752.01	1288.39	615.80	592.76	1276.01	1522.90	1804.50	1405.35	763.93	713.94	12276.82
28	1989	680.62	674.52	669.43	985.85	612.47	907.48	944.19	645.43	785.20	1271.50	706.47	456.34	9339.49
TOTAL		21809.66	21537.98	23186.02	41675.30	17484.06	27017.69	33187.44	41593.84	49129.67	41479.65	29592.48	22289.85	370164.56
AVE		778.92	769.21	828.07	1489.40	623.99	964.91	1185.27	1485.49	1754.62	1488.56	1056.37	796.07	13220.16
MAX		872.00	790.38	1106.36	1623.22	808.95	1276.01	1276.01	1668.24	1804.50	1804.50	1723.63	1079.51	14735.75
MIN		680.62	674.52	669.43	985.85	577.34	573.37	596.00	645.43	785.20	995.48	706.47	456.34	9339.49

Result of Capacity Duration  
(The Da river system case-2 Hoa Binh - project)

NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P
1	6209	1804.5	61	8304	1586.3	121	8107	1276.0	181	7411	872.7	241	6802	782.6	301	8903	669.4	361	0.0	0.0
2	6409	1804.5	62	7208	1584.0	122	6607	1276.0	182	6301	872.0	242	7401	782.1	302	8405	669.1	362	0.0	0.0
3	6609	1804.5	63	7804	1581.1	123	8507	1276.0	183	6512	871.4	243	8501	782.0	303	8506	659.6	363	0.0	0.0
4	6809	1804.5	64	7304	1578.0	124	6606	1276.0	184	6803	872.2	244	8605	781.8	304	8908	645.4	364	0.0	0.0
5	6809	1804.5	65	6904	1571.0	125	6707	1276.0	185	7603	846.7	245	7811	781.1	305	8705	631.8	365	0.0	0.0
6	6810	1804.5	66	6504	1570.7	126	8406	1276.0	186	8112	832.0	246	6402	780.8	306	7906	622.0	366	0.0	0.0
7	7009	1804.5	67	8404	1570.3	127	8607	1276.0	187	7712	831.1	247	7202	780.7	307	8706	620.5	367	0.0	0.0
8	7109	1804.5	68	8104	1568.9	128	8507	1276.0	188	8212	830.8	248	8701	780.6	308	8805	615.8	368	0.0	0.0
9	7210	1804.5	69	8504	1564.9	129	8806	1276.0	189	8203	810.2	249	6912	780.0	309	8905	612.5	369	0.0	0.0
10	7409	1804.5	70	8604	1561.9	130	8606	1276.0	190	8203	810.2	250	6602	779.9	310	7105	601.1	370	0.0	0.0
11	7509	1804.5	71	7604	1560.6	131	8407	1276.0	191	6505	808.9	251	7702	779.5	311	8707	596.0	371	0.0	0.0
12	7809	1804.5	72	8208	1559.2	132	6306	1276.0	192	6506	804.2	252	6911	778.5	312	8005	594.7	372	0.0	0.0
13	8210	1804.5	73	7504	1557.2	133	6406	1276.0	193	8007	803.6	253	6701	778.4	313	8806	592.8	373	0.0	0.0
14	8410	1804.5	74	8308	1553.4	134	8807	1276.0	194	8011	790.4	254	8102	778.3	314	6706	590.9	374	0.0	0.0
15	6709	1804.5	75	7908	1548.7	135	6907	1276.0	195	8302	790.4	255	7602	778.2	315	8105	589.7	375	0.0	0.0
16	6909	1804.5	76	7004	1546.9	136	6704	1276.0	196	7112	790.2	256	8202	778.0	316	6303	587.4	376	0.0	0.0
17	7209	1804.5	77	8508	1542.9	137	6706	1243.2	197	6301	789.4	257	7502	776.7	317	8303	583.8	377	0.0	0.0
18	7309	1804.5	78	7104	1533.8	138	6710	1241.0	198	6312	789.4	258	6502	776.7	318	7705	583.0	378	0.0	0.0
19	7609	1804.5	79	8808	1522.9	139	6710	1201.6	199	6501	789.3	259	7402	775.6	319	6905	582.6	380	0.0	0.0
20	7909	1804.5	80	8808	1522.9	140	7010	1240.4	200	8301	789.3	260	8801	775.1	320	7805	582.6	381	0.0	0.0
21	8009	1804.5	81	6509	1522.7	141	7508	1222.6	201	7302	789.3	261	7701	774.4	321	7405	581.9	382	0.0	0.0
22	8109	1804.5	82	8608	1502.9	142	8106	1220.1	202	7412	789.1	262	7203	773.7	322	8006	581.9	383	0.0	0.0
23	8209	1804.5	83	7708	1502.0	143	6308	1216.2	203	8012	788.6	263	8502	773.7	323	8006	581.9	384	0.0	0.0
24	8310	1804.5	84	6208	1498.9	144	6210	1202.2	204	8412	788.4	264	7203	772.9	324	7505	581.5	385	0.0	0.0
25	8509	1804.5	85	7808	1496.7	145	8110	1201.6	205	7412	788.4	265	8702	772.9	325	8505	581.0	386	0.0	0.0
26	8509	1804.5	86	6704	1489.0	146	6712	1201.6	206	6712	788.4	266	6403	771.8	326	6505	580.9	387	0.0	0.0
27	8609	1804.5	87	8511	1485.7	147	7904	1201.6	207	8312	788.4	267	7703	771.8	327	7905	580.0	388	0.0	0.0
28	8809	1804.5	88	7710	1484.5	148	8010	1200.4	208	6507	788.3	268	6803	771.4	328	8205	578.8	389	0.0	0.0
29	8309	1804.5	89	8708	1422.4	149	7611	1164.5	209	6505	788.3	269	6603	771.4	329	7005	578.7	390	0.0	0.0
30	8709	1804.5	90	7310	1405.4	150	7403	1108.4	210	6502	788.2	270	6702	770.3	330	7305	578.7	391	0.0	0.0
31	8309	1701.7	91	8810	1405.3	151	7406	1103.9	211	7101	788.1	271	6903	770.0	331	6306	578.4	392	0.0	0.0
32	8110	1766.4	92	6310	1403.3	152	7212	1079.5	212	7312	787.9	272	7002	769.3	332	7605	577.3	393	0.0	0.0
33	6410	1764.8	93	8008	1378.4	153	7311	1078.9	213	7312	787.9	273	6503	768.6	333	6405	577.3	394	0.0	0.0
34	6510	1763.0	94	7110	1365.1	154	8303	1053.4	214	6401	787.7	274	7403	767.3	334	8306	576.0	395	0.0	0.0
35	7410	1737.6	95	8704	1339.6	155	8211	1038.1	215	8412	787.7	275	8503	766.6	335	7206	575.4	396	0.0	0.0
36	6511	1733.6	96	6811	1324.8	156	6614	1036.5	216	7801	787.0	276	7503	766.3	336	8912	456.3	397	0.0	0.0
37	7709	1721.9	97	7910	1323.3	157	7012	1033.6	217	8402	786.8	277	8811	765.9	337	0.0	0.0	0.0	0.0	
38	8608	1688.2	98	8510	1322.5	158	7303	1013.0	218	8412	786.6	278	8802	764.1	338	0.0	0.0	0.0	0.0	
39	6608	1688.2	99	8304	1288.4	159	6508	1012.1	219	7201	786.5	279	8703	763.4	339	0.0	0.0	0.0	0.0	
40	6808	1668.2	100	7610	1284.0	160	8403	1011.3	220	8201	786.3	280	7003	762.4	340	0.0	0.0	0.0	0.0	
41	6908	1668.2	101	8408	1283.4	161	7711	996.9	221	6601	786.2	281	6212	761.1	341	0.0	0.0	0.0	0.0	
42	7008	1668.2	102	7211	1283.0	162	6910	995.5	222	8312	786.0	282	6703	761.1	342	0.0	0.0	0.0	0.0	
43	7108	1668.2	103	7007	1276.0	163	6711	995.2	223	8712	785.8	283	8803	761.0	343	0.0	0.0	0.0	0.0	
44	6408	1668.2	104	6207	1276.0	164	6411	994.7	224	6911	785.7	284	7912	748.4	344	0.0	0.0	0.0	0.0	
45	8311	1644.7	105	6807	1276.0	165	8004	988.9	225	6801	785.5	285	7912	748.4	345	0.0	0.0	0.0	0.0	
46	7308	1639.0	106	7106	1276.0	166	8904	985.9	226	6812	785.4	286	6301	741.4	346	0.0	0.0	0.0	0.0	
47	8108	1634.0	107	7107	1276.0	167	6203	975.6	227	7011	785.4	287	6302	741.4	347	0.0	0.0	0.0	0.0	
48	7204	1623.2	108	6507	1276.0	168	7806	957.6	228	6211	785.4	288	6303	738.2	348	0.0	0.0	0.0	0.0	
49	7608	1619.4	109	7207	1276.0	169	7511	955.4	229	8909	785.2	289	7901	732.4	349	0.0	0.0	0.0	0.0	
50	6404	1617.2	110	7006	1276.0	170	8711	951.9	230	7701	785.1	290	7902	732.4	350	0.0	0.0	0.0	0.0	
51	6709	1608.6	111	7306	1276.0	171	6906	947.1	231	7801	784.7	291	7903	715.9	351	0.0	0.0	0.0	0.0	
52	6604	1607.9	112	7307	1276.0	172	8907	944.2	232	6901	784.3	292	8001	714.8	352	0.0	0.0	0.0	0.0	
53	8111	1606.7	113	7407	1276.0	173	7803	932.3	233	7802	784.3	293	8812	713.9	353	0.0	0.0	0.0	0.0	
54	6311	1604.1	114	7507	1276.0	174	8603	926.2	234	6501	783.9	294	8307	707.2	354	0.0	0.0	0.0	0.0	
55	8204	1602.3	115	7606	1276.0	175	8411	912.3	235	8101	783.7	295	8911	706.5	355	0.0	0.0	0.0	0.0	
56	7408	1601.4	116	7606	1276.0	176	8906	907.5	236	7506	783.6	296	8002	704.9	356	0.0	0.0	0.0	0.0	
57	8710	1600.1	117	7707	1276.0	177	8206	892.9	237	7102	783.5	297	7305	701.9	357	0.0	0.0	0.0	0.0	
58	8204	1590.5	118	7807	1276.0	178	8103	885.4	238	7601	783.1	298	8003	695.6	358	0.0	0.0	0.0	0.0	
59	8604	1588.6	119	7907	1276.0	179	7111	873.5	239	8601	782.8	299	8901	680.6	359	0.0	0.0	0.0	0.0	
60	7704	1586.8	120	6407	1276.0	180	8411	873.4	240	8602	782.7	300	8902	674.5	360	0.0	0.0	0.0	0.0	

Result of Reservoir Operation  
 (The Da river system case-2 Hoa Binh - project)





Result of Monthly Energy Calculation  
(The Da river system case-3 Huoi Quan - project)

\* MONTHLY TOTAL ENERGY (GWH) \*

NO. YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1 1962	150.21	134.05	143.77	140.74	144.05	334.95	517.26	526.57	348.64	210.42	126.05	150.05	2950.37
2 1963	148.84	133.08	145.23	138.45	142.10	362.94	505.15	510.01	189.20	150.92	144.90	147.66	2718.47
3 1964	145.17	133.26	139.66	132.23	135.89	330.19	442.37	374.40	261.72	190.52	290.85	150.56	2167.73
4 1965	149.11	132.08	145.01	138.11	141.53	495.11	523.92	480.07	232.87	270.67	143.95	149.75	3005.20
5 1966	148.06	131.98	143.92	137.22	140.28	425.41	529.17	523.78	203.63	270.51	203.73	150.83	3008.54
6 1967	149.75	133.73	145.86	138.78	139.74	459.99	527.70	529.17	305.59	151.82	145.73	149.41	3230.94
7 1968	147.00	135.48	142.26	135.05	137.74	434.05	526.84	509.17	247.31	150.97	145.15	148.41	3209.44
8 1969	146.40	130.30	141.90	135.47	139.40	482.06	515.17	506.78	263.21	210.35	174.54	150.26	3046.63
9 1970	148.45	132.12	143.74	136.46	130.80	440.93	526.48	526.48	183.37	150.82	145.34	149.00	3260.40
10 1971	147.11	131.11	142.71	135.68	134.05	439.54	511.53	495.51	304.77	151.17	145.73	149.49	3260.40
11 1972	148.03	136.65	143.79	136.97	138.61	451.58	491.51	529.17	334.59	171.09	145.36	148.43	3250.78
12 1973	146.32	130.11	141.38	134.57	136.16	466.60	480.11	480.11	319.84	235.43	146.04	150.14	2644.54
13 1974	148.60	132.62	145.22	139.81	138.16	503.25	525.49	519.62	421.35	285.41	145.63	148.79	3269.47
14 1975	146.56	130.15	141.31	134.06	142.55	468.55	519.49	521.15	504.23	285.41	145.59	148.86	3262.53
15 1976	146.95	135.80	142.22	135.62	141.16	484.00	509.81	500.40	276.42	180.26	146.04	149.93	2856.99
16 1977	148.84	132.87	145.18	138.67	144.70	357.12	508.31	529.17	290.86	145.30	145.76	149.31	2760.95
17 1978	148.07	131.89	143.57	136.93	140.28	350.02	520.75	524.87	189.10	180.40	145.47	148.58	2815.79
18 1979	147.86	132.10	143.98	136.69	141.90	494.77	524.27	524.27	406.69	180.44	145.16	148.02	2920.45
19 1980	146.42	135.02	141.96	134.84	137.54	453.13	499.97	513.26	512.10	181.03	145.16	147.40	2822.23
20 1981	145.57	139.43	140.10	132.62	135.13	456.65	529.17	529.17	319.88	150.70	145.55	147.40	2822.23
21 1982	145.41	136.40	140.59	133.65	138.43	379.00	524.27	517.12	392.42	210.43	160.08	150.53	3021.52
22 1983	148.78	132.64	144.62	137.85	140.88	437.57	477.98	518.55	348.62	180.39	146.18	150.21	2834.27
23 1984	148.45	136.89	144.19	137.11	139.41	435.25	444.29	370.91	450.19	210.54	146.28	150.26	2313.77
24 1985	148.28	131.92	143.45	136.78	137.77	512.10	518.93	390.18	333.95	270.41	145.74	148.93	3078.45
25 1986	146.77	130.49	141.85	134.80	137.58	436.16	523.44	523.44	406.81	150.83	159.68	150.28	2453.21
26 1987	148.45	132.06	143.59	137.35	138.88	487.63	522.85	285.50	247.14	150.95	145.23	148.26	2857.89
27 1988	146.08	134.38	140.79	133.30	134.84	430.29	441.18	236.80	218.26	210.48	145.99	149.63	1822.03
28 1989	147.60	131.37	142.95	135.83	140.46	438.54	439.26	529.17	450.11	153.13	71.03	57.91	2537.53
TOTAL	4133.2	3713.3	4007.8	3815.5	5485.9	8809.7	11969.9	13253.7	9199.5	5300.2	4277.8	4091.0	78057.5
AVE	147.61	132.62	143.14	136.27	195.92	314.63	427.35	473.35	328.55	189.29	152.78	146.11	2787.77
MAX	150.21	136.89	146.77	140.74	144.05	512.10	529.17	529.17	512.10	285.41	290.85	150.83	3387.93
MIN	145.17	139.13	139.66	132.23	135.89	130.19	141.18	236.80	189.10	150.70	71.03	57.91	1922.03

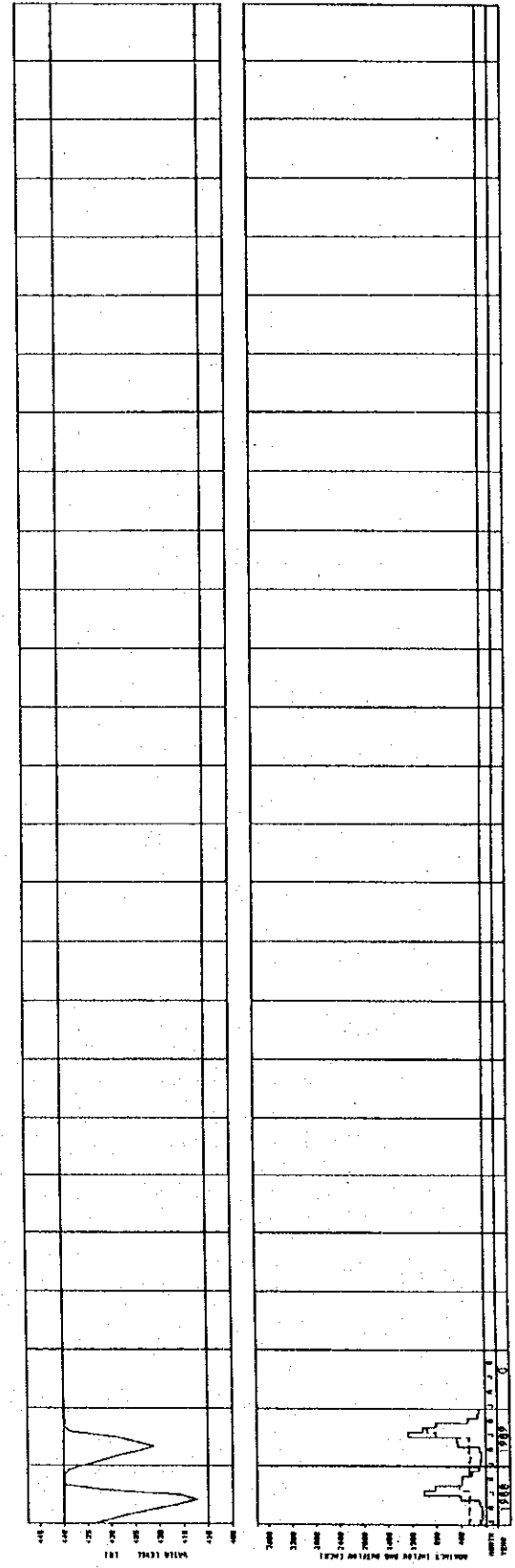
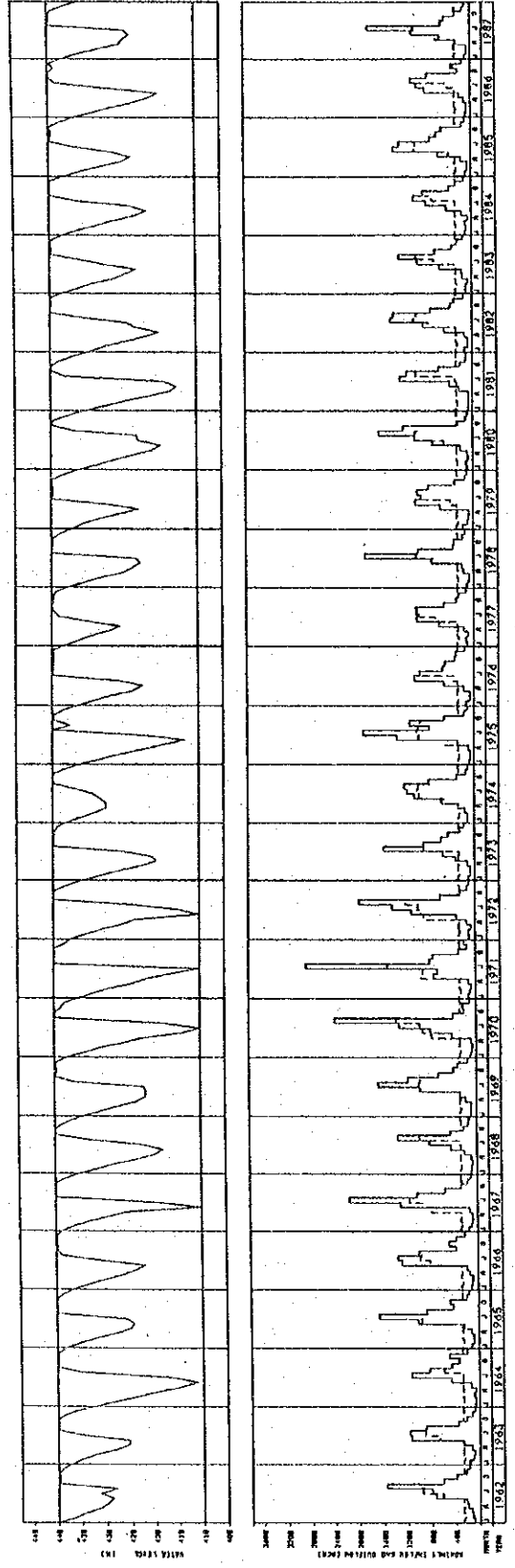
Result of Monthly Capacity  
(The Da river system case-3 Huoi Quan - project)

\* MONTHLY PEAK POWER (MW) \*

NO.	YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	1962	201.90	195.47	197.26	195.48	194.43	465.21	695.24	707.76	684.23	282.83	202.85	201.69	4028.34
2	1963	200.06	198.04	195.20	192.29	190.99	504.08	678.96	685.49	262.78	202.84	201.25	198.67	3710.46
3	1964	195.12	191.46	187.71	183.25	179.96	180.82	191.36	440.05	363.49	202.54	403.96	202.56	2862.48
4	1965	200.50	197.89	194.90	191.89	190.23	687.46	704.19	643.26	323.44	383.80	202.72	201.27	4103.74
5	1966	199.00	196.39	193.44	190.59	188.55	590.84	711.35	704.00	282.83	383.59	282.98	202.73	4106.20
6	1967	201.27	199.00	196.05	192.74	190.09	638.87	709.28	711.25	624.43	203.25	202.41	200.33	4408.96
7	1968	197.58	194.66	191.21	187.56	185.14	186.18	210.83	711.25	343.49	282.92	201.59	199.67	3011.87
8	1969	196.78	193.89	190.72	188.16	185.36	669.53	692.44	699.98	564.46	202.72	242.41	201.97	4250.42
9	1970	199.53	194.60	193.21	189.52	187.85	612.40	637.26	707.64	303.29	203.19	202.40	200.92	4156.12
10	1971	197.72	193.11	191.82	188.44	185.73	610.47	637.54	585.37	564.96	203.19	202.40	200.92	4451.66
11	1972	198.97	196.34	193.26	190.24	187.81	627.20	660.93	711.25	464.71	203.08	201.89	199.50	4429.87
12	1973	196.67	193.62	190.03	186.62	183.70	188.95	627.13	643.30	444.22	343.32	202.83	201.81	3606.22
13	1974	199.73	197.35	195.19	194.18	192.75	698.97	706.30	693.41	585.21	282.43	202.26	199.99	4467.75
14	1975	196.99	193.68	189.94	186.20	183.01	650.77	700.47	700.32	383.50	242.28	222.24	202.27	3356.28
15	1976	197.51	194.69	191.16	188.35	185.73	255.56	685.22	403.76	383.50	242.28	222.24	202.27	3900.97
16	1977	200.06	197.73	195.14	192.60	189.48	496.00	683.22	711.25	403.97	282.18	202.83	201.52	3766.77
17	1978	199.02	196.26	192.97	190.18	188.55	486.13	699.93	703.48	262.64	282.47	202.45	200.68	3766.77
18	1979	198.73	196.57	193.52	189.85	187.72	295.90	665.92	704.66	564.85	282.55	202.05	199.70	3844.10
19	1980	196.80	194.00	190.80	187.27	184.86	351.57	672.00	692.56	711.25	203.00	201.61	198.95	3984.68
20	1981	195.66	192.15	188.31	184.19	181.62	182.42	210.56	711.25	444.27	202.55	200.77	198.12	3091.86
21	1982	195.45	192.55	188.96	185.63	183.32	526.38	704.97	695.05	545.02	282.84	223.33	202.32	4127.54
22	1983	199.97	197.38	194.39	191.46	189.36	191.07	467.72	696.98	484.20	282.84	203.03	201.89	3459.89
23	1984	199.53	196.69	193.81	190.43	187.37	187.85	498.53	498.53	625.27	282.98	203.16	201.97	3161.52
24	1985	199.30	196.31	192.82	189.97	187.82	189.97	193.94	524.43	463.82	383.53	202.41	200.18	4207.26
25	1986	197.27	194.18	190.66	187.23	184.92	189.11	315.23	703.55	565.01	202.73	221.78	201.98	3553.64
26	1987	199.53	196.52	193.00	190.76	188.14	677.26	702.76	383.74	343.25	202.88	201.71	199.28	3905.86
27	1988	196.34	193.08	189.23	185.14	181.24	180.96	189.75	318.28	303.14	282.91	202.76	201.12	2623.96
28	1989	198.58	195.49	192.14	188.65	188.79	192.42	590.40	711.25	625.15	285.82	98.65	77.84	3464.98
	TOTAL	5555.37	5477.08	5386.82	5299.27	5273.49	13235.78	16088.55	17814.17	12777.15	7123.91	5941.37	5498.66	106571.56
	AVE	198.41	195.61	192.39	189.26	185.34	436.99	574.59	636.22	456.33	254.43	212.19	196.38	3806.13
	MAX	201.90	199.47	197.26	195.48	193.73	711.25	711.25	711.25	711.25	383.62	403.96	202.73	4628.53
	MIN	195.12	191.46	187.71	183.65	179.96	180.82	189.75	318.28	262.64	202.55	98.65	77.84	2623.96



Result of Reservoir Operation  
 (The Da river system case-3 Huoi Quan - project)



Result of Monthly Energy Calculation  
 (The Da river system case-3 Son La(S) - project)

\* MONTHLY TOTAL ENERGY (GWH) \*

NO.	YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	1962	594.39	526.88	562.33	515.47	654.90	1347.32	1462.09	1676.11	1015.37	753.57	456.87	384.53	10160.03
2	1963	580.29	500.27	522.88	467.98	434.63	391.09	481.08	1453.71	1016.09	987.61	1134.59	595.09	8565.32
3	1964	584.99	530.57	542.05	495.00	472.21	1092.80	1629.12	1676.11	1621.40	983.19	664.00	594.43	10885.84
4	1965	583.79	511.07	546.44	493.27	476.06	1629.30	1676.11	1676.11	1622.05	1284.75	1190.16	730.00	10533.47
5	1966	590.74	523.07	558.09	512.00	695.14	1227.55	1666.37	1676.11	1622.05	1666.88	708.05	593.83	11780.06
6	1967	582.23	509.67	538.36	491.21	484.35	462.58	1020.20	1676.11	1358.87	858.15	708.21	595.01	9284.84
7	1968	587.78	538.73	537.05	520.65	689.71	1161.26	1574.98	1676.11	1622.05	1403.32	890.09	591.90	11813.60
8	1969	579.87	505.44	530.27	476.10	456.48	586.51	1347.43	1676.11	1305.90	730.84	575.73	585.54	9355.71
9	1970	567.13	491.21	513.14	460.12	475.32	1180.88	1604.66	1676.11	1470.51	795.74	575.02	792.88	10602.71
10	1971	590.73	519.28	552.17	499.58	490.07	1267.32	1590.88	1676.11	1622.05	924.53	582.26	589.78	10904.35
11	1972	571.99	513.03	517.31	465.92	457.37	462.51	1520.27	1666.88	1412.46	1228.18	955.23	861.05	10632.18
12	1973	591.27	520.08	557.10	520.11	531.90	1216.99	1676.11	1676.11	1622.05	983.83	767.99	591.80	11255.14
13	1974	578.68	504.24	529.52	478.03	462.25	695.61	1328.40	1676.11	1622.05	1110.82	577.91	591.41	10355.10
14	1975	578.03	505.95	532.79	486.86	492.25	522.54	1594.20	1403.83	1134.74	861.95	708.56	594.01	9316.80
15	1976	581.89	530.06	546.14	500.98	614.82	1170.06	1432.52	1676.11	1572.70	923.00	770.93	594.82	10914.01
16	1977	584.69	512.26	542.26	497.85	482.99	824.23	1456.28	1676.11	1015.86	1049.08	644.18	589.80	9875.48
17	1978	579.42	509.93	537.67	485.14	489.28	802.62	1307.43	1676.11	1468.58	672.48	411.68	294.45	9534.79
18	1979	563.88	505.42	527.96	472.94	437.94	395.90	896.87	1518.04	1622.05	914.45	436.77	344.49	8636.73
19	1980	542.70	526.48	530.92	475.50	447.80	401.73	480.42	1431.73	1190.88	858.74	572.05	576.71	8055.66
20	1981	555.68	477.70	493.09	435.75	441.95	815.18	1575.74	1676.11	1622.05	1099.51	1131.78	601.27	10935.09
21	1982	591.70	521.92	555.35	512.07	495.41	621.56	1402.88	1676.11	1467.90	1228.37	707.52	593.69	10374.98
22	1983	583.03	510.15	542.19	494.25	470.42	431.57	467.36	1601.14	1622.04	986.99	1248.21	600.60	9557.94
23	1984	592.23	539.52	550.65	501.68	504.44	1034.89	1676.11	1516.22	1569.85	1590.44	577.39	588.34	10941.54
24	1985	570.90	495.27	518.45	466.74	449.92	464.53	1562.45	1676.11	1622.05	858.05	1126.76	594.47	10405.67
25	1986	587.76	514.65	543.43	499.51	509.38	1122.43	1676.11	1676.11	1524.27	1388.37	576.24	590.14	11108.41
26	1987	574.72	500.47	526.19	472.22	439.36	398.17	488.39	1406.36	1462.41	1046.45	832.04	591.57	8738.75
27	1988	577.85	520.70	528.21	477.16	477.33	460.95	1256.76	1659.17	1622.05	839.00	572.11	576.72	9568.19
28	1989	554.54	475.93	494.52	441.66	421.54	436.01	546.04	1108.03	1014.53	861.97	485.83	310.11	7150.71
TOTAL		16202.9	14339.9	14990.5	13615.7	13984.6	21480.9	36930.5	44955.1	39794.7	28239.7	20568.1	16138.8	281240.9
AVE		578.67	512.14	535.37	486.27	499.15	767.17	1318.95	1605.54	1421.24	1008.56	734.58	576.39	10044.32
MAX		594.39	539.52	562.33	520.65	695.14	1347.32	1676.11	1676.11	1622.05	1406.88	1248.21	861.05	11813.60
MIN		542.70	475.93	493.09	435.75	421.54	391.09	467.36	1108.03	951.96	672.48	411.68	294.45	8055.66

Result of Monthly Capacity  
(The Da river system case-3 Son La(S) - project)

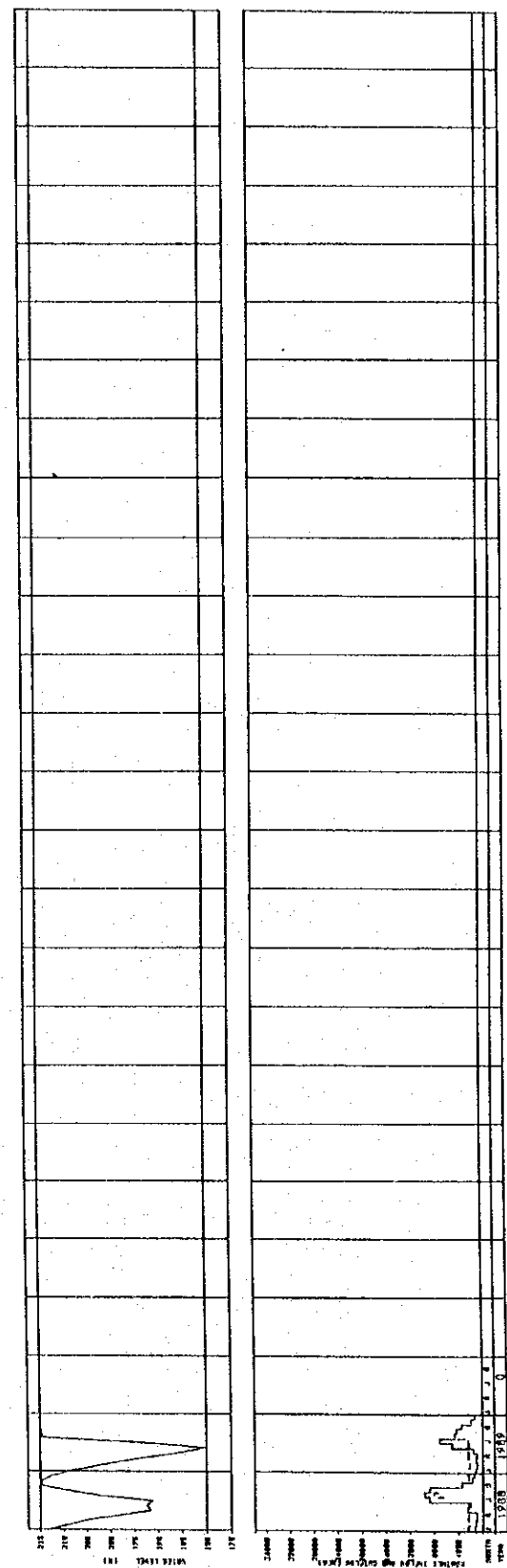
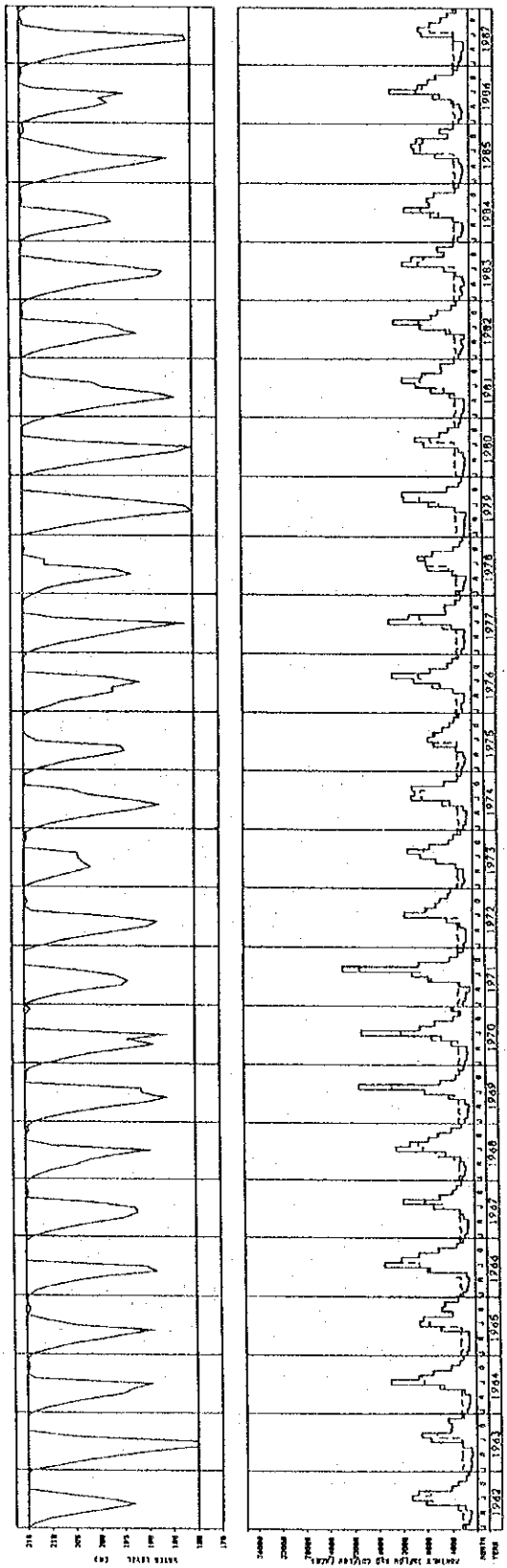
\* MONTHLY PEAK POWER (MW) \*

NO.	YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	1962	796.92	784.05	755.81	716.21	893.68	1871.28	2234.00	2252.84	1410.24	1032.87	634.54	516.84	13881.27
2	1963	779.96	744.45	702.60	649.97	584.18	543.17	644.42	1953.91	1411.23	1327.44	1575.83	799.86	11719.42
3	1964	786.28	762.31	728.57	687.49	681.57	1517.77	2109.88	2252.84	2251.94	1331.49	894.45	798.94	14853.34
4	1965	784.66	760.51	726.19	685.10	639.87	675.78	2403.04	2252.84	2252.84	1726.82	1653.00	981.19	14371.36
5	1966	794.00	778.38	750.11	711.11	934.33	1704.93	2240.01	2252.84	2252.84	1870.97	983.40	798.17	16091.08
6	1967	782.56	758.43	723.60	682.23	651.00	642.47	1371.13	2252.84	1887.32	1173.42	983.42	799.57	12698.36
7	1968	790.02	774.04	748.72	723.12	927.03	1612.86	2116.91	2252.84	2252.84	1866.18	1256.23	795.57	16116.36
8	1969	779.40	752.14	712.73	661.25	613.15	814.32	1811.06	2252.84	1813.75	982.31	799.62	787.02	12779.58
9	1970	762.27	730.97	689.70	639.06	638.88	1640.11	2136.80	2252.84	2042.38	1089.54	798.64	1065.70	14686.87
10	1971	793.99	772.74	742.17	693.87	638.70	1760.11	2138.28	2252.84	2252.84	1242.78	808.70	792.71	14909.76
11	1972	748.81	737.11	695.31	647.11	614.74	642.37	2043.38	2240.43	1961.75	1650.78	1326.70	1157.33	14485.80
12	1973	794.72	773.93	748.79	722.38	714.92	1690.26	2252.84	2252.84	2252.84	1322.09	1066.65	795.43	15387.70
13	1974	777.79	750.35	711.71	663.93	621.43	966.13	2054.30	2252.84	2252.84	1433.04	802.65	794.91	14141.92
14	1975	776.93	752.90	716.11	676.19	661.95	725.73	2008.33	1888.88	1576.02	1137.33	984.11	798.40	13720.57
15	1976	782.10	741.58	734.05	695.80	626.37	1625.08	1925.43	2252.84	2184.31	1240.59	1070.74	799.49	14698.39
16	1977	785.88	762.30	728.84	691.45	649.04	1144.77	2160.52	2252.84	1410.92	1410.05	894.69	792.74	13480.88
17	1978	778.79	758.83	722.68	673.81	657.04	549.86	1957.37	2252.84	2039.70	903.87	571.78	395.77	13030.96
18	1979	757.90	732.11	709.63	654.87	588.43	537.96	1305.47	2040.41	2252.84	1239.10	606.63	463.03	11812.46
19	1980	729.43	716.43	713.61	660.42	601.89	537.96	845.72	1941.25	1653.99	1154.35	794.52	775.15	10994.56
20	1981	746.89	710.86	662.75	605.21	593.08	1132.19	2117.93	2252.84	2252.84	1491.58	1571.92	808.16	14945.94
21	1982	795.30	776.67	746.44	711.21	666.13	883.00	1885.60	2252.84	2038.75	1651.71	981.67	797.96	24168.28
22	1983	783.64	759.15	728.76	686.45	632.28	593.40	628.17	2172.07	2252.84	1326.60	1733.63	807.26	13090.24
23	1984	796.00	775.17	749.12	696.50	678.01	1437.34	2252.84	2037.93	2180.35	1734.46	801.93	790.77	14921.43
24	1985	767.34	737.01	694.81	648.24	604.73	645.18	2100.07	2252.84	2252.84	1153.29	1564.95	799.02	14222.33
25	1986	790.00	765.85	730.42	693.77	684.85	1558.93	2252.84	2252.84	2117.05	1731.68	800.34	793.20	15171.56
26	1987	772.48	744.75	707.25	653.86	590.84	553.02	656.44	1890.27	2031.12	1406.52	1155.61	795.66	11959.50
27	1988	776.68	748.13	709.96	662.72	641.84	640.21	1489.19	2250.07	2252.84	1427.69	794.60	775.16	15649.08
28	1989	745.35	708.23	684.67	613.41	566.59	603.57	733.92	1489.29	1409.07	1158.57	674.77	416.82	9786.26
TOTAL		21778.06	21149.36	20148.48	18910.72	18796.50	29834.61	49637.84	60425.61	59270.44	37956.68	28566.84	21692.01	384164.69
AVE		777.79	755.33	719.59	675.38	671.30	1065.52	1772.78	2157.99	1973.94	1355.60	1030.24	774.71	13720.16
MAX		798.92	784.05	755.81	723.12	934.33	1871.28	2252.84	2252.84	2252.84	1890.97	1733.63	1157.33	16116.36
MIN		729.43	708.23	662.75	605.21	566.59	543.17	628.17	1489.29	1322.17	903.87	571.78	395.77	9786.26

Result of Capacity Duration  
(The Da river system case-3 Son La(S) - project)

NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	
1	6708	2352.8	61	8008	1951.3	121	8510	1153.3	181	8912	787.0	241	8303	728.8	301	8007	645.7	361	8007	645.7	0.0
2	7409	2352.8	62	7706	1174.8	122	8106	1144.8	182	8401	786.3	242	6403	728.6	302	8506	645.2	362	8506	645.2	0.0
3	7909	2352.8	63	6610	1891.0	123	8106	1132.2	183	7701	785.9	243	6503	726.4	303	6706	642.3	363	6706	642.3	0.0
4	8509	2352.8	64	8708	1890.3	124	8810	1127.7	184	6501	784.7	244	7506	725.7	304	7206	642.4	364	7206	642.4	0.0
5	6408	2352.8	65	6709	1887.3	125	7806	1114.8	185	8202	784.0	245	6703	723.6	305	8805	641.8	365	8805	641.8	0.0
6	6608	2352.8	66	7508	1886.9	126	7611	1070.7	186	8701	783.6	246	6804	723.1	306	8806	640.2	366	8806	640.2	0.0
7	6609	2352.8	67	6810	1886.2	127	7010	1069.5	187	6701	782.1	247	7803	722.7	307	6503	639.9	367	6503	639.9	0.0
8	6809	2352.8	68	8207	1885.5	128	7311	1066.7	188	7601	782.0	248	6204	722.4	308	7004	639.1	368	7004	639.1	0.0
9	6908	2352.8	69	8206	1871.3	129	7012	1065.7	189	6301	780.0	249	6204	716.2	309	7005	638.9	369	7005	638.9	0.0
10	7109	2352.8	70	6907	1813.7	130	6210	1012.9	190	6901	779.4	250	7503	714.9	310	6211	634.5	370	6211	634.5	0.0
11	7109	2352.8	71	6907	1811.1	131	7311	984.4	191	7801	778.8	251	7305	714.9	311	8305	632.3	371	8305	632.3	0.0
12	7308	2352.8	72	7106	1760.2	132	6711	983.6	192	6602	778.4	252	6003	713.6	312	8307	628.2	372	8307	628.2	0.0
13	7309	2352.8	73	8410	1734.5	133	6811	983.4	193	7401	777.8	253	6903	712.7	313	7403	621.4	373	7403	621.4	0.0
14	8109	2352.8	74	8311	1733.6	134	8311	982.7	194	7501	776.9	254	7403	711.7	314	7205	614.7	374	7205	614.7	0.0
15	8608	2352.8	75	8610	1731.7	135	6810	982.3	195	8901	776.7	255	8204	711.2	315	8904	613.4	375	8904	613.4	0.0
16	8608	2352.8	76	6510	1726.8	136	6512	981.2	196	8802	776.7	256	6604	711.1	316	6905	613.1	376	6905	613.1	0.0
17	8809	2352.8	77	6606	1704.9	137	7406	966.1	197	8402	775.2	257	8102	710.9	317	7911	606.6	377	7911	606.6	0.0
18	8508	2352.8	78	7306	1690.3	138	6605	934.3	198	8812	775.2	258	8803	710.0	318	8906	605.6	378	8906	605.6	0.0
19	8808	2352.8	79	8807	1689.2	139	6805	927.0	199	8012	775.2	259	7903	709.6	319	8104	605.2	379	8104	605.2	0.0
20	8208	2352.8	80	8009	1684.0	140	7810	903.9	200	6802	774.0	260	8902	708.2	320	8505	604.7	380	8505	604.7	0.0
21	7307	2352.8	81	6511	1653.0	141	7711	894.7	201	7302	773.9	261	8703	707.2	321	8005	601.9	381	8005	601.9	0.0
22	7408	2352.8	82	8210	1651.7	142	6411	894.4	202	7102	772.7	262	6303	702.8	322	8306	599.4	382	8306	599.4	0.0
23	7608	2352.8	83	7210	1650.8	143	6205	893.7	203	8701	772.5	263	8503	696.8	323	8105	593.1	383	8105	593.1	0.0
24	7708	2352.8	84	7006	1640.1	144	8206	863.0	204	7201	768.8	264	8404	696.5	324	7905	588.6	384	7905	588.6	0.0
25	8208	2352.8	85	7606	1625.1	145	7805	826.4	205	8301	767.3	265	7604	695.8	325	6305	584.2	385	6305	584.2	0.0
26	8208	2352.8	86	6806	1612.9	146	6906	814.3	206	8402	765.3	266	7204	693.9	326	7811	571.8	386	7811	571.8	0.0
27	8309	2352.8	87	7509	1576.0	147	7111	808.2	207	8402	765.3	267	7104	693.8	327	8905	566.6	387	8905	566.6	0.0
28	8409	2352.8	88	6311	1575.8	148	8112	808.2	208	7702	762.3	268	8604	693.8	328	8006	558.0	388	8006	558.0	0.0
29	8508	2352.8	89	8111	1571.9	149	8312	808.2	209	7001	762.3	269	7704	691.5	329	8006	553.0	389	8006	553.0	0.0
30	7808	2352.8	90	8511	1564.9	150	7411	802.6	210	7402	761.6	270	7003	689.7	330	8706	549.9	391	8706	549.9	0.0
31	7108	2352.8	91	8606	1558.9	151	8411	801.9	211	6502	760.5	271	6404	687.5	331	7906	543.2	392	7906	543.2	0.0
32	6409	2352.8	92	6406	1517.8	152	8611	800.3	212	8502	759.2	272	8304	686.5	332	6212	516.8	393	6212	516.8	0.0
33	7208	2352.8	93	7410	1493.0	153	6312	799.9	213	7802	758.8	273	6504	685.1	333	6212	516.8	394	6212	516.8	0.0
34	6607	2352.8	94	8110	1491.3	154	6712	799.7	214	6702	758.4	274	8605	684.6	334	8912	416.8	395	8912	416.8	0.0
35	8207	2352.8	95	8908	1489.3	155	6911	799.6	215	7001	757.9	275	6704	682.2	335	7812	395.8	396	7812	395.8	0.0
36	8808	2352.8	96	8406	1437.3	156	7612	799.5	216	8002	756.4	276	8405	678.0	336	7912	395.8	397	7912	395.8	0.0
37	6407	2352.8	97	6509	1411.2	157	8512	799.0	217	6503	755.8	277	7504	676.2	337	8006	397.0	398	8006	397.0	0.0
38	7609	2352.8	98	7709	1410.9	158	6412	799.0	218	7502	752.9	278	8506	675.8	338	8006	397.0	399	8006	397.0	0.0
39	8409	2352.8	99	6209	1410.2	159	6201	798.6	219	6902	752.1	279	8911	674.8	339	8006	397.0	400	8006	397.0	0.0
40	8507	2352.8	100	7710	1410.1	160	7011	798.6	220	7902	752.1	280	7804	673.8	340	8006	397.0	401	8006	397.0	0.0
41	7807	2352.8	101	8909	1409.1	161	7512	798.4	221	7402	750.4	281	8205	666.1	341	8006	397.0	402	8006	397.0	0.0
42	7007	2352.8	102	8710	1404.5	162	6612	798.2	222	6403	750.1	282	8903	664.7	342	8006	397.0	403	8006	397.0	0.0
43	8308	2352.8	103	6707	1371.1	163	8212	798.0	223	7303	748.8	283	7404	663.9	343	8006	397.0	404	8006	397.0	0.0
44	8107	2352.8	104	6310	1327.4	164	8401	796.0	224	8803	748.7	284	8103	662.8	344	8006	397.0	405	8006	397.0	0.0
45	8107	2352.8	105	7211	1326.7	165	8712	795.7	225	8802	748.1	285	7505	662.7	345	8006	397.0	406	8006	397.0	0.0
46	8509	2352.8	106	8310	1326.6	166	6812	795.4	226	8101	746.9	286	6405	661.6	346	8006	397.0	407	8006	397.0	0.0
47	8507	2352.8	107	6509	1326.2	167	7312	795.4	227	8203	746.4	287	7405	661.6	347	8006	397.0	408	8006	397.0	0.0
48	8507	2352.8	108	7310	1322.1	168	8201	795.3	228	8901	745.3	288	8904	661.3	348	8006	397.0	409	8006	397.0	0.0
49	7407	2054.3	109	6410	1321.5	169	7412	794.9	229	8202	744.7	289	8004	660.4	349	8006	397.0	410	8006	397.0	0.0
50	7207	2054.3	110	7110	1242.8	170	7301	794.7	230	8302	744.5	290	7105	658.7	350	8006	397.0	411	8006	397.0	0.0
51	7609	2042.4	111	7410	1240.6	171	8811	794.6	231	7403	742.2	291	7805	657.6	351	8006	397.0	412	8006	397.0	0.0
52	7808	2040.4	112	6811	1236.2	172	8011	794.5	232	7904	742.2	292	7904	656.9	352	8006	397.0	413	8006	397.0	0.0
53	8209	2039.7	113	7910	1239.1	173	6601	794.0	233	7302	737.1	293	8707	656.4	353	8006	397.0	414	8006	397.0	0.0
54	8209	2038.7	114	7907	1205.5	174	7101	794.0	234	8502	737.0	294	8704	655.9	354	8006	397.0	415	8006	397.0	0.0
55	8408	2037.9	115	8910	1188.6	175	8612	793.2	235	7603	736.1	295	6705	651.0	355	8006	397.0	416	8006	397.0	0.0
56	8709	2031.1	116	8910	1188.6	176	8612	793.2	236	8907	735.9	296	6304	651.0	356	8006	397.0	417	8006	397.0	0.0
57	7307	2008.3	117	7510	1157.3	177	7112	792.7	237	7002	731.0	297	7705	649.0	357	8006	397.0	418	8006	397.0	0.0
58	7509	1961.7	118	8711	1155.6	178	8412	790.8	238	8403	730.4	298	8504	648.2	358	8006	397.0	419	8006	397.0	0.0
59	7707	1957.4	119	8710	1154.2	179	8801	790.0	239	8001	729.4	299	7204	647.1	359	8006	397.0	420	8006	397.0	0.0
60	6108	1953.9	120	6710	1153.4	180	8601	790.0	240	7703	728.8	300	6307	644.6	360	8006	397.0	420	8006	397.0	

Result of Reservoir Operation  
 (The Da river system case-3 Son La(S) - project)





Result of Monthly Energy Calculation  
(The Da river system case-3 Hoa Binh - project)

NO.	YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	1962	679.07	582.39	781.72	1326.11	586.50	918.72	949.35	1015.36	1299.24	894.59	589.40	589.98	9982.42
2	1963	574.28	514.47	563.99	919.53	450.09	434.61	583.87	701.06	1299.24	1073.67	1183.84	619.23	8923.90
3	1964	612.31	567.79	632.13	1133.76	447.87	918.72	949.35	1227.94	1299.24	1313.01	716.16	611.79	10452.07
4	1965	608.79	545.30	596.94	1151.27	451.05	533.95	949.35	727.49	1098.77	1374.49	1243.66	711.00	9932.06
5	1966	611.84	548.28	632.63	1152.62	601.86	918.72	949.35	1241.17	1299.24	1342.55	718.06	612.31	10428.61
6	1967	608.96	523.53	593.57	1109.61	453.48	443.56	977.64	1193.22	1299.24	950.43	684.95	612.70	9422.09
7	1968	610.45	569.01	684.03	1161.93	571.20	918.72	949.35	1216.64	1299.24	1342.55	953.82	613.10	10873.02
8	1969	609.17	545.48	598.00	1151.59	452.41	555.25	949.35	1241.17	1299.24	740.64	590.34	605.79	9338.61
9	1970	601.47	539.67	592.11	1136.22	448.96	918.72	949.35	1223.45	1299.24	928.83	590.34	797.49	10021.83
10	1971	609.32	546.93	847.06	1098.39	465.90	918.72	949.35	1241.17	1299.24	1013.32	657.72	612.49	10361.60
11	1972	609.60	585.98	631.58	1144.97	449.39	432.37	949.35	1163.34	1299.24	1342.55	950.65	860.49	10399.51
12	1973	611.43	551.74	806.65	1105.95	519.53	918.72	949.35	1225.97	1299.24	1045.65	776.84	611.94	10423.00
13	1974	607.46	544.07	595.91	1137.44	451.84	711.99	949.35	1194.03	1299.24	1285.37	657.66	611.74	10046.09
14	1975	608.83	544.27	594.47	1136.92	451.55	582.02	949.35	890.74	1298.20	984.43	747.12	611.46	9399.57
15	1976	607.54	564.76	658.51	1134.17	474.34	918.72	949.35	1178.62	1299.24	955.32	836.28	612.86	10189.70
16	1977	609.77	546.79	599.42	1162.96	459.70	854.55	949.35	1044.62	1268.78	1101.28	715.80	618.23	9922.23
17	1978	612.70	551.49	752.13	1134.85	452.12	647.50	949.35	1133.62	1299.24	863.92	586.79	579.27	9364.98
18	1979	558.68	501.18	549.58	843.04	450.40	465.91	949.35	1150.30	1299.24	984.91	585.82	579.19	8905.58
19	1980	556.43	511.81	538.33	730.07	461.79	437.24	816.31	831.95	1299.24	894.59	599.12	612.40	8090.26
20	1981	608.65	545.94	687.94	1144.47	457.46	796.87	949.35	1211.04	1299.24	1314.18	1214.64	649.74	10882.31
21	1982	610.75	545.85	659.86	1139.63	449.47	600.66	949.35	1153.53	1299.24	1342.55	747.44	648.45	10166.76
22	1983	612.40	533.90	838.72	1118.80	449.55	436.10	448.74	1151.67	1299.24	1284.50	1241.23	612.10	10046.94
23	1984	617.72	574.52	813.10	1139.14	516.44	918.72	949.35	906.13	1299.24	1342.55	657.70	610.28	10345.38
24	1985	606.21	541.70	594.22	1136.39	452.10	432.85	949.35	1143.61	1299.24	934.46	1069.62	610.48	9790.21
25	1986	608.01	549.10	745.17	1110.30	534.99	918.72	949.35	1097.12	1299.24	1313.10	598.60	612.33	10355.82
26	1987	607.75	543.57	594.20	996.68	490.58	466.30	442.80	907.94	1299.24	1130.98	744.34	610.28	8954.64
27	1988	602.02	555.17	584.06	948.65	478.18	445.44	949.35	1128.81	1299.24	1015.86	576.26	535.12	9138.14
28	1989	529.26	473.77	520.59	732.91	474.34	671.02	568.32	499.26	554.24	894.58	508.65	339.52	6767.06
	TOTAL	16908.8	15237.4	18266.6	30162.3	13404.1	19135.4	24480.1	30051.9	35401.7	30960.8	21742.6	17332.7	273084.1
	AVE	603.89	544.19	652.38	1077.23	478.72	683.41	874.29	1073.28	1264.35	1105.74	776.52	619.03	9753.00
	MAX	679.07	574.52	847.06	1162.96	601.86	918.72	949.35	1241.17	1299.24	1342.55	1243.66	860.49	10882.31
	MIN	529.26	473.77	520.59	730.07	447.87	432.37	448.74	499.26	554.24	740.64	508.65	339.52	6767.06

Result of Monthly Capacity  
(The Da river system case-3 Hoa Binh - project)

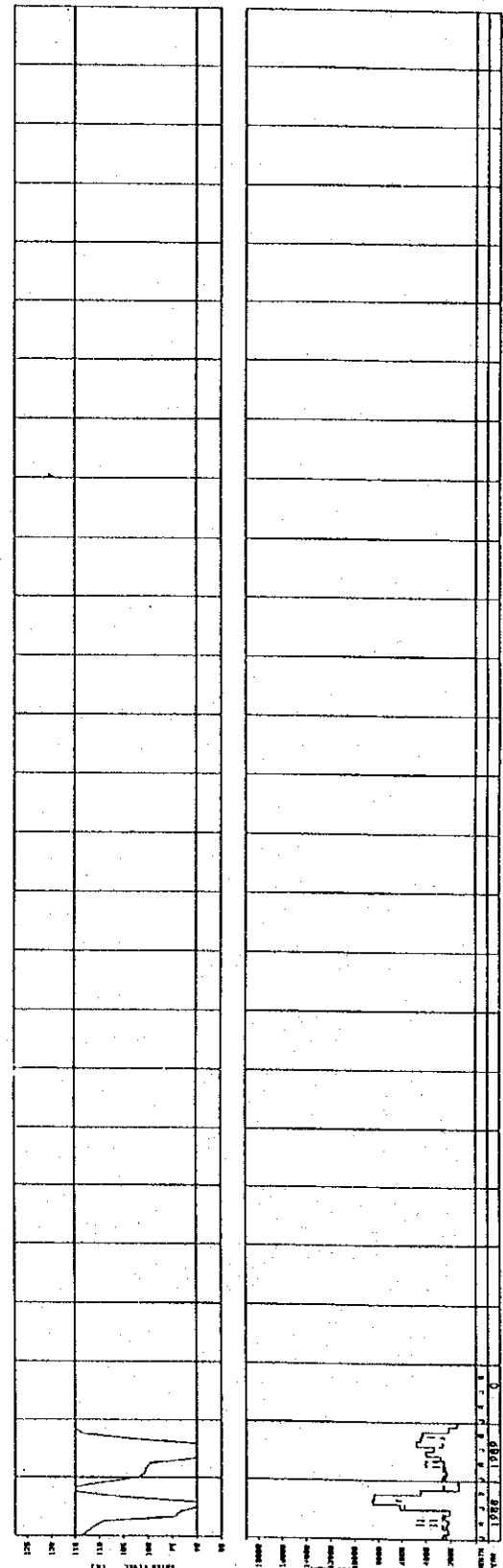
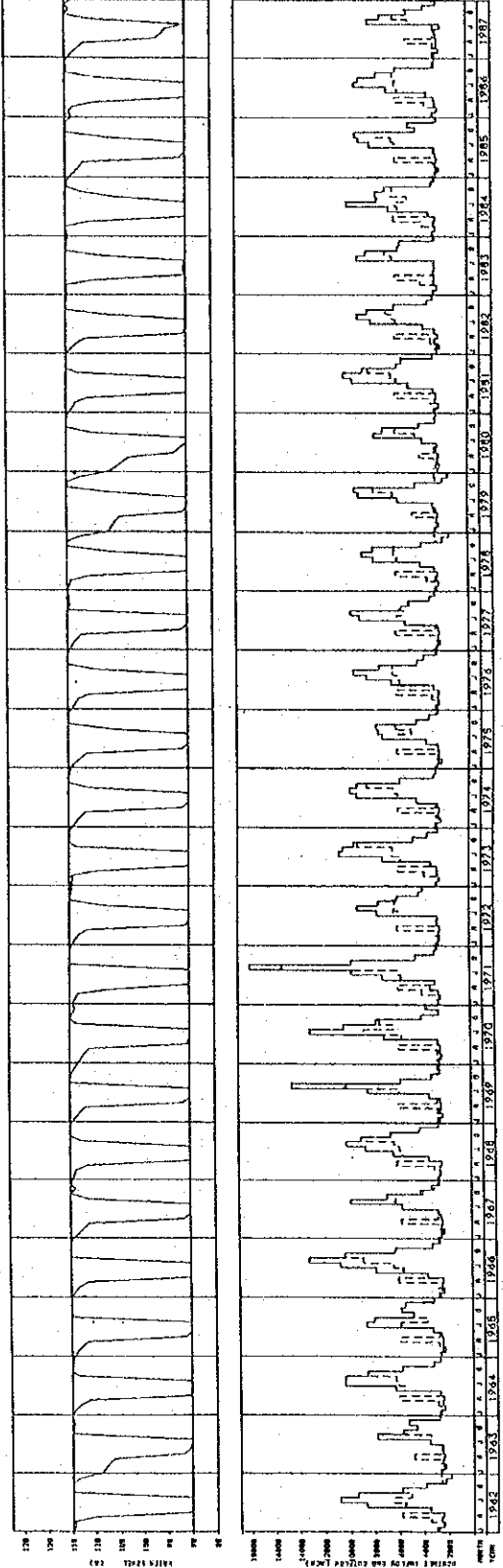
\* MONTHLY PEAK POWER (MW) \*

NO. YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1 1962	912.73	823.01	1050.70	1564.04	788.31	1276.01	1276.01	1354.73	1804.50	1202.40	818.61	792.98	13673.02
2 1963	771.88	763.58	758.04	1277.13	613.03	603.63	784.77	942.31	1804.50	1443.11	1644.22	832.30	12460.50
3 1964	822.99	813.79	849.64	1405.23	601.98	1276.01	1276.01	1650.46	1804.50	1784.80	994.67	822.89	14284.36
4 1965	818.27	811.46	802.34	1598.98	604.25	1276.01	1276.01	977.81	1526.07	1746.79	1727.31	955.63	13608.53
5 1966	822.36	815.89	850.30	1400.87	608.95	1276.01	1276.01	1668.24	1804.50	1804.50	997.31	822.99	14547.90
6 1967	813.81	807.34	797.81	1341.13	608.18	616.06	1276.01	1610.51	1804.50	1277.46	951.32	823.52	12900.71
7 1968	820.50	817.54	892.51	1613.80	771.78	1276.01	1276.01	1633.26	1804.50	1804.50	1324.75	824.06	14861.18
8 1969	818.78	811.73	803.78	1599.44	608.08	771.18	1276.01	1668.24	1804.50	1240.36	819.92	814.23	12791.59
9 1970	808.43	803.08	795.85	1578.08	603.44	1276.01	1276.01	1647.09	1804.50	1364.68	913.50	823.24	14049.30
10 1971	818.93	813.88	1138.52	1525.55	624.21	1276.01	1276.01	1668.24	1804.50	1804.50	1320.35	1156.57	14201.77
11 1972	819.35	813.20	848.90	1590.24	604.02	600.51	1276.01	1563.63	1804.50	1485.44	1078.95	822.50	14722.59
12 1973	821.82	821.05	1084.20	1536.04	698.29	1276.01	1276.01	1647.81	1804.50	1485.44	1078.95	822.50	14722.59
13 1974	816.48	809.62	800.96	1579.77	607.31	988.88	1276.01	1601.88	1804.50	1727.65	913.42	822.23	13751.70
14 1975	818.32	809.93	799.03	1579.06	606.93	808.36	1276.01	1197.23	1803.06	1283.15	1037.67	821.86	12880.59
15 1976	816.58	811.44	885.09	1575.24	637.55	1276.01	1276.01	1584.17	1804.50	1284.03	1161.50	823.74	13935.85
16 1977	819.59	813.68	805.67	1615.22	608.44	1186.88	1276.01	1401.37	1742.20	1480.22	994.16	830.95	13594.39
17 1978	823.52	820.67	1010.93	1576.18	607.69	899.30	1276.01	1524.38	1804.50	1161.19	814.99	778.59	13099.93
18 1979	750.92	745.81	738.68	1173.67	605.38	647.10	1257.17	1546.10	1804.50	1323.80	813.63	778.49	12185.24
19 1980	747.89	735.36	723.57	1013.99	620.68	607.28	828.37	1119.55	1804.50	1202.40	832.11	823.11	11058.80
20 1981	818.07	812.42	924.64	1589.54	614.86	1106.77	1276.01	1631.78	1804.50	1746.37	1686.72	873.31	14904.99
21 1982	820.90	812.27	886.92	1582.82	604.12	834.25	1276.01	1550.45	1804.50	1804.50	1038.11	871.57	13886.39
22 1983	823.12	824.25	1127.31	1553.90	604.23	603.70	603.15	1517.95	1804.50	1726.47	1723.93	822.72	13767.21
23 1984	830.27	825.47	1092.88	1582.14	604.13	1276.01	1276.01	1217.91	1804.50	1804.50	913.47	821.61	14138.88
24 1985	814.80	806.10	798.69	1578.32	607.67	601.18	1276.01	1537.11	1804.50	1282.87	1483.58	820.54	13413.35
25 1986	817.22	817.11	1001.57	1542.09	719.08	1276.01	1276.01	1474.62	1804.50	1784.92	831.10	823.03	14147.24
26 1987	816.84	808.88	798.66	1384.27	659.38	647.63	622.03	1220.35	1804.50	1520.14	1033.81	820.27	12136.79
27 1988	809.17	787.66	783.02	1317.57	642.72	618.66	1276.01	1517.32	1804.50	1305.40	800.36	746.13	12480.39
28 1989	711.38	705.01	699.72	1017.93	637.55	931.97	764.68	671.03	769.78	1202.39	706.46	456.34	9274.25
TOTAL	22726.96	22474.19	24551.89	41892.18	18016.23	24576.96	32903.37	40392.39	48169.05	41614.00	30198.07	23896.68	373811.31
AVE	811.68	802.65	876.85	1496.15	643.44	949.18	1175.12	1442.59	1756.04	1486.21	1078.50	832.02	13350.40
MAX	912.73	825.47	1138.52	1615.22	808.95	1276.01	1276.01	1648.24	1804.50	1804.50	1727.31	1156.57	14904.99
MIN	711.38	705.01	699.72	1013.99	601.98	600.51	603.15	671.03	769.78	995.48	706.46	456.34	9274.25

Result of Capacity Duration  
(The Da river system case-3 Hoa Binh - project)

NO.	DATE	P	NO. DATE	P	NO. DATE	P	NO. DATE	P	NO. DATE	P	NO. DATE	P	NO. DATE	P	NO. DATE	P	NO. DATE	P	
1	6209	1804.5	61	8204	1582.8	121	7807	1276.0	181	8203	885.9	241	7811	815.0	301	8405	694.1	361	0.0
2	6309	1804.5	62	8404	1582.8	122	8007	1276.0	182	7603	885.1	242	8501	814.8	302	8908	671.0	362	0.0
3	6409	1804.5	63	7404	1579.8	123	8107	1276.0	183	8112	871.3	243	6912	814.2	303	8705	659.4	363	0.0
4	6609	1804.5	64	7504	1579.1	124	8207	1276.0	184	8212	871.6	244	7102	813.9	304	8706	647.6	364	0.0
5	6610	1804.5	65	8504	1578.3	125	8407	1276.0	185	6603	850.5	245	7702	813.7	305	7906	647.1	365	0.0
6	6810	1804.5	66	7004	1578.1	126	8407	1276.0	186	6403	849.6	246	7911	813.6	306	8805	642.7	366	0.0
7	7009	1804.5	67	7804	1576.2	127	8507	1276.0	187	7203	848.9	247	7202	813.2	307	7605	637.6	367	0.0
8	7109	1804.5	68	7404	1575.2	128	8606	1276.0	188	8206	832.6	248	8102	812.4	308	8905	637.6	368	0.0
9	7210	1804.5	69	6204	1564.0	129	8607	1276.0	189	6311	832.1	249	8202	812.3	309	7105	626.2	369	0.0
10	7609	1804.5	70	7308	1563.6	130	6206	1276.0	190	6012	832.1	250	6902	811.7	310	8707	622.0	370	0.0
11	7909	1804.5	71	8104	1553.9	131	8907	1276.0	191	8611	831.1	251	6502	811.5	311	8005	620.7	371	0.0
12	8109	1804.5	72	8208	1550.4	132	7006	1276.0	192	7712	831.0	252	7602	811.4	312	8606	618.7	372	0.0
13	8210	1804.5	73	8308	1548.0	133	6907	1276.0	193	8401	830.3	253	7502	809.9	313	8706	618.1	373	0.0
14	8410	1804.5	74	7908	1546.1	134	7907	1276.0	194	8007	828.4	254	7402	809.6	314	8105	614.9	374	0.0
15	8509	1804.5	75	8504	1542.1	135	6707	1276.0	195	8402	825.5	255	8801	809.2	315	6305	613.0	375	0.0
16	8809	1804.5	76	6704	1541.1	136	7010	1280.4	196	8302	824.3	256	6605	808.9	316	7705	608.5	376	0.0
17	8909	1804.5	77	8508	1537.1	137	8708	1280.3	197	6812	824.1	257	8702	808.9	317	6705	608.2	377	0.0
18	9009	1804.5	78	7304	1536.0	138	8408	1217.9	198	7612	823.7	258	7001	808.4	318	6905	608.1	378	0.0
19	9209	1804.5	79	7808	1526.4	139	6210	1202.4	199	6712	823.5	259	7506	808.4	319	7805	607.7	379	0.0
20	9309	1804.5	80	6509	1526.1	140	8010	1202.4	200	7801	823.5	260	6702	807.3	320	8505	607.7	380	0.0
21	7409	1804.5	81	7404	1525.5	141	8910	1202.4	201	7112	823.2	261	8502	807.1	321	7405	607.3	381	0.0
22	7809	1804.5	82	8710	1520.1	142	7508	1197.2	202	8301	823.1	262	7703	805.7	322	8006	607.3	382	0.0
23	8009	1804.5	83	8808	1517.2	143	7706	1186.9	203	8012	823.1	263	6903	803.8	323	7505	606.9	383	0.0
24	8209	1804.5	84	8511	1485.6	144	7904	1173.7	204	8312	823.0	264	7002	803.1	324	6505	606.3	384	0.0
25	8309	1804.5	85	7710	1480.2	145	7411	1171.5	205	6601	823.0	265	6503	802.3	325	8306	605.7	385	0.0
26	8409	1804.5	86	8508	1474.8	146	7810	1161.2	206	6612	823.0	266	7403	801.0	326	7505	605.4	386	0.0
27	8609	1804.5	87	6310	1442.1	147	7212	1156.6	207	8312	822.7	267	8811	800.4	327	8305	604.2	387	0.0
28	8609	1804.5	88	7310	1403.4	148	7103	1138.5	208	822.5	822.5	268	7503	799.0	328	8505	604.1	388	0.0
29	8709	1804.5	89	7708	1401.4	149	8303	1137.3	209	6601	822.4	269	8503	798.7	329	7205	604.0	389	0.0
30	7509	1803.1	90	8704	1384.3	150	8008	1119.6	210	6412	822.3	270	8703	797.8	330	8306	603.6	390	0.0
31	6510	1766.4	91	8810	1365.7	151	8106	1106.8	211	7412	822.2	271	6703	797.7	331	7005	603.4	391	0.0
32	8110	1766.4	92	8208	1364.7	152	8405	1092.9	212	6202	822.0	272	8802	797.7	332	8307	603.2	392	0.0
33	8610	1764.9	93	7110	1364.7	153	7303	1084.2	213	7512	821.9	273	7003	795.9	333	8405	602.0	393	0.0
34	6410	1764.8	94	6811	1324.8	154	7311	1078.9	214	7301	821.8	274	6212	793.0	334	8406	601.2	394	0.0
35	7709	1762.2	95	7910	1323.2	155	7012	1071.9	215	8412	821.6	275	6205	788.3	335	7206	600.5	395	0.0
36	7410	1727.9	96	7510	1323.2	156	8203	1050.7	216	7302	821.6	276	8803	785.0	336	8912	456.3	396	0.0
37	6511	1727.9	97	7411	1320.3	157	8211	1038.1	217	8201	820.9	277	6307	784.9	337	0	0	0	0
38	8310	1726.5	98	8804	1317.6	158	7511	1037.7	218	7802	820.7	278	7812	778.6	338	0	0	0	0
39	8311	1723.9	99	7610	1284.0	159	8711	1035.8	219	8512	820.5	279	7912	778.5	339	0	0	0	0
40	8111	1686.7	100	8510	1282.9	160	8904	1017.9	220	8801	820.5	280	6301	771.9	340	0	0	0	0
41	6608	1668.2	101	6710	1277.5	161	8004	1014.0	221	8712	820.3	281	6805	771.8	341	0	0	0	0
42	6908	1668.2	102	6304	1277.1	162	7803	1010.9	222	6911	820.2	282	6906	771.2	342	0	0	0	0
43	7108	1668.2	103	7007	1276.0	163	8603	1001.6	223	7011	819.9	283	8909	769.8	343	0	0	0	0
44	6408	1650.5	104	6407	1276.0	164	6611	997.5	224	7701	819.6	284	8302	765.6	344	0	0	0	0
45	7308	1647.8	105	6207	1276.0	165	6910	995.5	225	7201	819.4	285	8907	764.7	345	0	0	0	0
46	7008	1647.1	106	7106	1276.0	166	6411	994.7	226	7101	819.0	286	6303	758.1	346	0	0	0	0
47	6311	1644.2	107	7107	1276.0	167	7711	994.2	227	6901	818.8	287	7901	750.9	347	0	0	0	0
48	6808	1635.3	108	6507	1276.0	168	7406	998.9	228	6211	818.6	288	8001	747.9	348	0	0	0	0
49	6108	1631.8	109	7207	1276.0	169	6508	977.8	229	7501	818.3	289	8812	746.1	349	0	0	0	0
50	7764	1615.2	110	6806	1276.0	170	6512	935.6	230	6501	818.3	290	7902	745.8	350	0	0	0	0
51	6804	1610.8	111	7306	1276.0	171	6711	951.3	231	8101	818.1	291	6506	741.6	351	0	0	0	0
52	6708	1610.5	112	7307	1276.0	172	6308	942.3	232	6802	817.5	292	7903	738.7	352	0	0	0	0
53	6404	1605.2	113	7407	1276.0	173	8906	932.0	233	8601	817.2	293	8902	735.4	353	0	0	0	0
54	7408	1604.9	114	6806	1276.0	174	8103	924.7	234	8602	817.1	294	8903	723.6	354	0	0	0	0
55	6604	1600.9	115	7507	1276.0	175	7111	913.5	235	8701	816.6	295	8805	719.1	355	0	0	0	0
56	6904	1599.4	116	6406	1276.0	176	8411	913.5	236	7601	816.5	296	8901	711.4	356	0	0	0	0
57	6504	1599.0	117	6407	1276.0	177	7411	913.4	237	7401	816.5	297	8911	706.5	357	0	0	0	0
58	7204	1590.2	118	7406	1276.0	178	6201	912.7	238	6602	815.9	298	8902	705.0	358	0	0	0	0
59	8104	1589.5	119	7407	1276.0	179	7806	899.3	239	6701	815.8	299	8303	699.7	359	0	0	0	0
60	7608	1584.2	120	7707	1276.0	180	6803	892.3	240	6402	815.8	300	7305	698.3	360	0	0	0	0

Result of Reservoir Operation  
 (The Da river system case-3 Hoa Binh - project)



Result of Monthly Energy Calculation  
(The Sesan river system case-1 Yaly - project)

\* MONTHLY TOTAL ENERGY (GMH) \*

NO.	YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	1961	277.59	189.27	236.80	276.63	353.69	440.16	489.47	504.69	488.41	504.69	476.69	257.67	4496.57
2	1962	199.39	145.53	160.27	153.52	156.94	152.17	272.99	421.87	476.36	504.69	286.46	178.60	3108.78
3	1963	160.98	144.47	157.59	148.49	147.37	138.50	143.69	435.94	469.07	504.69	248.64	179.70	2881.22
4	1964	160.59	148.82	156.08	146.12	146.92	160.41	387.88	445.66	472.59	504.69	268.43	424.45	3640.83
5	1965	161.37	145.19	158.89	150.80	153.24	165.10	365.50	485.42	488.41	424.74	268.43	178.42	3146.62
6	1966	160.54	145.01	154.75	144.28	146.84	160.68	184.94	475.74	488.41	388.70	212.13	277.08	2912.85
7	1967	218.93	145.36	159.62	151.89	171.89	376.41	462.82	484.78	488.41	504.69	376.32	277.27	3818.09
8	1968	187.77	98.68	158.13	144.69	156.24	145.60	144.95	425.51	488.41	504.69	358.92	219.34	2929.92
9	1969	161.13	144.51	157.89	149.70	151.55	145.16	153.78	365.91	479.67	353.35	193.15	161.58	2822.78
10	1970	160.27	142.77	154.77	145.28	147.95	317.16	481.29	485.26	488.41	504.69	443.94	315.24	4337.41
11	1971	238.41	145.64	179.14	226.32	331.31	458.79	462.06	487.38	488.41	504.69	411.01	352.20	4200.12
12	1972	295.78	160.59	207.94	207.54	281.95	460.13	579.92	484.43	488.41	504.69	476.64	388.41	4601.96
13	1973	295.78	162.29	217.72	260.54	387.19	451.88	585.11	504.81	488.41	504.69	488.00	314.98	3675.17
14	1974	161.40	145.58	160.18	153.91	157.79	244.12	355.11	504.81	488.41	406.76	249.81	179.98	3003.07
15	1975	161.30	144.92	158.32	149.83	151.64	146.39	280.07	485.64	488.41	406.76	249.81	179.98	2887.79
16	1976	161.07	144.78	158.18	149.99	150.70	140.84	143.35	453.39	482.82	406.76	249.81	179.98	2164.90
17	1977	136.14	144.78	158.18	149.99	150.70	140.84	143.35	149.24	278.11	295.78	281.06	137.69	3297.50
18	1978	147.28	143.60	153.57	146.13	145.79	138.04	277.84	479.78	488.41	504.69	410.75	258.05	4113.16
19	1979	179.71	145.39	177.93	222.41	312.54	431.76	476.83	504.69	488.41	504.69	488.41	352.56	3949.73
20	1980	199.60	150.52	159.84	152.93	213.29	345.70	464.82	460.43	456.94	504.69	488.41	352.56	4598.67
21	1981	238.76	142.48	217.72	260.89	334.04	451.11	488.54	504.69	488.41	504.69	488.41	458.94	4598.67
22	1982	257.98	180.33	161.01	227.99	241.85	400.05	462.09	485.15	488.41	442.81	286.96	199.82	3973.86
23	1983	161.31	144.92	158.49	150.08	171.63	146.63	224.92	431.64	449.64	483.13	488.41	296.20	3287.01
24	1984	199.42	150.65	160.15	154.18	211.52	430.33	472.56	485.52	488.41	504.69	488.41	352.52	4138.17
25	1985	238.59	145.76	161.14	209.87	287.62	431.79	458.59	477.07	488.41	504.69	376.10	276.93	4036.57
26	1986	179.99	145.63	160.22	153.39	200.42	347.04	456.72	461.04	488.41	504.69	393.63	424.23	4005.41
27	1987	219.13	145.60	160.51	153.75	156.61	150.58	250.96	435.63	488.41	296.36	358.92	219.17	3035.63
28	1988	161.26	150.63	160.26	153.97	149.04	266.75	314.40	405.99	464.42	495.80	358.95	257.95	3349.46
29	1989	199.44	145.64	179.50	228.41	345.25	430.61	448.40	481.34	488.41	492.77	286.77	238.69	3963.02
30	1990	161.33	145.48	160.14	153.62	214.09	348.26	461.82	460.49	462.45	504.69	488.41	340.08	3900.86
TOTAL		5804.2	4438.7	4918.5	5275.6	6454.0	8543.5	10767.7	13669.1	14175.7	14053.2	11287.4	8313.1	107721.6
AVE		193.47	147.96	163.95	175.85	215.13	284.85	358.92	455.64	473.16	448.44	376.25	277.10	3590.72
MAX		295.78	190.33	236.80	276.63	387.19	460.13	489.47	504.69	488.41	504.69	488.41	458.94	4601.96
MIN		136.14	98.68	58.13	144.28	145.79	138.04	143.35	148.24	278.11	295.78	193.15	137.69	2164.90

Result of Monthly Capacity  
(The Sesan river system case-1 Yaaly - project)

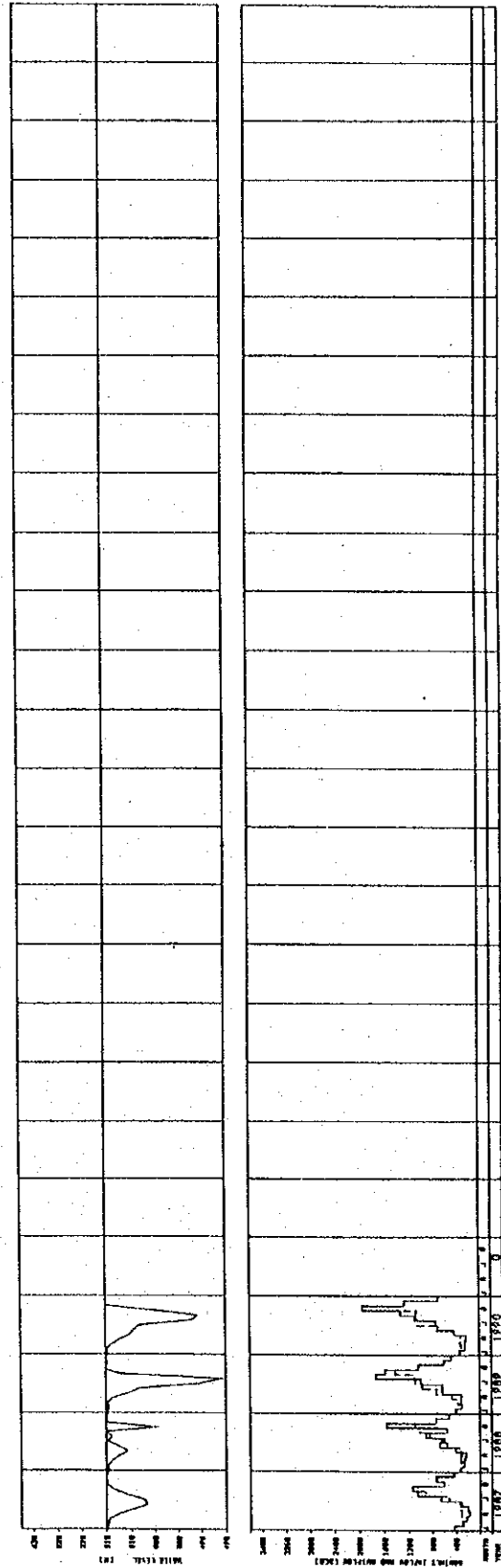
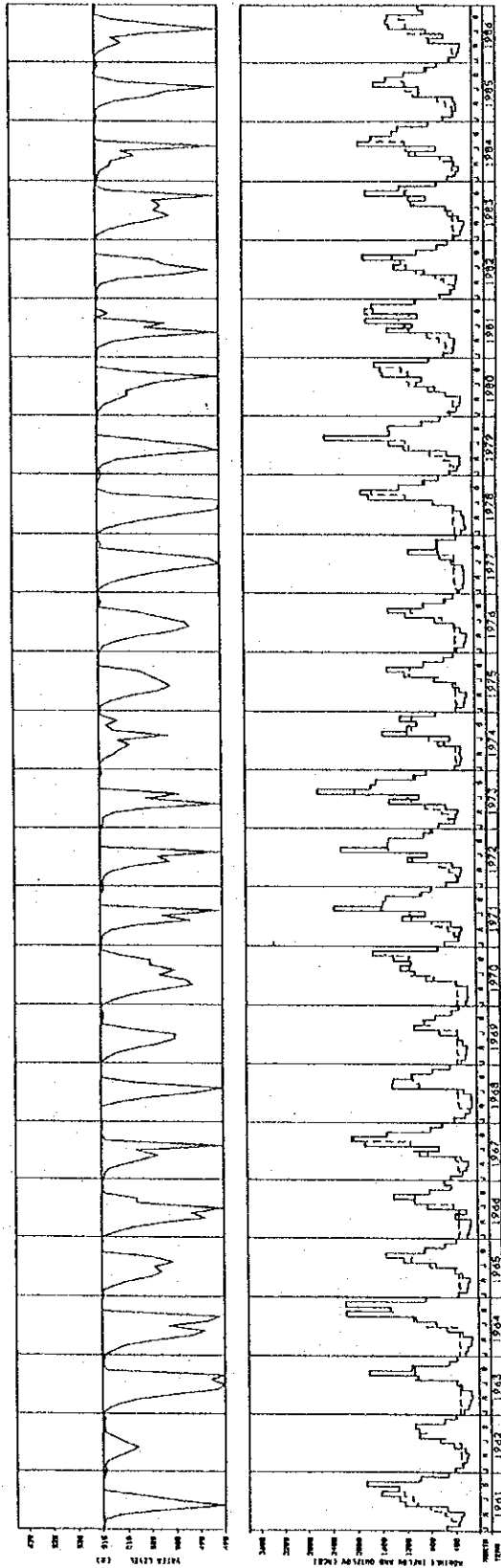
\* MONTHLY PEAK POWER (MW) \*

NO.	YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	1961	372.84	288.26	318.28	384.21	488.85	611.34	657.89	678.35	678.35	662.07	662.07	346.33	6145.09
2	1962	268.00	216.56	215.42	213.22	210.95	211.34	366.92	567.02	678.35	678.35	397.86	240.05	4247.30
3	1963	216.37	213.82	211.82	206.24	198.08	192.36	193.13	587.29	651.48	678.35	346.73	241.65	3938.48
4	1964	215.85	213.82	209.78	206.24	197.48	222.79	220.53	597.66	678.35	678.35	678.35	570.50	4964.16
5	1965	216.90	213.82	213.56	209.45	205.96	229.31	491.59	653.79	678.35	678.35	378.82	239.82	4298.30
6	1966	215.77	212.82	207.99	200.39	197.37	195.39	248.57	635.43	678.35	678.35	522.67	372.42	3979.68
7	1967	294.24	216.31	214.54	210.96	211.03	222.22	194.83	651.59	678.35	678.35	448.05	216.90	3482.57
8	1968	252.38	211.78	212.22	200.96	210.00	201.88	206.70	491.81	593.50	678.35	678.35	423.71	5222.80
9	1969	216.37	213.05	212.22	207.91	203.70	201.88	206.70	491.81	593.50	678.35	678.35	423.71	5222.80
10	1970	215.42	212.45	208.02	201.78	198.86	440.50	646.90	652.42	666.21	678.35	678.35	472.81	5923.29
11	1971	346.69	216.77	240.78	314.33	445.32	637.20	621.04	653.08	678.35	678.35	570.85	473.39	5729.52
12	1972	320.44	216.44	215.57	288.81	378.97	639.07	615.48	653.81	678.35	678.35	662.00	522.06	6283.95
13	1973	197.55	214.51	292.63	361.86	493.53	627.61	651.07	677.44	678.35	678.35	677.78	423.37	5022.28
14	1974	216.93	216.64	215.29	213.77	212.08	339.06	477.30	673.42	678.35	678.35	346.97	241.91	4103.60
15	1975	216.80	215.66	212.79	208.10	203.82	203.31	376.43	682.75	678.35	678.35	320.67	224.64	3940.34
16	1976	216.49	214.92	211.44	205.85	200.42	198.86	322.58	688.06	670.58	678.35	390.36	185.07	2968.74
17	1977	182.99	215.45	212.61	208.32	202.56	195.64	192.68	199.25	386.27	397.55	390.36	185.07	4504.78
18	1978	197.96	213.69	209.10	202.96	195.96	191.72	373.45	644.87	678.35	678.35	546.43	371.94	5618.97
19	1979	241.55	216.35	239.15	308.90	420.08	599.67	640.90	678.35	678.35	678.35	678.35	473.87	5387.42
20	1980	268.27	216.27	214.81	212.40	286.68	480.14	626.76	678.35	678.35	678.35	678.35	616.86	6280.07
21	1981	320.89	241.78	292.64	362.35	448.98	628.54	656.64	678.35	678.35	678.35	398.56	268.57	5295.64
22	1982	346.74	268.34	316.41	316.65	378.84	553.63	621.09	682.08	678.35	678.35	678.35	398.12	4494.21
23	1983	216.82	215.45	213.03	208.44	203.80	203.65	302.32	580.16	624.50	649.37	678.35	398.12	5645.97
24	1984	268.04	216.45	215.26	214.14	338.06	597.69	634.89	652.57	678.35	678.35	678.35	473.82	5513.96
25	1985	320.68	216.91	216.58	291.69	359.71	599.70	616.38	641.23	678.35	678.35	522.37	372.22	5466.52
26	1986	241.92	216.71	213.35	213.05	390.34	482.00	613.87	619.68	678.35	678.35	498.50	294.59	4152.72
27	1987	294.53	216.66	215.74	213.55	210.50	209.14	337.31	595.52	678.35	678.35	498.50	294.59	4571.66
28	1988	216.75	216.42	215.41	213.85	213.79	370.48	422.58	645.69	645.03	668.40	498.50	320.81	5411.85
29	1989	268.06	216.72	241.27	316.95	461.36	598.06	602.68	646.96	678.35	678.35	678.35	457.09	5329.12
30	1990	216.85	216.49	215.24	213.36	287.75	483.35	620.73	618.94	642.30	678.35	678.35	457.09	5329.12
TOTAL		7801.30	6553.87	6610.86	7327.16	8674.77	11868.74	14472.66	18372.50	19714.97	18888.68	15677.03	11173.52	147135.81
AVE		260.04	218.46	220.36	244.24	289.16	393.62	482.42	612.42	657.17	629.62	522.57	372.45	4904.52
MAX		397.55	268.34	318.28	384.21	493.53	639.07	657.89	678.35	678.35	678.35	678.35	616.86	6283.95
MIN		182.99	141.78	178.13	200.39	195.96	191.72	192.68	199.25	386.27	397.55	268.27	185.07	2968.74

**Result of Capacity Duration**  
(The Sesan river system case-1 Yaly - project)

NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P	NO.	DATE	P
1	6210	678.4	61	6409	656.1	121	8206	555.6	181	8104	362.4	241	6406	222.8	301	7503	212.8	0	0.0	0.0
2	6310	678.4	62	7108	655.1	122	7510	546.7	182	7304	361.9	242	7401	216.9	302	7703	212.6	0	0.0	0.0
3	6809	678.4	63	7208	653.8	123	8611	546.4	183	8505	359.7	243	8302	216.9	303	7002	212.4	0	0.0	0.0
4	7010	678.4	64	6508	653.8	124	7811	546.4	184	7511	347.0	244	6912	216.9	304	8004	212.4	0	0.0	0.0
5	7011	678.4	65	7508	652.7	125	7610	546.0	185	7912	346.8	245	6501	216.9	305	6903	212.2	0	0.0	0.0
6	7409	678.4	66	8408	652.7	126	8806	545.7	186	8301	346.7	247	8301	216.8	306	7403	211.8	0	0.0	0.0
7	7509	678.4	67	7008	652.2	127	8806	522.8	187	8311	346.7	248	7501	216.8	307	6303	211.4	0	0.0	0.0
8	7908	678.4	68	8208	652.1	128	6711	522.4	188	8812	346.7	249	7102	216.8	308	6206	211.3	0	0.0	0.0
9	8108	678.4	69	6708	651.6	129	6610	522.4	189	7101	346.7	249	7102	216.8	309	6206	211.3	0	0.0	0.0
10	8109	678.4	70	6309	651.3	130	8511	522.4	190	6112	346.3	250	8801	216.7	310	6704	211.0	0	0.0	0.0
11	8310	678.4	71	7307	651.1	131	7312	522.4	191	7406	339.1	251	8902	216.7	311	6205	210.9	0	0.0	0.0
12	8311	678.4	72	8310	649.4	132	6407	520.5	192	8405	338.1	252	8602	216.7	312	8705	210.5	0	0.0	0.0
13	8509	678.4	73	8908	647.0	133	8811	498.5	193	8707	337.3	253	8702	216.7	313	6805	210.5	0	0.0	0.0
14	8610	678.4	74	7007	646.9	134	8711	498.5	194	7807	328.6	254	7402	216.6	314	6403	209.8	0	0.0	0.0
15	8909	678.4	75	8809	645.0	135	7305	493.5	195	8101	320.9	255	8503	216.6	315	6504	209.4	0	0.0	0.0
16	9010	678.4	76	7808	644.9	136	7305	493.5	196	8102	320.8	256	6901	216.6	316	8706	209.1	0	0.0	0.0
17	6810	678.4	77	9009	642.3	137	6906	491.8	197	8301	320.7	257	6202	216.6	317	7803	209.1	0	0.0	0.0
18	8209	678.4	78	8508	641.2	138	6507	491.4	198	7811	320.7	258	7601	216.5	318	8304	208.4	0	0.0	0.0
19	8409	678.4	79	7907	640.9	139	6105	488.8	199	7801	320.4	259	9002	216.5	319	7704	208.3	0	0.0	0.0
20	6509	678.4	80	6608	639.4	140	9006	483.7	200	6103	318.3	260	8402	216.4	320	7504	208.1	0	0.0	0.0
21	6709	678.4	81	7204	639.1	141	8606	482.0	201	8204	317.0	261	7202	216.4	321	7003	208.0	0	0.0	0.0
22	6108	678.4	82	7106	637.2	142	8006	480.1	202	8204	316.7	262	8802	216.4	322	6603	208.0	0	0.0	0.0
23	6410	678.4	83	8407	634.9	143	7407	477.3	203	7104	316.3	263	8203	216.4	323	6904	207.9	0	0.0	0.0
24	6710	678.4	84	8009	634.9	144	8012	473.8	204	7904	308.9	264	6301	216.4	324	6907	206.7	0	0.0	0.0
25	6611	678.4	85	7306	627.6	145	8412	473.8	205	8307	302.3	265	7902	216.4	325	6304	206.2	0	0.0	0.0
26	6710	678.4	86	8106	626.5	146	7212	473.4	206	6812	294.8	266	6702	216.3	326	6505	206.0	0	0.0	0.0
27	7109	678.4	87	8007	624.8	147	7112	472.8	207	6611	294.6	267	8002	216.3	327	7604	205.9	0	0.0	0.0
28	7110	678.4	88	8309	624.5	148	8905	461.6	208	8112	294.6	268	6502	216.1	328	7505	203.8	0	0.0	0.0
29	7209	678.4	89	6707	621.7	149	9012	457.1	209	8701	294.5	269	6401	215.9	329	8305	203.8	0	0.0	0.0
30	7210	678.4	90	8207	621.1	150	8105	449.0	210	6701	294.3	270	6601	215.9	330	6905	203.7	0	0.0	0.0
31	7309	678.4	91	7107	621.0	151	6910	448.1	211	8103	292.6	271	8202	215.7	331	8306	203.6	0	0.0	0.0
32	7310	678.4	92	9007	620.7	152	7105	445.3	212	7303	292.6	272	7502	215.7	332	7506	203.3	0	0.0	0.0
33	7809	678.4	93	8608	619.7	153	7004	440.5	213	8504	291.5	273	8302	215.7	333	7804	203.0	0	0.0	0.0
34	7810	678.4	94	9008	618.9	154	7032	423.7	214	7304	288.8	274	7203	215.6	334	6404	203.0	0	0.0	0.0
35	7909	678.4	95	8008	618.9	155	7412	423.4	215	9005	287.8	275	7702	215.5	335	7705	202.6	0	0.0	0.0
36	7910	678.4	96	8112	616.9	156	8807	422.6	216	8005	286.7	276	7001	215.4	336	6806	202.2	0	0.0	0.0
37	8010	678.4	97	7111	616.6	157	7905	420.1	217	8312	286.6	277	6203	215.4	337	6906	201.9	0	0.0	0.0
38	8011	678.4	98	8507	616.4	158	8211	398.6	218	8202	268.3	278	8803	215.4	338	7004	201.8	0	0.0	0.0
39	6109	678.4	99	7207	615.5	159	8710	398.3	219	8001	268.3	279	8603	215.3	339	6804	201.0	0	0.0	0.0
40	6110	678.4	100	8607	613.9	160	8911	398.3	220	6911	268.3	280	7403	215.3	340	7605	200.4	0	0.0	0.0
41	8111	678.4	101	6106	613.3	161	8312	398.1	221	6102	268.3	281	8403	215.3	341	6604	200.4	0	0.0	0.0
42	8410	678.4	102	7608	608.1	162	6211	397.9	222	8901	268.1	282	9003	215.0	342	7708	199.3	0	0.0	0.0
43	8411	678.4	103	8907	602.7	163	7710	397.6	223	8401	268.0	283	6902	215.0	343	7005	198.9	0	0.0	0.0
44	8510	678.4	104	8506	599.7	164	7301	397.5	224	6201	268.0	284	6302	215.0	344	7606	198.9	0	0.0	0.0
45	8609	678.4	105	7906	599.7	165	7711	390.4	225	6801	252.4	285	7602	214.9	345	6305	198.1	0	0.0	0.0
46	9011	678.4	106	8906	598.1	166	8605	390.3	226	6607	248.6	286	8003	214.8	346	7801	198.0	0	0.0	0.0
47	7411	678.4	107	8406	597.7	167	7709	386.3	227	8601	241.9	287	6703	214.5	347	6405	197.5	0	0.0	0.0
48	7308	677.4	108	6408	597.7	168	6104	384.2	228	7512	241.9	288	8404	214.4	348	6605	197.4	0	0.0	0.0
49	7410	675.9	109	8210	594.4	169	8205	379.0	229	8102	241.8	289	8804	213.9	349	7806	196.0	0	0.0	0.0
50	7408	675.8	110	6909	593.5	170	7205	379.0	230	6102	241.8	290	6402	213.8	350	7706	195.6	0	0.0	0.0
51	6609	672.5	111	6308	587.5	171	7507	376.4	231	7901	241.5	291	8805	213.8	351	6606	195.4	0	0.0	0.0
52	7609	670.6	112	8708	585.5	172	7807	373.4	232	7302	241.3	292	7404	213.7	352	6807	194.8	0	0.0	0.0
53	8810	666.4	113	8308	580.2	173	6101	372.8	233	8903	241.3	293	7802	213.7	353	6307	193.1	0	0.0	0.0
54	7009	666.2	114	6510	570.9	174	6511	372.8	234	7103	240.8	294	6504	213.6	354	7707	192.7	0	0.0	0.0
55	8910	662.3	115	7211	570.8	175	6712	372.4	235	6312	240.1	295	8704	213.4	355	6306	192.4	0	0.0	0.0
56	6111	662.1	116	6412	570.5	176	6612	372.2	236	6512	239.8	296	9004	213.4	356	7806	191.7	0	0.0	0.0
57	7311	662.0	117	7911	570.5	177	8512	372.2	237	7903	239.2	297	6204	213.2	357	7712	185.1	0	0.0	0.0
58	6209	661.6	118	8612	570.2	178	7812	371.9	238	6703	238.2	298	8604	213.0	358	7701	183.0	0	0.0	0.0
59	6107	657.9	119	6808	567.9	179	8806	370.5	239	6506	225.3	299	8305	212.8	359	6803	161.8	0	0.0	0.0
60	8107	656.6	120	6208	567.0	180	6207	366.9	240	7412	224.4	300	6602	212.8	360	6803	78.1	0	0.0	0.0

Result of Reservoir Operation  
 (The Sesan river system case-1 Yaly - project)





Result of Monthly Energy Calculation  
 (The Sesan river system case-2 Plei Krong - project)

\* MONTHLY TOTAL ENERGY (GMWH) \*

NO. YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	49.04	44.20	51.99	44.07	58.87	63.04	76.80	79.35	76.79	79.35	72.07	39.62	745.17
2	32.08	21.08	30.29	44.27	46.22	43.55	44.63	45.41	45.41	48.42	44.19	29.96	477.52
3	1862	41.94	48.91	43.41	42.55	39.15	38.81	39.08	41.53	46.56	45.71	46.40	492.37
4	1964	44.95	40.33	36.73	35.10	32.06	34.92	34.77	44.59	73.92	64.37	56.15	556.15
5	1965	25.96	30.78	47.57	43.88	41.10	42.06	43.54	45.11	48.76	41.52	28.26	462.57
6	1966	46.56	42.25	44.80	41.10	40.56	39.95	39.62	41.16	43.14	43.96	44.51	503.14
7	1967	43.27	37.93	39.94	36.02	34.25	35.48	38.88	51.65	77.09	57.24	44.51	539.26
8	1968	29.53	15.46	10.62	46.61	46.06	41.48	42.27	44.18	48.01	47.42	34.86	448.73
9	1969	20.55	14.32	14.17	46.76	43.77	44.52	45.30	45.30	47.20	45.37	45.79	459.28
10	1970	44.07	37.90	39.58	35.55	32.33	35.95	38.87	40.35	44.40	60.45	49.10	492.67
11	1971	48.86	43.46	49.35	49.69	60.38	70.72	76.61	76.79	79.35	66.55	56.23	730.71
12	1972	48.86	44.90	46.64	43.57	54.96	66.73	78.50	76.79	79.35	64.57	51.86	702.38
13	1973	55.96	53.06	62.11	58.14	64.84	65.85	73.84	76.79	79.35	72.22	60.53	783.71
14	1974	48.66	42.91	46.00	42.92	40.51	40.94	42.48	44.10	47.22	49.17	49.17	549.63
15	1975	24.23	13.55	42.89	45.30	45.01	43.05	44.24	45.44	48.85	39.36	26.89	461.00
16	1976	22.37	12.94	31.96	45.80	42.60	43.40	44.48	45.56	48.87	38.40	26.29	448.16
17	1977	18.38	13.62	12.74	12.17	30.43	47.92	47.24	46.34	48.59	46.92	47.79	384.64
18	1978	46.82	40.03	42.07	38.27	32.91	32.70	36.56	41.36	46.65	46.48	48.17	488.23
19	1979	47.52	41.87	44.75	41.82	34.18	67.97	78.14	71.79	79.35	62.62	49.00	692.30
20	1980	48.34	44.18	45.67	42.42	40.55	42.59	49.68	65.73	78.82	76.79	56.21	631.38
21	1981	48.81	43.39	46.90	48.38	60.58	77.23	79.35	75.57	79.35	76.79	68.76	756.56
22	1982	49.02	43.75	47.35	44.46	42.53	59.21	73.16	73.45	68.74	47.51	48.61	642.18
23	1983	47.34	41.62	44.25	40.33	36.65	36.60	37.10	37.41	41.83	44.21	46.73	494.26
24	1984	46.11	43.04	43.28	40.13	39.81	41.00	54.78	73.25	76.70	76.79	54.06	626.70
25	1985	48.36	43.43	46.88	43.93	38.76	47.21	64.83	74.66	79.35	56.52	69.06	641.04
26	1986	48.48	42.81	45.88	42.64	41.61	42.87	44.68	61.89	77.30	60.58	64.68	618.64
27	1987	48.82	43.27	46.55	43.34	39.68	40.31	41.38	42.18	44.65	43.38	44.60	520.97
28	1988	43.42	39.14	39.96	36.49	33.94	35.08	35.87	35.30	36.83	40.29	41.56	455.63
29	1989	40.38	35.36	37.38	34.44	32.74	35.25	39.45	43.00	47.21	46.34	47.50	472.86
30	1990	46.55	40.84	43.60	40.89	38.28	39.98	41.27	48.25	73.93	73.29	52.31	578.60
TOTAL	1233.5	1094.4	1232.9	1265.1	1274.1	1278.3	1407.2	1530.5	1634.0	1826.6	1672.9	1416.8	16866.4
AVE	41.12	36.48	41.10	42.17	42.47	42.61	46.91	51.02	54.47	60.89	55.76	47.23	562.21
MAX	55.96	53.06	62.11	58.14	59.03	64.84	77.23	79.35	76.79	79.35	76.79	68.76	783.71
MIN	18.38	12.94	10.62	12.17	12.51	30.43	32.70	34.77	35.30	38.83	38.40	26.29	384.64

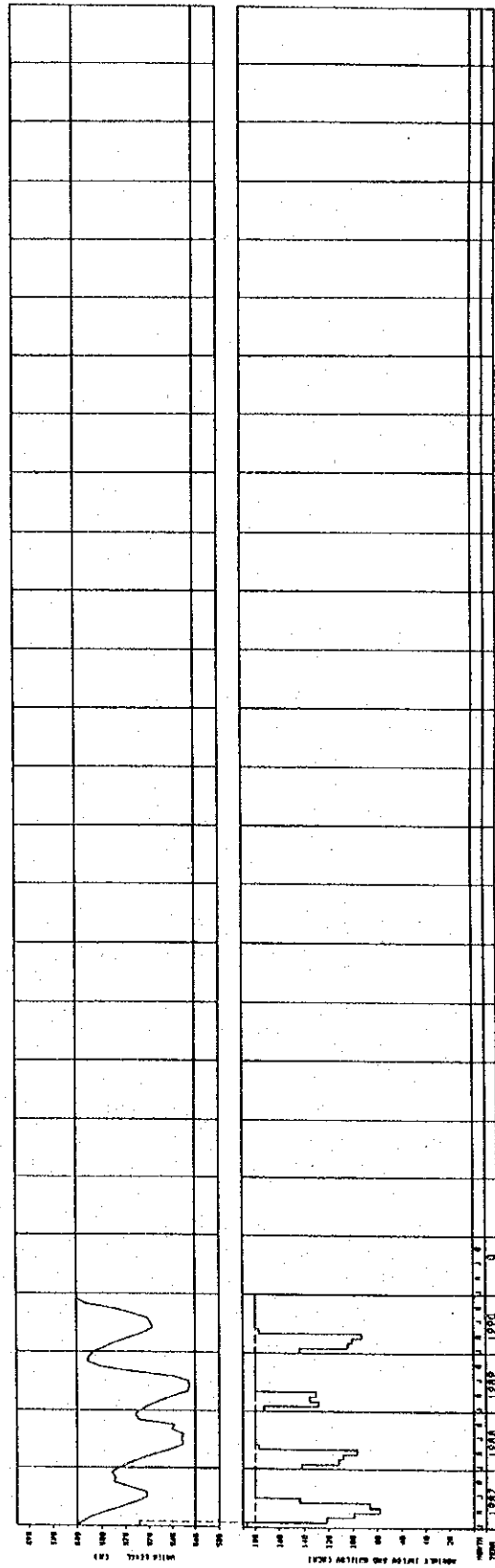
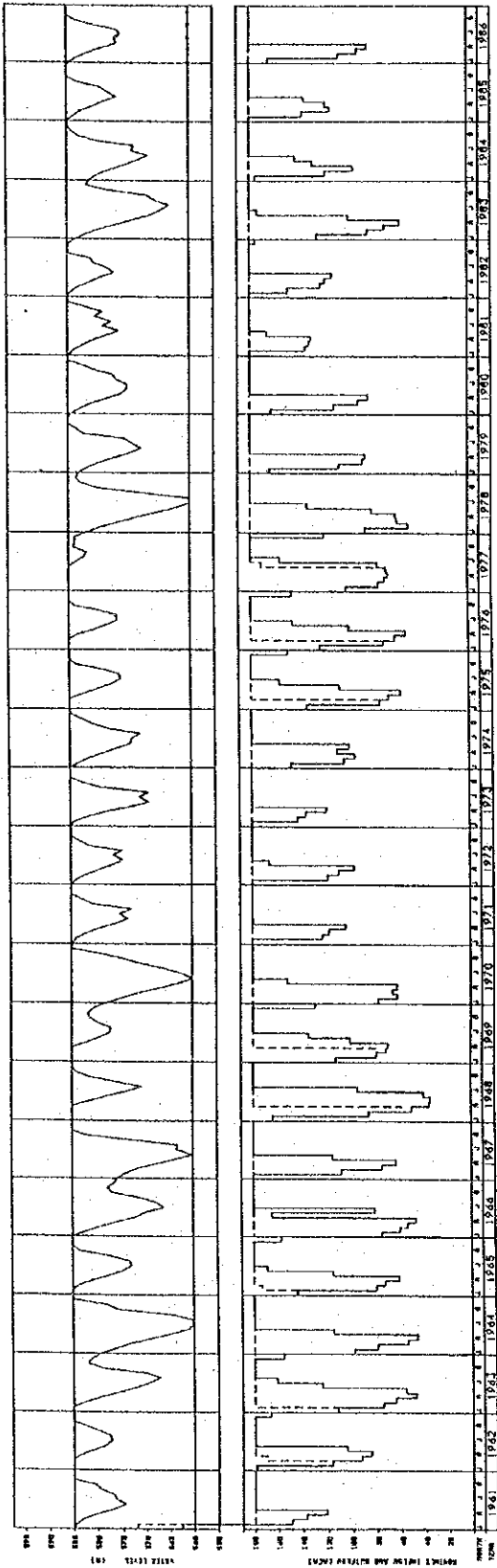
Result of Monthly Capacity  
(The Sesan river system case-2 Plei Krong - project)

\* MONTHLY PEAK POWER (MW) \*

NO. YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1 1981	65.91	65.78	69.88	75.09	79.12	87.55	103.22	106.65	106.65	106.65	100.10	53.25	1019.85
2 1982	45.12	31.57	40.71	64.26	62.13	60.49	59.99	61.04	63.06	65.09	61.37	40.27	652.90
3 1983	27.31	62.41	63.05	80.29	57.19	54.37	52.17	52.33	57.68	62.58	63.49	62.37	675.44
4 1984	60.42	57.95	54.84	51.01	47.18	44.55	44.25	46.73	61.51	102.02	102.67	86.52	759.63
5 1985	34.90	45.80	63.94	61.42	58.98	57.09	44.55	58.33	62.66	65.54	57.38	37.99	660.75
6 1986	62.59	62.87	40.22	57.09	54.52	51.93	51.01	53.33	57.16	60.01	59.91	59.82	689.64
7 1987	58.16	56.44	53.68	50.03	45.83	45.83	47.69	52.36	61.36	63.44	63.02	59.82	724.81
8 1988	39.56	22.21	14.28	64.94	62.76	60.79	59.87	52.55	56.04	59.68	61.54	46.85	612.66
9 1989	27.22	21.51	19.05	49.37	45.60	45.18	48.51	102.56	106.65	106.65	92.44	61.50	627.48
10 1970	59.24	56.40	63.20	69.02	70.88	83.85	95.05	105.24	106.65	106.65	89.58	75.58	959.75
11 1971	63.67	64.67	66.33	66.02	70.88	76.33	89.69	105.24	106.65	106.65	89.58	68.70	959.75
12 1972	63.68	64.51	62.49	60.51	61.65	76.33	89.69	105.24	106.65	106.65	100.31	81.35	1073.49
13 1973	75.22	81.93	83.48	80.75	79.34	90.06	88.50	99.85	106.65	106.65	100.31	81.35	1073.49
14 1974	65.40	63.85	61.85	59.61	57.21	55.85	55.02	57.99	61.25	63.47	86.76	66.09	753.43
15 1975	32.57	20.16	57.64	62.92	60.50	58.61	59.66	59.66	63.12	65.64	54.67	35.14	659.29
16 1976	30.07	18.59	42.96	63.60	61.16	59.16	58.34	59.78	63.28	65.68	53.33	35.34	611.28
17 1977	24.71	20.27	17.12	14.90	16.81	42.27	64.40	63.49	63.35	65.31	65.16	64.24	535.04
18 1978	63.15	59.57	56.55	53.15	49.46	45.71	43.96	49.34	57.45	62.70	64.58	66.74	619.11
19 1979	63.87	62.30	60.14	58.08	64.92	75.25	91.36	105.03	106.65	106.65	86.97	63.86	947.09
20 1980	64.98	63.48	61.39	58.92	56.98	56.32	57.25	66.77	88.51	105.94	106.65	75.55	862.73
21 1981	65.60	64.57	63.04	67.05	69.58	84.15	103.81	106.65	104.68	106.65	106.65	92.42	1034.83
22 1982	65.89	65.10	63.64	61.75	59.68	59.06	79.58	98.53	101.02	92.39	65.98	65.33	878.76
23 1983	61.98	61.94	59.48	56.43	53.33	50.91	49.19	49.87	101.96	56.22	61.41	62.82	677.44
24 1984	61.98	60.40	58.17	55.73	53.51	53.84	55.10	73.63	101.73	103.09	106.65	72.66	856.49
25 1985	65.67	64.62	63.00	61.02	59.06	58.85	63.65	87.14	103.70	106.65	78.50	65.94	877.61
26 1986	65.15	63.70	61.66	59.22	58.12	57.79	57.62	60.05	85.96	106.65	84.14	86.93	846.94
27 1987	65.62	64.39	62.57	60.19	57.53	55.12	54.18	55.64	58.59	60.02	60.25	59.94	714.02
28 1988	58.35	56.33	53.70	50.68	48.07	47.14	47.15	48.21	49.03	52.20	53.66	53.86	632.57
29 1989	54.55	52.64	50.24	47.41	45.56	45.48	47.58	53.02	59.73	63.46	64.53	63.85	647.66
30 1990	62.57	60.78	58.60	55.96	53.77	53.17	53.74	55.47	67.01	99.37	101.80	70.31	782.54
TOTAL	1657.99	1616.26	1637.06	1757.14	1712.53	1775.46	1891.39	2057.14	2269.49	2455.12	2323.47	1904.35	23077.37
AVE	55.27	53.88	55.24	58.57	57.08	59.18	63.05	68.57	77.65	81.84	77.45	63.48	769.25
MAX	75.22	81.93	83.48	80.75	79.34	90.06	103.81	106.65	106.65	106.65	106.65	92.42	1073.49
MIN	24.71	18.59	14.28	16.90	16.81	42.27	43.96	46.73	49.03	52.20	53.33	35.34	535.04



Result of Reservoir Operation  
 (The Sesan river system case-2 Plei Krong - project)



Result of Monthly Energy Calculation  
(The Sesan river system case-2 Plei Krong - project)

\* MONTHLY TOTAL ENERGY (GWH) \*

NO.	YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	1961	302.57	215.52	301.03	355.48	454.63	441.70	478.03	504.69	488.41	504.69	466.43	251.80	4765.00
2	1962	220.06	197.48	215.67	206.39	212.18	206.07	211.76	363.05	410.42	423.99	280.46	219.58	3127.13
3	1963	217.23	193.80	217.23	208.90	206.18	197.85	285.46	277.23	470.88	436.42	268.51	238.88	3128.00
4	1964	220.01	205.12	217.91	208.90	206.18	197.85	285.46	457.18	460.99	504.69	488.41	412.98	4088.76
5	1965	219.37	195.15	215.03	206.20	211.74	205.17	258.20	378.79	485.28	378.79	268.30	219.39	3281.12
6	1966	217.95	195.49	214.49	204.92	211.05	204.17	244.02	374.38	486.67	504.69	378.79	289.87	3221.42
7	1967	264.27	198.61	219.24	210.88	271.44	397.87	462.20	461.45	488.41	504.69	378.79	211.78	4131.98
8	1968	188.14	156.68	215.30	202.90	205.08	193.60	195.73	206.20	430.16	436.16	329.14	221.78	2961.17
9	1969	218.66	193.41	205.87	192.09	193.49	188.65	200.23	211.26	303.20	327.64	255.81	220.01	2712.32
10	1970	219.49	197.19	216.83	208.12	211.51	252.47	411.39	468.88	488.41	504.69	488.41	315.27	3985.67
11	1971	277.36	215.58	263.27	311.31	401.41	459.18	468.15	496.72	488.41	504.69	433.36	364.45	4883.79
12	1972	264.39	206.02	220.04	289.79	362.49	468.26	461.71	487.20	488.41	504.69	421.98	377.61	4502.59
13	1973	327.76	290.47	326.36	379.20	474.02	450.13	481.23	466.99	432.94	423.11	475.27	315.01	5054.16
14	1974	225.69	198.82	219.68	212.13	218.76	254.91	385.42	466.99	441.69	376.80	243.48	201.83	3056.77
15	1975	218.93	194.17	210.34	200.14	204.68	198.47	209.66	356.58	411.69	364.88	245.04	168.00	2863.63
16	1976	217.75	198.88	205.27	192.71	193.54	189.07	201.31	266.30	418.88	364.88	245.04	168.00	2863.63
17	1977	117.35	64.96	111.39	209.38	208.23	192.43	195.62	200.58	204.31	237.40	292.93	250.24	2576.72
18	1978	219.72	197.36	216.80	207.98	213.10	205.61	326.93	496.88	488.41	459.15	352.78	289.83	3674.57
19	1979	238.72	198.87	250.38	309.83	403.75	434.60	464.26	504.69	488.41	504.69	410.76	299.74	4498.13
20	1980	238.57	203.83	219.55	211.65	262.07	347.70	455.43	477.22	455.01	501.63	488.41	354.59	4428.55
21	1981	264.37	215.58	263.44	334.34	407.73	454.28	480.23	503.06	488.41	504.69	488.41	47.93	4852.48
22	1982	290.12	237.26	219.98	218.11	311.25	397.73	501.63	501.34	488.41	447.80	292.90	251.70	4148.26
23	1983	220.20	198.57	218.85	210.29	214.02	209.37	223.33	363.34	429.97	493.47	455.39	302.59	3366.99
24	1984	251.40	203.76	219.60	217.53	311.07	422.47	487.31	496.17	488.41	504.69	488.41	352.51	4402.72
25	1985	264.54	215.69	220.06	212.79	273.58	383.04	437.31	496.17	488.41	504.69	488.41	302.60	4315.72
26	1986	238.71	198.86	219.71	211.82	283.62	291.76	417.92	496.17	488.41	504.69	488.41	424.51	4165.61
27	1987	264.41	198.78	219.86	211.99	218.04	210.78	287.91	399.74	432.99	304.88	341.03	251.60	3339.79
28	1988	235.85	206.04	219.99	212.43	223.26	317.10	302.66	388.75	339.08	489.70	328.94	277.27	3333.09
29	1989	252.61	235.93	225.86	218.58	315.21	351.29	472.67	404.56	484.72	412.71	304.94	264.33	4010.59
30	1990	225.77	198.86	219.77	212.08	224.86	339.81	439.13	499.24	468.04	504.69	488.41	338.38	4149.05
	TOTAL	7130.9	5951.7	6724.2	6982.1	8134.5	9150.2	10726.9	12635.4	13502.7	13424.2	11249.3	8821.7	114423.7
	AVE	237.70	198.39	224.14	232.74	271.15	305.01	337.56	420.85	450.09	447.47	374.98	274.06	3814.12
	MAX	327.76	250.47	326.36	379.30	474.02	468.26	501.63	504.69	488.41	504.69	488.41	487.93	5054.16
	MIN	117.35	64.96	111.39	192.09	193.49	188.65	195.62	200.58	204.31	237.40	243.48	168.00	2276.72

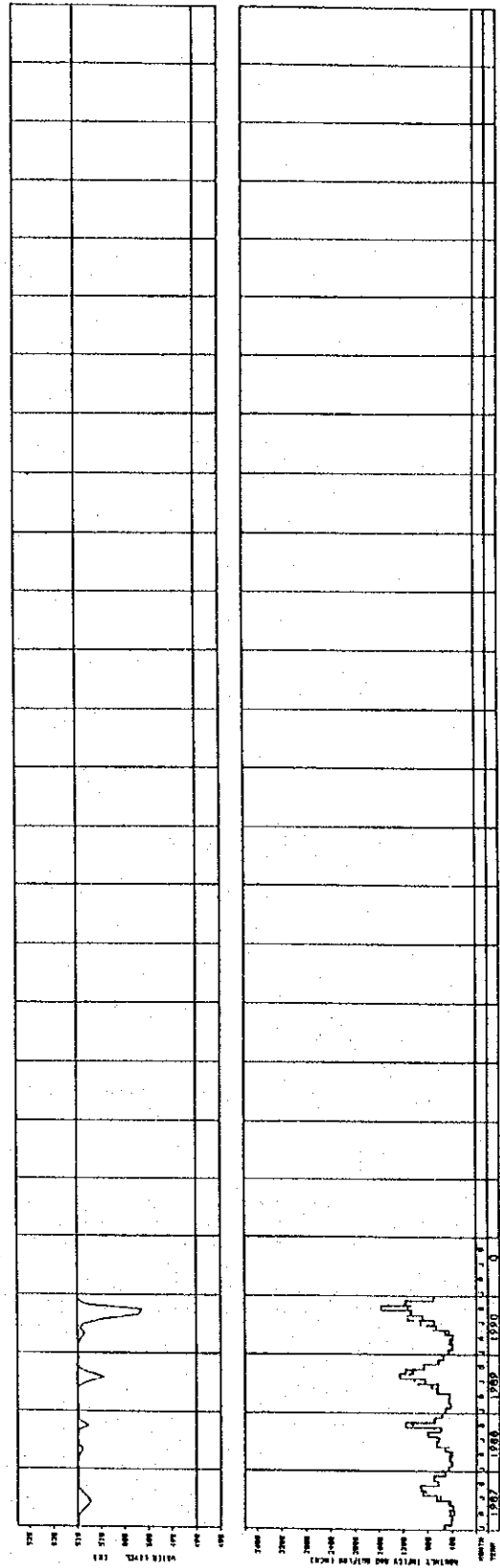
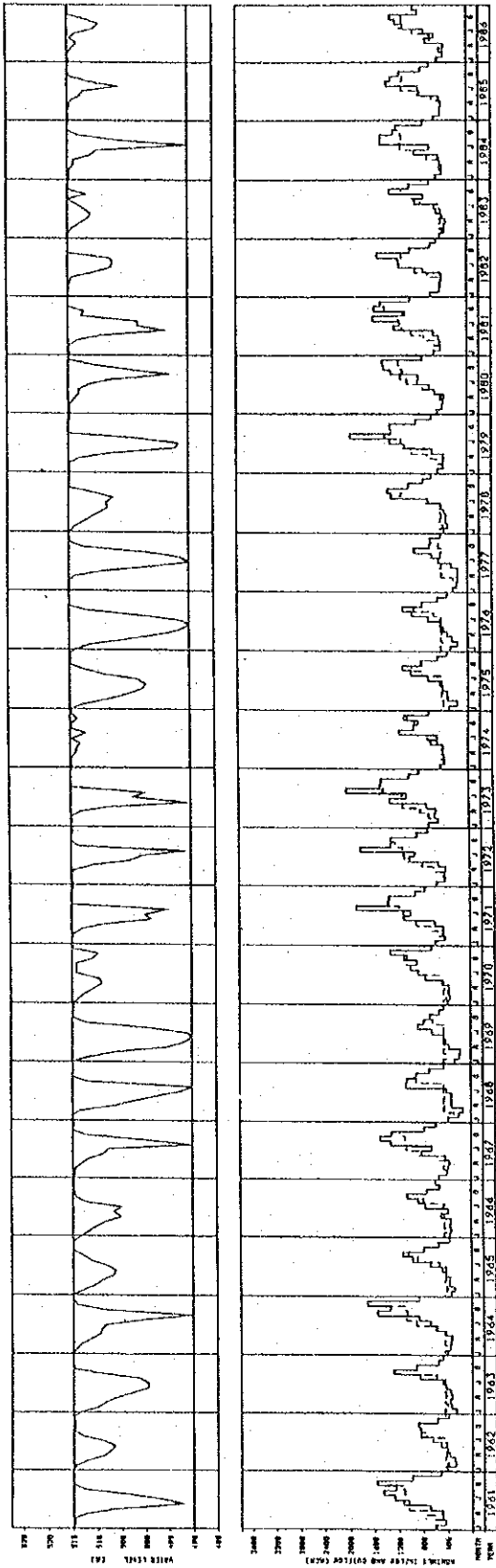
Result of Monthly Capacity  
(The Sesan river system case-2 Plei Krong - project)

\* MONTHLY PEAK POWER (MW) \*

NO. YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1 1961	406.69	320.72	404.62	493.72	611.06	613.47	642.52	676.35	678.35	647.82	358.44	6514.11	
2 1962	295.78	293.86	289.88	286.65	285.19	286.42	298.07	487.97	570.02	569.88	389.53	295.15	
3 1963	291.98	298.40	285.77	281.87	277.12	274.80	276.15	374.62	654.00	566.59	372.93	321.08	
4 1964	295.71	294.21	292.88	290.14	288.40	395.06	556.41	614.49	639.70	678.35	555.08	5579.28	
5 1965	294.85	291.85	289.02	286.39	284.59	285.51	347.05	543.37	674.00	504.43	372.65	4490.60	
6 1966	292.94	290.80	288.30	286.61	283.87	283.57	287.86	505.20	675.92	473.25	355.40	4409.21	
7 1967	355.20	295.55	294.68	292.89	354.84	552.60	621.12	680.25	678.07	678.35	522.66	5648.35	
8 1968	293.88	196.37	289.38	281.66	275.44	268.01	263.08	277.15	598.29	586.24	457.13	298.09	
9 1969	293.89	287.81	276.71	266.79	262.78	263.02	283.93	283.22	421.11	440.38	352.29	295.71	
10 1970	295.02	293.44	291.44	289.05	288.32	350.66	552.94	630.22	678.35	678.35	678.35	5449.88	
11 1971	372.80	320.81	351.85	432.24	539.32	637.75	629.23	667.63	678.35	678.35	601.89	489.85	
12 1972	355.36	296.00	295.76	402.49	487.82	650.36	620.57	854.84	678.35	678.35	586.08	6145.71	
13 1973	440.54	372.72	438.66	526.66	637.13	625.18	646.81	678.35	678.35	678.35	647.82	538.67	
14 1974	303.35	295.87	295.27	294.63	294.03	354.04	437.39	627.68	601.31	568.70	660.10	423.40	
15 1975	294.25	288.95	282.72	277.98	275.10	275.65	281.81	479.88	613.45	506.45	338.17	271.27	
16 1976	292.68	285.75	275.90	267.65	262.82	263.59	270.58	337.93	581.78	490.43	340.33	225.81	
17 1977	157.72	129.42	149.72	290.81	279.88	267.26	262.94	269.59	283.63	319.09	406.84	296.03	
18 1978	295.32	293.70	291.40	288.86	286.42	285.57	439.42	667.86	678.35	617.14	489.98	5023.57	
19 1979	320.87	295.93	336.53	429.51	542.68	603.62	624.00	678.35	678.35	678.35	570.50	389.44	
20 1980	320.45	295.73	295.10	293.96	352.24	482.92	612.14	641.42	638.21	674.24	678.35	490.04	
21 1981	352.34	320.81	344.09	464.36	548.02	630.94	645.48	676.16	678.35	678.35	678.35	602.05	
22 1982	389.95	358.18	295.68	302.95	418.55	582.40	674.23	673.84	678.35	601.89	406.81	338.31	
23 1983	295.97	295.49	294.15	292.07	290.35	290.80	300.18	488.55	595.77	671.33	632.49	406.57	
24 1984	337.91	295.64	295.16	302.13	418.11	586.76	636.06	628.53	678.35	678.35	473.81	6009.14	
25 1985	355.57	320.96	295.78	295.54	370.40	511.99	654.99	666.89	678.35	678.35	506.72	406.73	
26 1986	330.84	295.92	295.30	294.19	387.93	495.22	561.73	672.49	675.06	671.21	538.82	570.58	
27 1987	335.38	295.81	296.43	293.04	293.04	293.75	386.98	537.29	601.38	406.80	473.86	338.17	
28 1988	305.67	296.04	295.69	295.04	302.77	449.42	406.80	522.51	470.95	658.20	456.86	372.68	
29 1989	338.18	303.47	303.58	303.58	423.67	487.90	635.57	678.17	675.22	554.72	423.82	355.28	
30 1990	303.45	295.92	295.40	294.56	302.23	471.96	576.79	671.02	650.06	678.35	478.35	454.82	
TOTAL	9584.63	8784.65	9037.90	9697.36	10933.51	12708.57	14417.90	16969.69	18753.76	18043.32	15024.09	11857.17	156414.37
AVE	319.49	292.89	301.26	323.25	364.45	423.82	480.60	565.66	623.13	601.44	570.80	395.24	5213.81
MAX	440.54	372.72	438.66	526.66	637.13	650.36	674.23	678.35	678.35	678.35	678.35	602.05	6909.23
MIN	157.72	129.40	149.72	266.79	262.76	262.02	262.94	269.59	283.63	319.09	338.17	225.81	3112.91



Result of Reservoir Operation  
 (The Sesan river system case-2 Plei Krong - project)





Result of Monthly Energy Calculation  
 (The Sesan river system case-3 Thuong Kontum - project)

\* MONTHLY TOTAL ENERGY (GWH) \*

NO. YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1 1961	77.03	69.44	81.97	79.04	81.44	88.91	97.23	102.65	108.54	118.43	95.03	82.48	1058.20
2 1962	62.41	56.27	62.15	59.98	61.81	59.66	61.55	61.22	59.88	62.05	60.12	62.06	729.80
3 1963	61.93	55.79	61.57	59.38	61.12	58.96	60.78	60.81	59.19	61.53	59.62	61.51	723.20
4 1964	61.36	57.23	60.94	58.75	60.49	58.42	60.36	60.47	59.96	61.47	59.66	62.33	720.76
5 1965	62.31	56.15	61.99	59.80	61.44	59.49	61.44	61.58	59.89	62.12	60.13	62.08	728.60
6 1966	61.92	55.76	61.53	59.32	61.13	59.00	60.91	61.04	59.33	61.51	59.52	61.44	722.40
7 1967	61.37	55.32	61.07	58.88	60.64	58.68	60.71	60.59	59.59	62.06	60.35	62.27	721.82
8 1968	62.20	58.06	61.88	59.66	61.41	59.19	60.95	61.02	59.39	61.63	59.76	61.73	726.89
9 1969	61.81	55.49	61.24	59.06	60.82	58.69	60.56	60.53	58.85	60.88	58.88	60.71	717.44
10 1970	60.51	54.45	60.64	57.85	59.56	57.61	59.70	59.97	58.31	60.54	59.00	61.22	708.75
11 1971	61.18	55.18	60.93	58.79	60.60	58.73	60.87	61.59	59.86	62.21	60.42	62.29	728.36
12 1972	71.64	66.88	71.28	68.76	76.13	78.74	86.65	92.19	99.74	108.42	79.75	82.38	982.57
13 1973	82.27	78.90	87.04	83.89	91.54	93.54	96.77	107.42	109.56	123.56	95.95	77.08	1126.61
14 1974	62.46	56.30	62.18	60.02	61.86	59.78	61.72	61.86	63.78	71.43	66.99	62.52	750.79
15 1975	30.28	16.89	34.32	40.26	62.09	59.96	61.91	62.02	60.27	62.48	49.02	33.64	613.55
16 1976	27.94	41.35	62.32	60.12	61.94	59.80	61.73	61.84	60.09	62.29	60.59	62.22	681.94
17 1977	62.07	55.92	61.72	59.53	61.31	59.13	60.93	60.84	58.96	61.02	59.03	60.91	721.37
18 1978	60.72	54.64	60.25	58.05	59.73	57.59	59.42	59.71	58.37	60.76	58.97	60.95	709.15
19 1979	60.87	54.85	60.53	58.37	60.15	58.28	60.53	61.12	58.69	61.99	60.18	62.21	718.78
20 1980	62.13	58.01	61.85	59.67	61.53	59.50	61.55	65.39	73.77	81.89	89.79	71.70	806.79
21 1981	71.64	69.40	76.62	79.01	81.37	83.82	91.98	97.40	104.35	113.02	104.85	87.73	1061.18
22 1982	62.50	59.81	66.08	63.79	71.08	73.82	76.41	87.17	89.74	87.72	60.49	62.46	861.09
23 1983	62.34	56.17	62.02	59.82	61.62	59.30	61.39	61.43	59.56	61.80	60.15	62.25	728.05
24 1984	62.19	58.07	61.92	59.77	65.36	63.26	76.02	81.50	84.45	98.03	100.02	71.71	883.30
25 1985	62.47	56.35	62.24	63.75	65.71	66.72	76.39	81.91	84.71	98.19	74.59	62.49	857.56
26 1986	62.43	56.28	62.16	59.98	61.91	63.52	70.93	76.39	79.34	82.28	74.59	87.72	837.53
27 1987	62.47	56.33	62.23	60.05	61.87	59.73	61.66	61.75	59.94	62.04	60.05	62.03	730.14
28 1988	61.92	57.80	61.63	59.47	61.31	59.30	61.27	61.32	59.38	61.54	59.77	61.75	726.47
29 1989	61.67	55.60	61.42	59.30	61.20	59.23	61.28	61.59	60.01	62.28	60.34	62.51	722.23
30 1990	62.21	56.07	61.92	59.76	61.62	59.59	65.35	70.76	78.91	81.96	89.89	64.27	812.32
TOTAL	1846.1	1694.8	1914.9	1863.9	1940.0	1914.2	2019.1	2085.8	2102.4	2237.1	2057.0	1942.4	23617.6
AVE	61.54	56.49	63.83	62.13	64.67	63.81	67.30	69.53	70.08	74.57	68.57	64.75	787.25
MAX	82.27	78.90	87.04	83.89	91.54	93.54	97.23	107.42	109.56	123.56	104.85	87.73	1126.61
MIN	27.94	16.89	34.32	37.85	59.56	57.59	59.42	57.59	58.31	60.54	49.62	33.64	613.55

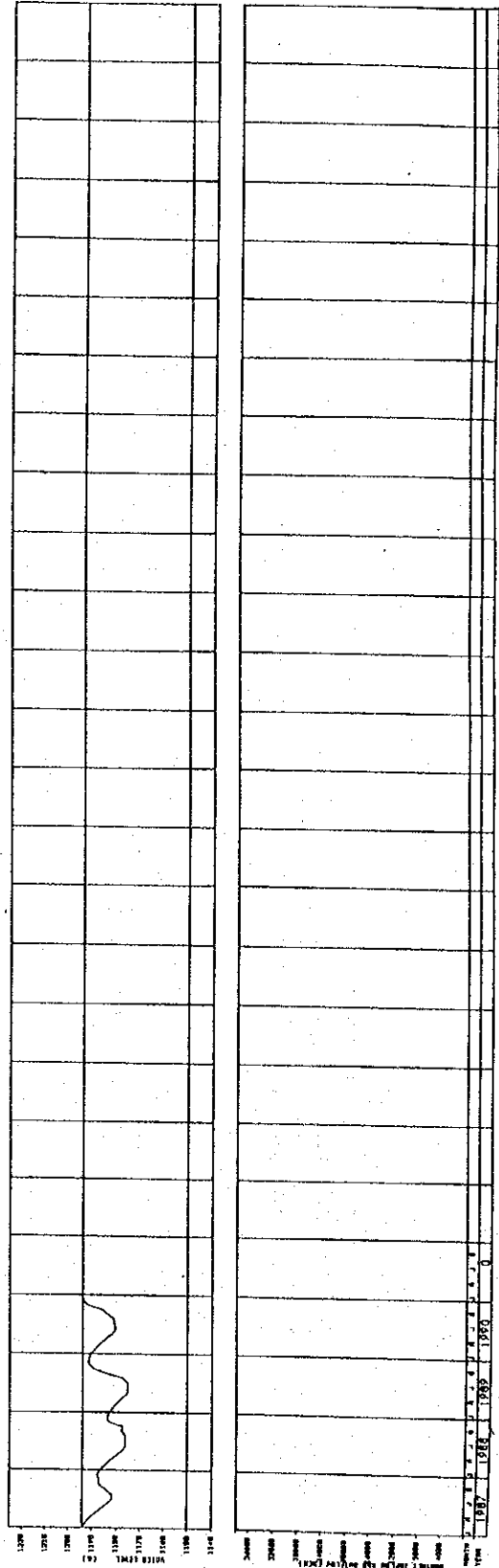
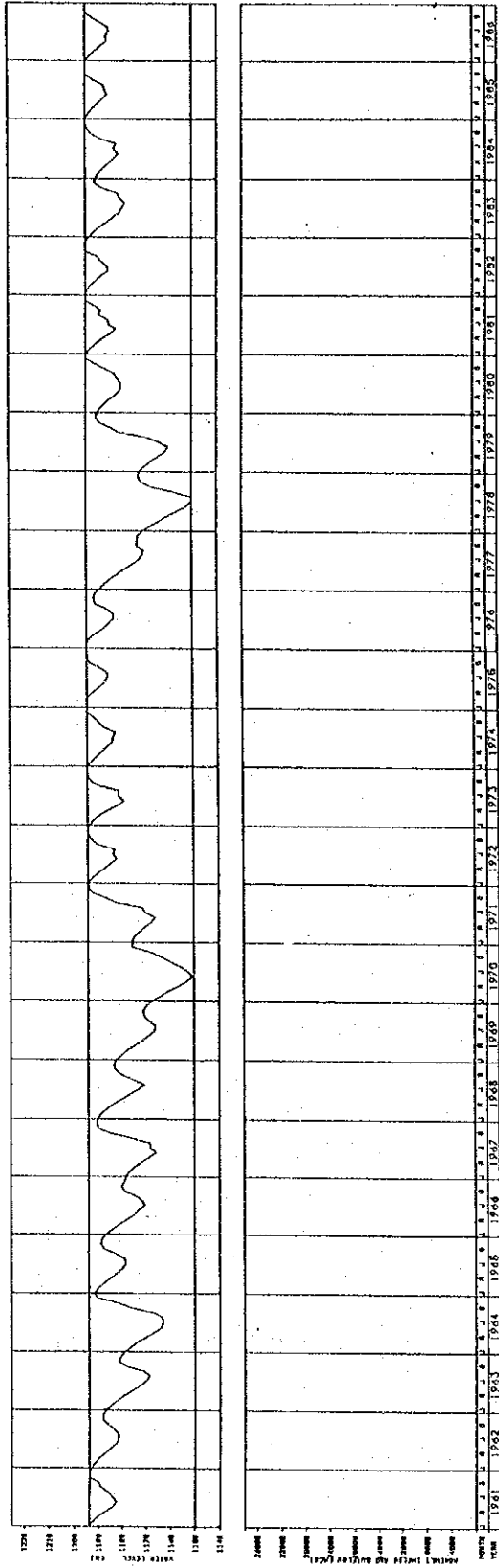
Result of Monthly Capacity  
(The Sesan river system case-3 Thuong Kontum - project)

NO. YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1 1961	103.54	103.34	110.17	109.78	109.46	123.49	130.69	137.97	145.20	159.18	131.99	83.98	1448.79
2 1962	83.88	83.74	83.54	83.31	83.08	82.91	82.86	82.96	83.17	83.40	83.50	83.42	999.76
3 1963	83.24	83.02	82.76	82.47	82.16	81.89	81.70	81.70	81.90	82.62	81.80	82.68	989.56
4 1964	82.47	82.22	81.93	81.60	81.31	81.14	81.13	81.28	81.90	82.62	83.28	83.77	984.64
5 1965	83.75	83.56	83.32	83.05	82.81	82.63	82.58	82.76	83.18	83.50	83.54	83.44	998.11
6 1966	83.23	82.98	82.70	82.39	82.16	81.90	81.86	82.05	82.40	82.67	82.66	82.58	989.62
7 1967	82.49	82.23	82.08	81.78	81.51	81.50	81.56	81.97	82.40	83.11	83.68	83.69	988.80
8 1968	83.61	83.42	83.17	82.86	82.54	82.22	81.92	82.02	82.48	82.84	82.99	82.97	993.04
9 1969	82.80	82.57	82.31	82.02	81.75	81.51	81.40	81.52	81.73	81.83	81.77	81.60	982.34
10 1970	81.33	81.02	80.70	80.34	80.05	81.57	81.82	83.38	83.14	83.42	83.91	89.10	994.90
11 1971	82.24	82.11	81.90	81.66	81.46	81.57	81.82	83.38	83.14	83.42	83.91	89.10	994.90
12 1972	96.29	96.09	95.81	95.50	102.33	109.37	118.46	133.91	138.53	145.73	110.77	110.72	1341.51
13 1973	110.58	117.41	116.99	116.51	123.03	129.91	130.06	144.38	152.17	166.07	132.01	103.61	1542.74
14 1974	83.95	83.78	83.58	83.36	83.15	83.03	82.96	83.14	83.36	83.71	83.98	84.22	1028.45
15 1975	80.70	79.13	78.75	83.70	83.46	83.28	83.21	83.36	83.71	83.98	88.91	45.22	837.41
16 1976	37.55	59.41	83.77	83.50	83.25	83.05	82.98	83.11	83.46	83.73	83.74	83.63	931.18
17 1977	83.43	83.21	82.96	82.69	82.40	82.12	81.89	81.77	81.89	82.01	81.99	81.87	988.23
18 1978	81.61	81.31	80.98	80.63	80.28	79.98	79.86	80.26	81.07	81.47	81.90	81.93	971.47
19 1979	81.61	81.62	81.36	81.07	80.85	80.94	81.36	82.15	82.91	83.32	83.58	83.61	984.59
20 1980	83.51	83.34	83.13	82.88	82.70	82.64	82.72	87.89	102.46	110.06	124.71	96.38	1102.43
21 1981	96.29	103.28	103.98	109.74	109.36	116.42	123.63	130.91	144.93	151.91	145.63	117.91	1452.99
22 1982	84.01	89.01	88.82	88.60	95.24	102.53	102.70	117.17	124.64	117.91	84.02	83.95	1178.89
23 1983	83.79	83.59	83.35	83.08	82.83	82.64	82.52	82.57	82.72	83.07	83.54	83.67	997.57
24 1984	83.59	83.43	83.23	83.02	82.85	82.85	102.18	109.34	117.29	131.76	138.92	96.39	1205.04
25 1985	83.97	83.85	83.68	88.55	88.32	93.45	102.68	110.09	117.65	131.98	103.60	84.00	1173.83
26 1986	83.91	83.75	83.55	83.31	83.11	82.92	95.34	102.67	110.20	110.59	103.60	117.90	1146.25
27 1987	83.96	83.83	83.64	83.40	83.16	82.95	82.87	82.99	83.25	83.38	83.40	83.37	1000.22
28 1988	83.23	83.04	82.85	82.60	82.41	82.36	82.36	82.42	82.48	82.72	83.01	83.00	992.45
29 1989	82.89	82.74	82.56	82.37	82.26	82.26	82.36	82.78	83.35	83.71	83.80	83.75	994.82
30 1990	83.62	83.44	83.23	83.00	82.82	82.77	87.83	95.10	109.60	110.16	124.85	86.39	1112.81
TOTAL	2481.27	2501.56	2573.75	2588.76	2607.48	2658.59	2713.79	2803.48	2920.04	3006.91	2856.97	2610.81	32323.37
AVE	82.71	83.39	85.79	86.29	86.92	88.62	90.46	93.45	97.33	100.23	95.23	87.03	1077.45
MAX	110.58	117.41	116.99	116.51	123.03	129.91	130.06	144.38	152.17	166.07	145.63	117.91	1542.74
MIN	37.55	25.13	72.75	80.34	80.05	79.98	79.86	80.26	80.98	81.38	88.91	45.22	837.41

\* MONTHLY PEAK POWER (MW) \*



Result of Reservoir Operation  
 (The Sesan river system case-3 Thuong Kontum - project)



Result of Monthly Energy Calculation  
(The Sesan river system case-3 Yaly - project)

NO. YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	289.95	203.89	278.48	346.19	441.83	451.73	477.05	501.94	488.41	504.69	455.22	238.61	4675.99
2	214.71	192.54	210.14	201.00	206.56	200.82	210.44	225.48	376.16	401.03	248.51	214.69	3021.79
3	196.3	212.4	207.95	198.67	202.07	193.97	203.20	253.32	49.76	412.64	256.00	238.65	3016.01
4	196.4	214.38	200.05	203.80	209.34	249.07	391.16	464.47	488.41	504.69	488.41	401.00	3999.03
5	186.5	214.15	209.45	201.28	206.67	200.52	235.94	373.13	476.07	364.70	243.57	214.51	3188.80
6	186.6	213.69	191.20	200.80	206.81	199.97	209.27	373.19	431.45	339.85	343.37	277.13	3096.04
7	186.7	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
8	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
9	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
10	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
11	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
12	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
13	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
14	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
15	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
16	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
17	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
18	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
19	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
20	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
21	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
22	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
23	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
24	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
25	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
26	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
27	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
28	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
29	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
30	186.8	211.47	194.09	208.15	247.19	356.66	445.99	477.92	488.41	504.69	352.97	269.12	4008.90
TOTAL	4908.8	5777.2	6510.1	6784.9	7780.9	8739.5	10255.5	12205.7	13124.0	13092.7	10859.9	8486.1	11025.1
AVE	230.9	192.57	217.00	226.16	259.36	291.32	341.85	406.86	437.47	436.42	362.00	282.87	3684.17
MAX	502.51	250.41	313.81	368.29	449.19	470.01	479.24	504.69	488.41	504.69	488.41	436.07	4935.18
MIN	111.87	82.89	111.58	187.64	191.02	184.20	190.95	195.32	198.48	212.95	224.16	160.20	2182.33

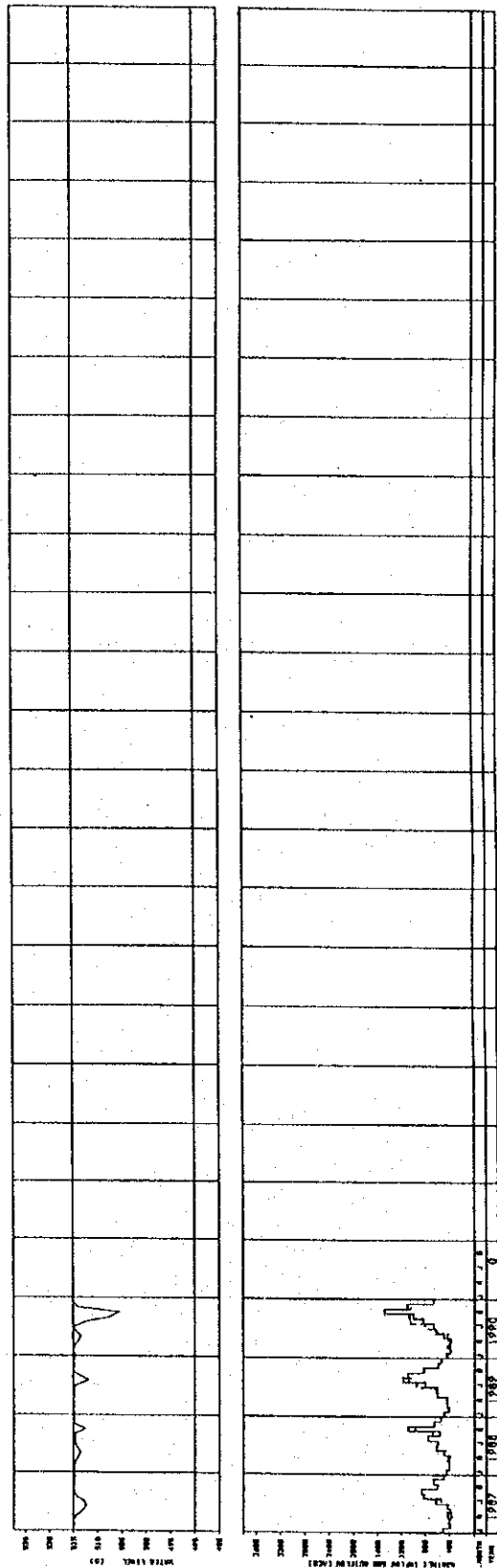
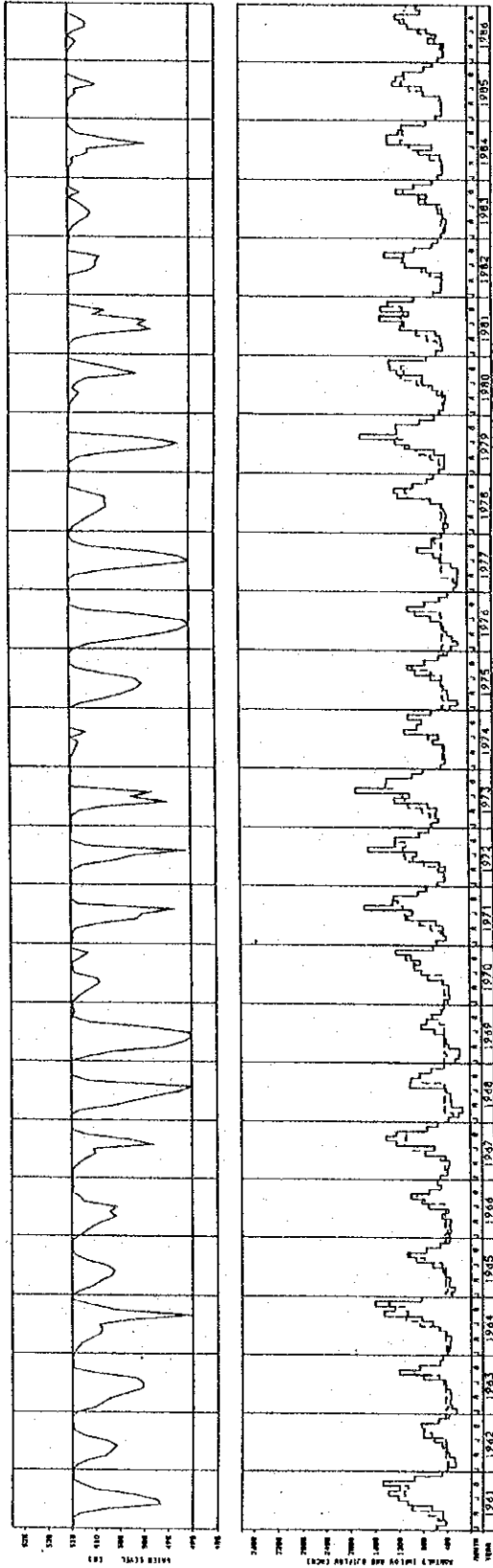
Result of Monthly Capacity  
(The Sesan river system case-3 Yaly - project)

\* MONTHLY PEAK POWER (MW) \*

NO. YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1 1961	389.72	303.40	371.62	480.82	593.86	627.41	641.19	674.65	678.35	678.35	632.26	320.71	6332.32
2 1962	288.59	286.52	282.45	279.17	277.63	278.50	283.85	437.48	522.44	539.02	372.93	289.57	4136.14
3 1963	285.40	281.94	279.50	275.93	271.60	269.40	270.43	340.48	624.66	554.62	355.55	370.76	4130.27
4 1964	288.42	287.63	285.66	283.06	281.36	345.93	531.12	624.25	633.26	678.35	678.35	578.98	5456.18
5 1965	287.84	284.82	282.06	279.52	277.97	278.51	333.09	501.52	681.21	490.19	338.50	288.32	4283.19
6 1966	286.42	284.52	282.15	278.89	277.87	277.74	281.27	501.59	599.24	450.79	338.01	372.49	4237.07
7 1967	338.00	288.82	287.97	286.32	332.24	495.35	599.45	642.36	678.35	678.35	490.23	361.72	5479.17
8 1968	241.18	206.50	282.02	274.45	268.81	262.25	257.03	270.02	533.93	538.71	441.29	288.92	3855.22
9 1969	287.00	281.00	270.17	260.41	256.75	255.83	262.13	275.94	439.85	439.85	320.32	288.87	3550.86
10 1970	288.38	284.70	284.84	282.62	281.88	318.81	511.80	585.80	616.47	668.38	678.35	606.88	5216.71
11 1971	372.45	288.86	320.11	434.04	514.45	645.93	686.21	659.88	678.35	678.35	570.90	473.63	6233.17
12 1972	338.19	289.27	288.99	333.03	476.37	652.80	623.46	649.14	678.35	678.35	554.87	440.18	6022.99
13 1973	406.60	372.65	421.79	511.51	603.75	634.89	642.77	675.66	678.35	678.35	632.25	490.09	6748.62
14 1974	303.64	289.13	288.53	287.89	287.28	336.86	436.92	566.14	570.79	506.72	662.69	407.02	4943.59
15 1975	287.73	282.62	276.74	272.37	269.69	270.01	275.36	398.78	615.37	473.93	331.68	265.04	4019.34
16 1976	285.72	278.84	269.24	261.38	256.80	256.34	263.47	291.27	366.85	473.46	311.33	215.33	3730.03
17 1977	150.36	123.34	149.70	283.93	273.29	261.07	256.65	262.53	275.64	286.23	371.99	288.92	2823.65
18 1978	288.21	284.66	284.49	282.11	279.81	278.92	392.36	615.54	671.59	586.35	457.27	389.64	4812.95
19 1979	303.31	289.06	319.43	414.34	519.66	612.86	618.90	676.84	678.35	678.35	539.02	372.75	6022.86
20 1980	320.78	288.80	288.17	287.07	287.40	438.05	670.91	674.01	657.07	678.35	678.35	457.39	5603.35
21 1981	355.57	303.44	337.27	449.40	521.17	638.12	640.47	664.80	678.35	678.35	678.35	586.11	6234.40
22 1982	372.58	303.41	389.00	402.81	402.81	494.93	644.14	678.35	678.35	570.90	406.69	320.55	5450.76
23 1983	288.90	288.40	287.11	285.14	283.50	283.81	285.65	455.07	535.77	672.72	585.82	389.57	4441.47
24 1984	320.65	288.94	288.45	288.03	402.13	528.47	587.47	657.59	678.35	678.35	678.35	457.12	5853.64
25 1985	338.18	303.60	289.10	288.81	336.86	486.67	606.02	676.73	672.33	662.43	490.21	372.75	5233.68
26 1986	321.00	289.03	288.60	287.33	356.04	388.94	517.02	621.27	667.43	673.46	522.71	338.80	5469.64
27 1987	358.34	286.20	288.88	287.84	286.57	286.22	353.47	521.97	570.41	389.90	457.00	320.74	4390.54
28 1988	303.43	288.91	288.53	287.87	302.16	405.92	389.32	489.54	554.26	613.51	440.11	355.55	4618.61
29 1989	320.85	303.41	289.11	303.37	389.67	423.33	596.70	670.09	660.73	538.77	389.71	355.34	5641.06
30 1990	289.00	289.03	288.49	287.67	287.88	406.42	519.70	646.31	662.82	678.35	678.35	433.49	5467.50
TOTAL	9285.99	8528.21	8750.13	9423.53	10458.18	13138.25	13784.23	16405.55	18227.77	17597.68	15083.22	11406.07	151038.62
AVE	309.53	284.27	291.67	314.12	348.61	404.61	459.47	546.85	607.59	586.99	502.77	380.20	5036.29
MAX	406.60	372.63	421.79	511.51	603.75	652.80	644.14	678.35	678.35	678.35	678.35	586.11	6748.62
MIN	150.36	123.34	149.70	260.61	256.75	255.83	256.65	262.53	275.64	286.23	311.33	215.33	2823.65



Result of Reservoir Operation  
 (The Sesan river system case-3 Yaly - project)





Result of Monthly Energy Calculation  
(The Sesan river system case-4 Sesan3 - project)

\* MONTHLY TOTAL ENERGY (GWH) \*

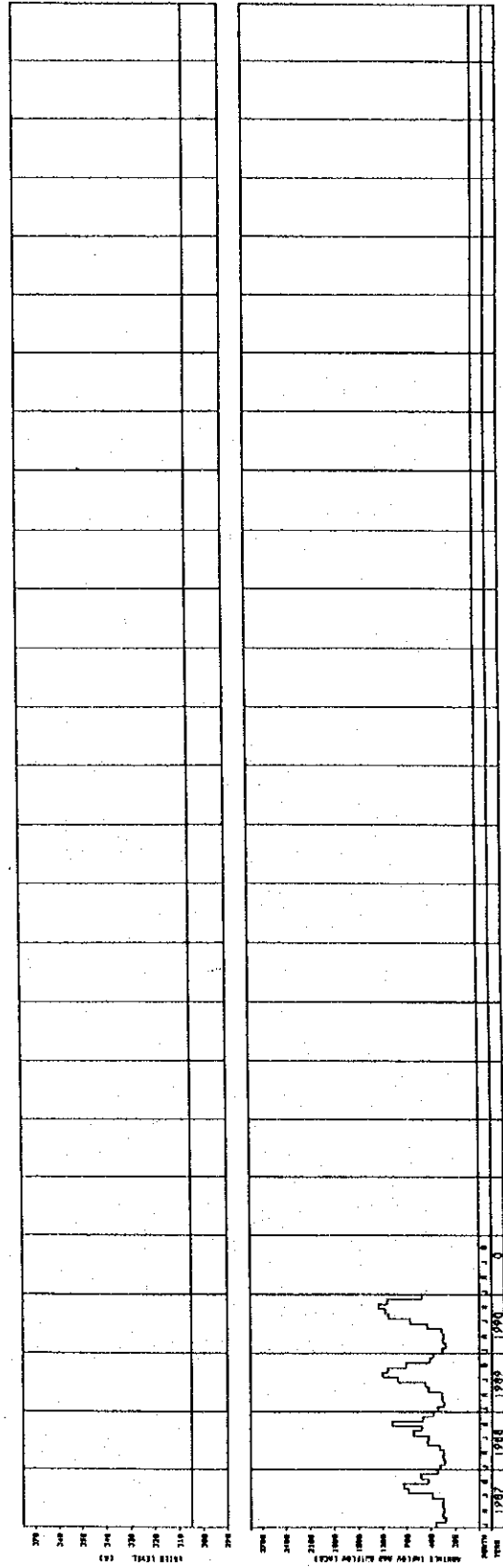
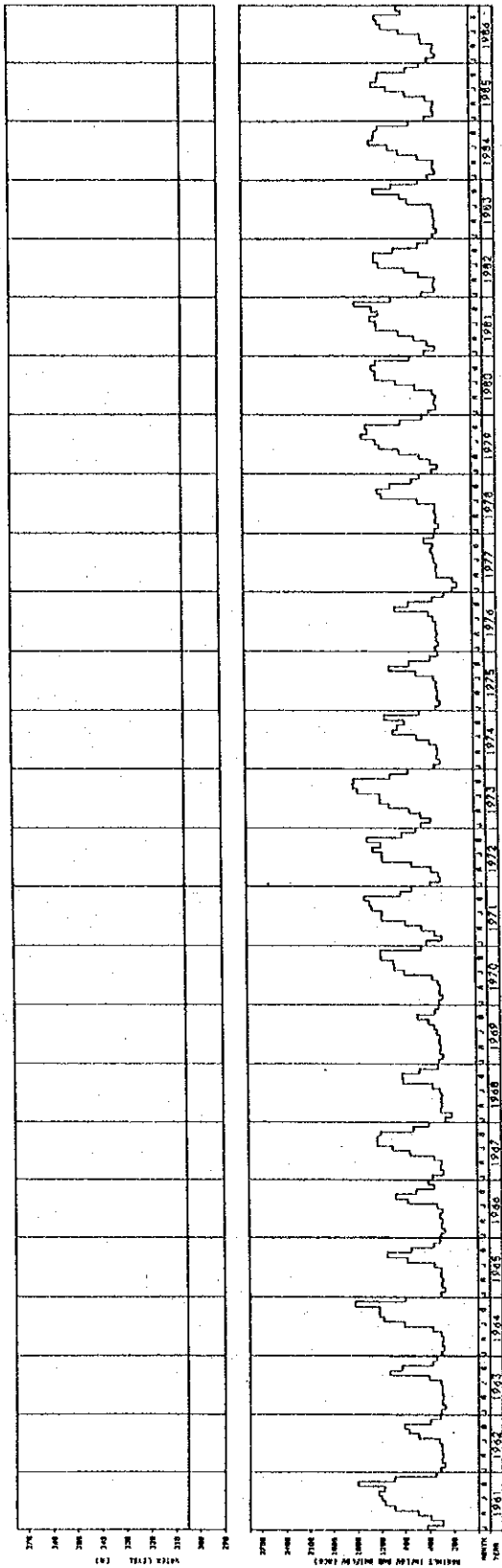
NO.	YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	1961	81.18	56.50	75.54	95.77	131.10	145.43	151.56	156.62	166.17	172.85	131.06	67.14	1410.91
2	1962	59.95	53.17	58.07	56.09	58.33	58.30	62.50	63.51	109.02	116.71	78.18	59.68	863.30
3	1963	58.49	52.94	57.45	55.26	57.26	56.96	59.57	78.68	138.43	119.94	71.49	65.67	871.44
4	1964	58.18	54.74	57.21	55.23	58.55	57.81	61.68	147.88	154.05	154.21	167.27	114.32	1208.91
5	1965	59.19	52.35	57.62	55.56	58.56	57.92	68.95	110.95	142.12	104.53	69.58	59.47	896.78
6	1966	57.68	51.93	57.20	55.25	59.64	58.96	63.96	109.30	128.41	96.91	67.78	77.60	881.63
7	1967	69.93	52.96	57.67	55.60	68.22	65.32	73.94	153.66	155.63	150.80	109.23	75.80	1179.56
8	1968	50.22	39.32	57.12	55.00	56.78	55.10	58.09	69.40	115.59	116.41	90.31	60.23	823.58
9	1969	58.48	52.94	57.59	55.74	58.23	57.16	61.91	65.94	127.75	128.75	148.19	85.26	758.20
10	1970	57.72	51.96	57.47	55.57	59.34	58.23	112.42	127.73	128.75	148.19	148.65	58.85	1101.30
11	1971	77.44	53.30	64.84	85.59	110.15	146.53	146.18	161.80	164.48	172.36	117.54	99.74	1399.75
12	1972	70.28	55.01	58.42	68.99	99.83	144.68	145.58	159.99	146.66	157.58	135.97	92.65	1323.74
13	1973	84.98	68.61	85.68	102.20	135.85	147.39	148.10	175.85	167.27	172.85	131.04	104.06	1518.87
14	1974	82.07	52.89	58.12	56.63	58.22	69.37	90.01	126.94	119.61	108.58	135.54	85.54	1027.51
15	1975	58.97	52.54	57.51	55.48	58.38	57.65	62.34	69.59	122.29	100.61	63.17	44.80	803.79
16	1976	58.74	53.97	57.39	55.37	58.20	57.40	62.24	69.59	122.29	100.61	63.17	44.80	803.79
17	1977	31.23	23.13	30.49	55.69	57.79	57.14	85.42	61.29	64.40	61.85	75.94	58.64	435.32
18	1978	57.89	51.69	57.33	55.55	57.79	57.14	85.42	61.29	64.40	61.85	75.94	58.64	435.32
19	1979	62.62	52.94	64.19	81.93	113.54	143.33	150.43	170.79	161.87	164.73	110.62	77.63	1354.46
20	1980	65.82	54.85	58.02	58.04	40.31	89.09	118.32	149.72	149.62	155.61	148.88	96.21	1202.50
21	1981	73.66	56.08	68.56	89.42	113.17	147.51	168.59	157.08	144.63	154.82	147.27	124.89	1445.68
22	1982	77.70	56.59	58.70	56.81	81.78	103.76	144.51	151.38	151.03	121.81	82.29	66.11	1151.78
23	1983	58.75	52.42	57.55	55.46	58.19	58.03	60.23	99.00	110.02	131.52	123.52	81.36	966.16
24	1984	66.10	55.00	58.10	57.03	82.42	112.45	128.25	157.54	150.35	148.91	144.46	96.19	1256.79
25	1985	70.14	56.13	58.33	56.80	66.85	101.36	130.89	153.62	144.22	142.96	100.10	78.21	1161.61
26	1986	65.86	52.94	58.03	56.04	75.76	77.84	109.93	138.52	144.27	148.32	107.04	114.55	1149.11
27	1987	69.79	53.27	58.19	55.92	57.91	57.38	75.35	112.72	119.76	81.68	85.54	66.26	901.78
28	1988	61.96	54.87	58.40	56.33	62.72	83.11	81.55	104.72	119.75	137.01	90.25	73.88	956.52
29	1989	66.06	55.87	59.01	59.80	81.83	85.97	128.62	151.40	142.94	115.82	79.12	73.50	1100.03
30	1990	59.18	52.89	58.22	56.25	59.92	83.27	109.78	142.31	146.49	157.45	143.42	91.20	1160.56
TOTAL		1910.1	1581.5	1778.2	1868.4	2216.2	2611.1	3072.4	3790.8	4015.0	3965.2	3179.7	2385.3	32373.7
AVE		63.67	52.72	59.27	62.28	73.87	87.04	102.41	126.36	133.83	132.57	105.99	79.51	1079.12
MAX		84.98	68.61	85.68	102.20	135.85	147.51	151.56	172.85	167.27	172.85	167.27	124.89	1518.87
MIN		31.23	23.13	30.49	55.60	56.78	55.10	58.09	61.29	64.40	61.85	63.17	44.80	635.32

Result of Monthly Capacity  
(The Sesan river system case-4 Sesan3 - project)

NO.	YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	1961	109.12	84.07	101.53	133.01	176.21	201.98	203.71	210.51	203.01	232.32	182.03	90.24	1927.75
2	1962	80.58	79.12	78.05	77.90	78.40	80.97	83.73	138.38	151.41	156.87	105.81	80.22	1181.43
3	1963	78.61	77.74	77.21	76.75	76.96	79.11	80.07	105.76	192.27	181.21	99.29	88.27	1193.25
4	1964	78.19	77.79	76.89	76.71	78.70	99.74	156.02	189.76	213.95	207.87	232.32	153.65	1649.99
5	1965	79.53	77.91	77.44	77.17	78.71	80.44	82.67	149.12	197.38	140.50	96.63	79.94	1227.46
6	1966	77.52	77.28	76.89	76.73	80.17	77.76	95.66	148.91	178.34	130.25	94.13	104.30	1206.24
7	1967	93.99	78.81	77.51	77.23	91.70	146.28	177.34	209.22	216.15	202.41	139.21	101.88	1611.73
8	1968	67.50	56.50	76.78	76.39	76.31	78.53	78.08	95.28	160.54	156.47	135.43	80.96	1124.77
9	1969	78.60	77.88	77.40	77.41	78.26	79.39	83.22	88.65	104.38	124.35	89.30	79.10	1037.93
10	1970	77.59	77.32	77.24	77.18	79.76	94.77	151.11	171.69	178.82	199.18	208.45	114.60	1505.69
11	1971	104.08	79.31	87.15	118.87	148.05	203.24	196.48	217.48	228.45	231.54	183.28	134.06	1912.08
12	1972	94.46	79.04	78.52	95.82	134.38	200.95	195.67	215.04	203.70	225.38	158.29	124.53	1805.58
13	1973	114.22	102.10	115.16	141.94	179.91	204.70	199.06	232.32	232.32	232.32	182.00	139.86	2075.92
14	1974	83.42	78.70	78.11	78.65	78.95	96.35	120.98	170.82	168.12	145.94	173.81	114.97	1405.93
15	1975	79.26	77.74	77.30	77.05	78.47	80.07	83.82	141.89	183.39	135.48	93.24	73.51	1160.65
16	1976	78.95	77.95	77.13	76.91	78.23	79.72	83.66	93.54	169.85	135.23	87.74	60.22	1098.72
17	1977	41.98	34.42	40.98	77.34	77.33	77.62	79.89	82.38	89.44	82.87	105.48	78.82	868.54
18	1978	77.82	76.93	77.06	77.15	77.87	79.36	114.82	180.36	205.51	171.18	130.52	109.11	1387.47
19	1979	83.90	78.78	86.28	113.79	152.60	199.08	202.25	284.56	228.82	221.41	133.64	104.34	1850.44
20	1980	88.47	78.80	77.98	77.83	81.07	123.74	159.03	201.84	207.81	209.15	206.78	129.32	1641.22
21	1981	99.00	83.46	92.15	124.20	152.11	204.87	199.72	211.13	200.87	208.10	232.32	167.86	1973.78
22	1982	104.44	83.92	78.90	78.90	109.92	146.11	193.96	203.47	209.77	163.32	114.39	88.85	1573.86
23	1983	78.97	78.01	77.35	77.02	78.21	80.59	80.96	133.06	152.81	203.79	171.56	109.36	1321.69
24	1984	88.85	79.02	78.09	79.20	110.78	156.18	172.38	211.75	208.82	200.14	200.64	129.28	1715.15
25	1985	94.27	83.52	78.67	78.89	92.27	140.78	175.93	206.83	200.31	192.16	139.03	105.12	1587.42
26	1986	88.52	78.79	78.00	77.84	101.83	108.11	147.76	186.48	200.37	199.36	148.66	153.96	1569.39
27	1987	93.80	79.27	78.31	77.67	77.84	79.69	101.28	151.50	164.34	109.79	129.92	89.05	1234.37
28	1988	83.29	78.83	78.49	78.24	84.31	115.43	109.61	140.75	127.43	184.15	125.31	99.30	1505.14
29	1989	88.79	83.28	79.31	83.06	109.99	149.40	172.88	203.50	198.53	155.67	109.89	98.79	1503.08
30	1990	79.54	78.70	78.85	78.12	80.53	115.65	147.55	191.87	203.45	211.62	139.80	122.58	1586.48
TOTAL		2567.29	2334.57	2390.01	2594.99	2978.73	3626.59	4129.58	5095.17	5576.36	5729.50	4416.31	3206.05	44245.06
AVE		85.58	77.82	79.47	84.50	99.29	120.89	137.65	169.84	185.88	177.65	147.31	106.87	1474.84
MAX		114.22	102.10	115.16	141.94	179.91	204.87	203.71	232.32	232.32	232.32	232.32	167.86	2075.92
MIN		41.98	34.42	40.98	76.39	76.31	76.55	78.08	82.38	89.44	82.87	87.74	60.22	868.54



Result of Reservoir Operation  
 (The Sesan river system case-4 Sesan3 - project)



Result of Monthly Energy Calculation  
(The Sesan river system case-5 Sesan4 - project)

\* MONTHLY TOTAL ENERGY (GWH) \*

NO. YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1 1961	139.16	99.14	109.72	142.23	196.05	250.85	273.38	287.80	278.52	287.80	228.64	110.02	2403.32
2 1962	109.84	97.75	105.41	98.59	196.33	96.44	96.44	103.11	189.27	213.65	128.93	100.12	1333.39
3 1963	90.70	77.28	96.00	102.82	101.72	93.10	103.97	99.19	259.17	221.09	118.52	106.01	1533.14
4 1964	88.22	100.89	105.10	97.84	96.39	93.10	103.97	273.47	278.52	287.80	278.52	197.59	2000.80
5 1965	96.20	96.18	105.77	98.37	97.89	93.67	96.71	123.63	265.87	189.02	119.36	98.45	1487.79
6 1966	84.28	81.24	107.35	99.36	99.75	95.60	96.71	131.40	265.87	171.91	109.59	138.48	1449.33
7 1967	109.70	98.45	105.88	98.54	99.15	111.82	224.59	287.80	278.52	278.52	175.11	130.86	1995.26
8 1968	87.76	63.49	79.87	88.34	106.04	97.87	100.19	100.19	192.03	213.92	157.42	104.88	1388.50
9 1969	90.64	89.11	106.85	99.56	99.12	92.90	95.36	99.12	194.29	147.47	106.73	93.56	1224.87
10 1970	92.41	97.12	103.61	96.88	95.85	94.38	132.90	236.89	228.64	267.72	278.52	147.49	1869.60
11 1971	130.53	98.65	107.45	107.25	154.56	251.04	271.20	285.30	278.52	287.80	206.12	171.88	2350.31
12 1972	113.31	103.25	106.69	101.43	110.32	243.59	234.14	287.80	271.99	287.61	197.72	155.45	2332.31
13 1973	147.26	103.41	130.58	150.24	195.88	264.38	283.45	284.74	278.52	287.80	221.93	131.42	2528.72
14 1974	109.71	97.35	104.82	98.35	98.34	95.00	102.16	207.58	221.31	196.28	243.40	148.61	1722.92
15 1975	94.51	90.65	106.45	98.95	98.37	92.58	95.66	105.49	234.55	180.92	115.69	91.30	1404.91
16 1976	92.70	87.46	107.14	99.32	98.83	92.75	95.58	100.48	193.31	180.81	108.63	78.32	1335.52
17 1977	54.65	40.48	49.08	93.57	106.51	99.28	99.88	98.89	99.08	104.07	104.97	91.91	1044.17
18 1978	86.00	77.30	107.75	100.82	99.42	92.92	98.03	224.33	226.32	228.70	167.28	139.15	1497.20
19 1979	109.68	97.54	105.56	101.89	136.33	256.23	287.04	287.80	278.52	287.80	190.56	130.37	2699.32
20 1980	110.10	101.68	105.71	98.83	99.87	99.59	177.59	256.94	273.04	282.14	278.52	172.12	2036.12
21 1981	121.55	98.50	108.12	116.89	163.85	265.44	228.70	263.99	277.20	212.86	136.25	109.42	2446.85
22 1982	130.78	99.31	108.26	102.24	105.08	147.76	228.70	263.99	277.20	212.86	136.25	109.42	1951.92
23 1983	92.80	87.95	106.03	99.80	99.00	93.34	95.24	101.15	184.85	287.80	229.17	138.94	1596.98
24 1984	110.05	101.85	107.11	99.84	103.06	162.18	210.38	287.80	278.52	287.80	229.17	138.94	2138.78
25 1985	113.66	99.18	107.85	101.74	103.54	130.44	220.99	281.51	265.43	244.12	174.70	130.47	1873.42
26 1986	110.20	98.31	105.92	99.06	102.84	103.28	170.87	252.07	265.07	266.42	182.61	197.31	1954.33
27 1987	118.35	99.49	106.40	99.37	99.04	92.76	97.03	131.98	220.49	138.43	158.85	110.39	1471.78
28 1988	109.65	100.73	104.88	98.40	99.62	99.11	107.85	188.45	150.30	259.04	159.16	122.24	1599.43
29 1989	110.31	98.94	107.75	102.32	107.25	142.41	221.37	287.80	272.48	205.12	134.79	122.24	1912.78
30 1990	109.43	96.81	104.26	97.62	98.43	100.49	135.23	244.44	269.43	287.80	257.54	153.50	1955.22
TOTAL	3163.7	2775.5	3123.4	3088.6	3370.5	4039.4	4845.6	6189.4	7110.9	7054.5	5497.9	4049.4	54308.5
AVE	105.46	92.52	104.11	102.95	112.35	134.65	161.52	206.31	237.03	235.15	183.26	134.98	1810.28
MAX	147.26	102.41	130.58	150.24	195.85	265.44	287.80	287.80	278.52	287.80	278.52	213.33	2528.32
MIN	54.65	40.48	49.08	88.34	93.85	92.40	95.24	98.89	99.08	104.07	104.97	78.32	1044.17

Result of Monthly Capacity  
(The Sesan river system case-5 Sesan4 - project)

NO. YEAR	< JAN >	< FEB >	< MAR >	< APR >	< MAY >	< JUN >	< JUL >	< AUG >	< SEP >	< OCT >	< NOV >	< DEC >	< TOTAL >
1	187.04	147.54	147.48	197.55	263.51	348.40	367.45	386.83	386.83	386.83	317.55	147.88	3284.88
2	17.64	145.46	141.68	136.93	132.16	129.09	128.62	133.32	338.29	297.17	164.62	136.57	1933.51
3	181.91	114.99	129.03	142.80	129.16	131.92	128.62	133.32	338.29	297.17	164.62	136.57	1933.51
4	188.58	118.58	141.26	135.06	129.16	129.31	135.75	367.56	386.83	386.83	386.83	265.57	2732.09
5	189.30	143.13	142.16	136.42	131.57	128.33	128.81	177.01	369.25	254.06	165.78	132.33	2039.38
6	186.67	135.28	120.90	144.39	134.04	130.09	130.03	166.17	337.70	337.06	152.21	186.13	1984.19
7	177.85	146.51	142.31	138.86	133.27	155.31	130.84	386.83	336.83	369.43	243.21	175.88	2735.74
8	187.93	189.79	107.36	142.69	142.53	135.93	129.97	134.66	289.49	288.19	218.63	140.97	1896.45
9	181.83	132.61	143.62	148.28	133.22	129.03	128.17	133.44	142.06	200.90	148.24	125.76	1677.13
10	170.70	144.52	139.25	133.44	128.84	131.09	178.63	318.40	317.56	357.14	386.83	198.24	2588.14
11	171.44	146.81	144.42	148.94	207.74	348.67	364.52	383.47	386.83	386.83	286.27	231.03	3310.99
12	173.30	146.91	143.41	140.87	148.28	338.33	341.59	386.83	377.76	386.83	274.61	208.94	3046.40
13	197.33	152.40	175.52	208.67	263.28	367.19	400.98	382.72	386.83	386.83	308.24	233.44	3454.03
14	177.46	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
15	175.59	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
16	175.59	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
17	175.59	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
18	175.59	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
19	175.59	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
20	175.59	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
21	175.59	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
22	175.59	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
23	175.59	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
24	175.59	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
25	175.59	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
26	175.59	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
27	175.59	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
28	175.59	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
29	175.59	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
30	175.59	144.87	140.88	136.60	132.18	131.95	137.31	279.01	397.38	283.81	338.05	199.75	2559.26
TOTAL	4252.31	4096.52	4198.06	4289.41	4530.18	5610.29	6512.86	8319.07	9876.29	9481.78	7635.96	5442.79	74245.50
AVE	141.74	136.55	139.94	142.98	151.01	187.01	217.10	277.30	329.21	316.06	254.53	181.43	2474.85
MAX	197.93	182.40	175.52	208.67	283.51	368.67	385.81	386.83	386.83	386.83	386.83	287.01	3454.03
MIN	73.45	60.24	65.97	122.69	138.84	138.33	128.01	132.92	137.61	142.56	145.79	105.27	1427.07