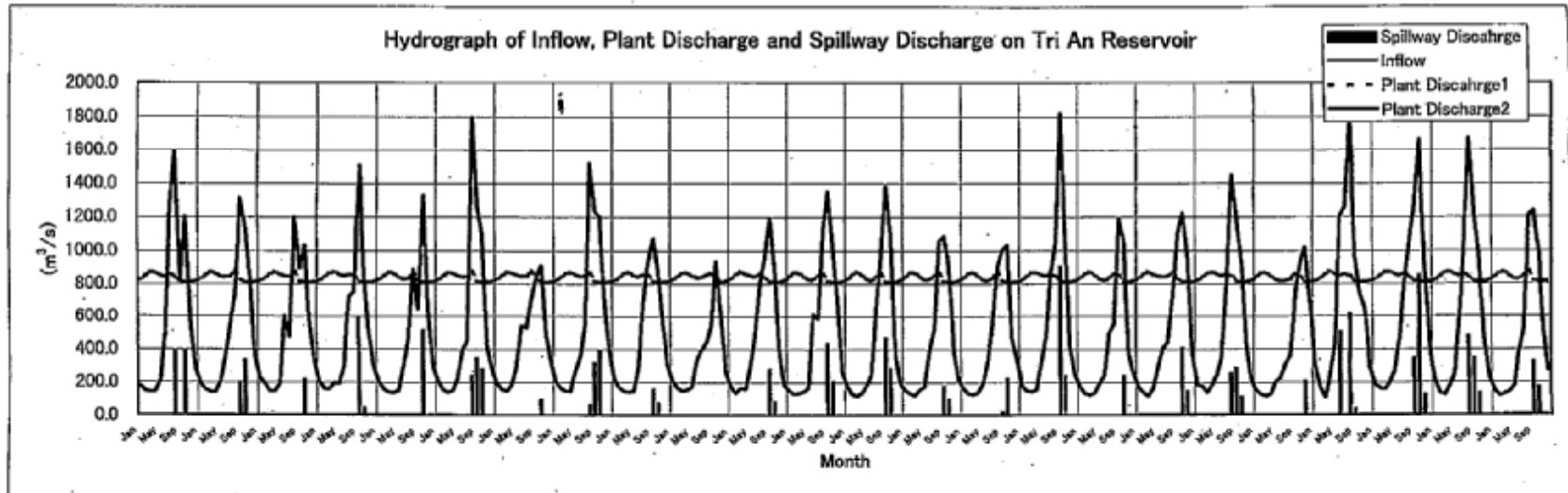
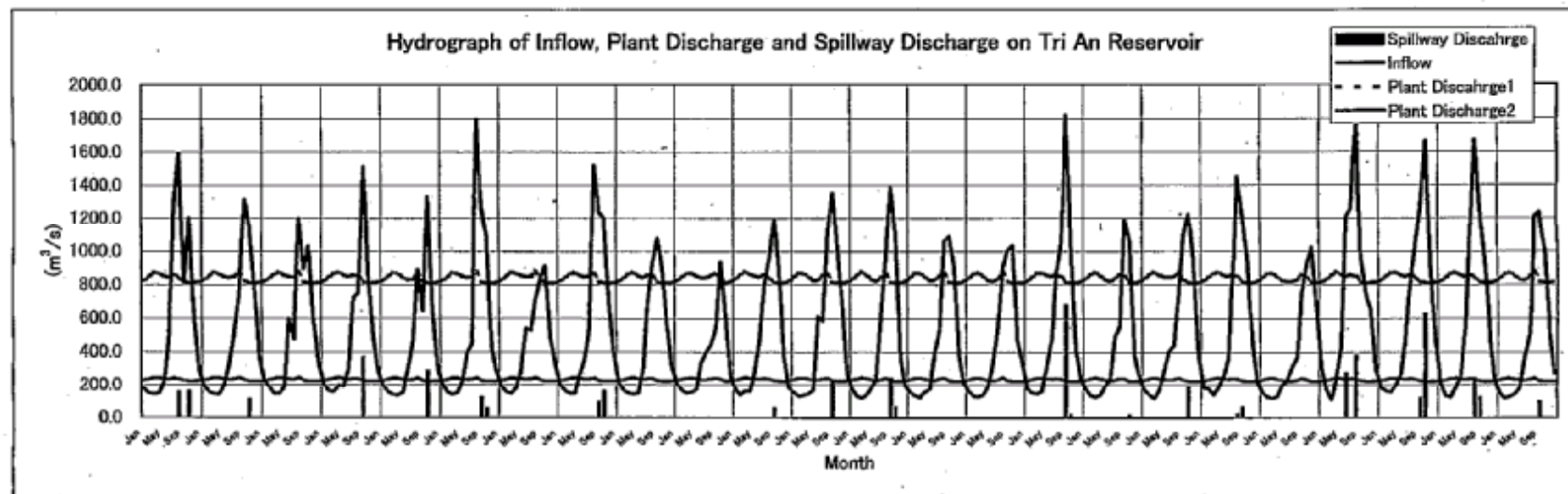


Differential Mass Curve Calculated by Reservoir Operation Study with 95% Firm Discharge



(1) Without Extension Project



(2) With Extension Project

Reduction of Spillway Discharge Estimated by Reservoir Operation Study for the period from 1979 to 2002

添付資料 6-1

需給運用シミュレーション結果

添付資料 6-1: 需給運用シミュレーション結果

- 1 IE Demand (Revised 5th M/P)
 - 1.1 Original (2020)
 - 1.2 Interconnection;1,300MW (2015)
 - 1.3 Interconnection;1,300MW PSPP;750MW in N (2020)

- 2 Peak Shift Demand
 - 2.1 Interconnection; 1,300MW (2015)
 - 2.2 Interconnection; 1,300MW (2020)
 - 2.3 Interconnection; 1,300MW No Import (2015)
 - 2.4 Interconnection; 1,300MW Fuel price×2 (2015)
 - 2.5 Interconnection; 1,300MW Fuel price×2 (2020)
 - 2.6 Interconnection; 1,300MW PSPP;2000MW in C&S (2015)
 - 2.7 Interconnection; 1,300MW Gas;1500MW in C& S (2015)
 - 2.8 Interconnection; 1,300MW PSPP;750MW in N (2015)
 - 2.9 Interconnection; 1,300MW PSPP;750MW in N (2020)
 - 2.10 Interconnection; 1,300MW PSPP;750MW in N(2020) Cool;3000MW in C & S

1.1 IE Demand (revised 5th M/P) Original 2020

TABLE 1-1-1 kW BALANCE (MARGINAL OPERATION)
(WHOLE)

| FY. 2020 | | | | | | | | | | | | | | (MW) |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|------|
| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL | |
| DEMAND | 28,287 | 27,853 | 28,884 | 30,049 | 30,457 | 29,804 | 29,767 | 30,051 | 30,294 | 31,821 | 32,259 | 32,606 | 362,132 | |
| PURCHASE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| OTHERS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| HYDRO A | 1,020 | 1,013 | 986 | 997 | 996 | 1,140 | 1,140 | 1,140 | 1,088 | 1,140 | 1,140 | 1,050 | 12,847 | |
| AB | 13,141 | 13,162 | 12,423 | 12,739 | 12,339 | 15,066 | 15,829 | 15,980 | 16,384 | 16,949 | 14,786 | 16,126 | 174,924 | |
| PA | 322 | 289 | 398 | 429 | 500 | 500 | 614 | 1,000 | 518 | 1,000 | 1,000 | 399 | 6,969 | |
| PB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| HYDRO TOTAL | 14,482 | 14,464 | 13,807 | 14,166 | 13,835 | 16,706 | 17,583 | 18,120 | 17,990 | 19,089 | 16,926 | 17,574 | 194,741 | |
| THERMAL,NUCLEAR. | 23,272 | 23,272 | 23,272 | 23,272 | 23,272 | 23,272 | 23,272 | 23,272 | 23,272 | 23,272 | 23,272 | 23,272 | 279,260 | |
| SUPPLY CAPACITY | 37,754 | 37,735 | 37,079 | 37,438 | 37,107 | 39,978 | 40,854 | 41,392 | 41,262 | 42,360 | 40,197 | 40,846 | 474,001 | |
| MAINTENANCE | 4,002 | 4,501 | 2,614 | 1,583 | 766 | 4,415 | 5,337 | 5,535 | 5,115 | 4,392 | 1,706 | 1,941 | 41,907 | |
| RESERVE CAPACITY | 5,465 | 5,381 | 5,580 | 5,805 | 5,884 | 5,758 | 5,751 | 5,806 | 5,853 | 6,148 | 6,232 | 6,299 | 69,962 | |
| RESERVE RATE (%) | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | |
| (REFERENCE) MAINTENANCE | 3,675 | 4,179 | 2,280 | 1,235 | 413 | 4,071 | 4,992 | 5,187 | 4,765 | 4,023 | 1,333 | 1,563 | 37,716 | |

TABLE 1-1-2 kWh BALANCE (ECONOMIC OPERATION)
(WHOLE)

| FY. 2020 | | | | | | | | | | | | | | TOTAL | INS.CAP | AVAIL.F |
|--------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|---------|
| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | (GWH) | (MW) | (%) | |
| DEMAND | 16,190 | 13,942 | 16,649 | 16,899 | 17,607 | 17,150 | 17,782 | 17,473 | 16,608 | 17,178 | 16,439 | 17,451 | 201,367 | 0 | 0 | |
| PURCHASE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| OTHERS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| CONVEN HYDRO | 5,221 | 4,870 | 5,036 | 4,930 | 5,105 | 7,992 | 9,103 | 10,273 | 7,975 | 8,454 | 6,983 | 5,979 | 81,922 | 19,196 | 49 | |
| PUMPED HYDRO | 84 | 90 | 30 | 5 | 136 | 127 | 82 | 113 | 77 | 12 | 13 | 58 | 826 | 1,000 | 9 | |
| NUCLEAR | 1,006 | 858 | 1,161 | 1,235 | 1,368 | 931 | 860 | 838 | 857 | 967 | 1,225 | 1,240 | 12,547 | 2,000 | 72 | |
| GAS ST | 1,124 | 990 | 1,113 | 1,094 | 1,159 | 1,027 | 983 | 661 | 984 | 770 | 999 | 1,124 | 12,027 | 2,040 | 67 | |
| GAS C/C | 4,472 | 3,373 | 4,668 | 4,912 | 4,961 | 3,067 | 2,730 | 1,789 | 2,776 | 2,652 | 2,525 | 4,249 | 42,173 | 9,987 | 48 | |
| GAS GT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 527 | 0 | |
| OIL ST | 375 | 335 | 396 | 392 | 435 | 361 | 357 | 355 | 348 | 379 | 392 | 460 | 4,586 | 1,173 | 45 | |
| OIL GT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 263 | 0 | |
| DIESEL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 232 | 0 | |
| COAL ST | 4,028 | 3,553 | 4,289 | 4,338 | 4,636 | 3,827 | 3,782 | 3,605 | 3,701 | 3,963 | 4,322 | 4,422 | 48,467 | 7,050 | 78 | |
| GENE TOTAL. | 16,311 | 14,071 | 16,692 | 16,906 | 17,800 | 17,331 | 17,899 | 17,634 | 16,717 | 17,195 | 16,458 | 17,534 | 202,548 | 43,467 | 53 | |
| OVER_FLOW | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | |
| SHORTAGE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| PUMPING UP | -120 | -129 | -43 | -7 | -194 | -182 | -117 | -161 | -110 | -17 | -19 | -83 | -1,180 | 0 | 0 | |

**TABLE 1-1-3 FUEL CONSUMPTION
(WHOLE)**

FY. 2020

(UNIT 10*6)

| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
|-------------------------|--------------|--------------|--------------|----------------|----------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|------------------|
| GAS ST (EQUIVALENT) | 359 362 | 317 320 | 362 366 | 358 362 | 379 383 | 334 337 | 327 330 | 266 269 | 323 326 | 291 294 | 340 343 | 368 371 | 4,025 4,062 |
| GAS C/C (EQUIVALENT) | 794 801 | 597 603 | 833 840 | 870 878 | 874 882 | 542 547 | 484 488 | 329 332 | 491 495 | 475 479 | 450 454 | 755 761 | 7,494 7,562 |
| GAS GT (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| OIL ST (EQUIVALENT) | 114 114 | 102 102 | 121 121 | 119 119 | 132 132 | 110 110 | 109 109 | 108 108 | 106 106 | 115 115 | 119 119 | 139 139 | 1,393 1,393 |
| OIL GT (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| DIESEL (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| COAL ST (EQUIVALENT) | 1,688 937 | 1,489 826 | 1,797 998 | 1,819 1,010 | 1,944 1,079 | 1,603 890 | 1,584 879 | 1,513 840 | 1,550 860 | 1,660 922 | 1,812 1,005 | 1,854 1,029 | 20,314 11,274 |
| (EQUIV.TOTAL) | 2,214 | 1,851 | 2,325 | 2,369 | 2,476 | 1,884 | 1,806 | 1,549 | 1,787 | 1,810 | 1,921 | 2,300 | 24,291 |

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

**TABLE 1-1-4 ECONOMIC EVALUATION-1
(WHOLE)**

FY. 2020

| | ENERGY (GWH) | FIXED COST | | FUEL COST | | PURCHASE MERIT | | TOTAL COST | |
|------------------|-----------------|------------|------------|------------|------------|----------------|------------|------------|------------|
| | | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) |
| OTHERS | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| CONVEN HYDRO | 81,922 | 300,622 | 3.7 | 0 | 0.0 | | | 300,622 | 3.7 |
| PUMPED HYDRO | 826 | 6,955 | 8.4 | 0 | 0.0 | | | 6,955 | 8.4 |
| NUCLEAR | 12,547 | 58,520 | 4.7 | 13,145 | 1.0 | | | 71,665 | 5.7 |
| GAS ST | 12,027 | 23,873 | 2.0 | 76,678 | 6.4 | | | 100,551 | 8.4 |
| GAS C/C | 42,173 | 97,343 | 2.3 | 142,769 | 3.4 | | | 240,112 | 5.7 |
| GAS GT | 0 | 3,603 | 0.0 | 0 | 0.0 | | | 3,603 | 0.0 |
| OIL ST | 4,586 | 14,855 | 3.2 | 27,535 | 6.0 | | | 42,390 | 9.2 |
| OIL GT | 0 | 1,800 | 0.0 | 2 | 0.0 | | | 1,802 | 0.0 |
| DIESEL | 0 | 3,227 | 0.0 | 8 | 0.0 | | | 3,235 | 0.0 |
| COAL ST | 48,467 | 106,343 | 2.2 | 74,187 | 1.5 | | | 180,530 | 3.7 |
| TOTAL | 202,548 | 617,141 | 3.0 | 334,326 | 1.7 | | | 951,467 | 4.7 |
| PURCHASE TOTAL | 0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| RECEIVE KW EC | 0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| SEND KW EC | 0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| (DEMAND) | 201,367 | 617,141 | 3.1 | 334,326 | 1.7 | | | 951,467 | 4.7 |
| SHORTAGE | 0 | 617,141 | 3.1 | 334,326 | 1.7 | | | 0 | 0.0 |

1.2 IE Demand (Revised 5th M/P) Interconnection;1,300MW (2015)

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

FY. 2015

(MW)

| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
|----------------------------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| DEMAND | 7,766 | 7,553 | 7,471 | 7,841 | 8,017 | 7,773 | 7,771 | 8,112 | 8,070 | 8,692 | 8,843 | 8,741 | 96,650 |
| PURCHASE | -194 | -240 | -187 | -151 | -154 | 0 | 0 | 0 | 0 | -38 | 0 | 0 | -964 |
| OTHERS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYDRO A | 57 | 59 | 53 | 59 | 59 | 106 | 106 | 106 | 64 | 77 | 106 | 71 | 923 |
| AB | 5,204 | 4,968 | 4,730 | 4,793 | 4,615 | 6,274 | 6,251 | 6,388 | 5,228 | 6,505 | 5,667 | 5,791 | 66,414 |
| PA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYDRO TOTAL | 5,261 | 5,027 | 4,783 | 4,851 | 4,674 | 6,380 | 6,357 | 6,494 | 5,292 | 6,581 | 5,773 | 5,862 | 67,337 |
| THERMAL,NUCLEAR. | 4,820 | 4,820 | 4,820 | 4,820 | 4,820 | 4,820 | 4,820 | 4,820 | 4,820 | 4,820 | 4,820 | 4,820 | 57,838 |
| SUPPLY CAPACITY | 9,887 | 9,607 | 9,416 | 9,520 | 9,340 | 11,200 | 11,177 | 11,314 | 10,112 | 11,363 | 10,593 | 10,682 | 124,211 |
| MAINTENANCE | 452 | 430 | 340 | 0 | 0 | 1,756 | 1,735 | 1,458 | 308 | 803 | 0 | 62 | 7,344 |
| RESERVE CAPACITY | 1,669 | 1,623 | 1,606 | 1,679 | 1,323 | 1,671 | 1,670 | 1,744 | 1,735 | 1,868 | 1,750 | 1,879 | 20,217 |
| RESERVE RATE (%) | 21 | 21 | 21 | 21 | 16 | 21 | 21 | 21 | 21 | 21 | 20 | 21 | 21 |
| (REFERENCE) MAINTENANCE | 465 | 501 | 353 | 0 | 0 | 1,608 | 1,587 | 1,304 | 154 | 639 | 0 | 0 | 6,611 |

**TABLE 1-2-2 kW BALANCE (MARGINAL OPERATION)
(CENTRAL&SOUTH)**

FY. 2015

(MW)

| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| DEMAND | 12,422 | 12,465 | 13,296 | 13,628 | 13,932 | 13,746 | 13,599 | 13,343 | 13,462 | 14,319 | 14,212 | 14,552 | 162,976 |
| PURCHASE | 194 | 240 | 187 | 151 | 154 | 0 | 0 | 0 | 0 | 38 | 0 | 0 | 964 |
| OTHERS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYDRO A | 229 | 253 | 196 | 217 | 225 | 221 | 237 | 312 | 312 | 312 | 312 | 244 | 3,066 |
| AB | 5,817 | 6,068 | 5,372 | 5,322 | 5,386 | 5,825 | 6,216 | 6,665 | 7,063 | 7,176 | 7,042 | 7,069 | 75,023 |
| PA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYDRO TOTAL | 6,045 | 6,321 | 5,568 | 5,539 | 5,611 | 6,046 | 6,452 | 6,977 | 7,375 | 7,488 | 7,354 | 7,313 | 78,088 |
| THERMAL,NUCLEAR. | 9,257 | 9,257 | 9,257 | 9,257 | 9,257 | 9,257 | 9,257 | 9,257 | 9,257 | 9,257 | 9,257 | 9,257 | 111,083 |
| SUPPLY CAPACITY | 15,496 | 15,819 | 15,012 | 14,946 | 15,022 | 15,303 | 15,709 | 16,234 | 16,632 | 16,783 | 16,611 | 16,570 | 190,135 |
| MAINTENANCE | 2,139 | 2,416 | 716 | 294 | 42 | 523 | 1,088 | 1,888 | 2,157 | 1,387 | 1,330 | 923 | 14,904 |
| RESERVE CAPACITY | 934 | 937 | 1,000 | 1,025 | 1,048 | 1,034 | 1,023 | 1,003 | 1,012 | 1,077 | 1,069 | 1,094 | 12,255 |
| RESERVE RATE (%) | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| (REFERENCE) MAINTENANCE | 1,900 | 2,130 | 476 | 85 | 0 | 462 | 1,027 | 1,828 | 2,097 | 1,285 | 1,266 | 858 | 13,414 |

**TABLE 1-2-3 kWh BALANCE (ECONOMIC OPERATION)
(NORTH)**

FY. 2,015

| MONTH | | | | | | | | | | | | | (GWH) | | |
|-----------------------|--------|---------|--------|--------|--------|---------|----------|----------|---------|----------|----------|---------|----------------|-----------------|----------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL (GWh) | INS.CAP (MW) | AVAIL.F (%) |
| DEMAND | 4,074 | 3,577 | 4,103 | 4,182 | 4,463 | 4,524 | 4,706 | 4,637 | 4,300 | 4,333 | 4,085 | 4,298 | 51,282 | 0 | 0 |
| PURCHASE | -520 | -529 | -548 | -579 | -499 | -934 | -958 | -938 | -841 | -904 | -935 | -686 | -8,880 | 0 | 0 |
| OTHERS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CONVEN HYDRO | 1,744 | 1,605 | 1,726 | 1,680 | 1,744 | 3,517 | 3,910 | 4,256 | 2,242 | 2,914 | 2,247 | 1,839 | 29,424 | 7,320 | 46 |
| PUMPED HYDRO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NUCLEAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GAS ST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GAS C/C | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GAS GT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OIL ST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OIL GT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIESEL. | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 25 | 0 |
| COAL ST | 2,859 | 2,557 | 2,932 | 3,081 | 3,217 | 1,956 | 1,977 | 2,118 | 2,923 | 2,518 | 2,875 | 3,158 | 32,175 | 4,795 | 77 |
| GENE TOTAL. | 4,603 | 4,162 | 4,659 | 4,762 | 4,962 | 5,474 | 5,888 | 6,374 | 5,165 | 5,432 | 5,122 | 4,997 | 61,601 | 12,140 | 58 |
| OVER_FLOW SHORTAGE | 9 0 | 55 0 | 7 0 | 0 0 | 0 0 | 14 0 | 223 0 | 798 0 | 23 0 | 194 0 | 101 0 | 13 0 | 1,437 0 | 0 0 | 0 0 |
| PUMPING UP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**TABLE 1-2-4 kWh BALANCE (ECONOMIC OPERATION)
(CENTRAL&SOUTH)**

FY. 2,015

| MONTH | | | | | | | | | | | | | (GWH) | | |
|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|-----------------|----------------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL (GWh) | INS.CAP (MW) | AVAIL.F (%) |
| DEMAND | 6,944 | 5,844 | 7,562 | 7,745 | 7,967 | 7,503 | 7,734 | 7,514 | 7,286 | 7,688 | 7,411 | 8,004 | 89,201 | 0 | 0 |
| PURCHASE | 521 | 530 | 549 | 580 | 500 | 935 | 959 | 939 | 842 | 905 | 936 | 687 | 8,881 | 0 | 0 |
| OTHERS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CONVEN HYDRO | 2,250 | 2,160 | 2,131 | 2,092 | 2,159 | 2,659 | 2,871 | 3,561 | 3,516 | 3,676 | 3,255 | 2,763 | 33,089 | 7,751 | 49 |
| PUMPED HYDRO | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| NUCLEAR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GAS ST | 737 | 580 | 792 | 811 | 834 | 500 | 497 | 454 | 433 | 476 | 460 | 709 | 7,284 | 1,500 | 55 |
| GAS C/C | 2,780 | 2,146 | 3,473 | 3,649 | 3,766 | 2,942 | 2,935 | 2,155 | 2,152 | 2,253 | 2,394 | 3,352 | 33,996 | 5,667 | 68 |
| GAS GT | 129 | 77 | 173 | 165 | 175 | 71 | 78 | 49 | 7 | 5 | 6 | 104 | 1,039 | 447 | 27 |
| OIL ST | 418 | 332 | 425 | 414 | 483 | 384 | 379 | 355 | 336 | 372 | 360 | 384 | 4,641 | 1,173 | 45 |
| OIL GT | 39 | 12 | 11 | 25 | 41 | 12 | 14 | 0 | 0 | 1 | 0 | 3 | 160 | 263 | 7 |
| DIESEL. | 70 | 8 | 9 | 9 | 9 | 1 | 2 | 0 | 0 | 2 | 0 | 2 | 112 | 207 | 6 |
| COAL ST | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GENE TOTAL. | 6,424 | 5,314 | 7,013 | 7,165 | 7,467 | 6,568 | 6,776 | 6,575 | 6,444 | 6,783 | 6,475 | 7,317 | 80,320 | 17,007 | 54 |
| OVER_FLOW SHORTAGE | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| PUMPING UP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

**TABLE 1-2-5 FUEL CONSUMPTION
(NORTH)**

FY. 2,015

(UNIT 10*6)

| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
|-------------------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|--------------|--------------|--------------|--------------|-----------------|
| GAS ST (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| GAS C/C (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| GAS GT (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| OIL ST (EQUIVALENT). | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| OIL GT (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| DIESEL (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 1 1 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 1 1 |
| COAL ST (EQUIVALENT) | 1,171 650 | 1,048 582 | 1,202 667 | 1,263 701 | 1,317 731 | 802 445 | 813 451 | 872 484 | 1,199 665 | 1,038 576 | 1,183 657 | 1,295 719 | 13,203 7,328 |
| (EQUIV.TOTAL) | 650 | 582 | 667 | 701 | 732 | 445 | 451 | 484 | 665 | 576 | 657 | 719 | 7,329 |

**TABLE 1-2-6 FUEL CONSUMPTION
(CENTRAL&SOUTH)**

FY. 2,015

(UNIT 10*6)

| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
|-------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------|
| GAS ST (EQUIVALENT) | 239 241 | 198 200 | 261 264 | 264 267 | 273 276 | 204 205 | 202 204 | 187 189 | 177 179 | 196 197 | 189 191 | 243 245 | 2,633 2,657 |
| GAS C/C (EQUIVALENT) | 506 511 | 388 392 | 633 639 | 666 672 | 688 694 | 542 546 | 536 541 | 397 400 | 387 390 | 420 424 | 439 443 | 610 616 | 6,212 6,269 |
| GAS GT (EQUIVALENT) | 35 35 | 21 22 | 47 48 | 44 45 | 47 48 | 24 25 | 26 26 | 19 19 | 2 2 | 2 2 | 2 2 | 30 31 | 301 303 |
| OIL ST (EQUIVALENT). | 126 126 | 101 101 | 129 129 | 126 126 | 145 145 | 117 117 | 116 116 | 108 108 | 102 102 | 113 113 | 110 110 | 117 117 | 1,409 1,409 |
| OIL GT (EQUIVALENT) | 17 17 | 7 7 | 5 5 | 13 13 | 16 16 | 13 13 | 14 14 | 1 1 | 0 0 | 1 1 | 0 0 | 2 2 | 88 88 |
| DIESEL (EQUIVALENT) | 33 34 | 4 4 | 4 4 | 4 4 | 4 4 | 1 1 | 2 2 | 0 0 | 0 0 | 2 2 | 0 0 | 1 1 | 55 56 |
| COAL ST (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| (EQUIV.TOTAL) | 964 | 726 | 1,089 | 1,127 | 1,183 | 907 | 903 | 717 | 673 | 739 | 746 | 1,012 | 10,782 |

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

**TABLE 1-2-7 ECONOMIC EVALUATION-1
(NORTH)**

FY. 2015

| | ENERGY (GWH) | FIXED COST | | FUEL COST | | PURCHASE MERIT | | TOTAL COST | |
|----------------|-----------------|------------|------------|------------|------------|----------------|------------|------------|------------|
| | | (10*6CENT) | (CENT/KWH) | (10*6CENT) | (CENT/KWH) | (10*6CENT) | (CENT/KWH) | (10*6CENT) | (CENT/KWH) |
| OTHERS | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| CONVEN HYDRO | 29,424 | 108,809 | 3.7 | 0 | 0.0 | | | 108,809 | 3.7 |
| PUMPED HYDRO | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| NUCLEAR | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS ST | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS C/C | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS GT | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| OIL ST | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| OIL GT | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| DIESEL | 1 | 345 | 345.2 | 18 | 18.0 | | | 363 | 363.2 |
| COAL ST | 32,175 | 70,712 | 2.2 | 43,354 | 1.3 | | | 114,066 | 3.5 |
| TOTAL | 61,601 | 179,867 | 2.9 | 43,372 | 0.7 | | | 223,239 | 3.6 |
| PURCHASE TOTAL | -8,881 | 0 | 0.0 | -2,381 | 0.3 | -12,693 | 1.4 | -15,075 | 1.7 |
| RECEIVE KW | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| EC | 0 | | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| SEND KW | -43 | | | -45 | 1.0 | -399 | 9.3 | -444 | 10.4 |
| EC | -8,838 | | | -2,337 | 0.3 | -12,294 | 1.4 | -14,631 | 1.7 |
| (DEMAND) | 51,282 | 179,867 | 3.5 | 40,991 | 0.8 | | | 208,164 | 4.1 |
| SHORTAGE | 0 | 179,867 | 3.5 | 40,991 | 0.8 | | | 0 | 0.0 |

**TABLE 1-2-8 ECONOMIC EVALUATION-1
(CENTRAL&SOUTH)**

FY. 2015

| | ENERGY (GWH) | FIXED COST | | FUEL COST | | PURCHASE MERIT | | TOTAL COST | |
|----------------|-----------------|------------|------------|------------|------------|----------------|------------|------------|------------|
| | | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) |
| OTHERS | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| CONVEN HYDRO | 33,089 | 125,882 | 3.8 | 0 | 0.0 | | | 125,882 | 3.8 |
| PUMPED HYDRO | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| NUCLEAR | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS ST | 7,284 | 17,685 | 2.4 | 45,406 | 6.2 | | | 63,091 | 8.7 |
| GAS C/C | 33,996 | 56,681 | 1.7 | 107,215 | 3.2 | | | 163,896 | 4.8 |
| GAS GT | 1,039 | 2,860 | 2.8 | 5,199 | 5.0 | | | 8,059 | 7.8 |
| OIL ST | 4,641 | 13,450 | 2.9 | 26,654 | 5.7 | | | 40,104 | 8.6 |
| OIL GT | 160 | 1,684 | 10.5 | 2,902 | 18.1 | | | 4,586 | 28.7 |
| DIESEL | 112 | 2,881 | 25.7 | 1,891 | 16.9 | | | 4,772 | 42.6 |
| COAL ST | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| TOTAL | 80,320 | 221,122 | 2.8 | 189,268 | 2.4 | | | 410,390 | 5.1 |
| PURCHASE TOTAL | 8,881 | 4 | 0.0 | 28,253 | 3.2 | -12294 | -1.4 | 15,963 | 1.8 |
| RECEIVE KW | 43 | 4 | 0.1 | 444 | 10.4 | | | 448 | 10.5 |
| EC | 8,838 | | | 27,809 | 3.1 | -12294 | -1.4 | 15,515 | 1.8 |
| SEND KW | 0 | | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| EC | 0 | | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| (DEMAND) | 89,201 | 221,127 | 2.5 | 217,521 | 2.4 | | | 426,353 | 4.8 |
| SHORTAGE | 0 | 221,127 | 2.5 | 217,521 | 2.4 | | | 0 | 0.0 |

1.3 IE Demand (Revised 5th M/P) Interconnection;1,300MW、PSPP;750 MW in N (2020)

**TABLE 1-3-1 kW BALANCE (MARGINAL OPERATION)
(NORTH)**

| FY. 2020 | | (MW) | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
| DEMAND | 10,614 | 10,330 | 10,226 | 10,716 | 10,956 | 10,624 | 10,621 | 11,085 | 11,027 | 11,869 | 12,074 | 11,935 | 132,077 |
| PURCHASE | 0 | 0 | 0 | 7 | 297 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 304 |
| OTHERS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYDRO A | 56 | 59 | 53 | 59 | 57 | 106 | 106 | 106 | 68 | 77 | 106 | 71 | 924 |
| AB | 5,807 | 5,500 | 5,228 | 5,369 | 5,161 | 7,514 | 7,632 | 7,738 | 6,920 | 7,929 | 6,155 | 6,749 | 77,703 |
| PA | 186 | 194 | 168 | 120 | 108 | 78 | 465 | 750 | 90 | 136 | 750 | 183 | 3,227 |
| PB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYDRO TOTAL | 6,049 | 5,753 | 5,450 | 5,549 | 5,326 | 7,698 | 8,203 | 8,594 | 7,078 | 8,141 | 7,011 | 7,003 | 81,854 |
| THERMAL,NUCLEAR | 6,705 | 6,705 | 6,705 | 6,705 | 6,705 | 6,705 | 6,705 | 6,705 | 6,705 | 6,705 | 6,705 | 6,705 | 80,458 |
| SUPPLY CAPACITY | 12,753 | 12,457 | 12,154 | 12,261 | 12,328 | 14,403 | 14,908 | 15,299 | 13,783 | 14,846 | 13,716 | 13,707 | 162,616 |
| MAINTENANCE | 552 | 583 | 399 | 0 | 0 | 2,190 | 2,699 | 2,557 | 1,107 | 1,202 | 0 | 0 | 11,289 |
| RESERVE CAPACITY | 1,587 | 1,545 | 1,529 | 1,545 | 1,372 | 1,589 | 1,588 | 1,658 | 1,649 | 1,775 | 1,642 | 1,772 | 19,250 |
| RESERVE RATE (%) | 15 | 15 | 15 | 14 | 13 | 15 | 15 | 15 | 15 | 15 | 14 | 15 | 15 |
| (REFERENCE) MAINTENANCE | 414 | 448 | 266 | 0 | 0 | 2,051 | 2,560 | 2,412 | 963 | 1,047 | 0 | 0 | 10,161 |

**TABLE 1-3-2 kW BALANCE (MARGINAL OPERATION)
(CENTRAL&SOUTH)**

| FY. 2020 | | (MW) | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
| DEMAND | 17,600 | 17,657 | 18,798 | 19,264 | 19,691 | 19,426 | 19,218 | 18,856 | 19,029 | 20,236 | 20,084 | 20,564 | 230,423 |
| PURCHASE | 0 | 0 | 0 | -7 | -297 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -304 |
| OTHERS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYDRO A | 242 | 260 | 204 | 225 | 237 | 297 | 295 | 312 | 312 | 312 | 312 | 312 | 3,317 |
| AB | 6,415 | 6,730 | 5,869 | 5,895 | 5,967 | 6,412 | 6,988 | 7,173 | 7,623 | 7,710 | 7,562 | 7,894 | 82,238 |
| PA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYDRO TOTAL | 6,657 | 6,990 | 6,072 | 6,120 | 6,204 | 6,708 | 7,283 | 7,485 | 7,935 | 8,022 | 7,874 | 8,205 | 85,555 |
| THERMAL,NUCLEAR. | 15,777 | 15,777 | 15,777 | 15,777 | 15,777 | 15,777 | 15,777 | 15,777 | 15,777 | 15,777 | 15,777 | 15,777 | 189,323 |
| SUPPLY CAPACITY | 22,434 | 22,767 | 21,849 | 21,890 | 21,684 | 22,485 | 23,060 | 23,261 | 23,712 | 23,799 | 23,651 | 23,982 | 274,573 |
| MAINTENANCE | 3,736 | 4,008 | 1,878 | 1,424 | 764 | 1,847 | 2,643 | 3,229 | 3,495 | 2,300 | 2,313 | 2,135 | 29,770 |
| RESERVE CAPACITY | 1,098 | 1,102 | 1,173 | 1,202 | 1,229 | 1,212 | 1,199 | 1,177 | 1,188 | 1,263 | 1,253 | 1,283 | 14,380 |
| RESERVE RATE (%) | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| (REFERENCE) MAINTENANCE | 3,486 | 3,757 | 1,611 | 1,157 | 773 | 1,571 | 2,370 | 2,961 | 3,225 | 2,012 | 2,028 | 1,843 | 26,794 |

**TABLE 1-3-5 FUEL CONSUMPTION
(NORTH)**

FY. 2015

(UNIT 10*6)

| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
|-------------------------|--------------|--------------|--------------|--------------|----------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|------------------|
| GAS ST (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| GAS C/C (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| GAS GT (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| OIL ST (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| OIL GT (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| DIESEL (EQUIVALENT) | 0 0 | 1 1 | 1 1 | 1 1 | 4 4 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 6 6 |
| COAL ST (EQUIVALENT) | 1,735 963 | 1,549 860 | 1,780 988 | 1,789 993 | 1,851 1,027 | 1,227 681 | 1,083 601 | 1,083 601 | 1,502 834 | 1,466 814 | 1,722 956 | 1,850 1,027 | 18,639 10,345 |
| (EQUIV.TOTAL) | 963 | 861 | 989 | 994 | 1,031 | 681 | 601 | 601 | 834 | 814 | 956 | 1,027 | 10,351 |

**TABLE 1-3-6 FUEL CONSUMPTION
(CENTRAL&SOUTH)**

FY. 2015

(UNIT 10*6)

| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
|-------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------|
| GAS ST (EQUIVALENT) | 339 342 | 295 298 | 362 366 | 360 364 | 370 373 | 276 278 | 283 285 | 266 269 | 257 260 | 277 279 | 269 271 | 345 348 | 3,699 3,733 |
| GAS C/C (EQUIVALENT) | 741 748 | 572 577 | 841 849 | 880 888 | 912 921 | 740 747 | 764 771 | 644 650 | 614 619 | 604 610 | 622 628 | 827 835 | 8,762 8,842 |
| GAS GT (EQUIVALENT) | 37 37 | 5 5 | 23 23 | 24 24 | 47 48 | 27 27 | 29 29 | 3 3 | 3 3 | 25 25 | 0 0 | 2 2 | 224 226 |
| OIL ST (EQUIVALENT) | 123 123 | 101 101 | 122 122 | 143 143 | 128 128 | 114 114 | 115 115 | 111 111 | 107 107 | 116 116 | 112 112 | 116 116 | 1,406 1,406 |
| OIL GT (EQUIVALENT) | 1 1 | 2 2 | 1 1 | 2 2 | 3 3 | 0 0 | 2 2 | 0 0 | 0 0 | 1 1 | 0 0 | 0 0 | 12 12 |
| DIESEL (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| COAL ST (EQUIVALENT) | 212 118 | 186 103 | 251 140 | 252 140 | 269 149 | 244 135 | 235 131 | 223 124 | 210 117 | 243 135 | 235 130 | 247 137 | 2,808 1,559 |
| (EQUIV.TOTAL) | 1,369 | 1,086 | 1,501 | 1,561 | 1,622 | 1,301 | 1,333 | 1,157 | 1,106 | 1,166 | 1,141 | 1,438 | 15,778 |

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

**TABLE 1-3-7 ECONOMIC EVALUATION-1
(NORTH)**

FY. 2015

| | ENERGY (GWH) | FIXED COST (10*6CENT) | (CENT/KWH) | FUEL COST (10*6CENT) | (CENT/KWH) | PURCHASE MERIT (10*6CENT) | (CENT/KWH) | TOTAL COST (10*6CENT) | (CENT/KWH) |
|------------------|-----------------|--------------------------|------------|-------------------------|------------|------------------------------|------------|--------------------------|------------|
| OTHERS | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| CONVEN HYDRO | 34,788 | 128,617 | 3.7 | 0 | 0.0 | | | 128,617 | 3.7 |
| PUMPED HYDRO | 508 | 5,363 | 10.6 | 0 | 0.0 | | | 5,363 | 10.6 |
| NUCLEAR | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS ST | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS C/C | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS GT | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| OIL ST | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| OIL GT | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| DIESEL | 5 | 345 | 69.0 | 200 | 40.0 | | | 545 | 109.0 |
| COAL ST | 45,942 | 94,235 | 2.1 | 68,069 | 1.5 | | | 162,304 | 3.5 |
| TOTAL | 81,244 | 228,560 | 2.8 | 68,269 | 0.8 | | | 296,829 | 3.7 |
| PURCHASE TOTAL | -6,885 | 1 | 0.0 | -3,919 | 0.6 | -8,341 | 1.2 | -12,259 | 1.8 |
| RECEIVE KW EC | 14 0 | 1 | 0.1 | 42 0 | 3.0 0.0 | 0 | 0.0 | 43 0 | 3.1 0.0 |
| SEND KW EC | 0 -6,899 | | | 0 -3,961 | 0.0 0.6 | 0 -8,341 | 0.0 1.2 | 0 -12,302 | 0.0 1.8 |
| (DEMAND) | 72,557 | 228,561 | 3.2 | 64,350 | 0.9 | | | 284,570 | 3.9 |
| SHORTAGE | 6 | 228,561 | 3.2 | 64,350 | 0.9 | | | 0 | 0.0 |

**TABLE 1-3-8 ECONOMIC EVALUATION-1
(CENTRAL&SOUTH)**

FY. 2015

| | ENERGY (GWH) | FIXED COST (10*6CENT) | (CENT/KWH) | FUEL COST (10*6CENT) | (CENT/KWH) | PURCHASE MERIT (10*6CENT) | (CENT/KWH) | TOTAL COST (10*6CENT) | (CENT/KWH) |
|------------------|-----------------|--------------------------|------------|-------------------------|------------|------------------------------|-------------|--------------------------|------------|
| OTHERS | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| CONVEN HYDRO | 36,497 | 136,521 | 3.7 | 0 | 0.0 | | | 136,521 | 3.7 |
| PUMPED HYDRO | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| NUCLEAR | 12,558 | 57,200 | 4.6 | 13,157 | 1.0 | | | 70,357 | 5.6 |
| GAS ST | 10,270 | 24,243 | 2.4 | 70,399 | 6.9 | | | 94,642 | 9.2 |
| GAS C/C | 48,860 | 83,129 | 1.7 | 166,910 | 3.4 | | | 250,039 | 5.1 |
| GAS GT | 753 | 3,372 | 4.5 | 4,262 | 5.7 | | | 7,634 | 10.1 |
| OIL ST | 4,630 | 13,450 | 2.9 | 27,775 | 6.0 | | | 41,225 | 8.9 |
| OIL GT | 30 | 1,684 | 56.1 | 423 | 14.1 | | | 2,107 | 70.2 |
| DIESEL | 0 | 2,881 | 0.0 | 7 | 0.0 | | | 2,888 | 0.0 |
| COAL ST | 7,107 | 12,194 | 1.7 | 12,218 | 1.7 | | | 24,412 | 3.4 |
| TOTAL | 120,705 | 334,673 | 2.8 | 295,151 | 2.4 | | | 629,825 | 5.2 |
| PURCHASE TOTAL | 6,885 | 0 | 0.0 | 21,255 | 3.1 | -8,305 | -1.2 | 12,950 | 1.9 |
| RECEIVE KW EC | 0 6,899 | 0 | 0.0 | 0 21,333 | 0.0 3.1 | -8,341 | -1.2 | 0 12,992 | 0.0 1.9 |
| SEND KW EC | -14 0 | | | -78 0 | 5.5 0.0 | 36 0 | -2.6 0.0 | -42 0 | 3.0 0.0 |
| (DEMAND) | 127,590 | 334,673 | 2.6 | 316,406 | 2.5 | | | 642,775 | 5.0 |
| SHORTAGE | 0 | 334,673 | 2.6 | 316,406 | 2.5 | | | 0 | 0.0 |

2.1 Peak Shift Demand Interconnection;1,300MW (2015)

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

| FY. 2015 | | (MW) | | | | | | | | | | | |
|----------------------------|-------|--------|-------|--------|-------|--------|--------|--------|--------|--------|-------|--------|---------|
| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
| DEMAND | 7,967 | 8,019 | 8,103 | 8,220 | 8,340 | 8,438 | 8,499 | 8,520 | 8,529 | 8,529 | 8,512 | 8,503 | 100,179 |
| PURCHASE | 72 | 60 | 28 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 185 |
| OTHERS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYDRO A | 63 | 69 | 62 | 64 | 65 | 106 | 106 | 106 | 73 | 87 | 105 | 84 | 991 |
| AB | 4,675 | 4,759 | 4,672 | 4,752 | 4,624 | 6,491 | 6,294 | 6,388 | 5,120 | 5,589 | 4,564 | 4,761 | 62,690 |
| PA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYDRO TOTAL | 4,738 | 4,828 | 4,734 | 4,817 | 4,689 | 6,597 | 6,400 | 6,494 | 5,193 | 5,677 | 4,669 | 4,845 | 63,681 |
| THERMAL,NUCLEAR. | 5,175 | 5,175 | 5,175 | 5,175 | 5,175 | 5,175 | 5,175 | 5,175 | 5,175 | 5,175 | 5,175 | 5,175 | 62,098 |
| SUPPLY CAPACITY | 9,985 | 10,063 | 9,937 | 10,017 | 9,864 | 11,771 | 11,575 | 11,669 | 10,367 | 10,851 | 9,844 | 10,020 | 125,964 |
| MAINTENANCE | 574 | 590 | 365 | 307 | 13 | 1,804 | 1,536 | 1,605 | 293 | 777 | 0 | 0 | 7,863 |
| RESERVE CAPACITY | 1,444 | 1,453 | 1,469 | 1,490 | 1,512 | 1,529 | 1,540 | 1,544 | 1,546 | 1,546 | 1,332 | 1,517 | 17,922 |
| RESERVE RATE (%) | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 16 | 18 | 18 |
| (REFERENCE) MAINTENANCE | 447 | 476 | 273 | 217 | 0 | 1,735 | 1,466 | 1,535 | 222 | 706 | 0 | 0 | 7,077 |

**TABLE 2-1-2 kW BALANCE (MARGINAL OPERATION)
(CENTRAL&SOUTH)**

| FY. 2015 | | (MW) | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
| DEMAND | 13,095 | 13,239 | 13,436 | 13,573 | 13,680 | 13,790 | 13,884 | 13,962 | 14,009 | 14,068 | 14,122 | 14,172 | 165,030 |
| PURCHASE | -72 | -60 | -28 | -26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -185 |
| OTHERS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYDRO A | 201 | 232 | 206 | 208 | 210 | 234 | 270 | 312 | 312 | 312 | 312 | 256 | 3,063 |
| AB | 5,178 | 5,524 | 4,958 | 5,037 | 4,869 | 5,302 | 5,677 | 6,190 | 6,588 | 6,701 | 6,567 | 6,045 | 68,638 |
| PA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYDRO TOTAL | 5,379 | 5,756 | 5,163 | 5,246 | 5,079 | 5,536 | 5,947 | 6,502 | 6,900 | 7,013 | 6,879 | 6,302 | 71,701 |
| THERMAL,NUCLEAR. | 10,377 | 10,377 | 10,377 | 10,377 | 10,377 | 10,377 | 10,377 | 10,377 | 10,377 | 10,377 | 10,377 | 10,377 | 124,523 |
| SUPPLY CAPACITY | 15,684 | 16,073 | 15,513 | 15,597 | 15,456 | 15,913 | 16,324 | 16,879 | 17,277 | 17,390 | 17,256 | 16,679 | 196,039 |
| MAINTENANCE | 1,447 | 1,680 | 905 | 840 | 583 | 920 | 1,229 | 1,699 | 2,046 | 2,095 | 1,902 | 1,271 | 16,619 |
| RESERVE CAPACITY | 1,142 | 1,154 | 1,172 | 1,183 | 1,193 | 1,202 | 1,211 | 1,217 | 1,221 | 1,227 | 1,231 | 1,236 | 14,389 |
| RESERVE RATE (%) | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| (REFERENCE) MAINTENANCE | 1,364 | 1,585 | 784 | 714 | 431 | 768 | 1,076 | 1,545 | 1,891 | 1,939 | 1,746 | 1,114 | 14,957 |

**TABLE2-1-5 FUEL CONSUMPTION
(NORTH)**

FY. 2015

(UNIT 10*6)

| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
|-------------------------|--------------|--------------|--------------|--------------|--------------|------------|------------|------------|--------------|--------------|--------------|--------------|-----------------|
| GAS ST (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 |
| GAS C/C (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 |
| GAS GT (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 |
| OIL ST (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 |
| OIL GT (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 |
| DIESEL (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 2 2 |
| COAL ST (EQUIVALENT) | 1,256 697 | 1,127 626 | 1,300 722 | 1,274 707 | 1,373 762 | 856 475 | 942 523 | 908 504 | 1,262 700 | 1,140 633 | 1,312 728 | 1,372 762 | 14,121 7,837 |
| (EQUIV.TOTAL) | 697 | 626 | 722 | 707 | 762 | 475 | 523 | 504 | 700 | 633 | 728 | 762 | 7,839 |

**TABLE2-1-6 FUEL CONSUMPTION
(CENTRAL&SOUTH)**

FY. 2015

(UNIT 10*6)

| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
|-------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------|
| GAS ST (EQUIVALENT) | 338 341 | 295 298 | 351 355 | 336 339 | 349 353 | 280 282 | 286 289 | 269 271 | 274 276 | 263 266 | 260 262 | 337 340 | 3,639 3,672 |
| GAS C/C (EQUIVALENT) | 567 572 | 477 482 | 606 611 | 600 606 | 635 640 | 552 557 | 565 571 | 488 492 | 433 437 | 431 435 | 476 481 | 598 603 | 6,428 6,487 |
| GAS GT (EQUIVALENT) | 37 37 | 23 24 | 23 23 | 23 23 | 24 24 | 14 14 | 16 16 | 2 2 | 21 22 | 20 20 | 0 0 | 2 2 | 206 208 |
| OIL ST (EQUIVALENT) | 136 136 | 118 118 | 154 154 | 145 145 | 134 134 | 115 115 | 116 116 | 112 112 | 106 106 | 109 109 | 107 107 | 130 130 | 1,482 1,482 |
| OIL GT (EQUIVALENT) | 2 2 | 2 2 | 1 1 | 1 1 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 6 6 |
| DIESEL (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| COAL ST (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| (EQUIV.TOTAL) | 1,088 | 924 | 1,144 | 1,114 | 1,151 | 968 | 992 | 877 | 841 | 830 | 850 | 1,075 | 11,855 |

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

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

FY. 2015

| | ENERGY (GWH) | FIXED COST | | FUEL COST | | PURCHASE MERIT | | TOTAL COST | |
|----------------|-----------------|------------|------------|------------|------------|----------------|------------|------------|------------|
| | | (10*6CENT) | (CENT/KWH) | (10*6CENT) | (CENT/KWH) | (10*6CENT) | (CENT/KWH) | (10*6CENT) | (CENT/KWH) |
| OTHERS | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| CONVEN HYDRO | 29,424 | 108,809 | 3.7 | 0 | 0.0 | | | 108,809 | 3.7 |
| PUMPED HYDRO | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| NUCLEAR | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS ST | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS C/C | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS GT | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| OIL ST | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| OIL GT | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| DIESEL | 3 | 345 | 115.1 | 55 | 18.3 | | | 400 | 133.4 |
| COAL ST | 34,452 | 75,789 | 2.2 | 46,367 | 1.3 | | | 122,156 | 3.5 |
| TOTAL | 63,880 | 184,943 | 2.9 | 46,422 | 0.7 | | | 231,365 | 3.6 |
| PURCHASE TOTAL | -8,120 | 1 | 0.0 | -1,613 | 0.2 | -10,261 | 1.3 | -11,873 | 1.5 |
| RECEIVE KW | 7 | 1 | 0.1 | 37 | 5.2 | | | 38 | 5.3 |
| EC | 0 | | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| SEND KW | 0 | | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| EC | -8,128 | | | -1,650 | 0.2 | -10,261 | 1.3 | -11,911 | 1.5 |
| (DEMAND) | 51,743 | 184,944 | 3.6 | 44,809 | 0.9 | | | 219,492 | 4.2 |
| SHORTAGE | 0 | 184,944 | 3.6 | 44,809 | 0.9 | | | 0 | 0.0 |

**TABLE 2-1-8 ECONOMIC EVALUATION-1
(CENTRAL&SOUTH)**

FY. 2015

| | ENERGY (GWH) | FIXED COST | | FUEL COST | | PURCHASE MERIT | | TOTAL COST | |
|----------------|-----------------|------------|------------|------------|------------|----------------|------------|------------|------------|
| | | (10*6CENT) | (CENT/KWH) | (10*6CENT) | (CENT/KWH) | (10*6CENT) | (CENT/KWH) | (10*6CENT) | (CENT/KWH) |
| OTHERS | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| CONVEN HYDRO | 31,292 | 118,237 | 3.8 | 0 | 0.0 | | | 118,237 | 3.8 |
| PUMPED HYDRO | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| NUCLEAR | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS ST | 9,944 | 24,243 | 2.4 | 62,630 | 6.3 | | | 86,873 | 8.7 |
| GAS C/C | 35,438 | 61,241 | 1.7 | 110,916 | 3.1 | | | 172,157 | 4.9 |
| GAS GT | 720 | 3,372 | 4.7 | 3,549 | 4.9 | | | 6,921 | 9.6 |
| OIL ST | 4,898 | 13,450 | 2.7 | 28,035 | 5.7 | | | 41,485 | 8.5 |
| OIL GT | 17 | 1,684 | 99.0 | 201 | 11.8 | | | 1,885 | 110.9 |
| DIESEL | 0 | 2,881 | 0.0 | 7 | 0.0 | | | 2,888 | 0.0 |
| COAL ST | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| TOTAL | 82,309 | 225,107 | 2.7 | 205,338 | 2.5 | | | 430,445 | 5.2 |
| PURCHASE TOTAL | 8,120 | 0 | 0.0 | 22,946 | 2.8 | -10,260 | -1.3 | 12,687 | 1.6 |
| RECEIVE KW | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| EC | 8,128 | | | 22,986 | 2.8 | -10,261 | -1.3 | 12,724 | 1.6 |
| SEND KW | -7 | | | -39 | 5.4 | 2 | -0.3 | -37 | 5.2 |
| EC | 0 | | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| (DEMAND) | 90,429 | 225,107 | 2.5 | 228,284 | 2.5 | | | 443,132 | 4.9 |
| SHORTAGE | 0 | 225,107 | 2.5 | 228,284 | 2.5 | | | 0 | 0.0 |

2.2 Peak Shift Demand Interconnection;1,300MW (2020)

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

| FY. 2020 | | (MW) | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
| DEMAND | 11,353 | 11,422 | 11,524 | 11,660 | 11,798 | 11,914 | 11,993 | 12,031 | 12,056 | 12,073 | 12,073 | 12,080 | 141,977 |
| PURCHASE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHERS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYDRO A | 70 | 72 | 68 | 71 | 69 | 106 | 106 | 106 | 78 | 89 | 106 | 89 | 1,030 |
| AB | 5,391 | 5,510 | 5,403 | 5,492 | 5,365 | 7,841 | 7,644 | 7,738 | 6,891 | 6,953 | 5,391 | 5,503 | 75,123 |
| PA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYDRO TOTAL | 5,460 | 5,583 | 5,471 | 5,563 | 5,434 | 7,947 | 7,750 | 7,844 | 6,969 | 7,042 | 5,496 | 5,592 | 76,153 |
| THERMAL,NUCLEAR. | 8,625 | 8,625 | 8,625 | 8,625 | 8,625 | 8,625 | 8,625 | 8,625 | 8,625 | 8,625 | 8,625 | 8,625 | 103,498 |
| SUPPLY CAPACITY | 14,085 | 14,208 | 14,096 | 14,188 | 14,059 | 16,571 | 16,375 | 16,469 | 15,594 | 15,667 | 14,121 | 14,217 | 179,651 |
| MAINTENANCE | 959 | 1,001 | 772 | 707 | 418 | 2,797 | 2,509 | 2,559 | 1,655 | 1,708 | 162 | 250 | 15,498 |
| RESERVE CAPACITY | 1,773 | 1,784 | 1,800 | 1,821 | 1,843 | 1,861 | 1,873 | 1,879 | 1,883 | 1,886 | 1,886 | 1,887 | 22,176 |
| RESERVE RATE (%) | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| (REFERENCE) MAINTENANCE | 835 | 877 | 646 | 580 | 289 | 2,666 | 2,378 | 2,428 | 1,523 | 1,577 | 31 | 118 | 13,948 |

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

| FY. 2020 | | (MW) | | | | | | | | | | | |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
| DEMAND | 18,913 | 19,091 | 19,319 | 19,492 | 19,638 | 19,785 | 19,917 | 20,034 | 20,121 | 20,220 | 20,315 | 20,406 | 237,251 |
| PURCHASE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OTHERS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYDRO A | 238 | 273 | 240 | 261 | 277 | 312 | 304 | 312 | 312 | 312 | 312 | 267 | 3,417 |
| AB | 6,448 | 6,866 | 6,186 | 6,355 | 6,059 | 6,609 | 7,053 | 7,173 | 7,623 | 7,710 | 7,562 | 7,435 | 83,079 |
| PA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HYDRO TOTAL | 6,686 | 7,139 | 6,427 | 6,615 | 6,336 | 6,921 | 7,357 | 7,485 | 7,935 | 8,022 | 7,874 | 7,701 | 86,496 |
| THERMAL,NUCLEAR. | 17,117 | 17,117 | 17,117 | 17,117 | 17,117 | 17,117 | 17,117 | 17,117 | 17,117 | 17,117 | 17,117 | 17,117 | 205,403 |
| SUPPLY CAPACITY | 23,803 | 24,256 | 23,543 | 23,732 | 23,453 | 24,038 | 24,474 | 24,601 | 25,052 | 25,139 | 24,991 | 24,818 | 291,899 |
| MAINTENANCE | 3,102 | 3,360 | 2,398 | 2,397 | 1,958 | 2,382 | 2,674 | 2,673 | 3,028 | 3,007 | 2,755 | 2,483 | 32,217 |
| RESERVE CAPACITY | 1,788 | 1,805 | 1,826 | 1,843 | 1,857 | 1,871 | 1,883 | 1,894 | 1,902 | 1,912 | 1,921 | 1,929 | 22,430 |
| RESERVE RATE (%) | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| (REFERENCE) MAINTENANCE | 2,845 | 3,101 | 2,136 | 2,133 | 1,691 | 2,113 | 2,403 | 2,401 | 2,755 | 2,732 | 2,479 | 2,206 | 28,995 |

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

FY. 2020

(UNIT 10*6)

| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
|-------------------------|----------------|--------------|----------------|----------------|----------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|------------------|
| GAS ST (EQUIVALENT) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GAS C/C (EQUIVALENT) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GAS GT (EQUIVALENT) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OIL ST (EQUIVALENT). | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| OIL GT (EQUIVALENT) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DIESEL (EQUIVALENT) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| COAL ST (EQUIVALENT) | 2,014 1,118 | 1,801 999 | 2,063 1,145 | 2,010 1,116 | 2,130 1,182 | 1,448 804 | 1,569 871 | 1,557 864 | 1,728 959 | 1,772 983 | 2,092 1,161 | 2,162 1,200 | 22,346 12,402 |
| (EQUIV.TOTAL) | 1,118 | 999 | 1,145 | 1,116 | 1,182 | 804 | 871 | 864 | 959 | 983 | 1,161 | 1,200 | 12,402 |

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

FY. 2020

(UNIT 10*6)

| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
|-------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------|
| GAS ST (EQUIVALENT) | 352 355 | 327 330 | 370 373 | 364 367 | 365 368 | 349 352 | 369 373 | 311 314 | 313 316 | 320 323 | 353 357 | 374 377 | 4,166 4,203 |
| GAS C/C (EQUIVALENT) | 857 865 | 724 730 | 877 885 | 849 857 | 907 915 | 813 821 | 831 838 | 789 796 | 717 723 | 748 755 | 743 750 | 860 868 | 9,715 9,803 |
| GAS GT (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 4 4 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 4 4 |
| OIL ST (EQUIVALENT). | 143 143 | 132 132 | 154 154 | 155 155 | 137 137 | 131 131 | 144 144 | 118 118 | 124 124 | 131 131 | 126 126 | 137 137 | 1,632 1,632 |
| OIL GT (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| DIESEL (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| COAL ST (EQUIVALENT) | 230 128 | 203 113 | 244 135 | 236 131 | 252 140 | 236 131 | 239 132 | 239 132 | 224 124 | 232 129 | 229 127 | 242 135 | 2,807 1,558 |
| (EQUIV.TOTAL) | 1,491 | 1,305 | 1,547 | 1,510 | 1,560 | 1,439 | 1,487 | 1,360 | 1,287 | 1,338 | 1,360 | 1,517 | 17,200 |

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

**TABLE2-2-7 ECONOMIC EVALUATION-1
(NORTH)**

FY. 2020

| | ENERGY (GWH) | FIXED COST | | FUEL COST | | PURCHASE MERIT | | TOTAL COST | |
|----------------|-----------------|------------|------------|------------|------------|----------------|------------|------------|------------|
| | | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) |
| OTHERS | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| CONVEN HYDRO | 34,788 | 128,617 | 3.7 | 0 | 0.0 | | | 128,617 | 3.7 |
| PUMPED HYDRO | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| NUCLEAR | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS ST | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS C/C | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS GT | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| OIL ST | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| OIL GT | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| DIESEL | 0 | 345 | 0.0 | 1 | 0.0 | | | 346 | 0.0 |
| COAL ST | 55,261 | 117,648 | 2.1 | 81,608 | 1.5 | | | 199,256 | 3.6 |
| TOTAL | 90,049 | 246,610 | 2.7 | 81,609 | 0.9 | | | 328,219 | 3.6 |
| PURCHASE TOTAL | 0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| RECEIVE KW | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| EC | 0 | | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| SEND KW | 0 | | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| EC | 0 | | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| (DEMAND) | 73,207 | 246,610 | 3.4 | 81,609 | 1.1 | | | 328,219 | 4.5 |
| SHORTAGE | 0 | 246,610 | 3.4 | 81,609 | 1.1 | | | 0 | 0.0 |

**TABLE2-2-8 ECONOMIC EVALUATION-1
(CENTRAL&SOUTH)**

FY. 2020

| | ENERGY (GWH) | FIXED COST | | FUEL COST | | PURCHASE MERIT | | TOTAL COST | |
|----------------|-----------------|------------|------------|------------|------------|----------------|------------|------------|------------|
| | | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) |
| OTHERS | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| CONVEN HYDRO | 36,497 | 136,521 | 3.7 | 0 | 0.0 | | | 136,521 | 3.7 |
| PUMPED HYDRO | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| NUCLEAR | 12,549 | 57,200 | 4.6 | 13,147 | 1.0 | | | 70,347 | 5.6 |
| GAS ST | 12,786 | 24,243 | 1.9 | 79,355 | 6.2 | | | 103,598 | 8.1 |
| GAS C/C | 54,780 | 95,350 | 1.7 | 185,115 | 3.4 | | | 280,465 | 5.1 |
| GAS GT | 14 | 3,372 | 240.8 | 73 | 5.2 | | | 3,445 | 246.0 |
| OIL ST | 5,427 | 13,450 | 2.5 | 32,253 | 5.9 | | | 45,703 | 8.4 |
| OIL GT | 0 | 1,684 | 0.0 | 2 | 0.0 | | | 1,686 | 0.0 |
| DIESEL | 0 | 2,881 | 0.0 | 7 | 0.0 | | | 2,888 | 0.0 |
| COAL ST | 7,103 | 12,194 | 1.7 | 12,213 | 1.7 | | | 24,407 | 3.4 |
| TOTAL | 129,156 | 346,894 | 2.7 | 322,167 | 2.5 | | | 669,061 | 5.2 |
| PURCHASE TOTAL | 0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| RECEIVE KW | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| EC | 0 | | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| SEND KW | 0 | | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| EC | 0 | | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| (DEMAND) | 129,156 | 346,894 | 2.7 | 322,167 | 2.5 | | | 669,061 | 5.2 |
| SHORTAGE | 0 | 346,894 | 2.7 | 322,167 | 2.5 | | | 0 | 0.0 |

2.3 Peak Shift Demand Interconnection;1,300MW No Import (2015)

**TABLE 2-3-1 kW BALANCE (MARGINAL OPERATION)
(NORTH)**

| FY. 2015 | | | | | | | | | | | | | | (MW) |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|------|
| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL | |
| DEMAND | 7,967 | 8,019 | 8,103 | 8,220 | 8,340 | 8,438 | 8,499 | 8,520 | 8,529 | 8,529 | 8,512 | 8,503 | 100,179 | |
| PURCHASE | 79 | 37 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 147 | |
| OTHERS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| HYDRO A | 63 | 69 | 62 | 64 | 65 | 106 | 106 | 106 | 73 | 88 | 105 | 84 | 991 | |
| AB | 4,449 | 4,500 | 4,432 | 4,454 | 4,386 | 6,082 | 5,844 | 5,918 | 4,743 | 5,288 | 4,329 | 4,541 | 58,966 | |
| PA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| PB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| HYDRO TOTAL | 4,512 | 4,569 | 4,494 | 4,518 | 4,452 | 6,188 | 5,950 | 6,024 | 4,816 | 5,376 | 4,435 | 4,625 | 59,958 | |
| THERMAL,NUCLEAR | 5,610 | 5,610 | 5,610 | 5,610 | 5,610 | 5,610 | 5,610 | 5,610 | 5,610 | 5,610 | 5,610 | 5,610 | 67,318 | |
| SUPPLY CAPACITY | 10,200 | 10,216 | 10,135 | 10,128 | 10,061 | 11,798 | 11,560 | 11,634 | 10,426 | 10,985 | 10,044 | 10,235 | 127,422 | |
| MAINTENANCE | 765 | 719 | 539 | 393 | 184 | 1,804 | 1,494 | 1,544 | 325 | 885 | 0 | 164 | 8,816 | |
| RESERVE CAPACITY | 1,468 | 1,478 | 1,493 | 1,515 | 1,537 | 1,555 | 1,566 | 1,570 | 1,572 | 1,572 | 1,532 | 1,567 | 18,427 | |
| RESERVE RATE (%) | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | |
| (REFERENCE) MAINTENANCE | 629 | 619 | 446 | 326 | 116 | 1,735 | 1,425 | 1,474 | 255 | 815 | 0 | 95 | 7,935 | |

**TABLE 2-3-2 kW BALANCE (MARGINAL OPERATION)
(CENTRAL&SOUTH)**

| FY. 2015 | | | | | | | | | | | | | | (MW) |
|----------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|------|
| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL | |
| DEMAND | 13,095 | 13,239 | 13,436 | 13,573 | 13,680 | 13,790 | 13,884 | 13,962 | 14,009 | 14,068 | 14,122 | 14,172 | 165,030 | |
| PURCHASE | -79 | -37 | -31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -147 | |
| OTHERS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| HYDRO A | 200 | 232 | 209 | 208 | 210 | 234 | 270 | 312 | 312 | 312 | 312 | 256 | 3,066 | |
| AB | 4,952 | 5,252 | 4,710 | 4,718 | 4,620 | 4,965 | 5,251 | 5,721 | 6,088 | 6,218 | 6,090 | 5,832 | 64,416 | |
| PA | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| PB | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| HYDRO TOTAL | 5,153 | 5,483 | 4,918 | 4,926 | 4,830 | 5,200 | 5,521 | 6,032 | 6,400 | 6,529 | 6,402 | 6,088 | 67,482 | |
| THERMAL,NUCLEAR | 10,757 | 10,757 | 10,757 | 10,757 | 10,757 | 10,757 | 10,757 | 10,757 | 10,757 | 10,757 | 10,757 | 10,757 | 129,083 | |
| SUPPLY CAPACITY | 15,831 | 16,204 | 15,644 | 15,683 | 15,587 | 15,956 | 16,278 | 16,789 | 17,157 | 17,286 | 17,159 | 16,845 | 196,418 | |
| MAINTENANCE | 1,619 | 1,836 | 1,062 | 952 | 740 | 990 | 1,209 | 1,637 | 1,953 | 2,018 | 1,832 | 1,465 | 17,313 | |
| RESERVE CAPACITY | 1,117 | 1,129 | 1,146 | 1,158 | 1,167 | 1,176 | 1,184 | 1,191 | 1,195 | 1,200 | 1,204 | 1,209 | 14,075 | |
| RESERVE RATE (%) | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | |
| (REFERENCE) MAINTENANCE | 1,542 | 1,722 | 939 | 799 | 585 | 834 | 1,052 | 1,479 | 1,794 | 1,859 | 1,672 | 1,304 | 15,581 | |

**TABLE2-3-5 FUEL CONSUMPTION
(NORTH)**

FY. 2015

(UNIT 10*6)

| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
|-------------------------|--------------|--------------|--------------|--------------|--------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------|
| GAS ST (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| GAS C/C (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| GAS GT (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| OIL ST (EQUIVALENT). | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| OIL GT (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| DIESEL (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 1 1 |
| COAL ST (EQUIVALENT) | 1,326 736 | 1,199 666 | 1,373 762 | 1,360 755 | 1,460 810 | 963 535 | 1,060 588 | 1,034 574 | 1,368 759 | 1,239 687 | 1,421 789 | 1,466 814 | 15,269 8,474 |
| (EQUIV.TOTAL) | 736 | 666 | 762 | 755 | 810 | 535 | 588 | 574 | 759 | 687 | 789 | 814 | 8,475 |

**TABLE2-3-6 FUEL CONSUMPTION
(CENTRAL&SOUTH)**

FY. 2015

(UNIT 10*6)

| MONTH | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
|-------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|----------------|
| GAS ST (EQUIVALENT) | 327 330 | 295 298 | 346 349 | 337 340 | 345 349 | 280 283 | 287 289 | 272 274 | 270 273 | 266 269 | 260 262 | 335 338 | 3,621 3,654 |
| GAS C/C (EQUIVALENT) | 602 608 | 503 507 | 633 639 | 625 630 | 660 666 | 586 591 | 608 614 | 537 542 | 501 506 | 481 485 | 515 520 | 622 628 | 6,873 6,936 |
| GAS GT (EQUIVALENT) | 36 36 | 23 23 | 40 40 | 22 22 | 23 24 | 14 15 | 16 17 | 3 3 | 3 3 | 21 21 | 0 0 | 4 4 | 205 207 |
| OIL ST (EQUIVALENT). | 142 142 | 118 118 | 145 145 | 145 145 | 136 136 | 115 115 | 117 117 | 113 113 | 107 107 | 110 110 | 108 108 | 142 142 | 1,497 1,497 |
| OIL GT (EQUIVALENT) | 3 3 | 2 2 | 3 3 | 1 1 | 0 0 | 1 1 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 10 10 |
| DIESEL (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| COAL ST (EQUIVALENT) | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 | 0 0 |
| (EQUIV.TOTAL) | 1,119 | 948 | 1,176 | 1,138 | 1,175 | 1,005 | 1,037 | 932 | 889 | 885 | 890 | 1,112 | 12,304 |

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

**TABLE2-3-7 ECONOMIC EVALUATION-1
(NORTH)**

FY. 2015

| | ENERGY (GWH) | FIXED COST | | FUEL COST | | PURCHASE MERIT | | TOTAL COST | |
|----------------|-----------------|------------|------------|------------|------------|----------------|------------|------------|------------|
| | | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) |
| OTHERS | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| CONVEN HYDRO | 26,941 | 100,762 | 3.7 | 0 | 0.0 | | | 100,762 | 3.7 |
| PUMPED HYDRO | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| NUCLEAR | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS ST | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS C/C | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS GT | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| OIL ST | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| OIL GT | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| DIESEL | 3 | 345 | 115.1 | 46 | 15.3 | | | 391 | 130.4 |
| COAL ST | 37,357 | 81,093 | 2.2 | 50,136 | 1.3 | | | 131,229 | 3.5 |
| TOTAL | 64,300 | 182,200 | 2.8 | 50,182 | 0.8 | | | 232,382 | 3.6 |
| PURCHASE TOTAL | -8,318 | 1 | 0.0 | -1,770 | 0.2 | -10,527 | 1.3 | -12,296 | 1.5 |
| RECEIVE KW | 6 | 1 | 0.1 | 29 | 5.2 | | | 29 | 5.3 |
| EC | 0 | | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| SEND KW | 0 | | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| EC | -8,324 | | | -1,798 | 0.2 | -10,527 | 1.3 | -12,326 | 1.5 |
| (DEMAND) | 51,743 | 182,201 | 3.5 | 48,412 | 0.9 | | | 220,086 | 4.3 |
| SHORTAGE | 0 | 182,201 | 3.5 | 48,412 | 0.9 | | | 0 | 0.0 |

**TABLE2-3-8 ECONOMIC EVALUATION-1
(CENTRAL&SOUTH)**

FY. 2015

| | ENERGY (GWH) | FIXED COST | | FUEL COST | | PURCHASE MERIT | | TOTAL COST | |
|----------------|-----------------|------------|------------|------------|------------|----------------|------------|------------|------------|
| | | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) | (10*6CENT) | (CENT/kWH) |
| OTHERS | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| CONVEN HYDRO | 28,812 | 110,189 | 3.8 | 0 | 0.0 | | | 110,189 | 3.8 |
| PUMPED HYDRO | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| NUCLEAR | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| GAS ST | 9,848 | 24,243 | 2.5 | 62,363 | 6.3 | | | 86,606 | 8.8 |
| GAS C/C | 37,749 | 64,706 | 1.7 | 118,605 | 3.1 | | | 183,311 | 4.9 |
| GAS GT | 723 | 3,372 | 4.7 | 3,542 | 4.9 | | | 6,914 | 9.6 |
| OIL ST | 4,951 | 13,450 | 2.7 | 28,314 | 5.7 | | | 41,764 | 8.4 |
| OIL GT | 27 | 1,684 | 62.4 | 318 | 11.8 | | | 2,002 | 74.1 |
| DIESEL | 0 | 2,881 | 0.0 | 7 | 0.0 | | | 2,888 | 0.0 |
| COAL ST | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| TOTAL | 82,111 | 220,526 | 2.7 | 213,149 | 2.6 | | | 433,675 | 5.3 |
| PURCHASE TOTAL | 8,318 | 0 | 0.0 | 23,655 | 2.8 | -10,526 | -1.3 | 13,129 | 1.6 |
| RECEIVE KW | 0 | 0 | 0.0 | 0 | 0.0 | | | 0 | 0.0 |
| EC | 8,324 | | | 23,685 | 2.8 | -10,527 | -1.3 | 13,158 | 1.6 |
| SEND KW | -6 | | | -30 | 5.5 | 2 | -0.3 | -29 | 5.2 |
| EC | 0 | | | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 |
| (DEMAND) | 90,429 | 220,526 | 2.4 | 236,804 | 2.6 | | | 446,804 | 4.9 |
| SHORTAGE | 0 | 220,526 | 2.4 | 236,804 | 2.6 | | | 0 | 0.0 |