

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

| | |
|--------|-------------------|
| Date: | November 17, 2019 |
| Hours: | 19:00 Hours |

| Date | Time | Load(MW) |
|-----------|----------|----------|
| 27-Dec-18 | 18:18hrs | 399.35MW |

| Sl. No. | Hydropower Plant | Unit | MW | Name of Feeders | Load (MW) | Sign | Remarks |
|--------------|------------------|--|---------------|--|-------------|------|---|
| 1 | 1020MW THP | Unit- I | 99.89 | 400kV THP - Siliguri Fdr- I | 107.33 | + | Unit-IV & V under shutdown. Unit-III at standby. 400kV THP_SILI II under Maintenance. |
| | | Unit- II | 136.76 | 400kV THP - Siliguri Fdr- II | 0.00 | | |
| | | Unit- III | 0.00 | 400kV THP - Siliguri Fdr- IV | 102.93 | + | |
| | | Unit- IV | 0.00 | 400kV THP - Malbase Fdr- III | 159.54 | + | |
| | | Unit- V | 0.00 | 400kV Malbase - Siliguri | 89.49 | + | |
| | | Unit- VI | 139.77 | - | - | - | |
| | | Total | 376.42 | Error at Station/Auxiliary Consumption/Losses | 6.62 | | |
| 2 | 720MW MHP | Unit-I | 0.00 | 400kV MHP - Jigmeling Fdr - I | 89.40 | + | Unit I at standby. Unit-II under shutdown |
| | | Unit-II | 0.00 | 400kV MHP - Jigmeling Fdr - II | 89.40 | + | |
| | | Unit-III | 83.10 | 400kV MHP - Jigmeling Fdr - III | 0.00 | | |
| | | Unit-IV | 99.60 | 400kV MHP - Jigmeling Fdr - IV | 0.00 | | |
| | | - | - | 200MVA, 400/132kV ICT | 0.00 | | |
| | | - | - | (Local Load) | 0.00 | | |
| | | Total | 182.70 | Error at Station/Auxiliary Consumption/Losses | 3.90 | | |
| 2 | 336MW CHP | Unit- I | 0.00 | 220kV CHP - Birpara Fdr- I | 23.17 | + | Unit-I under shutdown |
| | | Unit- II | 57.33 | 220kV CHP - Birpara Fdr- II | 23.06 | + | |
| | | Unit- III | 60.88 | 220kV CHP - Malbase Fdr- III | 89.93 | + | |
| | | Unit- IV | 60.86 | 220kV CHP - Sementokha Fdr- IV | 23.06 | + | |
| | | - | - | 220kV Malbase - Birpara Fdr. | -30.77 | - | |
| | | - | - | 66kV CHP - Chumdo Fdr. | 13.10 | + | |
| | | - | - | 66kV CHP - Gedu Fdr. | 4.06 | + | |
| | | - | - | 3x3MVA, 66/11kV TFR | 1.63 | + | |
| | | Total | 179.07 | Error at Station/Auxiliary Consumption/Losses | 1.06 | | |
| 3 | 24MW BHP (U/S) | Unit- I | 5.79 | 220kV BHP - Sementokha Fdr. | 29.23 | + | |
| | | Unit- II | 5.79 | 66kV BHP - Lobeysa Fdr. | 16.71 | + | |
| | | Total | 11.58 | 220kV BHP - Tsirang Fdr. | -11.38 | - | |
| | 40MW BHP (L/S) | Unit- I | 11.96 | 5MVA, 66/11kV TFR | 0.66 | + | |
| | | Unit- II | 11.43 | 30MVA ICT, 220/66kV | | | |
| Total | 23.39 | Error at Station/Auxiliary Consumption/Losses | 0.25 | | | | |
| 4 | 126MW DHPC | Unit-I | 0.00 | 220kV DHPC - Tsirang Fdr. | 36.91 | + | Unit I at Standby |
| | | Unit-II | 37.13 | 220kV Jigmeling - Dagapela Fdr. | | | |
| | | - | - | 5MVA, 220/33kV TFR | | | |
| | | Total | 37.13 | Error at Station/Auxiliary Consumption/Losses | 0.22 | | |
| 5 | 60MW KHP | Unit- I | 12.61 | 132kV KHP - Nangkhor Fdr- I | 25.74 | + | Unit-II shutdown |
| | | Unit-II | 0.00 | 132kV KHP - Kilikhar Fdr- II | 7.43 | + | |
| | | Unit- III | 12.60 | 5MVA, 132/11kV TFR | 0.30 | + | |
| | | Unit- IV | 10.15 | 132kV Gelephu - Salakati Fdr. | -8.48 | - | |
| | | - | - | 132kV Motanga - Rangia Fdr. | 8.29 | + | |
| | | - | - | 220kV Tsirang - Jigmeling | 23.47 | + | |
| | | Total | 35.36 | Error at Station/Auxiliary Consumption/Losses | 1.89 | | |

Note: Load summary on November 17, 2019 at 19:00hrs.

| Sl. No | Region | Total Generation (MW) | Total Load [Generation - Export (MW)] | Total Load [Feeder Summation (MW)] | Total Export/Import | Load Balance |
|--------|--------------|-----------------------|---------------------------------------|------------------------------------|---------------------|--------------|
| 1 | Western Grid | 627.59 | 288.91 | 281.26 | 315.21 | 7.65 |
| 2 | Eastern Grid | 218.06 | 62.92 | 57.13 | 178.61 | 5.79 |
| | Total | 845.65 | 351.83 | 338.39 | 493.82 | 13.44 |

Note: Load Summary on November 17, 2018 at 19:00hrs

| Sl. No | Region | 19:00Hrs Load (MW) | Day Peak Load (MW) | Month Peak Load (MW) |
|--------|-----------------|--------------------|--------------------|----------------------|
| 1 | Western Grid | 253.25 | 265.82 | 281.60 |
| 2 | Eastern Grid | 58.84 | 61.73 | 62.24 |
| | National | 312.09 | 327.55 | 343.84 |

NOTES:

- The Instantaneous load balance is calculated as (Total generation - (Total export-Import) - Total domestic load) do not tend towards zero. This could be due to the following reasons:
 - Not all the meters are digital and nor are all the meter at all locations can be read at same time (say 9:00hrs) due to many meter to be read manually.
 - The clocks of all the locations are not synchronized.
- This report is generated to give an idea of the generation & load flow for the system at a particular instant.

LOAD-GENERATION BALANCE REPORT

Maximum Load/Demand till Date

| | |
|--------|-------------------|
| Date: | November 18, 2019 |
| Hours: | 09:00 Hours |

| Date | Time | Load(MW) |
|-----------|----------|----------|
| 27-Dec-18 | 18:18hrs | 399.35MW |

| Sl. No. | Hydropower Plant | Unit | MW | Name of Feeders | Load (MW) | Sign | Remarks |
|--------------|------------------|--|---------------|--|-------------|------|---|
| 1 | 1020MW THP | Unit- I | 100.17 | 400kV THP - Siliguri Fdr- I | 80.90 | + | Unit-IV & V under shutdown. Unit-III at standby. 400kV THP_SILI-II under Maintenance. |
| | | Unit- II | 100.61 | 400kV THP - Siliguri Fdr- II | 0.00 | | |
| | | Unit- III | 0.00 | 400kV THP - Siliguri Fdr- IV | 76.27 | + | |
| | | Unit- IV | 0.00 | 400kV THP - Malbase Fdr- III | 118.77 | + | |
| | | Unit- V | 0.00 | 400kV Malbase - Siliguri | 65.76 | + | |
| | | Unit- VI | 81.04 | - | - | - | |
| | | Total | 281.82 | Error at Station/Auxiliary Consumption/Losses | 5.88 | | |
| 2 | 720MW MHP | Unit-I | 0.00 | 400kV MHP - Jigmeling Fdr - I | 92.40 | + | Unit-I at standby. Unit-II under shutdown |
| | | Unit-II | 0.00 | 400kV MHP - Jigmeling Fdr - II | 92.40 | + | |
| | | Unit-III | 85.21 | 400kV MHP - Jigmeling Fdr - III | 0.00 | | |
| | | Unit-IV | 104.07 | 400kV MHP - Jigmeling Fdr - IV | 0.00 | | |
| | | - | - | 200MVA, 400/132kV ICT | 0.00 | | |
| | | - | - | (Local Load) | | | |
| | | Total | 189.28 | Error at Station/Auxiliary Consumption/Losses | 4.48 | | |
| 3 | 336MW CHP | Unit- I | 0.00 | 220kV CHP - Birpara Fdr- I | 18.56 | + | Unit-I under shutdownn. |
| | | Unit- II | 42.62 | 220kV CHP - Birpara Fdr- II | 18.41 | + | |
| | | Unit- III | 48.65 | 220kV CHP - Malbase Fdr- III | 92.57 | + | |
| | | Unit- IV | 49.89 | 220kV CHP - Sementokha Fdr- IV | -3.82 | - | |
| | | - | - | 220kV Malbase - Birpara Fdr. | -40.02 | - | |
| | | - | - | 66kV CHP - Chumdo Fdr. | 8.19 | + | |
| | | - | - | 66kV CHP - Gedu Fdr. | 5.51 | + | |
| | | - | - | 3x3MVA, 66/11kV TFR | 1.01 | + | |
| | | Total | 141.16 | Error at Station/Auxiliary Consumption/Losses | 0.73 | | |
| 4 | 24MW BHP (U/S) | Unit- I | 5.74 | 220kV BHP - Sementokha Fdr. | 42.42 | + | |
| | | Unit- II | 5.74 | 66kV BHP - Lobeysa Fdr. | 13.86 | + | |
| | | Total | 11.48 | 220kV BHP - Tsirang Fdr. | -21.87 | - | |
| | 40MW BHP (L/S) | Unit- I | 11.88 | 5MVA, 66/11kV TFR | 0.38 | + | |
| | | Unit- II | 11.34 | 30MVA ICT, 220/66kV | | | |
| Total | 23.22 | Error at Station/Auxiliary Consumption/Losses | -0.09 | | | | |
| 5 | 126MW DHPC | Unit-I | 0.00 | 220kV DHPC - Tsirang Fdr. | 35.93 | + | Unit-I Standby |
| | | Unit-II | 36.13 | 220kV Jigmeling - Dagapela Fdr. | | | |
| | | - | - | 5MVA, 220/33kV TFR | | | |
| | | Total | 36.13 | Error at Station/Auxiliary Consumption/Losses | 0.20 | | |
| 6 | 60MW KHP | Unit- I | 12.61 | 132kV KHP - Nangkhon Fdr- I | 28.79 | + | Unit-II under shutdown |
| | | Unit-II | 0.00 | 132kV KHP - Kilikhar Fdr- II | 4.51 | + | |
| | | Unit- III | 12.60 | 5MVA, 132/11kV TFR | 0.40 | + | |
| | | Unit- IV | 10.15 | 132kV Gelephu - Salakati Fdr. | -6.07 | - | |
| | | - | - | 132kV Motanga - Rangia Fdr. | 5.00 | + | |
| | | - | - | 220kV Tsirang - Jigmeling | 13.90 | + | |
| | | Total | 35.36 | Error at Station/Auxiliary Consumption/Losses | 1.66 | | |

Note: Load summary on November 18, 2019 at 09:00hrs.

| Sl. No | Region | Total Generation (MW) | Total Load [Generation - Export (MW)] | Total Load [Feeder Summation (MW)] | Total Export/Import | Load Balance |
|--------|--------------|-----------------------|---------------------------------------|------------------------------------|---------------------|--------------|
| 1 | Western Grid | 493.81 | 260.03 | 253.31 | 219.88 | 6.72 |
| 2 | Eastern Grid | 224.64 | 54.81 | 48.67 | 183.73 | 6.14 |
| | Total | 718.45 | 314.84 | 301.98 | 403.61 | 12.86 |

Note: Load Summary on November 18, 2018 at 09:00hrs

| Sl. No | Region | 09:00Hrs Load (MW) | Day Peak Load (MW) | Month Peak Load (MW) |
|--------|-----------------|--------------------|--------------------|----------------------|
| 1 | Western Grid | 239.94 | 274.28 | 293.93 |
| 2 | Eastern Grid | 38.36 | 52.59 | 62.30 |
| | National | 278.30 | 326.87 | 356.23 |

NOTES:

- The Instantaneous load balance is calculated as (Total generation - (Total export-Import) - Total domestic load) do not tend towards zero. This could be due to the following reasons:
 - Not all the meters are digital and nor are all the meter at all locations can be read at same time (say 9:00hrs) due to many meter to be read manually.
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