

Note on

Maharashtra Power System Overview, Under frequency operation, Load shedding (Planned and Distress) for the month of Dec-2014.

Maharashtra system Overview:

The overview of Maharashtra system operation for the month of Dec-2014 with respect to availability and shortfall is elaborated as under.

- The power supply position for **STATE** in Dec-14 are given below:-
 - The State *maximum* demand was recorded as 19262 MW (including load shedding of 58 MW) on 10/12/2014 at 11:00Hrs.
 - The State *minimum* demand was recorded as 11961 MW on 20/12/2014 at 03:00Hrs.
 - The State *maximum CATERED* demand was recorded as 19204 MW on 10/12/2014 at 11:00Hrs.
 - The State has Catered 11563 Mus in the Month (Average 373 Mus) and max Catered Mus was 403.2 on 11/12/2014.

- The power supply position for **MSEDCL** in Dec-14 are given below:-
 - The *maximum* demand of MSEDCL was recorded as 16518MW (including load shedding of 58 MW) on 10/12/2014 at 11:00Hrs.
 - The *minimum* demand of MSEDCL was recorded as 10611 MW on 20/12/2014 at 03:00Hrs.
 - The *maximum CATERED* demand of MSEDCL was recorded as 16460 MW on 10/12/2014 at 11:00Hrs.
 - MSEDCL has Catered 10031 Mus in the Month (Average 323.6 Mus) and max Catered Mus was 347.8 on 11/12/2014.

- The power supply position for **Mumbai system** in Dec-14 are given below:-
 - The *maximum* demand of MUMBAI SYSTEM was recorded as 2990 MW on 12/12/2014 at 12:00Hrs.
 - The *minimum* demand of MUMBAI SYSTEM was recorded as 1212 MW on 29/12/2014 at 04:00Hrs.
 - The MUMBAI SYSTEM has Catered 1532 Mus in the Month (Average 49.4 Mus) and max Mus Catered was 57.3 on 12/12/2014.

Load shedding in MSEDCL area :

- Revised Feeder wise planned load shedding protocol in MSEDCL, based on MERC Order in Case No.41 of 2012 dt.26.11.2012, is implemented wef. 16/01/2013 by MSEDCL as per circular No.46 Dated 14/01/2013. The Hourly load relief quantum is submitted at the end of the day, daily, by LM cell of MSEDCL, Kalwa.
- Max. load shedding was recorded as 860 MW on 30/12/2014 at 13:00 Hrs. and Min. load shedding was recorded as 49 MW on 05/12/2014. Average load shedding quantum for the month was 74 MW.
- Planned load shedding for load relief is carried out in MSEDCL area to mitigate the availability in real time. In addition, AG-LM load management scheme was in force for defined hours, as per the load shedding circular.
- There was no distress load shedding due to shortfall of supply during the month.

Other Highlights of Maharashtra System in Dec-14.

- MSPGCL Parli TPS generation Units 3 (210 MW), is under shut down due to water shortage w.e.f.15/02/2013. And Bhusawal U#2(210MW) , Koradi U#5(200MW) and Chandrapur U#1(210MW) are declared under Economic shutdown by MAHAGENCO.
 - TPCL U#8 tripped on 09/01/2014 due to fire in turbine track, synchronized on 16/11/2014 at 19:59Hrs. TPCL U#7A & 7B was withdrawn since 11/12/2014 for Mandatory gas path inspection. But it can not be taken on bar now due to Rotor fault reason
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- RGPPL generation was NIL in Dec-14. RGPPL generation (Total:-1967MW & MSEDCL share:- 1888 MW) is under shutdown due to gas shortage w.e.f. 29/12/2013.
 - 3.685 TMC of Koyna water was utilized for Dec 2014.
 - Wind Generation for the month was 220.7 Mus. Average wind generation was 296.6 MW/hour.
 - The average grid frequency for the month was 49.96 Hz. The Instantaneous Maximum frequency was 50.57 Hz. and Minimum frequency was 49.52 Hz.
 - There was no instance of under frequency operation during the month.
 - MSPGCL Thermal availability was as high as 5992 MW (hourly max) on 03/12/2014 at 14:00 hrs.
 - MSPGCL Thermal availability was as low as 4213 MW (hourly min) on 11/12/2014 at 03:00 hrs.
 - Max. Voltage at MSETCL 400 kV Substation was recorded at Kalwa S/s (440 kV) and Min voltage was recorded at Lamboti S/s (371 kV).
 - There was no planned load shedding in Mumbai area (i.e. BEST, R-Infra-D, and TPC-D) during the month.
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