

Note on

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

Maharashtra system Overview:

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

- The power supply position for **STATE** in July-14 are given below:-
 - The State *maximum* demand was recorded as 19345 MW (including load shedding of 62 MW) on 01/07/2014 at 16:00Hrs.
 - The State *minimum* demand was recorded as 11936 MW on 30/07/2014 at 05:00Hrs.
 - The State *maximum CATERED* demand was recorded as 19283 MW on 01/07/2014 at 16:00Hrs.
 - The State has Catered 11246 Mus in the Month (Average 362.8 Mus) and max daily Catered Mus was 427.7 on 01/07/2014.

- The power supply position for **MSEDCL** in July-14 are given below:-
 - The *maximum* demand of MSEDCL was recorded as 16162 MW (including load shedding of 58 MW) on 01/07/2014 at 11:00Hrs.
 - The *minimum* demand of MSEDCL was recorded as 10280 MW on 23/07/2014 at 02:00Hrs.
 - The *maximum CATERED* demand of MSEDCL was recorded as 16104 MW on 01/07/2014 at 11:00Hrs.
 - MSEDCL has Catered 9511 Mus in the Month (Average 306.8 Mus) and max daily Catered Mus was 361.8 on 01/07/2014.

- The power supply position for **Mumbai system** in July-14 are given below:-
 - The *maximum* demand of MUMBAI SYSTEM was recorded as 3257 MW on 01/07/2014 at 16:00Hrs.
 - The *minimum* demand of MUMBAI SYSTEM was recorded as 1524 MW on 12/07/2014 at 4:00Hrs.
 - The MUMBAI SYSTEM has Catered 1735 Mus in the Month (Average 56 Mus) and max daily Mus Catered was 65.9 on 01/07/2014.

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 474 MW on 03/07/2014 at 13:00 Hrs. and Min. load shedding was recorded as 18 MW on 09/07/2014. Average load shedding quantum for the month was 77.6 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 July-14.

- MSPGCL Parli TPS generation Units 3 (210 MW), is under shut down due to water shortage w.e.f.15/02/2013. Parli Unit 4(210MW) & 5(210MW) is under shutdown due to Water shortage w.e.f.29/06/2014 & 30/07/2014 respectively. Also Parli Unit 6(250MW) & 7(250MW) is under shutdown due to water shortage w.e.f.01/08/2014. Now, **Parli power station generation(1130MW) is NIL w.e.f.01/08/2014**
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- RGPPL generation was NIL in July-14. RGPPL generation (Total:-1967MW & MSEDCL share:- 1888 MW) is under shutdown due to gas shortage w.e.f. 29/12/2013.
 - 1.667 TMC of Koyna water was utilized for July 2014. Koyna Lake level was minimum i.e.2034.9ft on 10/07/2014 and reached to 2141.4ft on 04/08/2014 due to monsoon arrival.
 - Wind Generation for the month was 1082 Mus. Average wind generation was 1454 MW/hour.
 - The average grid frequency for the month was 49.90 Hz. The Instantaneous Maximum frequency was 50.33 Hz. and Minimum frequency was 49.34 Hz.
 - There was no instance of under frequency operation during the month.
 - MSPGCL Thermal availability was as high as 5327 MW (hourly max) on 04/07/2014 at 13:00 hrs.
 - MSPGCL Thermal availability was as low as 3576 MW (hourly min) on 31/07/2014 at 23:00 hrs.
 - Max. Voltage at MSETCL 400 kV Substation was recorded at Kalwa S/s (439 kV) and Min voltage was recorded at Lamboti S/s (368 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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