

Note on

Maharashtra Power System Overview, Under frequency operation, Load shedding (Planned and Distress) for the month of Jan-2015.

Maharashtra system Overview:

The overview of Maharashtra system operation for the month of Jan-2015 with respect to availability and shortfall is elaborated as under.

- The power supply position for **STATE** in Jan-15 are given below:-
 - The State *maximum* demand was recorded as 18967 MW (including load shedding of 559 MW) on 15/01/2015 at 10:00Hrs.
 - The State *minimum* demand was recorded as 10572 MW on 05/01/2015 at 04:00Hrs.
 - The State *maximum CATERED* demand was recorded as 18408 MW on 15/01/2015 at 10:00Hrs.
 - The State has Catered 11009 Mus in the Month (Average 355 Mus) and max Catered Mus was 370.8 on 31/01/2015.

- The power supply position for **MSEDCL** in Jan-15 are given below:-
 - The *maximum* demand of MSEDCL was recorded as 16678 MW (including load shedding of 559 MW) on 15/01/2015 at 10:00Hrs.
 - The *minimum* demand of MSEDCL was recorded as 9307 MW on 05/01/2015 at 04:00Hrs.
 - The *maximum CATERED* demand of MSEDCL was recorded as 16119 MW on 15/01/2015 at 10:00Hrs.
 - MSEDCL has Catered 9603 Mus in the Month (Average 309.8 Mus) and max Catered Mus was 324.3 on 31/01/2015.

- The power supply position for **Mumbai system** in Jan-15 are given below:-
 - The *maximum* demand of MUMBAI SYSTEM was recorded as 2562 MW on 06/01/2015 at 12:00Hrs.
 - The *minimum* demand of MUMBAI SYSTEM was recorded as 1153 MW on 27/01/2015 at 04:00Hrs.
 - The MUMBAI SYSTEM has Catered 1405 Mus in the Month (Average 45.3 Mus) and max Mus Catered was 49.2 on 06/01/2015.

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 1006 MW on 23/01/2015 at 13:00 Hrs. and Min. load shedding was recorded as 52 MW on 07/01/2015. Average load shedding quantum for the month was 129 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 Jan-15.

- 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#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. TPCL U#5 withdrawn for Capital Overhaul on 03/01/2015. And R-Infra DTPS U#2 was withdrawn since 04/01/2015 due to Stator earth fault.
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- RGPPL generation was NIL in Jan-15. RGPPL generation (Total:-1967MW & MSEDCL share:- 1888 MW) is under shutdown due to gas shortage w.e.f. 29/12/2013.
 - 2.751 TMC of Koyna water was utilized for Jan 2015.
 - Wind Generation for the month was 140.8 Mus. Average wind generation was 189.2 MW/hour.
 - The average grid frequency for the month was 49.97 Hz. The Instantaneous Maximum frequency was 50.52 Hz. and Minimum frequency was 49.53 Hz.
 - There was no instance of under frequency operation during the month.
 - MSPGCL Thermal availability was as high as 5968 MW (hourly max) on 20/01/2015 at 13:00 hrs.
 - MSPGCL Thermal availability was as low as 3757 MW (hourly min) on 28/01/2015 at 02:00 hrs.
 - Max. Voltage at MSETCL 400 kV Substation was recorded at Jejuri, Karad and Kalwa S/s (439 kV) and Min voltage was recorded at Lamboti S/s (370 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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