

Note on**Maharashtra Power System Overview, Under frequency operation, Load shedding (Planned and Distress) for the month of Jan-2016.****Maharashtra system Overview:**

The overview of Maharashtra system operation for the month of Jan.-2016 with respect to availability and shortfall is elaborated as under.

- The power supply position for **STATE** in Jan.-2016 are given below:-

| Sr No. | Particulars | Recorded Demand/Requirement | Date | Time |
|--------|----------------------|--------------------------------------|------------|-----------|
| 1 | Max. Demand | 18647 MW (with Load shedding 13 MW) | 14.01.2016 | 11:00 Hrs |
| 2 | Min. Demand | 11860 MW | 27.01.2016 | 04:00 Hrs |
| 3 | Max . Demand Catered | 18634 MW | 14.01.2016 | 11:00 Hrs |
| 4 | Energy Catered | 11480 Mus | | |
| 5 | Max. Energy Catered | 386.2 Mus | 12.01.2016 | |
| 6 | Avg. Energy Catered | 370.3 Mus | | |

- The power supply position for **MSEDCL** in Jan-16 are given below :-

| Sr No. | Particulars | Recorded Demand/Requirement | Date | Time |
|--------|----------------------|--------------------------------------|------------|-----------|
| 1 | Max. Demand | 16254 MW (with Load shedding 12 MW) | 13.01.2016 | 09:00 Hrs |
| 2 | Min. Demand | 10618 MW | 27.01.2016 | 01:00 Hrs |
| 3 | Max . Demand Catered | 16242 MW | 13.01.2016 | 09:00 Hrs |
| 4 | Energy Catered | 10022 Mus | | |
| 5 | Max. Energy Catered | 327.1 Mus | 30.01.2016 | |
| 6 | Avg. Energy Catered | 323.3 Mus | | |

- The power supply position for **Mumbai system** in Jan.-16 are given below:-

| Sr No. | Particulars | Recorded Demand/Requirement | Date | Time |
|--------|---------------------|-----------------------------|------------|-----------|
| 1 | Max. Demand | 2688 MW | 06.01.2016 | 12:00 Hrs |
| 2 | Min. Demand | 1201 MW | 21.01.2016 | 04:00 Hrs |
| 4 | Energy Catered | 1458.20 Mus | | |
| 5 | Max. Energy Catered | 52.4 Mus | 07.01.2016 | |
| 6 | Avg. Energy Catered | 47 Mus | | |

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 w.e.f. 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 42 MW on 31/01/2016 at 15:00 Hrs. and Min. load shedding was recorded as 06 MW on 27/01/2016 at 02:00 Hrs. Average load shedding quantum for the month was 11.13 MW.
 - Planned load shedding for load relief is carried out in MSEDCL area to mitigate the availability in real time if required. 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.
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Other Highlights of Maharashtra System in Jan.-16.

- RGPPL generation (Total:-1967MW & MSEDCL share:- 1888 MW) was under shutdown due to gas shortage w.e.f. 29/12/2013. The Unit 2A (230MW) and Unit 2B (230 MW) synchronized on 22.01.2016 on 09:26 hrs. The generation in month is 237.934 Mus. The RGPPL Power is scheduled to Railways only.
 - 4.411 TMC of Koyna water was utilized for Jan-2016.
 - Wind Generation for the month was 140 Mus. Average wind generation was 187.63 MW/hour.
 - The average grid frequency for the month was 49.97 Hz. The Instantaneous Maximum frequency was 50.37Hz. and Minimum frequency was 49.69 Hz.
 - There was no instance of under frequency operation during the month.
 - Koradi Unit 9 (660MW) Synch. w.e.f. 21.01.2016
 - MSPGCL Thermal actual generation was as high as 5515 MW (hourly max) on 24/01/2016 at 13:00 hrs.
 - MSPGCL Thermal actual generation was as low as 4184 MW (hourly min) on 30/01/2016 at 02:00 hrs.
 - Max. Voltage at 765KV Substation was recorded at Akola substation i.e 783KV and Min voltage was recorded at Akola substation i.e 727 KV
 - Max. Voltage at MSETCL 400 kV Substation was recorded at Kalwa S/s i.e 440 kV and Min voltage was recorded at Lanikand II S/s i.e 392 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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