

**Note on****Maharashtra Power System Overview, under frequency operation, Load shedding (Planned and Distress) for the month of December-2017.****Maharashtra system Overview:-**

The overview of Maharashtra system operation for the month of December-2017 with respect to availability and shortfall is elaborated as under.

- The power supply position for **STATE** in December -2017 are given below: -

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	20402 MW ( with Load shedding 0 MW)	26.12.2017	12:00 Hrs
2	Min. Demand	12875 MW	06.12.2017	01:00 Hrs
3	Max. Demand Catered	20401 MW	26.12.2017	12:00 Hrs
4	Energy Catered	12641 Mus		
5	Max. Energy Catered	418 Mus	13.12.2017	
6	Avg. Energy Catered	408 Mus		

- The power supply position for **MSEDCL** in December -2017 are given below :-

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	17796 MW ( with Load shedding 0 MW)	26.12.2017	12:00 Hrs
2	Min. Demand	11208 MW	06.12.2017	01:00 Hrs
3	Max. Demand Catered	17795 MW	26.12.2017	12:00 Hrs
4	Energy Catered	11097 Mus		
5	Max. Energy Catered	368 Mus	14.12.2017	
6	Avg. Energy Catered	358 Mus		

- The power supply position for **Mumbai system** in December -2017 are given below:-

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	2927 MW	04.12.2017	12:00 Hrs
2	Min. Demand	1336 MW	15.12.2017	04:00 Hrs
3	Energy Catered	1544 Mus		
4	Max. Energy Catered	56 Mus	04.12.2017	
5	Avg. Energy Catered	50 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 987 MW and Min. load shedding was recorded as 0 MW. Average load shedding quantum for the month was 2.11 MW.
  - Planned load shedding for load relief is carried out in MSEDCL area to mitigate the availability in real time if required. AG-LM load management scheme is revised as per the new load shedding circular w.e.f. 17.09.2017 vide MSEDCL letter no. ED-I/Ag Time Change/22352 dt, 15.09.2017, 3 phase supply to AG loads will be 10/8 Hrs. w.e.f. 17.09.2017.
  - There was no distress load shedding due to shortfall of supply during the month.
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### **Other Highlights of Maharashtra System in December -17.**

- The RGPPL Power is scheduled to Railways only.
  - 1.885 TMC of Koyna water was utilized for December -2017.
  - Wind Generation for the month was 324 Mus. Average wind generation was 435 MW/hour.
  - The average grid frequency for the month was 49.97 Hz. The Instantaneous Maximum frequency was 50.13 Hz and Minimum frequency was 49.84 Hz.
  - There was no instance of under frequency operation during the month.
  - MSPGCL Thermal actual generation was as high as 6089 MW (hourly max) on 13/12/2017 at 08:00 hrs.
  - MSPGCL Thermal actual generation was as low as 3805 MW (hourly min) on 05/12/2017 at 03:00 hrs.
  - Max. Voltage at 765KV Substation was recorded at 765KV Ektuni substation i.e 782 KV and Min voltage was recorded at 765KV Tirora substation i.e 755 KV
  - Max. Voltage at MSETCL 400 kV Substation was recorded at 400KV Kalwa i.e 440 kV and Min voltage was recorded at 400KV Lamboti i.e 389 kV
  - There was no planned load shedding in Mumbai area (BEST, R-infra-D and TPC-D) during the month.
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