

**Note on****Maharashtra Power System Overview, under frequency operation, Load shedding (Planned and Distress) for the month of March - 2023****Maharashtra system Overview: -**

The overview of Maharashtra system operation for the month of March - 2023 with respect to availability and shortfall is elaborated as under.

- The power supply position for **STATE** in March - 2023 are given below: -

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	28566 MW ( with Load shedding 0 MW )	04.03.2023	12:00 Hrs.
2	Min. Demand	18262 MW	07.03.2023	04:00 Hrs.
3	Max. Demand Catered	28566 MW	04.03.2023	12:00 Hrs.
4	Energy Catered	17815 MUs		
5	Max. Energy Catered	609 MUs	04.03.2023	
6	Avg. Energy Catered	575 MUs		

- The power supply position for **MSEDCL** in March - 2023 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	24893 MW ( with Load shedding 0 MW )	04.03.2023	12:00 Hrs.
2	Min. Demand	15939 MW	07.03.2023	04:00 Hrs.
3	Max. Demand Catered	24893 MW	04.03.2023	12:00 Hrs.
4	Energy Catered	15549 MUs		
5	Max. Energy Catered	532 MUs	04.03.2023	
6	Avg. Energy Catered	502 MUs		

- The power supply position for **Mumbai system** in March - 2023 are given below: -

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	3443 MW	14.03.2023	16:00 Hrs.
2	Min. Demand	1847 MW	27.03.2023	04:00 Hrs.
3	Energy Catered	1952 MUs		
4	Max. Energy Catered	70 MUs	14.03.2023	
5	Avg. Energy Catered	63 MUs		

- The power supply position for **Other Discoms** (Indian Railway, Mind Space, Gigaplex, KRC Infrastructure, Nidar Utilities, MADDC, E-ON Phase I, E-ON Phase II, Laxmi Pati) in March - 2023 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	505 MW ( with Load shedding 0 MW )	24.03.2023	17:00 Hrs.
2	Min. Demand	305 MW	10.03.2023	04:00 Hrs.
3	Max. Demand Catered	505 MW	24.03.2023	17:00 Hrs.
4	Energy Catered	314 MUs		
5	Max. Energy Catered	11 MUs	24.03.2023	
6	Avg. Energy Catered	10 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. Circular no. 46 is temporarily modified by circular no 56 dt. 18.04.2022. 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 463 MW and Min. load shedding was recorded as 53 MW. Load shedding was carried out on 15.03.2023 due to overdrawl.
- 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 load shedding circular w.e.f. 20.04.2022 vide MSEDCL letter no. ED(II)/LM/PLS/09490 dated 18.04.2022, 3 phase supply to AG loads will be 8/10 Hrs. w.e.f. 20.04.2022.

### **Other Highlights of Maharashtra System in March - 2023**

- 5.41 TMC of Koyna water is utilized for March – 2023.
  - Wind Generation for the month was 387 MUs. Average wind generation was 520 MW/hour.
  - The average grid frequency for the month was 49.99 Hz. The Instantaneous Maximum frequency was 50.47 Hz and Minimum frequency was 49.56 Hz.
  - MSPGCL Thermal actual generation was as high as 8016 MW (hourly max) on 28.03.23.
  - MSPGCL Thermal actual generation was as low as 4850 MW (hourly min) on 19.03.23.
  - Max. Voltage at 765kV Substation was recorded as 798 KV at 765KV Akola substation and Min. voltage was recorded as 746 kV at 765kV Ektuni substation.
  - Max.Voltage at MSETCL 400 kV Substation recorded as 439kV at 400kV Kalwa and Min. voltage was recorded 373 kV at 400kV Lonikand-II substation.
  - There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.
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