

**Maharashtra Power System Overview for the month of March – 2025****A. Maharashtra system Overview: -**

The overview of Maharashtra system operation for the month of March - 2025 with respect to availability and shortfall is elaborated as under.

- The power supply position for **STATE** in March - 2025 are given below: -

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	30675 MW ( with Load shedding 0 MW )	13.03.2025	11:00 Hrs.
2	Min. Demand	23551 MW	14.03.2025	19:00 Hrs.
3	Max. Demand Catered	30675 MW	13.03.2025	11:00 Hrs.
4	Energy Catered	20401 MUs	-	-
5	Max. Energy Catered	686 MUs	13.03.2025	-
6	Avg. Energy Catered	658 MUs	-	-

- The power supply position for **MSEDCL** in March - 2025 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	26495 MW ( with Load shedding 0 MW )	13.03.2025	11:00 Hrs.
2	Min. Demand	20358 MW	14.03.2025	19:00 Hrs.
3	Max. Demand Catered	26495 MW	13.03.2025	11:00 Hrs.
4	Energy Catered	17825 MUs	-	-
5	Max. Energy Catered	596 MUs	13.03.2025	-
6	Avg. Energy Catered	575 MUs	-	-

- The power supply position for **Mumbai System** in March - 2025 are given below: -

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	3768 MW	13.03.2025	16:00 Hrs.
2	Min. Demand	2064 MW	03.03.2025	05:00 Hrs.
3	Energy Catered	2167 MUs	-	-
4	Max. Energy Catered	76 MUs	13.03.2025	-
5	Avg. Energy Catered	70 MUs	-	-

- The power supply position for **Other Discoms** (Indian Railway, Mind Space, Gigaplex, KRC Infrastructure, Nidar Utilities, MADC, E-ON Phase I, E-ON Phase II, Laxmi Pati, JNPA, ASL, SEZ Biotech Hadapsar, Manjri) in March - 2025 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	649 MW	18.03.2025	20:00 Hrs.
2	Min. Demand	415 MW	11.03.2025	04:00 Hrs.
3	Energy Catered	408 MUs	-	-
4	Max. Energy Catered	14 MUs	20.03.2025	-
5	Avg. Energy Catered	13 MUs	-	-

#### **B. 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.
- 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.

Load shedding due to less generation was **0.069** Mus on 21.03.2025 & due to transmission constraint was **12.40** Mus on several days during the month.

### **C. Other Highlights of Maharashtra System in March- 2025**

- MSPGCL Thermal actual generation was as high as 8463 MW (hourly max) on 04.03.25 and was as low as 5358 MW (hourly min) on 22.03.25.
- Solar Generation for the month was 777 MUs. Maximum Solar generation was 3754 MW at 08.03.25 at 13:00 Hrs.
- Wind Generation for the month was 298 MUs. Maximum Wind generation was 1217 MW at 26.03.25 at 20:00 Hrs.
- **11.928** TMC of Koyna water is utilized in the month of March – 2025 and total cumulative usage of TMC in Water Year 2024-25 is **47.129**. Balance TMC for WY 2024-25 is **20.371** TMC as on 31.03.2025.
- The average grid frequency for the month was 50.00 Hz. The Instantaneous Maximum frequency was 50.44 Hz at 13:10 Hrs on 05.03.2025 and Minimum frequency was 49.61 Hz at 06:00 Hrs on 30.03.2025.
- Max. 765 kV Voltage in MSETCL was recorded as **796** kV at Akola substation and Min. voltage was recorded as **744** kV at Ektuni substation.
- Max. 400 kV Voltage in MSETCL was recorded as **431** kV at New Koyna substation and Min. voltage was recorded **355** kV at Padgha substation.
- There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.

### **During the month of March-2025 the following major occurrence was reported:**

- A severe voltage collapse occurred in Mumbai, MMR, Pune, Nashik, Boisar, and Nagothane at 14:55 hrs on 12th March 2025, due to Multiple transmission lines and generators tripping in South Gujarat led to excessive power flow from Maharashtra to Gujarat. Load shedding to the tune of 3922 MW was carried out across Maharashtra to stabilize the system. (Detailed report submitted to Hon. Commission)
- **During the month of March-2025, the following important elements related to Mumbai/MMR were commissioned:**
  1. 125 MVAR bus reactor at the 220 kV Mahalaxmi (TPC) substation was charged on 26.03.2025.
  2. a. 220 kV Kudus–Tarapur and 220 kV Kudus–Borivali lines were charged on 28.03.2025  
b. 220 kV Kudus–Boisar and 220 kV Kudus–Ghodbunder lines were charged on 30.03.2025
  3. At 400 kV Kharghar substation, 400/220/33 kV, 500 MVA, ICT first time were charged on 31.03.2025 & at 400 kV Padghe substation, 400/220/33 kV 500 MVA, ICT-6 first time charged on 31.03.2025.

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