

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

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

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	29826 MW (with Load shedding 0 MW)	30.01.2025	11:00 Hrs.
2	Min. Demand	20290 MW	06.01.2025	03:00 Hrs.
3	Max. Demand Catered	29826 MW	30.01.2025	11:00 Hrs.
4	Energy Catered	18388 MUs	-	-
5	Max. Energy Catered	629 MUs	30.01.2025	-
6	Avg. Energy Catered	593 MUs	-	-

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

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	26256 MW (with Load shedding 0 MW)	30.01.2025	11:00 Hrs.
2	Min. Demand	17848 MW	05.01.2025	24:00 Hrs.
3	Max. Demand Catered	26256 MW	30.01.2025	11:00 Hrs.
4	Energy Catered	16184 MUs	-	-
5	Max. Energy Catered	556 MUs	30.01.2025	-
6	Avg. Energy Catered	522 MUs	-	-

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	3207 MW	27.01.2025	12:00 Hrs.
2	Min. Demand	1602 MW	13.01.2025	04:00 Hrs.
3	Energy Catered	1824 MUs	-	-
4	Max. Energy Catered	63 MUs	27.01.2025	-
5	Avg. Energy Catered	59 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) in January - 2025 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	595 MW	03.01.2025	18:00 Hrs.
2	Min. Demand	382 MW	20.01.2025	04:00 Hrs.
3	Energy Catered	379 MUs	-	-
4	Max. Energy Catered	13 MUs	31.01.2025	-
5	Avg. Energy Catered	12 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 **0.639** Mus on 12.01.2025 & due to transmission constraint was **2.920** Mus on several days during the month.

C. Other Highlights of Maharashtra System in January- 2025

- MSPGCL Thermal actual generation was as high as 7339 MW (hourly max) on 10.01.25 and was as low as 4425 MW (hourly min) on 20.01.25.
- Solar Generation for the month was 657 MUs. Maximum Solar generation was 3484 MW at 04.01.25 at 13 Hrs.
- Wind Generation for the month was 301 MUs. Maximum Wind generation was 1620 MW at 02.01.25 at 23 Hrs.
- **4.773** TMC of Koyna water is utilized in the month of January – 2025 and total cumulative usage of TMC in Water Year 2024-25 is **29.483** Balance TMC for WY 2024-25 is **38.016** TMC as on 31.01.2025.
- The average grid frequency for the month was 50.00 Hz. The Instantaneous Maximum frequency was 50.29 Hz at 14:01 Hrs on 26.01.2025 and Minimum frequency was 49.60 Hz at 09:06 Hrs on 11.01.2025.
- Max. 765 kV Voltage in MSETCL was recorded as **792** kV at Akola substation and Min. voltage was recorded as **744** kV at Tiroda substation.
- Max. 400 kV Voltage in MSETCL was recorded as **434** kV at Kalwa substation and Min. voltage was recorded **378** kV at Karjat substation.
- There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.

During the month of January-2024 following major occurrences were reported:

- On 4.01.2025 at 12:25 Hrs, 220 kV Jindal S/s went into the dark due to tripping of both 220 kV Jindal – Ghatghar & 220 kV Jindal- Padghe at 12:25 hrs. During this occurrence load loss of 35 MW occurred for 23 minutes.
- On 22.01.2025 at 14:22 Hrs, 132 kV Dahanu S/s went into the dark due to tripping of 132 kV Dahanu – Boisar-1 (MIDC) line- 2, while 132 kV Dahanu – Boisar-1 (MIDC) line -1 was under planned outage. Load loss of 63 MW occurred due to this event for 1 hour 42 minutes.

During the month of January - 2025, the following important elements related to Mumbai/MMR were commissioned:

1. HTLS work of 400 kV Kalwa - Padghe Ckt-1 completed on 14.01. 2025. Now, both 400 kV Kalwa – Padghe Ckt – I & II are having HTLS conductors, and the corridor (D/C) transmission capacity has increased to 4000 MW.
