

Maharashtra Power System Overview for the month of December – 2024**A. Maharashtra system Overview: -**

The overview of Maharashtra system operation for the month of December - 2024 with respect to availability and shortfall is elaborated as under.

- The power supply position for **STATE** in December - 2024 are given below: -

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	28632 MW (with Load shedding 0 MW)	24.12.2024	11:00 Hrs.
2	Min. Demand	18904 MW	16.12.2024	04:00 Hrs.
3	Max. Demand Catered	28632 MW	24.12.2024	11:00 Hrs.
4	Energy Catered	17675 MUs	-	-
5	Max. Energy Catered	606 MUs	05.12.2024	-
6	Avg. Energy Catered	570 MUs	-	-

- The power supply position for **MSEDCL** in December - 2024 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	25254 MW (with Load shedding 0 MW)	24.12.2024	11:00 Hrs.
2	Min. Demand	16404 MW	15.12.2024	24:00 Hrs.
3	Max. Demand Catered	25254 MW	24.12.2024	11:00 Hrs.
4	Energy Catered	15486 MUs	-	-
5	Max. Energy Catered	522 MUs	05.12.2024	-
6	Avg. Energy Catered	500 MUs	-	-

- The power supply position for **Mumbai System** in December - 2024 are given below: -

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	3583 MW	06.12.2024	13:00 Hrs.
2	Min. Demand	1577 MW	25.12.2024	04:00 Hrs.
3	Energy Catered	1933 MUs	-	-
4	Max. Energy Catered	72 MUs	05.12.2024	-
5	Avg. Energy Catered	58 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 December - 2024 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	592 MW	30.12.2024	12:00 Hrs.
2	Min. Demand	385 MW	10.12.2024	04:00 Hrs.
3	Energy Catered	378 MUs	-	-
4	Max. Energy Catered	13 MUs	30.12.2024	-
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 transmission constraint was **0.368** Mus on several days during the month.

C. Other Highlights of Maharashtra System in December- 2024

- MSPGCL Thermal actual generation was as high as 7545 MW (hourly max) on 17.12.24 and was as low as 4856 MW (hourly min) on 28.12.24.
- Solar Generation for the month was 554 MUs. Maximum Solar generation was 3313 MW at 14.12.24 at 13 Hrs.
- Wind Generation for the month was 299 MUs. Maximum Wind generation was 1494 MW at 15.12.24 at 01 Hrs.
- **3.637** TMC of Koyna water is utilized in the month of December – 2024 and total cumulative usage of TMC in Water Year 2024-25 is **24.710** Balance TMC for WY 2024-25 is **42.790** TMC as on 31.12.2024.
- The average grid frequency for the month was 49.99 Hz. The Instantaneous Maximum frequency was 50.40 Hz at 06:02 Hrs on 15.12.2024 and Minimum frequency was 49.49 Hz at 09:06 Hrs on 22.12.2024.
- Max. 765 kV Voltage in MSETCL was recorded as **793** kV at Ektuni & Akola substations and Min. voltage was recorded as **743** kV at Ektuni substation.
- Max. 400 kV Voltage in MSETCL was recorded as **433** kV at New Koyna substation and Min. voltage was recorded **397** kV at Jaigad substation.
- There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.

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

- On 3.12.2024 at 12:31 Hrs, in 220 kV AEML Saki S/s, main bus -2 with bus coupler tripped and load loss of 48 MW occurred for 8 minutes.
- On 07.12.2024 at 16:36 Hrs, in 220 kV Nerul S/s, LBB operated and substation went in to the dark. Load loss of 75 MW occurred due to this event for 16 minutes
- On 28.12.2024 at 17:16 Hrs, 220 kV Airoli Knowledge Park S/s got dead due to simultaneous tripping of 220 kV Airoli Knowledge Park - Kalwa line at Kalwa end only & 220kV Airoli Knowledge Park - Nashik line. During this occurrence 43 MW load loss occurred for 1 Hour 28 minutes.
