


	<p style="text-align: center;">  MAHA TRANSCO <small>Maharashtra State Electricity Transmission Co. Ltd.</small> MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO.LTD. CIN NO. U40109MH2005SGC153646 Maharashtra State Load Dispatch Center Tele : 91-022-27601762 (P) 91-022-27601931 (O) Extn.1003 Center Email : cesldc@mahasldc.in website : www.mahasldc.in </p> <p style="text-align: right;"> Office of The Chief Engineer Maharashtra State Load Dispatch Thane-Belapur Road, P.O. Airoli Navi Mumbai Pin – 400 708. </p>	<p style="text-align: center;">  RIGHT TO INFORMATION </p> <p style="text-align: center;">  <small>MAHARASHTRA STATE ELECTRICITY TRANSMISSION CO. LTD.</small> </p>
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Ref: MSLDC/Tech/SO/ **No 00542**

Date: **18 MAR 2025**

To
The Secretary,
MERC, Mumbai.

Sub: Monthly system overview report for the month of February - 2025.

Respected Sir,

Please find enclosed herewith the report on “Maharashtra Power System Overview, under frequency operation and load shedding for the month of **February - 2025**.

Submitted for your kind information please.

Thanking you,

Encl: As above.

Yours faithfully,



Girish Pantoji,
Chief Engineer (I/C),
MSLDC, Airoli

Copy s.w.r.s to:
The Executive Director, MSLDC, Airoli.

Copy f.w.cs. to:
The Chief Engineer, STU, MSETCL C.O., Mumbai.

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

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

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	30151 MW (with Load shedding 0 MW)	27.02.2025	11:00 Hrs.
2	Min. Demand	22003 MW	03.02.2025	04:00 Hrs.
3	Max. Demand Catered	30151 MW	27.02.2025	11:00 Hrs.
4	Energy Catered	17601 MUs	-	-
5	Max. Energy Catered	657 MUs	28.02.2025	-
6	Avg. Energy Catered	629 MUs	-	-

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

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	26227 MW (with Load shedding 0 MW)	27.02.2025	11:00 Hrs.
2	Min. Demand	19764 MW	03.02.2025	01:00 Hrs.
3	Max. Demand Catered	26227 MW	27.02.2025	11:00 Hrs.
4	Energy Catered	15523 MUs	-	-
5	Max. Energy Catered	573 MUs	25.02.2025	-
6	Avg. Energy Catered	554 MUs	-	-

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	3529 MW	28.02.2025	12:00 Hrs.
2	Min. Demand	1644 MW	03.02.2025	04:00 Hrs.
3	Energy Catered	1729 MUs	-	-
4	Max. Energy Catered	71 MUs	28.02.2025	-
5	Avg. Energy Catered	62 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 February - 2025 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	609 MW	27.02.2025	18:00 Hrs.
2	Min. Demand	398 MW	03.02.2025	04:00 Hrs.
3	Energy Catered	349 MUs	-	-
4	Max. Energy Catered	13 MUs	27.02.2025	-
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 **0.241** Mus on 24.02.2025 & due to transmission constraint was **8.20** Mus on several days during the month.

C. Other Highlights of Maharashtra System in February- 2025

- MSPGCL Thermal actual generation was as high as 7734 MW (hourly max) on 23.02.25 and was as low as 4737 MW (hourly min) on 05.02.25.
- Solar Generation for the month was 675 MUs. Maximum Solar generation was 3616 MW at 27.02.25 at 13:00 Hrs.
- Wind Generation for the month was 208 MUs. Maximum Wind generation was 889 MW at 27.02.25 at 04:00 Hrs.
- **5.718** TMC of Koyna water is utilized in the month of February – 2025 and total cumulative usage of TMC in Water Year 2024-25 is **35.201** Balance TMC for WY 2024-25 is **32.298** TMC as on 28.02.2025.
- The average grid frequency for the month was 49.99 Hz. The Instantaneous Maximum frequency was 50.32 Hz at 13:02 Hrs on 06.02.2025 and Minimum frequency was 49.56 Hz at 19:02 Hrs on 20.02.2025.
- Max. 765 kV Voltage in MSETCL was recorded as **791** kV at Akola substation and Min. voltage was recorded as **747** kV at Tiroda substation.
- Max. 400 kV Voltage in MSETCL was recorded as **431** kV at new Koyna substation and Min. voltage was recorded **376** 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 February-2024 following major occurrences were reported:

- On 07.02.2025, at 13:12 hrs, the 400 kV Nagothane Substation (S/s) went into dark due to the tripping of all 400 kV lines from the other end, caused by the non-operation of primary protection. As a result, a load loss of 541 MW occurred for a duration of 1 hour and 18 minutes.
- On 22.02.2025, at 11:42 hrs, Bus-1 at 400 kV Kolhapur Substation (S/s) tripped due to the LBB of 220 kV Bidri Circuit Breaker (CB). The overloading of ICT-III (500 MVA) resulted in the operation of the LTS, with a load relief of 346 MW being received from the LTS.
- On 23.02.2025 at 19:09 hrs, 400 kV Talegaon (PG)-Lonikand-1 line tripped due to distance protection, caused by a fire in a sugarcane field at locations No. 27 and No. 28. During this tripping, the LTS on the 400 kV Talegaon-Chakan line was activated, resulting in the automatic curtailment of 316 MW of load. To control the line loading on the Talegaon (PG)-Chakan line, a 186 MW DLS was carried out.
- **During the month of February-2025, the following important elements related to Mumbai/MMR were commissioned:**

1. 220 kV Chembur - BKC Ckt-I and 220 kV Chembur - BKC Ckt-II were charged on 28.02.2025.
