

Maharashtra Power System Overview for the month of August – 2024

A. Maharashtra system Overview: -

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

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	25855 MW (with Load shedding 2173 MW)	21.08.2024	20:00 Hrs.
2	Min. Demand	16999 MW	26.08.2024	03:00 Hrs.
3	Max. Demand Catered	24464 MW	14.08.2024	20:00 Hrs.
4	Energy Catered	15596 MUs	-	-
5	Max. Energy Catered	553 MUs	14.08.2024	-
6	Avg. Energy Catered	503 MUs	-	-

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

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	21891 MW (with Load shedding 2173 MW)	21.08.2024	20:00 Hrs.
2	Min. Demand	14352 MW	26.08.2024	02:00 Hrs.
3	Max. Demand Catered	20874 MW	14.08.2024	20:00 Hrs.
4	Energy Catered	13110 MUs	-	-
5	Max. Energy Catered	469 MUs	14.08.2024	-
6	Avg. Energy Catered	423 MUs	-	-

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	3784 MW	22.08.2024	12:00 Hrs.
2	Min. Demand	1999 MW	05.08.2024	05:00 Hrs.
3	Energy Catered	2130 MUs	-	-
4	Max. Energy Catered	77 MUs	22.08.2024	-
5	Avg. Energy Catered	69 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 August - 2024 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	588 MW	26.08.2024	12:00 Hrs.
2	Min. Demand	349 MW	04.08.2024	02:00 Hrs.
3	Energy Catered	356 MUs	-	-
4	Max. Energy Catered	12 MUs	22.08.2024	-
5	Avg. Energy Catered	11.5 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 availability of Generation and State Over drawl in real time was **10.796** MUs on several days during the month.
- Load shedding due to transmission constraint was **1.165** Mus on several days during the month.

C. Other Highlights of Maharashtra System in August- 2024

- MSPGCL Thermal actual generation was as high as 6872 MW (hourly max) on 14.08.24 and was as low as 4083 MW (hourly min) on 11.08.24.
- Solar Generation for the month was 461 MUs. Maximum Solar generation was 2590 MW at 13.08.24 at 13 Hrs.
- Wind Generation for the month was 946 MUs. Maximum Wind generation was 3232 MW at 02.08.24 at 15 Hrs.
- **5.157** TMC of Koyna water is utilized in the month of August – 2024 and total cumulative usage of TMC in Water Year 2024-25 is **10.649**. Balance TMC for WY 2024-25 is **56.851** TMC as on 31.07.2024.
- The average grid frequency for the month was 50.00 Hz. The Instantaneous Maximum frequency was 50.38 Hz at 12:02 Hrs on 04.08.2024 and Minimum frequency was 49.63 Hz at 15:24 hrs on 22.08.2024.
- Max. 765kV Voltage in MSETCL was recorded as **794** kV at Ektuni substation and Min. voltage was recorded as **745** kV at Tiroda substation.
- Max. 400 kV Voltage in MSETCL was recorded as **436** kV at Kalwa substation and Min. voltage was recorded **379** kV at Chakan, Lonikand-I, & Lonikand-II substations.
- There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.
- During the month of August-2024 following major occurrences were reported:
 - On 24.08.2024 at 03:50 hrs, at 220 kV Chitegaon Sub Station Earth Isolator of 220kV bus sectionaliser (Hybris Pass) closed automatically causing bus fault and operation of Busbar Protection and tripping of all bays. As per DR only Y & B phase found earthed, it is due to mal operation of driving mechanism of earth isolator of bus section 2. During this tripping total 25 MW load affected for 4.12 hrs. Restoration of all elements done by 21:41 hrs.
 - On 31.08.2024 at 10:35 hrs, 220 kV Nalasopara Sub Station went into dark. The tripping was due to mal-operation caused by switchyard works. Complete load was restored by 11:20 hrs and all the elements were restored by 13:06 hrs. During this tripping total 219 MW load affected.
