

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

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

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	25883 MW (with Load shedding 2079 MW)	18.09.2024	19:00 Hrs.
2	Min. Demand	17284 MW	02.09.2024	03:00 Hrs.
3	Max. Demand Catered	25358 MW	20.09.2024	13:00 Hrs.
4	Energy Catered	15391 MUs	-	-
5	Max. Energy Catered	567 MUs	20.09.2024	-
6	Avg. Energy Catered	513 MUs	-	-

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

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	22117 MW (with Load shedding 2079 MW)	18.09.2024	19:00 Hrs.
2	Min. Demand	14579 MW	02.09.2024	03:00 Hrs.
3	Max. Demand Catered	21260 MW	20.09.2024	13:00 Hrs.
4	Energy Catered	12978 MUs	-	-
5	Max. Energy Catered	481 MUs	20.09.2024	-
6	Avg. Energy Catered	433 MUs	-	-

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	3746 MW	23.09.2024	12:00 Hrs.
2	Min. Demand	1986 MW	29.09.2024	05:00 Hrs.
3	Energy Catered	2054 MUs	-	-
4	Max. Energy Catered	75MUs	23.09.2024	-
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 September - 2024 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	594 MW	20.09.2024	19:00 Hrs.
2	Min. Demand	378 MW	05.09.2024	04:00 Hrs.
3	Energy Catered	359 MUs	-	-
4	Max. Energy Catered	12 MUs	16.09.2024	-
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 less availability of Generation and State Over drawl in real time was **36.383** MUs on several days during the month.
- Load shedding due to transmission constraint was **4.935** Mus on several days during the month.

C. Other Highlights of Maharashtra System in September- 2024

- MSPGCL Thermal actual generation was as high as 6926 MW (hourly max) on 24.09.24 and was as low as 3958 MW (hourly min) on 15.09.24.
- Solar Generation for the month was 477 MUs. Maximum Solar generation was 2851 MW at 14.09.24 at 12 Hrs.
- Wind Generation for the month was 786 MUs. Maximum Wind generation was 2556 MW at 02.09.24 at 02 Hrs.
- **5.698** TMC of Koyna water is utilized in the month of September – 2024 and total cumulative usage of TMC in Water Year 2024-25 is **16.347** Balance TMC for WY 2024-25 is **51.153** TMC as on 30.09.2024.
- The average grid frequency for the month was 49.99 Hz. The Instantaneous Maximum frequency was 50.37 Hz at 13:08 Hrs on 14.09.2024 and Minimum frequency was 49.46 Hz at 18:25 hrs on 18.09.2024.
- Max. 765kV Voltage in MSETCL was recorded as **795** kV at Ektuni substation and Min. voltage was recorded as **742** kV at Tiroda substation.
- Max. 400 kV Voltage in MSETCL was recorded as **433** kV at Kalwa & New Koyna substations and Min. voltage was recorded **377** kV at Lonikand-I substation.
- There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.
- **During the month of September-2024 following major occurrences were reported:**
 - On 10.09.2024 at 05:21 hrs, at 400 kV Chandrapur switching station, LBB protection operated for Bay-414 (Tie Bay of GT-8). Due to operation of LBB protection GT-8 (500 MW) tripped resulting in to the generation loss of 462 MW. GT-8 (500 MW) was taken into service at 14:04 hrs.
 - On 15.09.2024 at 17:01 hrs, 220 kV Shendra (Old) Sub Station went into dark. The tripping was due R phase EHV cable fault on 220 kV Shendra (Old) – Shendra (GIS) at Shendra (old) end. Complete load was restored by 18:35 hrs. During this tripping total 58.66 MW load affected for 1.34 hrs.
- **During the month of September 2024, the following important elements were commissioned;**
 - 400kV MUMML lines commissioned: 400 kV Padghe PG – Kharghar on 24.09.2024
400 kV Padghe PG – Navi Mumbai on 20.09.2024
400 kV Navi Mumbai PG – Vikhroli on 27.09.2024
 - With the commissioning of these lines Mumbai TTC improved from 3411 to 3498 MW
ATC improved from 3324 to 3411 MW
