

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

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

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	28924 MW (with Load shedding 0 MW)	29.04.2024	16:00 Hrs.
2	Min. Demand	21998 MW	13.04.2024	05:00 Hrs.
3	Max. Demand Catered	28924 MW	29.04.2024	16:00 Hrs.
4	Energy Catered	18519 MUs	-	-
5	Max. Energy Catered	648 MUs	30.04.2024	-
6	Avg. Energy Catered	617 MUs	-	-

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

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	24775 MW (with Load shedding 0 MW)	30.04.2024	01:00 Hrs.
2	Min. Demand	19410 MW	13.04.2024	05:00 Hrs.
3	Max. Demand Catered	24775 MW	30.04.2024	01:00 Hrs.
4	Energy Catered	16009 MUs	-	-
5	Max. Energy Catered	559 MUs	06.04.2024	-
6	Avg. Energy Catered	534 MUs	-	-

- The power supply position for **Mumbai system** in April - 2024 are given below: -

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	4042 MW	16.04.2024	16:00 Hrs.
2	Min. Demand	2150 MW	06.04.2024	05:00 Hrs.
3	Energy Catered	2182 MUs	-	-
4	Max. Energy Catered	82 MUs	17.04.2024	-
5	Avg. Energy Catered	73 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 April- 2024 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	554 MW	30.04.2024	19:00 Hrs.
2	Min. Demand	309 MW	16.04.2024	04:00 Hrs.
3	Energy Catered	328 MUs	-	-
4	Max. Energy Catered	12 MUs	30.04.2024	-
5	Avg. Energy Catered	11 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 Overdrawal in real time was 2.910 Mus on 15.04.2024, 16.04.2024, 27.04.2024 and 28.04.2024.
- Load shedding due to transmission constraint was 13.270 Mus on several days during the month.

C. Other Highlights of Maharashtra System in April- 2024

- MSPGCL Thermal actual generation was as high as 8453 MW (hourly max) on 30.04.24 and was as low as 5533 MW (hourly min) on 12.04.24.
- Solar Generation for the month was 477 Mus. Maximum Solar generation was 2342 MW at 23.04.24 at 12 hrs.
- Wind Generation for the month was 390 Mus. Maximum Wind generation was 1483 MW at 05.04.24 at 02 hrs.
- 6.891 TMC of Koyna water is utilized in the month of April – 2024. As per the MSPGCL Letter vide CE/KGSC/TECH/MSLDC/No.0015 Dated 03.02.2024 the westward water quota is reduced by 8.644 TMC for water year 2023-24 due to less rainfall and low dam storage.
- The average grid frequency for the month was 49.99 Hz. The Instantaneous Maximum frequency was 50.37 Hz at 13:01 Hrs on 05.04.2024 and Minimum frequency was 49.65 Hz at 09:37 Hrs on 18.04.2024.
- Max. 765kV Voltage in MSETCL was recorded as 791 kV at Ektuni substation and Min. voltage was recorded as 746 kV at Ektuni substation.
- Max. 400 kV Voltage in MSETCL was recorded as 431 kV at New Koyna substation and Min. voltage was recorded 371 kV at Lonikand-I substation.
- There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.
