

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

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

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	28310 MW ( with Load shedding 0 MW )	03.06.2024	16:00 Hrs.
2	Min. Demand	18616 MW	10.06.2024	04:00 Hrs.
3	Max. Demand Catered	28310 MW	03.06.2024	16:00 Hrs.
4	Energy Catered	16587 MUs	-	-
5	Max. Energy Catered	632 MUs	01.06.2024	-
6	Avg. Energy Catered	553 MUs	-	-

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

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	23855 MW ( with Load shedding 0 MW )	01.06.2024	16:00 Hrs.
2	Min. Demand	15920 MW	10.06.2024	04:00 Hrs.
3	Max. Demand Catered	23855 MW	01.06.2024	16:00 Hrs.
4	Energy Catered	14001 MUs	-	-
5	Max. Energy Catered	541 MUs	01.06.2024	-
6	Avg. Energy Catered	467 MUs	-	-

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	4248 MW	06.06.2024	16:00 Hrs.
2	Min. Demand	2216 MW	28.06.2024	05:00 Hrs.
3	Energy Catered	2242 MUs	-	-
4	Max. Energy Catered	86 MUs	06.06.2024	-
5	Avg. Energy Catered	75 MUs	-	-

- The power supply position for **Other Discoms** (Indian Railway, Mind Space, Gigaplex, KRC Infrastructure, Nidar Utilities, MADDC, E-ON Phase I, E-ON Phase II, Laxmi Pati) in June - 2024 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	568 MW	07.06.2024	19:00 Hrs.
2	Min. Demand	352 MW	29.06.2024	04:00 Hrs.
3	Energy Catered	344 MUs	-	-
4	Max. Energy Catered	12 MUs	06.06.2024	-
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 **2.236** Mus on **02.06.2024, 03.06.2024 & 22.06.2024** during the month.
- Load shedding due to transmission constraint was **5.743** Mus on several days during the month.

### **C. Other Highlights of Maharashtra System in June- 2024**

- Mumbai till date maximum demand of 4306 MW catered on 21.05.2024 at 16:00 Hrs.
- MSPGCL Thermal actual generation was as high as 7448 MW (hourly max) on 01.06.24 and was as low as 4649 MW (hourly min) on 14.06.24.
- Solar Generation for the month was 453 Mus. Maximum Solar generation was 2433 MW at 16.06.24 at 12 Hrs.
- Wind Generation for the month was 814 Mus. Maximum Wind generation was 2464 MW at 28.06.24 at 18 Hrs.
- New Water year 2024-25 for Koyna Utilization has commenced from 01-06-2024. Total TMC allocated for water year 2024-25 is 67.5 TMC. **3.479** TMC of Koyna water is utilized in the month of June – 2024. Balance TMC for WY 2024-25 is **64.0207** TMC as on 30.06.2024.
- The average grid frequency for the month was 50.00 Hz. The Instantaneous Maximum frequency was 50.63 Hz at 13:54 Hrs on 17.06.2024 and Minimum frequency was 49.62 Hz at 04:10 Hrs on 16.06.2024.
- Max. 765kV Voltage in MSETCL was recorded as **791** kV at Ektuni substation and Min. voltage was recorded as **757** kV at Akola substation.
- Max. 400 kV Voltage in MSETCL was recorded as **433** kV at New Koyna substation and Min. voltage was recorded **372** kV at Lonikand-II substation.
- There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.
- During the month of June-2024 following three major occurrences were reported:
  - On 06.06.2024 around 16: 15 Hrs., heavy sparking was observed on B phase line isolator of 400 kV Kalwa - Talegaon line at 400 kV Kalwa S/s and accordingly the line was urgently hand tripped at 16:16 Hrs. To control Line loading of 400 kV Kharghar -Talegaon line approximately 445 MW manual distress load shedding was implemented by MSLDC from (approx.) 16:19 Hrs to 16-45 Hrs. in MMR region.
  - On 09.06.2024 at 06:03 Hrs, 220 kV Padghe – Nalasopara- Vasai Tap line tripped on distance protection due to heavy lighting and rain. The second source to 220 kV Nalasopara was not available as the 220 kV Panchali – PGCIL was under planned outage. 220 kV Nalasopara S/s went in to the dark and around 75 MW load was affected in Nalasopara area.

- On 15th June 2024, at Tata Backbay S/s, 110kV Bus -1, 2 & all 33kV buses got shutdown due to operation of 110kV LBBU of 250 MVA Auto Transformer-1 & 2. Due to which around 62 MW load was affected in Mumbai (TPCD - 4 MW & BEST- 58 MW) from 16:59 Hrs to 18:12 Hrs.

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