

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

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

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

| Sr No. | Particulars | Recorded Demand/Requirement | Date | Time |
|--------|---------------------|---|------------|------------|
| 1 | Max. Demand | 24174 MW (with Load shedding 0 MW) | 03.07.2024 | 21:00 Hrs. |
| 2 | Min. Demand | 16766 MW | 29.07.2024 | 03:00 Hrs. |
| 3 | Max. Demand Catered | 24174 MW | 03.07.2024 | 21:00 Hrs. |
| 4 | Energy Catered | 15467 MUs | - | - |
| 5 | Max. Energy Catered | 541 MUs | 04.07.2024 | - |
| 6 | Avg. Energy Catered | 499 MUs | - | - |

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

| Sr No. | Particulars | Recorded Demand /Requirement | Date | Time |
|--------|---------------------|---|------------|------------|
| 1 | Max. Demand | 20362 MW (with Load shedding 0 MW) | 03.07.2024 | 21:00 Hrs. |
| 2 | Min. Demand | 14306 MW | 29.07.2024 | 03:00 Hrs. |
| 3 | Max. Demand Catered | 20362 MW | 03.07.2024 | 21:00 Hrs. |
| 4 | Energy Catered | 13039 MUs | - | - |
| 5 | Max. Energy Catered | 452 MUs | 04.07.2024 | - |
| 6 | Avg. Energy Catered | 421 MUs | - | - |

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

| Sr No. | Particulars | Recorded Demand/Requirement | Date | Time |
|--------|---------------------|-----------------------------|------------|------------|
| 1 | Max. Demand | 3836 MW | 04.07.2024 | 12:00 Hrs. |
| 2 | Min. Demand | 1939 MW | 23.07.2024 | 05:00 Hrs. |
| 3 | Energy Catered | 2072 MUs | - | - |
| 4 | Max. Energy Catered | 78 MUs | 04.07.2024 | - |
| 5 | Avg. Energy Catered | 67 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 July - 2024 are given below: -

| Sr No. | Particulars | Recorded Demand /Requirement | Date | Time |
|--------|---------------------|------------------------------|------------|------------|
| 1 | Max. Demand | 567 MW | 15.07.2024 | 19:00 Hrs. |
| 2 | Min. Demand | 342 MW | 02.07.2024 | 04:00 Hrs. |
| 3 | Energy Catered | 355 MUs | - | - |
| 4 | Max. Energy Catered | 12 MUs | 16.07.2024 | - |
| 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 **0.231** Mus on **25.07.2024**.
- Load shedding due to transmission constraint was **1.515** Mus on several days during the month.

C. Other Highlights of Maharashtra System in July- 2024

- MSPGCL Thermal actual generation was as high as 6982 MW (hourly max) on 09.07.24 and was as low as 4166 MW (hourly min) on 31.07.24.
 - Solar Generation for the month was 369 Mus. Maximum Solar generation was 2280 MW at 11.07.24 at 12 Hrs.
 - Wind Generation for the month was 1571 Mus. Maximum Wind generation was 3144 MW at 22.07.24 at 17 Hrs.
 - **2.0139** TMC of Koyna water is utilized in the month of July – 2024 and total cumulative usage of TMC in Water Year 2024-25 is **5.493**. Balance TMC for WY 2024-25 is **62.01** TMC as on 31.07.2024.
 - The average grid frequency for the month was 49.99 Hz. The Instantaneous Maximum frequency was 50.36 Hz at 13:10 Hrs on 06.07.2024 and Minimum frequency was 49.63 Hz at 15:24 Hrs on 22.07.2024.
 - Max. 765kV Voltage in MSETCL was recorded as **793** kV at Ektuni substation on 03.07.2024 at 13 Hrs. and Min. voltage was recorded as **748** kV at Tiroda substation on 03.07.2024 at 06:45 Hrs.
 - Max. 400 kV Voltage in MSETCL was recorded as **436** kV at New Koyna substation on 01.07.2024 at 04 Hrs. and Min. voltage was recorded **381** kV at Lonikand-II substation on 08.07.2024 at 11:05 Hrs.
 - There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.
 - During the month of July-2024 following major occurrence was reported:
 - At 400kV Jejuri S/S, on dt. 29.07.2024 at 20:12Hrs, during heavy rains and lightening 400kV Jejuri-Koyna Stage IV Line tripped due to heavy sparking at line side IPS tube to 406 CTL Y Ph clamp. CT suffered a damage due to heavy oil leakage resulting from heating at its stud. Also, 400kV Main Bus-I tripped along with ICT-II & ICT-III (HV Side only) simultaneously. In addition to this ICT-I LTS stage – 1,2 & 3 operated. During this tripping total 228 MW load affected from 20:11 Hrs. to 20:53 Hrs. at various substations in Pune region.
- All 400kV Bays and ICTs restored on dt.29.07.2024 by 20:40 Hrs. except 400kV Koyna stage IV line is charged on dt. 30.07.2024 @ 14:24Hrs. which was under breakdown due to Y-Ph CT failure.
