

**Note on****Maharashtra Power System Overview, under frequency operation, Load shedding (Planned and Distress) for the month of May - 2023****Maharashtra system Overview: -**

The overview of Maharashtra system operation for the month of May - 2023 with respect to availability and shortfall is elaborated as under.

- The power supply position for **STATE** in May - 2023 are given below: -

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	28121 MW ( with Load shedding 0 MW )	24.05.2023	15:00 Hrs.
2	Min. Demand	18709 MW	01.05.2023	18:00 Hrs.
3	Max. Demand Catered	28121 MW	24.05.2023	15:00 Hrs.
4	Energy Catered	18336 MUs		
5	Max. Energy Catered	622 MUs	24.05.2023	
6	Avg. Energy Catered	592 MUs		

- The power supply position for **MSEDCL** in May - 2023 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	24047 MW ( with Load shedding 0 MW )	24.05.2023	15:00 Hrs.
2	Min. Demand	15734 MW	01.05.2023	17:00 Hrs.
3	Max. Demand Catered	24047 MW	24.05.2023	15:00 Hrs.
4	Energy Catered	15773 MUs		
5	Max. Energy Catered	537 MUs	24.05.2023	
6	Avg. Energy Catered	509 MUs		

- The power supply position for **Mumbai system** in May - 2023 are given below: -

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	3945 MW	31.05.2023	16:00 Hrs.
2	Min. Demand	2153 MW	02.05.2023	05:00 Hrs.
3	Energy Catered	2243 MUs		
4	Max. Energy Catered	79 MUs	24.05.2023	
5	Avg. Energy Catered	72 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 May - 2023 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	513 MW ( with Load shedding 0 MW )	15.05.2023	11:00 Hrs.
2	Min. Demand	310 MW	22.05.2023	04:00 Hrs.
3	Max. Demand Catered	513 MW	15.05.2023	11:00 Hrs.
4	Energy Catered	320 MUs		
5	Max. Energy Catered	11 MUs	26.05.2023	
6	Avg. Energy Catered	10 MUs		

#### **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.
- Max. load shedding was recorded as 940 MW and Min. load shedding was recorded as 0 MW. Load shedding was carried out due to overdrawl.
- 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.

### **Other Highlights of Maharashtra System in May - 2023**

- 10.383 TMC of Koyna water is utilized for May – 2023.
  - Wind Generation for the month was 609 MUs. Average wind generation was 818 MW/hour.
  - The average grid frequency for the month was 49.98 Hz. The Instantaneous Maximum frequency was 50.42 Hz and Minimum frequency was 49.53 Hz.
  - MSPGCL Thermal actual generation was as high as 7874 MW (hourly max) on 15.05.23.
  - MSPGCL Thermal actual generation was as low as 3836 MW (hourly min) on 01.05.23.
  - Max. Voltage at 765kV Substation was recorded as 797 KV at 765KV Akola substation and Min. voltage was recorded as 748 kV at 765kV Akola substation.
  - Max.Voltage at MSETCL 400 kV Substation recorded as 433kV at 400kV Kalwa and Min. voltage was recorded 372 kV at 400kV Jejuri substation and 400kV Lonikand I substations.
  - There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.
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