

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

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

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	27678 MW ( with Load shedding 0 MW )	02.09.2023	12:00 Hrs.
2	Min. Demand	17877 MW	29.09.2023	03:00 Hrs.
3	Max. Demand Catered	27678 MW	02.09.2023	12:00 Hrs.
4	Energy Catered	15968 MUs		
5	Max. Energy Catered	596 MUs	02.09.2023	
6	Avg. Energy Catered	532 MUs		

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

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	23993 MW ( with Load shedding 0 MW )	02.09.2023	12:00 Hrs.
2	Min. Demand	15306 MW	29.09.2023	02:00 Hrs.
3	Max. Demand Catered	23993 MW	02.09.2023	12:00 Hrs.
4	Energy Catered	13695 MUs		
5	Max. Energy Catered	520 MUs	02.09.2023	
6	Avg. Energy Catered	457 MUs		

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	3526 MW	01.09.2023	12:00 Hrs.
2	Min. Demand	1963 MW	25.09.2023	05:00 Hrs.
3	Energy Catered	1966 MUs		
4	Max. Energy Catered	71 MUs	01.09.2023	
5	Avg. Energy Catered	66 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 September - 2023 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	683 MW	07.09.2023	24:00 Hrs.
2	Min. Demand	317 MW	23.09.2023	04:00 Hrs.
3	Energy Catered	307 MUs		
4	Max. Energy Catered	11 MUs	04.09.2023	
5	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 2742 MW on 01.09.2023 at 20:00 Hrs. Load shedding was carried out due to over drawl.
- 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 September- 2023**

- 4.242 TMC of Koyna water is utilized for September – 2023.
  - Wind Generation for the month was 828 MUs. Average wind generation was 1150 MW/hour.
  - The average grid frequency for the month was 49.99 Hz. The Instantaneous Maximum frequency was 50.19 Hz and Minimum frequency was 49.76 Hz.
  - MSPGCL Thermal actual generation was as high as 6421 MW (hourly max) on 02.09.23.
  - MSPGCL Thermal actual generation was as low as 4195 MW (hourly min) on 17.09.23.
  - Max. Voltage at 765kV Substation was recorded as 790 kV at 765KV Akola substation and Min. voltage was recorded as 754 kV at 765kV Tirora and Koradi III substation.
  - Max.Voltage at MSETCL 400 kV Substation recorded as 435 kV at 400kV Kalwa and Min. voltage was recorded 374 kV at 400 kV 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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