

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

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

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	27860 MW ( with Load shedding 0 MW )	31.01.2023	11:00 Hrs.
2	Min. Demand	17513 MW	26.01.2023	24:00 Hrs.
3	Max. Demand Catered	27860 MW	31.01.2023	11:00 Hrs.
4	Energy Catered	16723.5 MUs		
5	Max. Energy Catered	565 MUs	31.01.2023	
6	Avg. Energy Catered	540 MUs		

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

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	24750 MW ( with Load shedding 0 MW )	31.01.2023	11:00 Hrs.
2	Min. Demand	15459 MW	26.01.2023	24:00 Hrs.
3	Max. Demand Catered	24750 MW	31.01.2023	11:00 Hrs.
4	Energy Catered	14861 MUs		
5	Max. Energy Catered	502 MUs	31.01.2023	
6	Avg. Energy Catered	479 MUs		

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	2905 MW	06.01.2023	12:00 Hrs.
2	Min. Demand	1283 MW	25.01.2023	04:00 Hrs.
3	Energy Catered	1563 MUs		
4	Max. Energy Catered	57 MUs	06.01.2023	
5	Avg. Energy Catered	50 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 January - 2023 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	477 MW ( with Load shedding 0 MW )	02.01.2023	20:00 Hrs.
2	Min. Demand	294 MW	14.01.2023	04:00 Hrs.
3	Max. Demand Catered	477 MW	02.01.2023	20:00 Hrs.
4	Energy Catered	300 MUs		
5	Max. Energy Catered	10 MUs	31.01.2023	
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 94 MW and Min. load shedding was recorded as 7 MW. Load shedding was carried out on 04.01.2023 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 January - 2023**

- 5.744 TMC of Koyna water is utilized for January – 2023.
  - Wind Generation for the month was 254 MUs. Average wind generation was 342 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 49.57 Hz.
  - There was an instance of under frequency operation (49.4 Hz) during the month on 09.01.2023 (80 MW) and 20.01.2023 (207.93 MW).
  - MSPGCL Thermal actual generation was as high as 7152 MW (hourly max) on 14.01.23 at 09:00 hrs.
  - MSPGCL Thermal actual generation was as low as 3979 MW (hourly min) on 03.01.23 at 24:00 hrs.
  - Max. Voltage at 765kV Substation was recorded as 799 at 765KV Akola substation and Min. voltage was recorded as 745 kV at 765kV Ektuni substation.
  - Max.Voltage at MSETCL 400 kV Substation recorded as 440kV at 400KV Kalwa and Min. voltage was recorded 374 kV at 400KV Chakan substation.
  - There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.
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