

**Note on****Maharashtra Power System Overview, under frequency operation, Load shedding (Planned and Distress) for the month of October - 2022****Maharashtra system Overview: -**

The overview of Maharashtra system operation for the month of October - 2022 with respect to availability and shortfall is elaborated as under.

- The power supply position for **STATE** in October - 2022 are given below: -

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	22513 MW ( with Load shedding 0 MW)	04.10.2022	11:00 Hrs.
2	Min. Demand	13281 MW	25.10.2022	04:00 Hrs.
3	Max. Demand Catered	22513 MW	04.10.2022	11:00 Hrs.
4	Energy Catered	13947 MUs		
5	Max. Energy Catered	502 MUs	04.10.2022	
6	Avg. Energy Catered	450 MUs		

- The power supply position for **MSEDCL** in October - 2022 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	19022 MW ( with Load shedding 0 MW )	04.10.2022	07:00 Hrs.
2	Min. Demand	11135 MW	25.10.2022	04:00 Hrs.
3	Max. Demand Catered	19022 MW	04.10.2022	07:00 Hrs.
4	Energy Catered	11758 MUs		
5	Max. Energy Catered	428 MUs	04.10.2022	
6	Avg. Energy Catered	379 MUs		

- The power supply position for **Mumbai system** in October - 2022 are given below: -

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	3535 MW	21.10.2022	12:00 Hrs.
2	Min. Demand	1755 MW	08.10.2022	05:00 Hrs.
3	Energy Catered	1905 MUs		
4	Max. Energy Catered	70 MUs	21.10.2022	
5	Avg. Energy Catered	61 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 March - 2022 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	524 MW ( with Load shedding 0 MW )	25.10.2022	11:00 Hrs.
2	Min. Demand	247 MW	25.10.2022	03:00 Hrs.
3	Max. Demand Catered	524 MW	25.10.2022	11:00 Hrs.
4	Energy Catered	284 MUs		
5	Max. Energy Catered	10 MUs	31.10.2022	
6	Avg. Energy Catered	9 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 77 MW and Min. load shedding was recorded as 11 MW. Average load shedding quantum for the month was 0.005 MW. Load shedding was implemented due to tripping of 400kV Pune GIS-Talegaon (PG) Ckt. I on 11.10.2022 (Due to Outage on 400kV PGCIL (Shikrapur,Pune GIS) 2 Nos Lines and also outage on 400kV Lonikand-Karad line (continuous outage till dtd 23.10.2022) DLS implemented, as loading of 400 kV Pune-Pune ckt # 3& 4 (PGCIL) increased.)

- 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 October - 2022**

- 2.93 TMC of Koyna water is utilized for October – 2022.
  - Wind Generation for the month was 319 MUs. Average wind generation was 429 MW/hour.
  - The average grid frequency for the month was 50 Hz. The Instantaneous Maximum frequency was 50.40 Hz and Minimum frequency was 49.52 Hz.
  - There was no instance of under frequency operation (48.8 Hz, 49.0 Hz, 49.2 Hz & 49.4 Hz) during the month.
  - MSPGCL Thermal actual generation was as high as 6507 MW (hourly max) on 31.10.22 at 19:00 hrs.
  - MSPGCL Thermal actual generation was as low as 3316 MW (hourly min) on 25.10.22 at 15:00 hrs.
  - Max. Voltage at 765kV Substation was recorded as 795 at 765KV Ektuni substation and Min. voltage was recorded as 745 kV at 765kV Tirora substation.
  - Max.Voltage at MSETCL 400 kV Substation recorded as 439kV at 400KV Kalwa and Min. voltage was recorded 345 kV at 400KV Chakan & Kolhapur substation.
  - There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.
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