

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

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

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	22550 MW ( with Load shedding 0 MW)	03.09.2022	12:00 Hrs.
2	Min. Demand	15760 MW	20.09.2022	03:00 Hrs.
3	Max. Demand Catered	22550 MW	03.09.2022	12:00 Hrs.
4	Energy Catered	13839 MUs		
5	Max. Energy Catered	507 MUs	03.09.2022	
6	Avg. Energy Catered	461 MUs		

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

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	19076 MW ( with Load shedding 0 MW )	03.09.2022	20:00 Hrs.
2	Min. Demand	13592 MW	20.09.2022	03:00 Hrs.
3	Max. Demand Catered	19076 MW	03.09.2022	20:00 Hrs.
4	Energy Catered	11714 MUs		
5	Max. Energy Catered	432 MUs	03.09.2022	
6	Avg. Energy Catered	391 MUs		

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	3397 MW	02.09.2022	12:00 Hrs.
2	Min. Demand	1631 MW	23.09.2022	04:00 Hrs.
3	Energy Catered	1854 MUs		
4	Max. Energy Catered	68 MUs	07.09.2022	
5	Avg. Energy Catered	62 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	452 MW ( with Load shedding 0 MW )	01.09.2022	10:00 Hrs.
2	Min. Demand	268 MW	16.08.2022	04:00 Hrs.
3	Max. Demand Catered	452 MW	01.09.2022	10:00 Hrs.
4	Energy Catered	271 MUs		
5	Max. Energy Catered	10 MUs	30.09.2022	
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 64 MW and Min. load shedding was recorded as 2 MW. Average load shedding quantum for the month was 0.049 MW. Load shedding was implemented to control line loading of 220kV Nashik Babbleshwar Line on 06.09.2022 & 07.09.2022.
- 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 - 2022**

- 3.188 TMC of Koyna water is utilized for September – 2022.
  - Wind Generation for the month was 599 MUs. Average wind generation was 832 MW/hour.
  - The average grid frequency for the month was 49.99 Hz. The Instantaneous Maximum frequency was 50.30 Hz and Minimum frequency was 49.50 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 5894 MW (hourly max) on 30.09.22 at 07:00 hrs.
  - MSPGCL Thermal actual generation was as low as 3457 MW (hourly min) on 19.09.22 at 04:00 hrs.
  - Max. Voltage at 765kV Substation was recorded as 789 at 765KV Ektuni substation and Min. voltage was recorded as 754 kV at 765kV Tirora substation.
  - Max.Voltage at MSETCL 400 kV Substation recorded as 437kV at 400KV Kalwa and Min. voltage was recorded 385 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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