

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

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

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	24178 MW (with Load shedding 0 MW)	29.08.2022	13:00 Hrs.
2	Min. Demand	13947 MW	16.08.2022	02:00 Hrs.
3	Max. Demand Catered	24178 MW	29.08.2022	13:00 Hrs.
4	Energy Catered	14417 MUs		
5	Max. Energy Catered	528 MUs	29.08.2022	
6	Avg. Energy Catered	465 MUs		

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

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	20586 MW (with Load shedding 0 MW)	29.08.2022	13:00 Hrs.
2	Min. Demand	11748 MW	16.08.2022	02:00 Hrs.
3	Max. Demand Catered	20586 MW	29.08.2022	13:00 Hrs.
4	Energy Catered	12278 MUs		
5	Max. Energy Catered	455 MUs	29.08.2022	
6	Avg. Energy Catered	396 MUs		

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	3333 MW	02.08.2022	12:00 Hrs.
2	Min. Demand	1756 MW	16.08.2022	04:00 Hrs.
3	Energy Catered	1867 MUs		
4	Max. Energy Catered	67 MUs	02.08.2022	
5	Avg. Energy Catered	60 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	447 MW (with Load shedding 0 MW)	01.08.2022	19:00 Hrs.
2	Min. Demand	257 MW	17.08.2022	03:00 Hrs.
3	Max. Demand Catered	447 MW	01.08.2022	19:00 Hrs.
4	Energy Catered	271 MUs		
5	Max. Energy Catered	9 MUs	29.08.2022	
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 384 MW and Min. load shedding was recorded as 0 MW. Average load shedding quantum for the month was 0.69 MW. Load shedding was resorted to because of overdrawl under low frequency on 29.08.2022.
- 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 August - 2022

- 5.167 TMC of Koyna water is utilized for August – 2022.
 - Wind Generation for the month was 1066 MUs. Average wind generation was 1433 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 49.47 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 5842 MW (hourly max) on 28.08.22 at 22:00 hrs.
 - MSPGCL Thermal actual generation was as low as 2978 MW (hourly min) on 11.08.22 at 17:00 hrs.
 - Max. Voltage at 765kV Substation was recorded as 795 at 765KV Akola and Ektuni substation and Min. voltage was recorded as 748 kV at 765kV Tirora substation.
 - Max.Voltage at MSETCL 400 kV Substation recorded as 440kV at 400KV Kalwa and Min. voltage was recorded 380kV at 400KV Jejuri.
 - There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.
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