

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

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

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	24535 MW (with Load shedding 0 MW)	04.07.2023	12:00 Hrs.
2	Min. Demand	16605 MW	29.07.2023	03:00 Hrs.
3	Max. Demand Catered	24535 MW	04.07.2023	12:00 Hrs.
4	Energy Catered	15274 MUs		
5	Max. Energy Catered	536 MUs	04.07.2023	
6	Avg. Energy Catered	493 MUs		

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

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	20817 MW (with Load shedding 0 MW)	04.07.2023	12:00 Hrs.
2	Min. Demand	14354 MW	29.07.2023	03:00 Hrs.
3	Max. Demand Catered	20817 MW	04.07.2023	12:00 Hrs.
4	Energy Catered	13038 MUs		
5	Max. Energy Catered	460 MUs	04.07.2023	
6	Avg. Energy Catered	421 MUs		

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	3469 MW	13.07.2023	12:00 Hrs.
2	Min. Demand	1801 MW	24.07.2023	04:00 Hrs.
3	Energy Catered	1932 MUs		
4	Max. Energy Catered	70 MUs	13.07.2023	
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 July - 2023 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	484 MW (with Load shedding 0 MW)	10.07.2023	19:00 Hrs.
2	Min. Demand	283 MW	11.07.2023	04:00 Hrs.
3	Max. Demand Catered	484 MW	10.07.2023	19:00 Hrs.
4	Energy Catered	304 MUs		
5	Max. Energy Catered	10 MUs	17.07.2023	
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 745 MW on 03.07.2023 at 23:00 Hrs and Min. load shedding was recorded as 0 MW. 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 July - 2023

- 1.971 TMC of Koyna water is utilized for July – 2023.
 - Wind Generation for the month was 1452 MUs. Average wind generation was 1952 MW/hour.
 - The average grid frequency for the month was 50.0 Hz. The Instantaneous Maximum frequency was 50.26 Hz and Minimum frequency was 49.76 Hz.
 - MSPGCL Thermal actual generation was as high as 6428 MW (hourly max) on 05.07.23.
 - MSPGCL Thermal actual generation was as low as 3519 MW (hourly min) on 30.07.23.
 - Max. Voltage at 765kV Substation was recorded as 794 KV 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 437 kV at 400kV Kalwa and Min. voltage was recorded 376 kV at 400kV Jejuri substations.
 - There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.
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