

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

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

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	28584 MW (with Load shedding 0 MW)	18.04.2023	16:00 Hrs.
2	Min. Demand	20246 MW	30.04.2023	18:00 Hrs.
3	Max. Demand Catered	28584 MW	18.04.2023	16:00 Hrs.
4	Energy Catered	17655 MUs		
5	Max. Energy Catered	630 MUs	19.04.2023	
6	Avg. Energy Catered	589 MUs		

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

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	24326 MW (with Load shedding 0 MW)	18.04.2023	16:00 Hrs.
2	Min. Demand	17325 MW	30.04.2023	18:00 Hrs.
3	Max. Demand Catered	24326 MW	18.04.2023	16:00 Hrs.
4	Energy Catered	15302 MUs		
5	Max. Energy Catered	542 MUs	19.04.2023	
6	Avg. Energy Catered	510 MUs		

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	3879 MW	19.04.2023	16:00 Hrs.
2	Min. Demand	1898 MW	03.04.2023	05:00 Hrs.
3	Energy Catered	2045 MUs		
4	Max. Energy Catered	77 MUs	19.04.2023	
5	Avg. Energy Catered	68 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 April - 2023 are given below: -

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	512 MW (with Load shedding 0 MW)	12.04.2023	17:00 Hrs.
2	Min. Demand	290 MW	02.04.2023	03:00 Hrs.
3	Max. Demand Catered	512 MW	12.04.2023	17:00 Hrs.
4	Energy Catered	307 MUs		
5	Max. Energy Catered	11 MUs	28.04.2023	
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 864 MW and Min. load shedding was recorded as 470 MW. Load shedding was carried out on 17.04.2023 and 18.04.2023 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 April - 2023

- 9.532 TMC of Koyna water is utilized for April – 2023.
 - Wind Generation for the month was 366 MUs. Average wind generation was 509 MW/hour.
 - The average grid frequency for the month was 49.99 Hz. The Instantaneous Maximum frequency was 50.2 Hz and Minimum frequency was 49.76 Hz.
 - MSPGCL Thermal actual generation was as high as 8014 MW (hourly max) on 20.04.23.
 - MSPGCL Thermal actual generation was as low as 4827 MW (hourly min) on 30.04.23.
 - Max. Voltage at 765kV Substation was recorded as 800 KV at 765KV Akola substation and Min. voltage was recorded as 739 kV at 765kV Ektuni substation.
 - Max.Voltage at MSETCL 400 kV Substation recorded as 431kV at 400kV Kalwa and Min. voltage was recorded 372 kV at 400kV Jejuri substation.
 - There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.
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