

Note on

Maharashtra Power System Overview, under frequency operation, Load shedding (Planned and Distress) for the month of July - 2022

Maharashtra system Overview: -

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

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	22540 MW (with Load shedding 0 MW)	04.07.2022	10:00 Hrs.
2	Min. Demand	14780 MW	14.07.20022	04:00 Hrs.
3	Max. Demand Catered	22540 MW	04.07.2022	10:00 Hrs.
4	Energy Catered	13879 MUs		
5	Max. Energy Catered	488 MUs	04.07.2022	
6	Avg. Energy Catered	448 MUs		

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

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	19157 MW (with Load shedding 0 MW)	04.07.2022	10:00 Hrs.
2	Min. Demand	12732 MW	14.07.2022	04:00 Hrs.
3	Max. Demand Catered	19157 MW	04.07.2022	10:00 Hrs.
4	Energy Catered	11770 MUs		
5	Max. Energy Catered	417 MUs	04.07.2022	
6	Avg. Energy Catered	380 MUs		

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	3273 MW	29.07.2022	12:00 Hrs.
2	Min. Demand	1750 MW	15.07.2022	05:00 Hrs.
3	Energy Catered	1838 MUs		
4	Max. Energy Catered	65 MUs	29.07.2022	
5	Avg. Energy Catered	59 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	439 MW (with Load shedding 0 MW)	25.07.2022	18:00 Hrs.
2	Min. Demand	266 MW	28.07.2022	03:00 Hrs.
3	Max. Demand Catered	439 MW	25.07.2022	18:00 Hrs.
4	Energy Catered	271 MUs		
5	Max. Energy Catered	9 MUs	21.07.2022	
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 101 MW and Min. load shedding was recorded as 0 MW. Average load shedding quantum for the month was 0.24 MW. Load shedding was resorted to because of overdrawl under low frequency (49.42 Hz.) on 18.07.2022.
- 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 July - 2022

- 3.77 TMC of Koyna water is utilized for July – 2022.
 - Wind Generation for the month was 1233 MUs. Average wind generation was 1658 MW/hour.
 - The average grid frequency for the month was 49.99 Hz. The Instantaneous Maximum frequency was 50.18 Hz and Minimum frequency was 49.42 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 6561 MW (hourly max) on 04.07.22 at 09:00 hrs.
 - MSPGCL Thermal actual generation was as low as 3631 MW (hourly min) on 14.07.22 at 03:00 hrs.
 - Max. Voltage at 765kV Substation was recorded as 775 at 765KV Tirora substation and Min voltage was recorded as 758 kV at 765kV Akola substation.
 - Max.Voltage at MSETCL 400 kV Substation recorded as 441 kV at 400KV Kalwa and Min voltage was recorded 379 at 400KV Chakan.
 - There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.
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