

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

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

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	25927 MW (with Load shedding 0 MW)	28.11.2022	11:00 Hrs.
2	Min. Demand	16761 MW	01.11.2022	01:00 Hrs.
3	Max. Demand Catered	25927 MW	28.11.2022	11:00 Hrs.
4	Energy Catered	15511 MUs		
5	Max. Energy Catered	540 MUs	26.11.2022	
6	Avg. Energy Catered	470 MUs		

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

Sr No.	Particulars	Recorded Demand /Requirement	Date	Time
1	Max. Demand	22536 MW (with Load shedding 0 MW)	26.11.2022	11:00 Hrs.
2	Min. Demand	14217 MW	01.11.2022	01:00 Hrs.
3	Max. Demand Catered	22536 MW	26.11.2022	11:00 Hrs.
4	Energy Catered	13454 MUs		
5	Max. Energy Catered	470 MUs	29.11.2022	
6	Avg. Energy Catered	400 MUs		

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

Sr No.	Particulars	Recorded Demand/Requirement	Date	Time
1	Max. Demand	3237 MW	16.11.2022	12:00 Hrs.
2	Min. Demand	1624 MW	22.11.2022	04:00 Hrs.
3	Energy Catered	1776 MUs		
4	Max. Energy Catered	64 MUs	15.11.2022	
5	Avg. Energy Catered	49 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	471 MW (with Load shedding 0 MW)	27.11.2022	14:00 Hrs.
2	Min. Demand	282 MW	09.11.2022	04:00 Hrs.
3	Max. Demand Catered	471 MW	27.11.2022	14:00 Hrs.
4	Energy Catered	281 MUs		
5	Max. Energy Catered	10 MUs	25.11.2022	
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 540 MW and Min. load shedding was recorded as 0 MW. LTS operated due to overloading of 400 KV Talegaon PG – Pune GIS ckt 2,3,4 as 400 KV Talegaon PG - Pune GIS ckt 1 was under outage.

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- 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 November - 2022

- 3.794 TMC of Koyna water is utilized for November – 2022.
 - Wind Generation for the month was 352 MUs. Average wind generation was 490 MW/hour.
 - The average grid frequency for the month was 49.99 Hz. The Instantaneous Maximum frequency was 50.10 Hz and Minimum frequency was 49.75 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 7235 MW (hourly max) on 29.11.22 at 08:00 hrs.
 - MSPGCL Thermal actual generation was as low as 4188 MW (hourly min) on 21.11.22 at 01:00 hrs.
 - Max. Voltage at 765kV Substation was recorded as 792 at 765KV Akola substation and Min. voltage was recorded as 746 kV at 765kV Tirora and Tirora substation.
 - Max.Voltage at MSETCL 400 kV Substation recorded as 438kV at 400KV Chakan and Min. voltage was recorded 378 kV at 400KV Chakan substation.
 - There was no planned load shedding in Mumbai area (BEST, AEML-D and TPC-D) during the month.
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