**पश्चिम क्षेत्र की**

**{{full\_month\_name}} माह की**

**प्रणाली प्रचालन रिपोर्ट**

System Operation Report

of Western Region

For the month of

**{{full\_month\_name}}**



पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

**(भारत सरकार का उद्यम)**

पश्चिम क्षेत्रिय भार प्रेषण केन्द्र**,**मुम्बई

**Power System Operation Corporation Ltd.**

**(A Government of India Enterprise)**

**Western Regional Load Despatch Centre, Mumbai**

|  |  |  |
| --- | --- | --- |
|  | | **पृष्टसूची CONTENTS** |
| **1.** सारांश रिपोर्ट **SUMMARY REPORT** | | | |
| **1.1** | | पश्चिम क्षेत्र ग्रिड के मुख्य अंश HIGHLIGHTS OF THE WR GRID | |
| **1.2** | | स्थापित क्षमता INSTALLED CAPACITY | |
| **1.3** | | ऊर्जा आपूर्ति स्थिति POWER SUPPLY POSITION | |
| **1.4** | | पश्चिम क्षेत्र की शिखर मांग पूर्ति और ऊर्जा खपत WR DEMAND AND ENERGY CONSUMPTION | |
| **1.5** | | मौंसमी परिवर्तन SEASONAL VARIATION | | |
| **1.6** | | आवृति रूपरेखा FREQUENCY PROFILE | |
| **1.7** | | विदयुत दाबरूपरेखा VOLTAGE PROFILE | |
| **1.8** | | नए एलेमेंट की वृद्धि ADDITION OF NEW ELEMENTS | |
|  | | a) उत्पादक इकाईयां GENERATING UNITS | |
|  | | b) पारेषण लाइने TRANSMISSION LINES | |
|  | | c) आइसिटी ICTs | |
|  | | d) लाइन रिएक्टर LINE REACTORS | |
|  | | e) बस रिएक्टर BUS REACTORS | |
| **1.9** | | शेडुल और ड्रावल SCHEDULE Vs DRAWAL | |
| **1.10** | | उत्पादन इकाइयों की अनुपलब्धता GENERATION (UNIT) OUTAGES | |
| **1.11** | | उत्पादन इकाइयां(पवन और सौर) GENERATION (WIND,SOLAR) | |
| **1.12** | | अंतर क्षेत्रीय विनिमय INTERREGIONAL EXCHANGE | |
| **1.13** | | आरआरएएस भुगतान विवरण RRAS PAYMENT DETAILS | |
| **1.14** | | संसोधित एयूएफ़एलएस योजना REVISED AUFLS SCHEME | |
| **1.15** | | ओपन एक्सेस ट्रट्झेक्सन OPEN ACCESS TRANSACTIONS | |
| **1.16** ग्रिड डिस्टर्बन्स और ग्रिड की घटनाओं की सूची LIST OF GRID  DISTURBANCES AND GRID INCIDENTS  **2.** अनुलग्नक **ANNEXURES** | | | |  | |
| **2.1** | | | भार अवधि कर्व LOAD DURATION CURVE |
| **2.2** | | | आवृति अवधि कर्व FREQUENCY DURATION CURVE |
| **2.3** | | | पीक और न्यूनतम मांग दिन पर भार वक्र  LOAD CURVE ON PEAK AND MINIMUM DEMAND DAY |
| **2.4** | | | यूनिटवाईज स्थापित क्षमता UNITWISE INSTALLED CAPACITY |
| **2.5** | | | कोणीय विभाजन उल्लंघन की रिपोर्टANGULAR SEPARATION VIOLATION REPORT |
| **2.6** | | | सिस्टम रिलाइबिलिटी सूचकांक(एटीसी/टीटीसी और वीडीआई )रिपोर्ट SYSTEM RELIABILITY INDICES (ATC/TTC AND VDI) REPORT |

**1.1** **पश्चिम क्षेत्र ग्रिड के मुख्य अंश** **Western Region Highlights {{month\_name}}**

* **ऊर्जा आपूर्ति स्थिति Power Supply Position**:

1. **Unrestricted Demand**: The maximum unrestricted Demand was **{{wr\_max\_unres\_dem}} MW** **at {{wr\_max\_unres\_dem\_time\_str}}** which was **{{wr\_max\_unres\_dem\_perc\_inc}} %** higher as compared to last year (**{{wr\_max\_unres\_dem\_last\_yr}} MW**). Average unrestricted demand was **{{wr\_avg\_unres\_dem}} MW** increased by **{{wr\_avg\_unres\_dem\_perc\_inc}} %** w.r.t last year **{{last\_yr\_month\_name}}** **({{wr\_avg\_unres\_dem\_last\_yr}} MW).**
2. **Peak Demand Met**: Western Region has met gross peak demand of **{{wr\_peak\_dem\_met}} MW** **at {{wr\_peak\_dem\_time\_str}}**. It was **{{wr\_peak\_dem\_perc\_inc}}%** higher as compared to **{{last\_yr\_month\_name}}** (**{{wr\_last\_year\_peak\_dem}} MW**). Average Demand Met **({{wr\_avg\_dem}}MW)** increased by **{{wr\_avg\_dem\_perc\_inc}}%** compared to last year **{{last\_yr\_month\_name}} ({{wr\_avg\_dem\_last\_yr}} MW)**.
3. Total Energy Consumption was **{{wr\_tot\_cons\_mu}} MUs** in the month of **{{month\_name}}** at the average of **{{wr\_avg\_cons\_mu}}** MUs/day and Maximum was **{{wr\_max\_cons\_mu}} MUs on {{wr\_max\_cons\_mu\_date}}**. Average Energy consumption increased by **{{wr\_avg\_cons\_mu\_perc\_inc}}%** compared to last year **{{last\_yr\_month\_name}}** **({{wr\_avg\_cons\_mu\_last\_yr}} MUs)**.
4. Total Energy requirement was **{{wr\_tot\_req\_mu}} MUs** for **{{month\_name}}** at the average of **{{wr\_avg\_req\_mu}} MUs/day** & Maximum was **{{wr\_max\_req\_mu}} MUs on {{wr\_max\_req\_mu\_date}}**. Average energy requirement increased by **{{wr\_avg\_req\_mu\_perc\_inc}}%** compared to last year of same month (**{{wr\_avg\_req\_mu\_last\_yr}} MUs**).

* **आवृति रूपरेखा** **Frequency Profile:**

System frequency remained in IEGC band **(49.90– 50.05 Hz) for {{bet\_band}} %** of time in this month. Average frequency was **{{avg\_freq}}Hz** and frequency deviation index was **{{fdi}},** Maximum frequency of **{{max\_freq}}Hz** was observed on **{{max\_freq\_time\_str}} hrs**. Minimum Frequency of **{{min\_freq}}Hz** was observed **on {{min\_freq\_time\_str}} hrs.**

* **विदयुत दाबरूपरेखा Voltage Profile:**

{{msg\_1\_1\_volt}}

* **नए एलेमेंट की वृद्धि** **Element Addition in December 2020 :**
* 97.50MW Generating Capacity was added at Renew AP2(Wind) connected to 400kV

Bhuj PS.

* 15.60MW Generating Capacity was added at Alfanar(Wind) connected to 400 kV

Bhuj PS.

* Total 68 Ckt Km of Transmission Lines were added in the system.
* 400/220kV ICT-1 (315MVA) at Kurud(CSPTCL/Chhattisgarh) added in the system.
* 400/132kV ICT-1 (200MVA) at Vindhyachal (NTPC/Madhya Pradesh) replaced with the faulty ICT.
* 125 MVAR Bus Reactor at Singhaji(MPPGCL/Madhya Pradesh) was added in the system.
* **हाइड्रो उत्पादन Hydro Generation:**

Hydro generation in the month of **{{month\_name}}** was **{{tot\_month\_hydro\_gen\_mu}}** MUs at the average of **{{avg\_month\_hydro\_gen\_mu}} MUs/day.** Maximum hydro generation was **{{max\_month\_hydro\_gen\_mu}}** MUs on **{{max\_month\_hydro\_gen\_mu\_date}}.** Hydro generation {{tot\_last\_year\_hydro\_gen\_mu\_perc\_str}} compared to last year of the same month (**{{tot\_last\_year\_hydro\_gen\_mu}}** MUs).

* **पवन उत्पादन Wind Generation:**

Total wind generation in the month was **{{tot\_month\_wind\_gen\_mu}}** MUs at the average of **{{avg\_month\_wind\_gen\_mu}}** MUs/day in the month of **{{month\_name}}.** Wind Generation {{tot\_last\_year\_wind\_gen\_mu\_perc\_str}} compared to last year same month (**{{tot\_last\_year\_wind\_gen\_mu}}** MUs)**.** Maximum wind generationduring **{{month\_name}}** was **{{max\_month\_wind\_gen\_mw}}** **MW** observed on **{{max\_month\_wind\_gen\_mw\_date}}.** Maximum renewable generation (wind +solar) in **{{month\_name}}** was **{{max\_month\_ren\_gen\_mw}} MW** on **{{max\_month\_ren\_gen\_mw\_date}}.**

* **सौर उत्पादन Solar Generation:**

Solar Generation of **{{tot\_month\_solar\_gen\_mu}}** MUs generated in the month of **{{month\_name}}** at the average of **{{avg\_month\_solar\_gen\_mu}}** MUs/day**.** Solar Generation {{tot\_last\_year\_solar\_gen\_mu\_perc\_str}} compared to last year same month (**{{tot\_last\_year\_solar\_gen\_mu}}** MUs)**.** Maximum Solar generation during **{{month\_name}}** was **{{max\_month\_solar\_gen\_mw}} MW** on **{{max\_month\_solar\_gen\_mw\_date}}.**

* **ओपन एक्सैस Open Access:**

Total **255** Nos. of Intra-regional & Inter-regional short-term open access transactions for **1277.26 MUs** of energy were approved in this month. From **Apr’20 to Dec’20**, total Nos of Intra-regional & Inter-regional short-term open access transactions are **1214 Nos** and energy approved is **4721.50 MUs.**

**1.2 पश्चिमी क्षेत्र की स्थापित क्षमता Installed Capacity of Western Region (As on 30.11.2020)** 

**Source: CEA website**

**1.3**  **बिजली आपूर्ति की स्थिति POWER SUPPLY POSITION: {{month\_name}}**

**a.** **ऊर्जा की आवश्यकता और उपलब्धता** **Energy Requirement and Availability**

|  | **{{month\_name}}** | | | **{{recent\_fin\_month\_name}} to {{month\_name}}** | | |
| --- | --- | --- | --- | --- | --- | --- |
| **Constituent** | **Requirement**  **(MUs)** | **Availability**  **(MUs)** | **Shortage(%)** | **Requirement**  **(MUs)** | **Availability**  **(MUs)** | **Shortage(%)** |
| **{%tr for item in energy\_req\_avail %}** | | | | | | |
| **{{item.entity}}** | **{{item.reqMu\_X}}** | **{{item.availMu\_X}}** | **{{item.shortage\_X}}** | **{{item.reqMu\_Y}}** | **{{item.availMu\_Y}}** | **{{item.shortage\_Y}}** |
| **{%tr endfor %}** | | | | | | |

**\* Chhatisgarh energy consumption is including BSP-SAIL consumption**

**b. Power Requirement and Availability (MW) & So Far Highest Requirement and Availability of WR and its Constituents**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **{{month\_name}}** | | | | **So Far Highest** | | | | |
| **Constituent** | **Peak Requirement**  **(MW)** | **Peak Availability**  **(MW)** | **Shortage (%)** | **Requirement**  **(MW)** | **Availability**  **(MW)** | **Shortage (%)** | **So Far Highest Requirement Date and Time** | **So Far Highest Availability Date and Time** |
| **{%tr for item in so\_far\_hig\_req\_avail %}** | | | | | | | | |
| **{{item.entity}}** | **{{item.** **peakReqMW }}** | **{{item.** **peakAvailMW}}** | **{{item.** **shortage\_X}}** | **{{item.** **highestReqMW}}** | **{{item.** **highestAvailMW}}** | **{{item.** **shortage\_Y}}** | **{{item.** **highestReqMWDateStr}}** | **{{item.** **highestAvailMWDateStr}}** |
| **{%tr endfor %}** | | | | | | | | |

\*\*Regional demand met is the simultaneous demand met and not the sum of demand met by constituent.

Note- monthly energy consumption is based on states monthly report.

**1.4 प. क्षे. मांग / WR Demand-**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| {{full\_month\_name}}के लिए सकल पीक मांग | | | | | | | | |
| **GROSS PEAK DEMAND FOR {{full\_month\_name}}** | | | | | | | | |
| **State** | **Catered** | **UNSCHLS**  **+SCHLS** | **Frequency**  **Correction** | **Power**  **Cut** | **Total** | **Date** | **Time** | **Frequency** |
| {%tr for item in dem\_data\_1\_4\_1 %} | | | | | | | | |
| {{item.state\_name}} | {{item.catered}} | {{item.ls}} | {{item.freq\_corr}} | {{item.pc}} | {{item.tot\_dem}} | {{item.peak\_date}} | {{item.peak\_time}} | {{item.freq\_at\_peak}} |
| {%tr endfor %} | | | | | | | | |

{{plot\_1\_4\_2}}

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Demand Met** | **{{month\_name}}** | **{{prev\_month\_name}}** | **{{last\_yr\_month\_name}}** | **% Change w.r.t last month** | **% Change w.r.t last Year** |
| **Average** | **{{wr\_avg\_dem}}** | **{{wr\_avg\_dem\_prev\_month}}** | **{{wr\_avg\_dem\_last\_year}}** | **{{wr\_avg\_dem\_perc\_change\_prev\_month}}** | **{{wr\_avg\_dem\_perc\_change\_last\_year}}** |
| **Max** | **{{wr\_max\_dem}}** | **{{wr\_max\_dem\_prev\_month}}** | **{{wr\_max\_dem\_last\_year}}** | **{{wr\_max\_dem\_perc\_change\_prev\_month}}** | **{{wr\_max\_dem\_perc\_change\_last\_year}}** |
| **Date when Max.** | **{{wr\_max\_dem\_date\_str}}** | **{{wr\_max\_dem\_date\_str\_prev\_month}}** | **{{wr\_max\_dem\_date\_str\_last\_year}}** | **~** | **~** |

**1.5 Seasonal Variation**

**Day-wise Demand Plot-**

{{plot\_1\_5\_1}}

**Daily Energy Consumption**

{{plot\_1\_5\_2}}

{{plot\_1\_5\_3}}

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Energy Consumption MU/Day** | **{{month\_name}}** | **{{prev\_month\_name}}** | **{{last\_yr\_month\_name}}** | **% Change w.r.t last month** | **% Change w.r.t last Year** |
| **Average** | **{{wr\_avg\_con}}** | **{{wr\_avg\_con\_prev\_month}}** | **{{wr\_avg\_con\_last\_year}}** | **{{wr\_avg\_con\_perc\_change\_prev\_month}}** | **{{wr\_avg\_con\_perc\_change\_last\_year}}** |
| **Max** | **{{wr\_max\_con}}** | **{{wr\_max\_con\_prev\_month}}** | **{{wr\_max\_con\_last\_year}}** | **{{wr\_max\_con\_perc\_change\_prev\_month}}** | **{{wr\_max\_con\_perc\_change\_last\_year}}** |
| **Date When Max.** | **{{wr\_max\_con\_date\_str}}** | **{{wr\_max\_con\_date\_str\_prev\_month}}** | **{{wr\_max\_con\_date\_str\_last\_year}}** | **~** | **~** |

**1.6 आवृति रूपरेखा Frequency Profile-**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Frequency Profile for {{month\_name}}** | | | | | | | | | | |
| Date | Frequency (%) | | | FVI | (i) | (ii) | (iii) | Frequency (Hz) | | |
| {{“<49.9”}} | 49.9-50.05 | {{‘>50.05‘’’}} | % of time frequency remained out of IEGC band | No. of hours during which frequency was out of range during the day[(i)x24Hrs] | Daily FDI=(ii)/24 | Max. | Min. | Avg. |
| **{%tr for item in freq\_profile %}** | | | | | | | | | | |
| {{item.date}} | {{item.less\_than\_band}} | {{item.freq\_bet\_band}} | {{item.out\_of\_band}} | {{item.fvi}} | {{item.out\_of\_band\_perc}} | {{item.hrs\_out\_of\_band}} | {{item.fdi}} | {{item.freq\_daily\_max}} | {{item.freq\_daily\_min}} | {{item.freq\_daily\_avg}} |
| **{%tr endfor %}** | | | | | | | | | | |
| **Max** | {{freq\_max\_less\_band}} | {{freq\_max\_bet\_band}} | {{freq\_max\_greater\_than\_band}} | {{max\_fvi}} | {{max\_perc\_time}} | {{hrs\_max\_out\_of\_band}} | {{max\_Fdi}} | {{max\_monthly\_freq}} | {{min\_monthly\_freq}} | {{avg\_monthly\_freq}} |
| **Average** | {{freq\_avg\_less\_band}} | {{freq\_avg\_bet\_band}} | {{freq\_avg\_greater\_than\_band}} | {{avg\_fvi}} | {{avg\_perc\_time}} | {{hrs\_avg\_out\_of\_band}} | {{avg\_Fdi}} |

**Monthly FDI of {{month\_name}}: {{avg\_Fdi}}**

{{plot\_1\_6\_2}}

**1.7. विदयुत दाबरूपरेखा Voltage Profile-** **{{full\_month\_name}}**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Monthly VDI for the month {{full\_month\_name}}** | | | | | | | | | | |
| **Voltage Deviation Index (VDI) – 765 kV Substations** | | | | | | | | | | |
| S.No | Station Name | Voltage (in Volts) | | {{“Voltage (in % of Time)”}} | | | Voltage (in Time) | | Total no. of hours out of IEGC range  (HH:MM)  (iii)  (i+ii) | Voltage Deviation Index  (iii)/(Total No. of hrs in a month) |
| Max Voltage | Min Voltage | {{“< 728 kV”}} | 728 kV to 800 kV | {{“< 800 kV”}} | No. of hours below IEGC (i)  {{“< 728 kV”}} | No. of hours above IEGC (ii)  {{“< 800 kV”}} |
| **{%tr for item in voltVdiProfile765 %}** | | | | | | | | | | |
|  | {{ item.station }} | {{ item.max\_vol }} | {{ item.min\_vol }} | {{ item.less\_perc }} | {{ item.band\_perc }} | {{ item.more\_perc }} | {{ item.less\_hrs }} | {{ item.more\_hrs }} | {{ item.out\_hrs }} | {{ item.vdi }} |
| **{%tr endfor %}** | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Monthly VDI for the month {{full\_month\_name}}** | | | | | | | | | | |
| **Voltage Deviation Index (VDI) – 400 kV Substations** | | | | | | | | | | |
| S.No | Station Name | Voltage (in Volts) | | {{“Voltage (in % of Time)”}} | | | Voltage (in Time) | | Total no. of hours out of IEGC range  (HH:MM)  (iii)  (i+ii) | Voltage Deviation Index  (iii)/(Total No. of hrs in a month) |
| Max Voltage | Min Voltage | {{“< 380 kV”}} | 380 kV to 420 kV | {{“< 420 kV”}} | No. of hours below IEGC (i)  {{“< 420 kV”}} | No. of hours above IEGC (ii)  {{“< 420 kV”}} |
| **{%tr for item in voltVdiProfile400 %}** | | | | | | | | | | |
|  | {{ item.station }} | {{ item.max\_vol }} | {{ item.min\_vol }} | {{ item.less\_perc }} | {{ item.band\_perc }} | {{ item.more\_perc }} | {{ item.less\_hrs }} | {{ item.more\_hrs }} | {{ item.out\_hrs }} | {{ item.vdi }} |
| **{%tr endfor %}** | | | | | | | | | | |

|  |
| --- |
| {%tr for item in plot\_1\_7\_3 %} |
| {{item.img}} |
| {%tr endfor %} |

**1.8 नए एलेमेंट की वृद्धि Commissioning of New Elements**



**1.9 Schedule Vs Drawl of Western Region-{{month\_name}}**

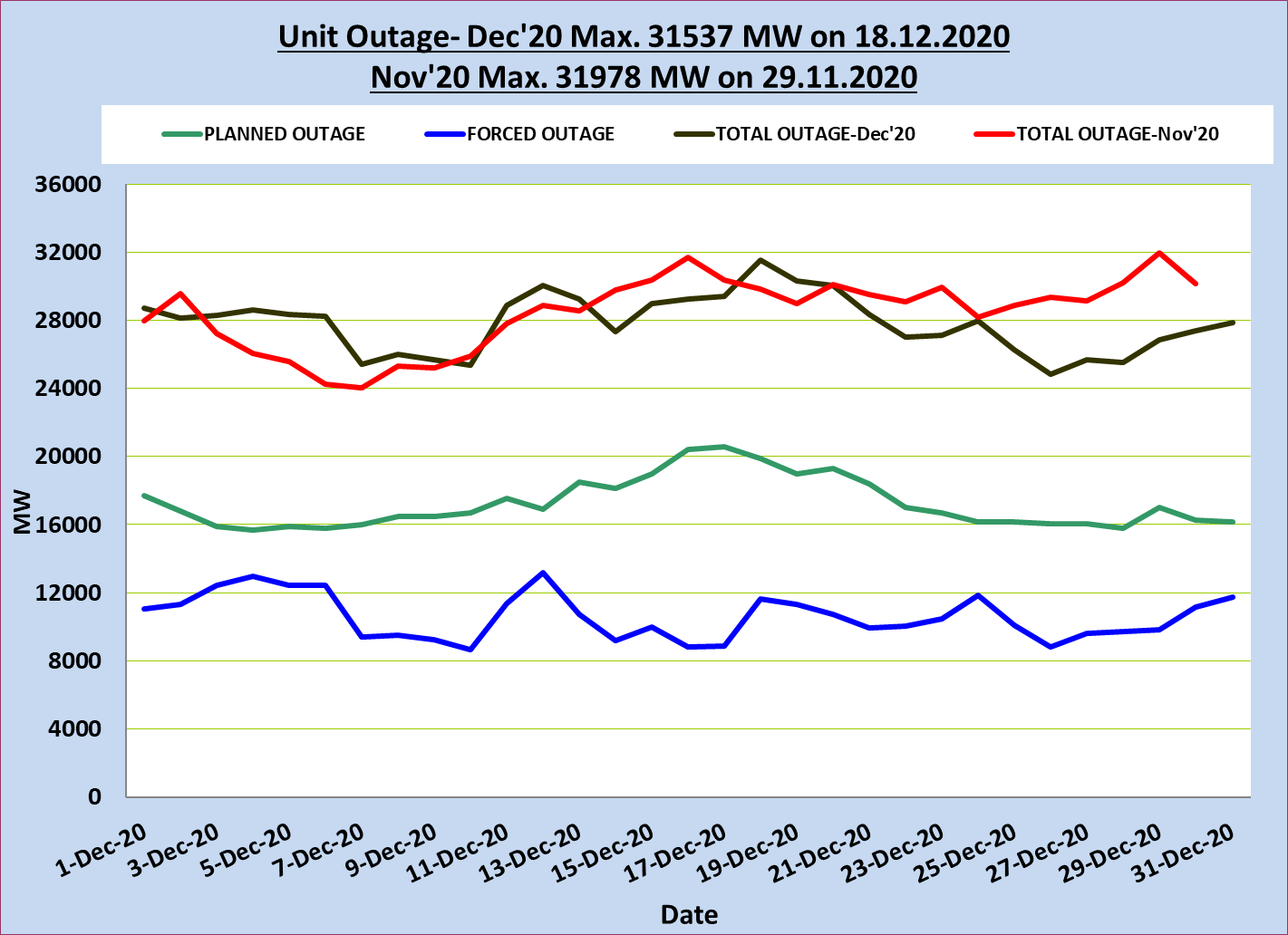
**Performance of Western Regional Grid during {{month\_name}}**

**Schedule and Drawal of Constituents from Central sector {{month\_name}}**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl.**  **No.** | **State/U.T/**  **System** | **Schedule**  **(Mus)** | **Actual Drawal**  **(Mus)** | **Total Over(+)/Under**  **(-)drawal**  **(Mus)** |
| **{%tr for item in schedule\_drawal%}** | | | | |
|  | **{{item.** **entity}}** | **{{item.** **schedule}}** | **{{item.** **drawal}}** | **{{item.** **difference}}** |
| **{%tr endfor %}** | | | | |

**1.10 Generation Outages:**



****

**1.11 पश्चिमी क्षेत्र का जनरेशन Generation of Western Region {{month\_name}}**

**Renewables in WR- Wind Generation:**

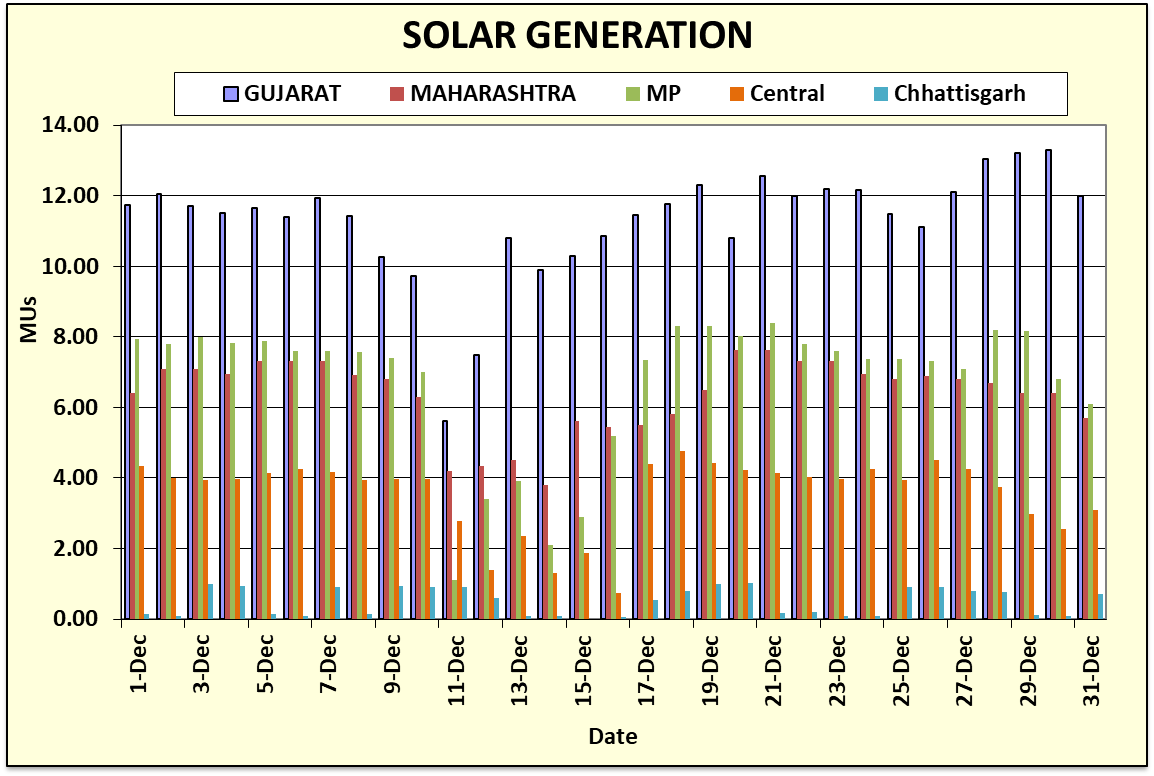
|  |
| --- |
| {%tr for item in plot\_1\_11\_wind %} |
| {{item.img}} |
| {%tr endfor %} |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Highest ever Wind generation** | | | | |
| **State** | **Capacity**  **(in MW)** | **Generation**  **(in MW)** | **Date** | **Time** |
| {%tr for item in so\_far\_hig\_wind\_gen %} | | | | |
| **{{item.entity}}** | **{{item.** **capacityMW}}** | **{{item.** **generationMW}}** | **{{item.** **highestGenerationMWDateStr}}** | **{{item.** **highestGenerationMWTimeStr}}** |
| {%tr endfor %} | | | | |

**PLF/CUF for Wind Generation Constituent-wise:**

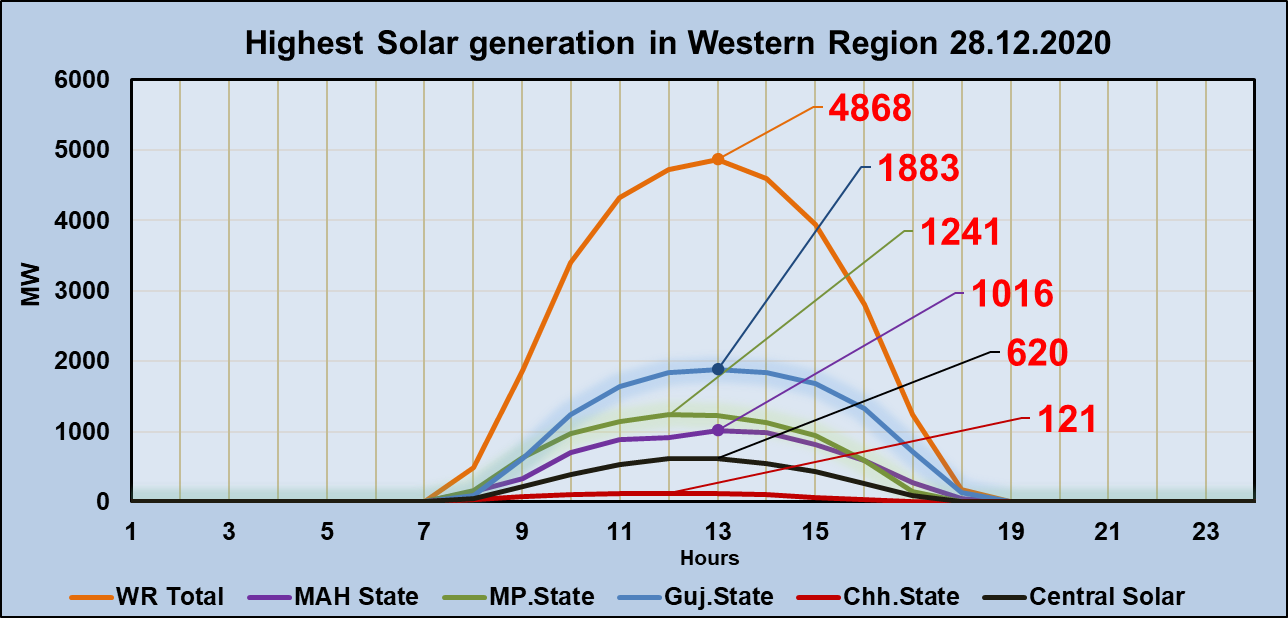
|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Wind Gen – {{month\_name}}** | | | | | | | | |
| **Constituent** | **Installed Capacity(MW)** | **Max Generation in {{month\_name}} (MW)** | **So far highest generation (MW)** | **Wind energy generation (MU)** | **Energy Consumption (MU)** | **Penetration Level (in%)** | **PLF(%)** | **CUF(%)** |
| {%tr for item in so\_far\_hig\_win\_gen\_plf %} | | | | | | | | |
| {{item.entity}} | {{item. capacityMW}} | {{item. maxgenerationMW}} | {{item. soFarHighestGenMW}} | {{item. energyGeneration}} | {{item. energyConsumption}} | {{item.penetration}} | {{item.plf}} | {{item.cuf}} |
| {%tr endfor %} | | | | | | | | |

**Solar Generation:**



**अब तक का सबसे ज्यादा सौर उत्पादन 28.12.2020 को 4868 मेगावॉट 13:00 बजे.**

**So Far Highest Solar Generation on 28.12.2020 - 4868 MW at 13:00 hrs.**

****

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Highest ever Solar generation** | | | | |
| **State** | **Cap**  **(MW)** | **Gen**  **(in MW)** | **Date** | **Time** |
| **{%tr for item in so\_far\_hig\_wind\_gen %}** | | | | |
| **{{item.entity}}** | **{{item. capacityMW}}** | **{{item. generationMW}}** | **{{item. highestGenerationMWDateStr}}** | **{{item. highestGenerationMWTimeStr}}** |
| **{%tr endfor %}** | | | | |

**{{plot\_1\_11\_solar}}**

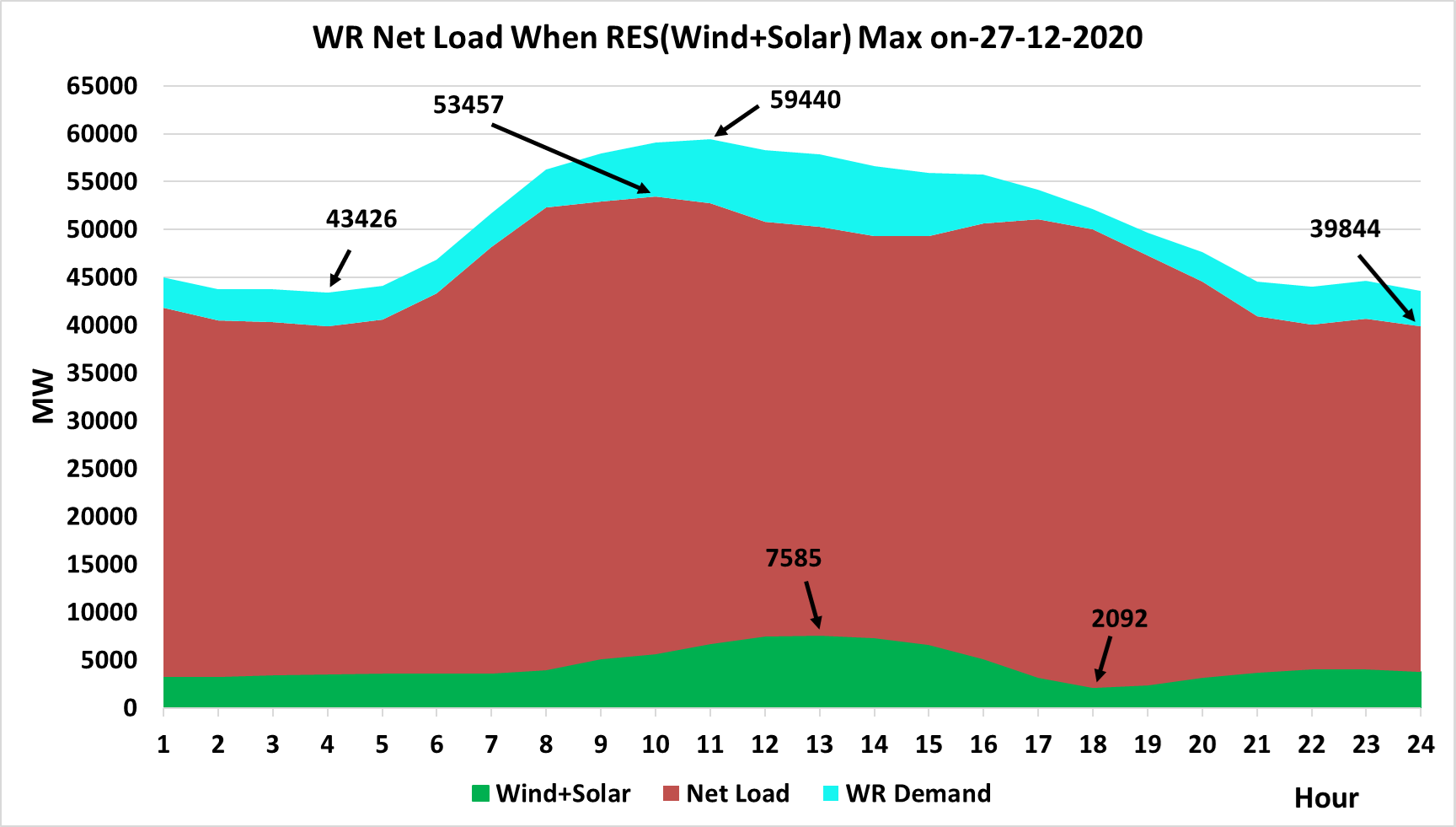
**PLF for Solar Generation constituent-wise:**

**(Generating Hours taken: 12 hrs per day)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **PLF For Solar Gen- {{month\_name}}** | | | | | | | | |
| **Constituent** | **Installed Capacity(MW)** | **Max Generation in {{month\_name}} (MW)** | **So far highest generation (MW)** | **Solar energy generation (MU)** | **Energy Consumption (MU)** | **Penetration Level (in%)** | **PLF(%)** | **CUF(%)** |
| **{%tr for item in so\_far\_hig\_solar\_gen\_plf %}** | | | | | | | | |
| **{{item.entity}}** | **{{item.** **capacityMW}}** | **{{item.** **maxgenerationMW}}** | **{{item.** **soFarHighestGenMW}}** | **{{item.** **energyGeneration}}** | **{{item.** **energyConsumption}}** | **{{item.penetration}}** | **{{item.plf}}** | **{{item.cuf}}** |
| {%tr endfor %} | | | | | | | | |

**नेट लोड वक्र जब RES (पवन और सौर) उत्पादन अधिकतम था-**

**Net load Curve when RES (wind and Solar) Generation was max-**

****

**हाइड्रो जनरेशन व जलाशय स्तर मीटर में**

**Hydro Generation and Reservoir Level in Meter (Max in the Month)- FY 2020-21**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Madhya Pradesh** | | | **Gujarat** | | | **Maharashtra** |
| **Gandhi**  **Sagar** | **Indira sagar** | **Omkareshwer** | **Ukai** | **Kadana** | **SSP** | **Koyna** |
| **FRL-399.90 Mt MDDL –**  **381 Mt** | **FRL- 262.14 Mt MDDL –**  **243.24 Mt** | **FRL- 196.6 Mt MDDL –**  **193.5 Mt** | **FRL-105.16Mt MDDL –**  **82.30 Mt** | **FRL- 127.7 Mt MDDL –**  **114 Mt** | **FRL- 138.68 Mt MDDL –**  **110.64 Mt** | **FRL- 657.88 Mt MDDL –**  **609.60 Mt** |
| **April’20** | **397** | **255** | **196** | **101** | **122** | **122** | **647** |
| **May’20** | **395** | **254** | **196** | **99** | **122** | **121** | **641** |
| **June’20** | **395** | **252** | **196** | **97** | **120** | **127** | **635** |
| **July’20** | **395** | **250** | **194** | **99** | **120** | **121** | **642** |
| **Aug’20** | **397** | **261** | **195** | **102** | **127** | **131** | **658** |
| **Sep’20** | **398** | **262** | **195** | **104** | **127** | **138** | **659** |
| **Oct’20** | **399** | **262** | **196** | **105** | **127** | **135** | **659** |
| **Nov’20** | **399** | **262** | **196** | **104** | **127** | **135** | **659** |
| **Dec’20** | **398** | **261** | **196** | **104** | **127** | **134** | **658** |

|  |
| --- |
| {%tr for item in reservoir\_section%} |
| {{item.img}} |
| {%tr endfor %} |

**1.12 पश्चिमी क्षेत्र का अंतरक्षेत्रीय आदान-प्रदान**

**Import = (+) , Export = (-)**

**Interregional Exchange of Western Region**

|  |
| --- |
| {%tr for item in inter\_regioanl\_section%} |
| {{item.img}} |
| {%tr endfor %} |

**1.13 आरआरएएस भुगतान विवरण RRAS PAYMENT DETAILS – From 30-11-2020 to 27-12-2020**



**1.14 REVISED AUFLS SETTING OF WR:**



**DF/DT Scheme**



**1.15 OPEN ACCESS TRANSACTION DETAILS**

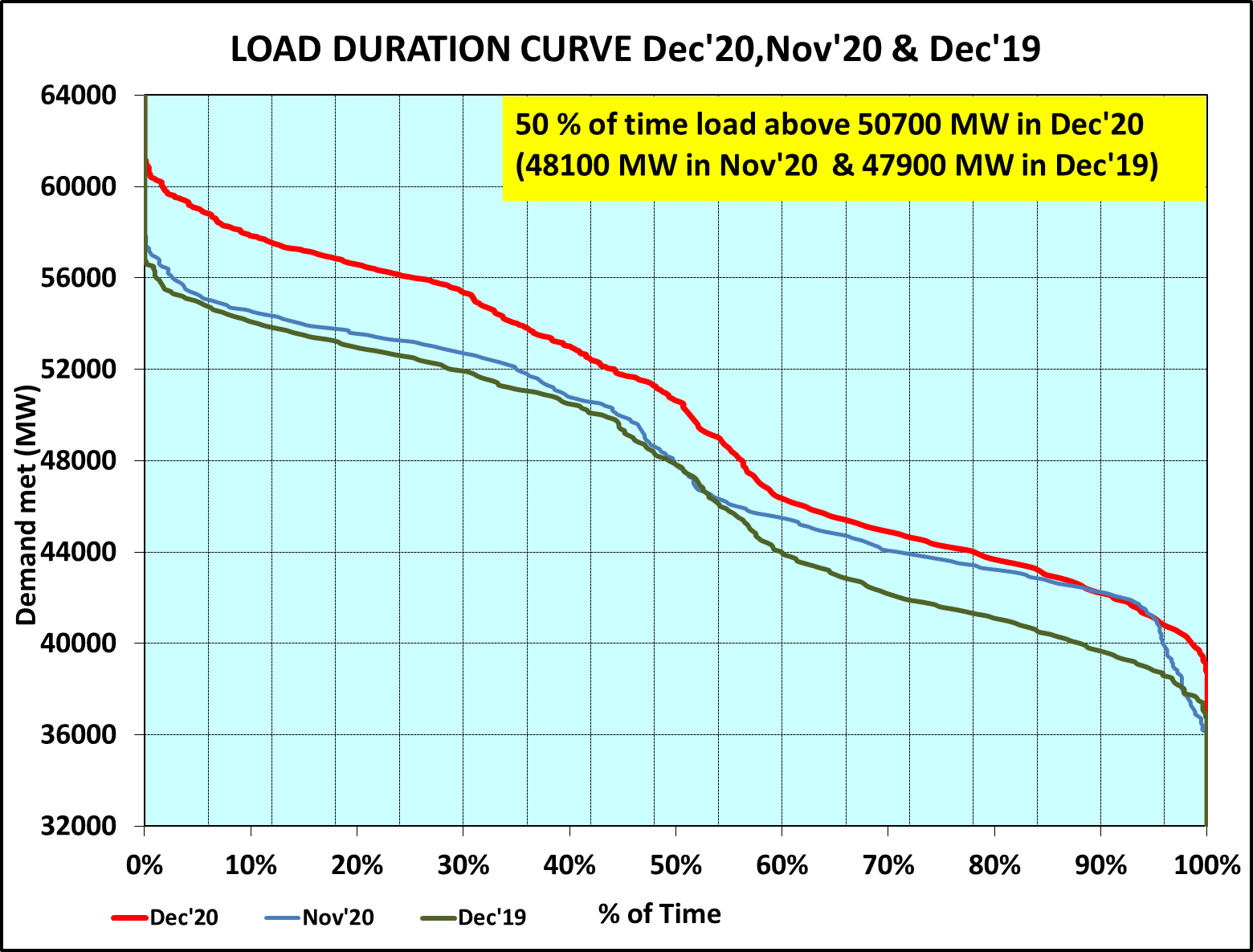


**1.16 दिसम्बर 2020 में ग्रिड गड़बड़ी और ग्रिड की घटनाओं (GD/GI) की सूची: पश्चिमी क्षेत्र**

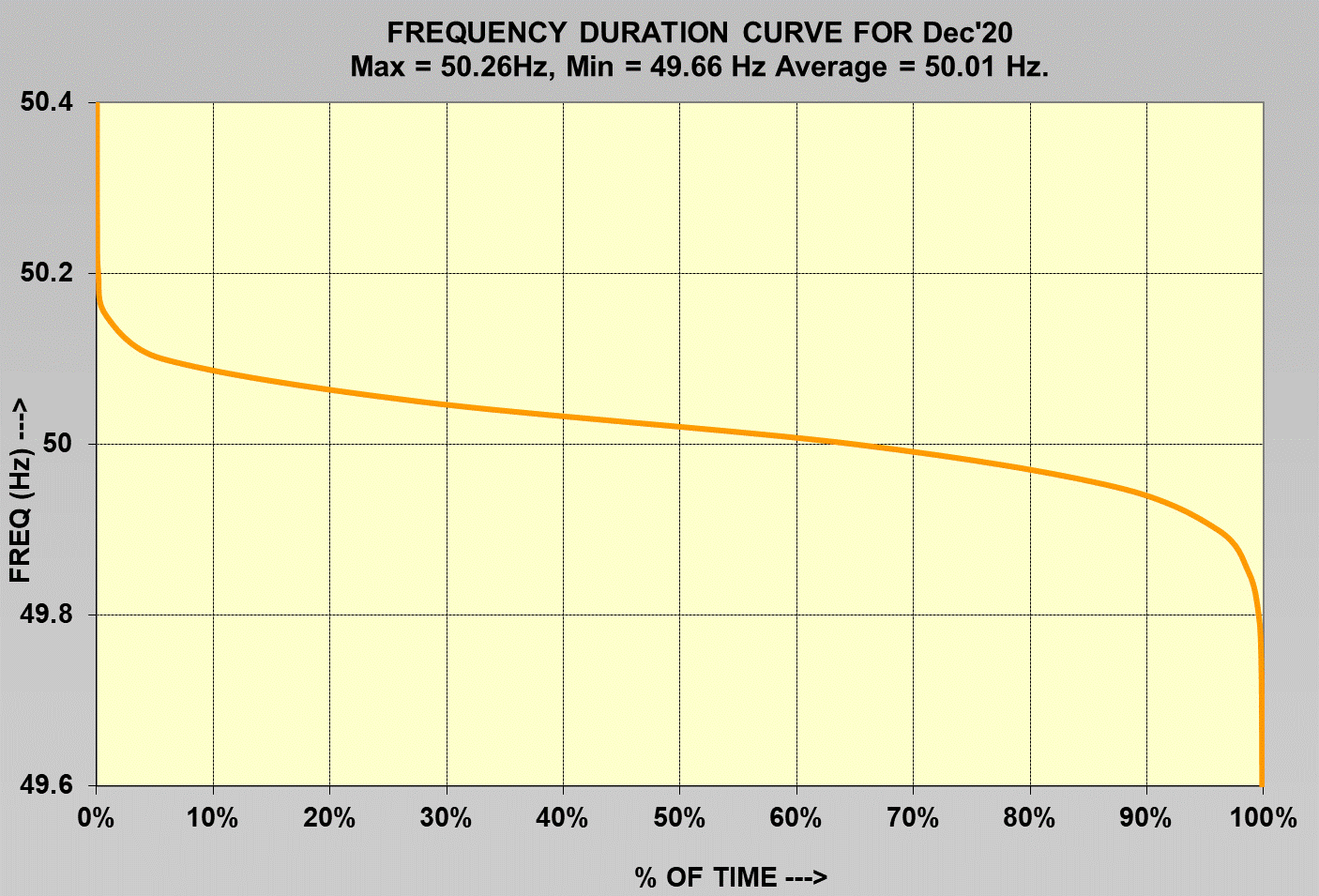
**List of Grid Disturbances and Grid incidents (GD/GI) in December 2020 : Western Region** 

**ANNEXURES**

**2.1 लोड अवधि वक्र Load Duration Curve**

****

**2.2 आवृत्ति अवधि वक्र Frequency Duration Curve**

****

**2.3** पीक और उच्चतम मांग दिन पर भार वक्र LOAD CURVE ON PEAK AND MAXIMUM DEMAND DAY

|  |
| --- |
| {%tr for item in max\_hourly\_section%} |
| {{item.img}} |
| {%tr endfor %} |

2.3 पीक और न्यूनतम मांग दिन पर भार वक्र LOAD CURVE ON PEAK AND MINIMUM DEMAND DAY

|  |
| --- |
| {%tr for item in min\_hourly\_section%} |
| {{item.img}} |
| {%tr endfor %} |

**2.4 UNITWISE INSTALLED CAPACITY November’2020**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Generating Station Details in Western Region** | | | | | |
| **CENTRAL SECTOR GENERATING STATIONS** | | | | | |
| **NTPC** | | | | | |
| **TYPE** | **STATION** | **INSTALLED CAPACITY** | | **EFFECTIVE CAPACITY** | |
| **UNITS** | **TOTAL (MW)** | **UNITS** | **TOTAL (MW)** |
| **Coal** | **KSTPS** | **3x200+3x500+1x500** | **2600** | **3x200+3x500+1x500** | **2600** |
| **VSTPS** | **6x210+2x500+2x500+3x500** | **4760** | **6x210+2x500+2x500+3x500** | **4760** |
| **Sipat STPS** | **2x500+3x660** | **2980** | **2X500+3X660** | **2980** |
| **Mauda** | **2x500+2x660** | **2320** | **2x500+2x660** | **2320** |
| **Solapur** | **2\*660** | **1320** | **2\*660** | **1320** |
| **Lara** | **2\*800** | **1600** | **2\*800** | **1600** |
| **Khargone** | **2\*660** | **1320** | **2\*660** | **1320** |
| **Gadarwara** | **2\*800** | **1600** | **2\*800** | **1600** |
| **NSPCL Bhilai TPP(\*)** | **2x250** | **500** | **2x250** | **500** |
| **TOTAL Coal** | |  | **19000** |  | **19000** |
| **GAS** | **KAWAS** | **4x106+2x116** | **656.20** | **4x106+2x116.1** | **656.20** |
| **GANDHAR** | **3x144.3+1x224.49** | **657.39** | **3x144.3+1x224.49** | **657.39** |
| **TOTAL GAS** | |  | **1314** |  | **1314** |
| **GRAND TOTAL** | |  | **20314** |  | **20314** |
| **NPCIL** | | | | | |
| **TYPE** | **STATION** | **INSTALLED CAPACITY** | | **EFFECTIVE CAPACITY** | |
| **UNITS** | **TOTAL (MW)** | **UNITS** | **TOTAL (MW)** |
| **NUCLEAR** | **TAPS** | **2x160+2x540** | **1400** | **2x160+2x540** | **1400** |
| **KAPS** | **2x220** | **440** | **2x220** | **440** |
| **TOTAL NUCLEAR** | |  | **1840** |  | **1840** |
| **RES** | | | | | |
| **Solar** | **ACME** |  | **250** |  | **250** |
| **ARINSUN** |  | **250** |  | **250** |
| **Mahindra** |  | **250** |  | **250** |
| **Wind** | **OSTRO** |  | **250** |  | **250** |
| **ReNew Power Ltd** |  | **350** |  | **185** |
| **GIWEL II** |  | **250** |  | **250** |
| **GIWEL III** |  | **300** |  | **300** |
| **IWISL** |  | **500** |  | **200** |
| **AGEMPL(Wind)** |  | **725** |  | **176** |
| **Alfanar (Wind)** |  | **300** |  | **234** |
|  | **Renew(AP2)** |  | **300** |  | **95** |
| **Total** | | **Solar** | **750** |  | **750** |
| **Wind** | **2975** |  | **1690** |
| **CENTRAL SECTOR SUMMARY** | | | | | |
|
| **TOTAL CENTRAL SECTOR** | **Coal** |  | **19000** |  | **19000** |
| **GAS** |  | **1314** |  | **1314** |
| **NUCLEAR** |  | **1840** |  | **1840** |
| **RES** |  | **3725** |  | **2460** |
| **GRAND TOTAL (CENTRAL SECTOR)** | |  | **25879** |  | **24594** |
| **STATE SECTOR GENERATING STATIONS** | | | | | |
|
| **GUJARAT** | | | | | |
|
| **TYPE** | **STATION** | **INSTALLED CAPACITY** |  | **EFFECTIVE CAPACITY** |  |
| **UNITS** | **TOTAL (MW)** | **UNITS** | **TOTAL (MW)** |
| **HYDRO** | **UKAI** | **4x75** | **300** | **4x75** | **300** |
| **UKAI (LBCH)** | **2x2.5** | **5** | **2x2.5** | **5** |
| **KADANA** | **4x60** | **240** | **4x60** | **240** |
| **MADHUBAN DAM** | **2x1.5+2.6** | **5.6** | **2\*1.5+2.6** | **5.6** |
| **KARJAN DAM** | **2x1.5** | **3** | **2x1.5** | **3** |
| **PANAM CANAL** | **2x1** | **2** | **2x1** | **2** |
| **Areva Hydro, Daulatpura** | **3x4** | **12** | **3x4** | **12** |
| **SARDAR SAROVAR** | **16% of 1450** | **1450** | **16% of 1450** | **232** |
| **TOTAL HYDRO** | |  | **2017.6** |  | **791** |
| **Coal** | **A.E.Co.(Torrent Power)** | **1x0+2x121+120** | **362** | **1x0+2x110+120** | **362** |
| **UKAI** | **2x0+2x200+1x210+ 1x500** | **1110** | **2x0+2x200+1x210+ 1x500** | **1110** |
| **GANDHI NAGAR** | **2x0+3x210** | **630** | **2x0+3x210** | **630** |
| **WANAKBORI** | **7x210** | **1470** | **7x210** | **1470** |
| **SIKKA** | **2x0+2x250** | **500** | **2x0+2x250** | **500** |
| **KUTCH LIGNITE** | **2x70+2x75** | **290** | **2x70+2x75** | **290** |
| **SURAT LIGNITE** | **4x125** | **500** | **4x125** | **500** |
| **AKRIMOTA** | **2x125** | **250** | **2x125** | **250** |
| **\*CGPL** | **\*\*3x830 +1x830+ 1x830** | **4150** | **\*\*3x830 +1x830+ 1x830** | **4150** |
| **\*Mundra(APL)** | **\*\*4\*330 +2\*660+3\*660** | **4620** | **\*\*4\*330 +2\*660+3\*660** | **4620** |
| **Essar Vadinar** | **2x600** | **1200** | **2x600** | **1200** |
| **BECL** | **2x250** | **500** | **2x250** | **500** |
| **OPGS** | **2x150** | **300** | **2x150** | **300** |
| **TOTAL Coal** | |  | **15882** |  | **15882** |
| **GAS** | **DHUVARAN** | **1x107+1x112+1x376** | **595** | **1x107+1x112+1x376** | **595** |
| **UTRAN-I** | **3x30+1x45** | **135** | **3x30+1x45** | **135** |
| **UTRAN-II** | **1X229+1X146(ST)** | **375** | **1X229+1X146(ST)** | **375** |
| **GIPCL I** | **3x32+49(ST)** | **145** | **3x32+49** | **145** |
| **GIPCL II** | **111+54(ST)** | **165** | **111+54** | **165** |
| **ESSAR\*\*** | **3x110+1x185 (ST)** | **215** | **3x110+1x185 (ST)** | **215** |
| **DGEN** | **3x400** | **1200** | **3x400** | **1200** |
| **Pipavav CCPP- GPCL & GSPC joint venture** | **2x351.43** | **702.86** | **2x351.43** | **702.86** |
| **GSEG Hazira I(Ext)** | **1x351** | **351** | **1x351** | **351** |
| **UNO Sugen** | **1x382.5** | **382.5** | **1x382.5** | **382.5** |
| **GSEG HAZIRA II** | **2x52+1x52.1 (ST)** | **156.1** | **2x52+1x52.1 (ST)** | **156.1** |
| **SUGEN** | **3X382.5** | **1147.5** | **3X382.5** | **1147.5** |
| **TOTAL GAS** | |  | **5570** |  | **5570** |
| **Diesel** |  |  | **0** |  | **0** |
| **RES** | **WIND+SOLAR+OTHERS** |  | **10996** |  | **10996** |
| **TOTAL GUJARAT** | **HYDRO** |  | **2017.6** |  | **791** |
| **COAL** |  | **15882** |  | **15882** |
| **GAS** |  | **5569.96** |  | **5569.96** |
| **GRAND TOTAL (GUJARAT)** | |  | **34466** |  | **33239** |
| **MADHYA PRADESH** | | | | | |
|
| **TYPE** | **STATION** | **INSTALLED CAPACITY** | | **EFFECTIVE CAPACITY** | |
| **UNITS** | **TOTAL (MW)** | **UNITS** | **TOTAL (MW)** |
| **HYDRO** | **GANDHI NAGAR** | **5x23 (50%)** | **115** | **5x23 (50%)** | **57.5** |
| **R P SAGAR** | **4x43 (50%)** | **172** | **4x43 (50%)** | **86** |
| **J SAGAR** | **3x33 (50%)** | **99** | **3x33 (50%)** | **49.5** |
| **PENCH SHARE** | **2x80 (66.67%)** | **160** | **2x80 (66.67%)** | **106.7** |
| **BANASAGAR TONS** | **3x105** | **315** | **3x105** | **315** |
| **BARGI** | **2x45** | **90** | **2x45** | **90** |
| **BANASAGAR** | **2x15+3x20+2x10** | **110** | **2x15+3x20+2x10** | **110** |
| **BIRSINGHPUR** | **1x20** | **20** | **1x20** | **20** |
| **RAJGHAT** | **3x15(50%)** | **45** | **3X15(50%)** | **22.5** |
| **INDIRA SAGAR** | **8x125** | **1000** | **8x125** | **1000** |
| **MADHIKHEDA HEP** | **3X20** | **60** | **3X20** | **60** |
| **MINI & MICRO HYDRO** | **5.46** | **5.46** | **5.46** | **5.46** |
| **Omkareswar Hydro** | **8x65** | **520** | **8x65** | **520** |
| **NVDA (BARGI LBC+ISP LBC)** | **2x5+3x5** | **25** | **2x5+3x5** | **25** |
| **RIHAND** | **6x50(15%)** | **300** | **6x50(15%)** | **45** |
| **MATATILA** | **3x10(15%)** | **30** | **3x10(15%)** | **10** |
| **TOTAL HYDRO** | |  | **3066** |  | **2523** |
| **Coal** | **AMARKANTAK** | **2X120+1X210** | **450** | **2X120+1X210** | **450** |
| **SATPURA-II** | **1x200+1x210** | **410** | **1x200+1x210** | **410** |
| **SATPURA-III & IV** | **2x210+2x250** | **920** | **2x210+2x250** | **920** |
| **S GANDHI TPS I & II** | **4x210** | **840** | **4x210** | **840** |
| **S GANDHI TPS III** | **1x500** | **500** | **1x500** | **500** |
| **Jaypee Bina** | **2x250 (70%)** | **500** | **2x250 (70%)** | **500** |
| **\*SASAN (Unit 1-6)** | **\*\*6x660 (37.5%)** | **3960** | **\*\*6x660** | **3960** |
| **Jayprakash Nigrie(IPP)** | **2x660 (37.5%)** | **1320** | **2x660 (37.5%)** | **1320** |
| **SSTP(Shri Singhaji Thermal Power Station)** | **4x600** | **2400** | **4x600** | **2400** |
| **BLA POWER** | **1x45(35%)** | **45** | **1x45(35%)** | **45** |
| **Jhabua Power ( Avanta)** | **2x600** | **1200** | **2x600** | **1200** |
| **M B Power** | **2x600 (35%)** | **1200** | **2x600 (35%)** | **1200** |
| **TOTAL THERMAL** | |  | **13745** |  | **13745** |
| **Diesel** |  |  | **0** |  | **0** |
| **RES** | **WIND+SOLAR+OTHERS** |  | **5051** |  | **5051** |
| **TOTAL MADHYA PRADESH** | **HYDRO** |  | **3066** |  | **2523** |
| **THERMAL** |  | **13745** |  | **13745** |
| **GRAND TOTAL (MADHYA PRADESH)** | |  | **21862** |  | **21319** |
| **CHHATISGARH** | | | | | |
| **TYPE** | **STATION** | **INSTALLED CAPACITY** | | **EFFECTIVE CAPACITY** | |
|  |  | **UNITS** | **TOTAL (MW)** | **UNITS** | **TOTAL (MW)** |
| **HYDRO** | **HASDEO BANGO** | **3x40** | **120** | **3x40** | **120** |
| **Gangrel** | **4x2.5** | **10** | **4x2.5** | **10** |
| **Korba West Mini Micro Hydel** | **2X.85** | **1.7** | **2X.85** | **1.7** |
| **Sikasar** | **2x3.5** | **7** | **2x3.5** | **7** |
| **TOTAL HYDRO** | |  | **138.7** |  | **138.7** |
| **Coal** | **KORBA (E)** | **4x50+2x120** | **440** | **4X50+2X120** | **440** |
| **KORBA (W)** | **4x210+1x500** | **1340** | **4x210+1x500** | **1340** |
| **KORBA (E) ext-I** | **2x250** | **500** | **2x250** | **500** |
| **Korba West Power Corp. Ltd. (IPP)** | **1x600** | **600** | **1x600** | **600** |
| **JINDAL Stage I,** | **4x250** | **1000** | **4x250** | **1000** |
| **JINDAL(JSPL TPP)unit3 DCPP(IPP)** | **4x135** | **540** | **4x135** | **540** |
| **LANCO-Amarkantak** | **2x300** | **600** | **2x300** | **600** |
| **SVPL TPP** | **1x63** | **63** | **1x63** | **63** |
| **Spectrum Coal Private Ltd.** | **2x50** | **100** | **2x50** | **100** |
| **ESSAR Mahan** | **2x600** | **1200** | **2x600** | **1200** |
| **GMR-Chhatisgarh Energy Ltd** | **2x685** | **1370** | **2x685** | **1370** |
| **ACBIL,IPP** | **2x135+2\*30** | **330** | **2x135+2\*30** | **330** |
| **KSK Mahanadi,IPP(Unit 1,2 and Unit 4)** | **3x600** | **1800** | **3x600** | **1800** |
| **DB Power,IPP** | **2x600** | **1200** | **2x600** | **1200** |
| **JPL Stage II,IPP** | **4x600** | **2400** | **4x600** | **2400** |
| **BALCO** | **4x300+4\*67.5+4\*135** | **2010** | **4x300+4\*67.5+4\*135** | **2010** |
| **RKM Powergrn ltd** | **4x360** | **1440** | **4x360** | **1440** |
| **Marwa TPS** | **1x500+1x500** | **1000** | **1x500+1x500** | **1000** |
| **Maruti Clean Coal Power Ltd** | **1x300** | **300** | **1x300** | **300** |
| **JP Nigri** | **2x660** | **1320** | **2x660** | **1320** |
| **TRN Energy** | **2x300** | **600** | **2x300** | **600** |
|  | **SKS** | **2x300** | **600** | **1x300** | **600** |
| **TOTAL THERMAL** | |  | **20753** |  | **20753** |
| **CHHATTISGARH TOTAL** | **HYDRO** |  | **138.7** |  | **138.7** |
| **THERMAL** |  | **20753** |  | **20753** |
| **Diesel** |  |  | **0** |  | **0** |
| **RES** | **WIND+SOLAR+OTHERS** |  | **552** |  | **552** |
| **GRAND TOTAL (CHHATISGARH)** | |  | **21444** |  | **21444** |
| **MAHARASHTRA** | | | | | |
| **TYPE** | **STATION** | **INSTALLED CAPACITY** | | **EFFECTIVE CAPACITY** | |
|  | **UNITS** | **TOTAL (MW)** | **UNITS** | **TOTAL (MW)** |
| **HYDRO** | **KOYNA I & II** | **4x(65+5)+4x(75+5)** | **600** | **4x(65+5)+4x(75+5)** | **600** |
| **KOYNA III** | **4x80** | **320** | **4x80** | **320** |
| **KOYNA DPH** | **2x20** | **40** | **2X18** | **36** |
| **KOYNA IV** | **4x250** | **1000** | **4x250** | **1000** |
| **KHOPOLI** | **3x24** | **72** | **3x24** | **72** |
| **BHIVPURI** | **3x24+2x1.5** | **75** | **3x24+2x1.5** | **75** |
| **BHIRA** | **6x25** | **150** | **6x25** | **150** |
| **BHIRA PSS** | **1x150** | **150** | **1x150** | **150** |
| **VAITHARNA** | **1x60** | **60** | **1x60** | **60** |
| **TILLARI** | **1x66** | **66** | **1x66** | **66** |
| **BHIRA T/R** | **2x40** | **80** | **2x40** | **80** |
| **GOM HYDRO** |  | **38** |  | **38** |
| **DADSON** | **1x44** | **44** | **1x44** | **44** |
| **GHATGHAR** | **2x125** | **250** | **2x125** | **250** |
| **TOTAL HYDRO** | |  | **2945** |  | **2941** |
|  | **CHANDRAPUR** | **2x0+2x210+3x500** | **1920** | **2x0+2x210+3x500** | **1920** |
| **Coal** | **CHANDRAPUR Extension** | **1x500+1x500** | **1000** | **1x500+1x500** | **1000** |
| **TROMBAY** | **1x500+1x250** | **750** | **1x500+1x250** | **750** |
| **KORADI** | **2x210** | **420** | **2x210** | **420** |
| **KORADI** | **3x660** | **1980** | **3x660** | **1980** |
| **NASIK** | **3x210** | **630** | **3x210** | **630** |
| **KHAPERKHEDA** | **4x210+1x500** | **1340** | **4x210 +1x500** | **1340** |
| **PARLI** | **2x0+1x0+2x210+2x250+1x250** | **1170** | **2x0+1x0+2x210+2x250+1x250** | **1170** |
| **BHUSAWAL** | **2x210+ 2x500** | **1420** | **2x210+ 2x500** | **1420** |
| **REL DAHANU** | **2x250** | **500** | **2x250** | **500** |
| **PARAS** | **2x250** | **500** | **2x250** | **500** |
| **JSW Ratnagiri(Jaigad)** | **4x300** | **1200** | **4x300** | **1200** |
| **Mihan TPP(Abhijit)** | **4x61.5** | **246** | **4x62.5** | **246** |
| **Wardha Warora Power Co Ltd.** | **4x135** | **540** | **4x135** | **540** |
| **Vidharbha Industry, Butibori** | **2x300** | **600** | **2x300** | **600** |
| **APML,Tiroda-Ph-I(400 kV)** | **3x660** | **1980** | **3x660** | **1980** |
| **APML,Tiroda-Ph-II( 765 kV)** | **2x660** | **1320** | **2x660** | **1320** |
| **IEPL (Ideal Energy Power Ltd, Belapur)** | **1x270** | **270** | **1x270** | **270** |
| **IBL (India Bulls Limited, Amravati) Ratan India** | **5x270** | **1350** | **5x270** | **1350** |
| **GMR Warora** | **2x300** | **600** | **2x300** | **600** |
| **Indrajeet** | **1x77** | **77** | **1x77** | **77** |
| **Indorama** | **1x49** | **49** | **1x49** | **49** |
| **Finolex, Ratnagiri** | **1x43** | **43** | **1x43** | **43** |
| **JSW Boisar, Vashi Circle** | **1x37.6** | **37.6** | **1x37.6** | **37.6** |
| **Uttam Galwa** | **1x60** | **60** | **1x60** | **60** |
| **Gupta Energy ltd** | **2x60** | **120** | **2x60** | **120** |
| **Topworth Urja** | **1x30** | **30** | **1x30** | **30** |
| **Ultratech Cement ltd.** | **1x46** | **46** | **1x46** | **46** |
| **Vayunandana Power ltd** | **1x10** | **10** | **1x10** | **10** |
| **Dhariwal-I& II (STU)** | **1x300** | **300** | **1x300** | **300** |
| **ISMT Ltd** | **40** | **40** | **40** | **40** |
| **Suryalakshmi Cotton & Mills Ltd** | **25** | **25** | **25** | **25** |
| **Grace Industries Ltd** | **33** | **33** | **33** | **33** |
| **Prithvi Ferro Alloys Pvt. Ltd** | **18** | **18** | **18** | **18** |
| **RCF, , Pen circle** | **30** | **30** | **30** | **30** |
| **BILT Power, Baramati ® circle** | **5** | **5** | **5** | **5** |
| **Reliance Patalganga** | **20** | **20** | **20** | **20** |
| **Sunflag , Bhandara Circle** | **15** | **15** | **15** | **15** |
| **BILT Power,Chandrapur circle** | **10** | **10** | **10** | **10** |
| **Gopani Chandrapur circle** | **12** | **12** | **12** | **12** |
| **ONGC, Vashi circle** | **59.6** | **59.6** | **59.6** | **59.6** |
| **IG Petro, Vashi circle** | **4.2** | **4.2** | **4.2** | **4.2** |
| **Technocraft Industries, Kalyan Circle** | **5** | **5** | **5** | **5** |
| **Ratan India Pvt Ltd.(Sinner)** | **1x270+1x270** | **540** | **1x270+1x270** | **540** |
| **RPL URJA YEOTMAL** |  | **10** |  | **10** |
| **Siddhabali Ispat, Chandrapur Circle** |  | **20** |  | **20** |
| **TOTAL COAL** | |  | **21355.4** |  | **21355.4** |
| **GAS** | **TROMBAY-7A & 7B** | **120+60** | **180** | **120+60** | **180** |
| **URAN (G)** | **4x108** | **432** | **4x108** | **432** |
| **URAN-DPH** | **2x120** | **240** | **2x120** | **240** |
| **RATNAGIRI PHASE - I** | **2x205+1x230** | **640** | **2x205+1x230** | **640** |
| **RATNAGIRI PHASE -II** | **2x213 + 237.54** | **663.54** | **2x213 + 237.54** | **663.54** |
| **RATNAGIRI PHASE- III** | **2x213 + 237.55** | **663.54** | **2x213 + 237.55** | **663.54** |
| **Pioneer Gas Pvt Ltd** | **1x126 + 1x262** | **388** | **1x126 + 1x262** | **388** |
| **TOTAL GAS** | |  | **3207** |  | **3207** |
| **Diesel** | **Diesel** |  | **0** |  | **0** |
| **RES** | **WIND+SOLAR+OTHERS** |  | **9766** |  | **9766** |
| **MAHARASHTRA** | **HYDRO** |  | **2945** |  | **2941** |
| **COAL** |  | **21355.4** |  | **21355.4** |
| **GAS** |  | **3207.08** |  | **3207.08** |
| **RES** |  | **9779** |  | **9779** |
| **GRAND TOTAL (MAHARASHTRA)** |  |  | **37286** |  | **37282** |
| **GOA** | | | | | |
| **TYPE** | **STATION** | **INSTALLED CAPACITY** | | **EFFECTIVE CAPACITY** | |
| **UNITS** | **TOTAL (MW)** | **UNITS** | **TOTAL (MW)** |
| **Diesel** |  |  | **0** |  | **0** |
| **RES** |  |  | **5.12** |  | **5.12** |
| **GAS** | **RELIANCE, SALGAONKAR** | **1x39.82+1x8.2** | **48.02** | **1x39.82+1x8.2** | **48.02** |
| **GRAND TOTAL (GOA)** | |  | **53** |  | **53** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Units Decommissioned** | |  |  |
| **UNIT** | **CAPACITY (MW)** | | **Withdrawn from** |
| Paras -2 | 55 | | 16-11-2010 |
| Parli -1 | 20 | | 12-12-2010 |
| Parli -2 | 20 | | 12-11-2010 |
| Parli-3 | 210 | | 10-05-2016 |
| Parli-4 | 210 | | 30-11-2019 |
| Parli-5 | 210 | | 30-11-2019 |
| Bhusawal -1 | 50 | | 15-12-2010 |
| Bhusawal -2 | 210 | | 01-04-2017 |
| Koradi - 1 to 4(105 MW each) | 420 | | 01-08-2011 |
| Koradi-5 | 200 | | 02-03-2017 |
| Satpura Stage I(Unit 1) | 62.5 | | 01-07-2014 |
| Satpura Stage I(Unit 2) | 62.5 | | 12-05-2013 |
| Satpura Stage I(Unit 3) | 62.5 | | 10-01-2013 |
| Satpura Stage I(Unit 4) | 62.5 | | 12-05-2013 |
| Satpura Stage I(Unit 5) | 62.5 | | 02-01-2013 |
| Amarkantak unit 2&3 | 2x120 | | 2014 & 2015 |
| Torrent Power | 100 | | 04-01-2014 |
| Vandana Vidyut,IPP | 1x135 | | 01-05-2015 |
| Gandhinagar | 2x120 | | 03-09-2016 |
| Korba East-II Unit-1 to 4 | 4x50 | |  |
| Chandrapur | 2x210 | | 01-04-2016 |
| UTRAN-I | 3x30+1x45 | | 22-01-2017 |
| ESSAR\*\* | 3x110+1x185 (ST)-215(PPA withdrawn) | | 29-05-2016 |
| Sikka(1& 2) | 2x120 | | 01-04-2017 |
| Ukai(1& 2) | 2x120 | | 01-04-2017 |
| A.E.Co.(Torrent Power) | 1x60 | | 02-04-2018 |
| GPEC | 3x138+1x241(ST) | |  |
| TROMBAY(Unit-6) | 500 | | 30-07-2019 |

|  |  |
| --- | --- |
|  |  |

**2.5 दिसम्बर 2020 के लिए कोणीय विभाजन उल्लंघन रिपोर्ट**

**Angular separation violation report for December 2020**



**2.6 *System Reliability Indices (ATC/TTC and VDI) Monthly Report 2020-21:***

Details of percentage of time ATC (Available Transfer Capability) violation, percentage of time (N-1) criteria violation and Voltage Deviation Index (VDI) are available at link given below-

<https://posoco.in/reports/system-reliability-indices/monthly-vdittcatc/monthly-vdi-ttc-atc-2020-21/>

**वितरण Distribution**

**1. मुख्य अभियंता(भा.प्रे.),गेटको, एसएलडीसी,गोत्री, एन.एच-8, वडोदरा 390014**

**2. मुख्य अभियंता(भा.प्रे.),मध्यप्रदेश एसएलडीसी,नयागांव,जबलपुर 482008**

**3. मुख्य अभियंता(भा.प्रे.),महाराष्ट्र एसएलडीसी ,पोस्ट बॉक्स 95, ठाणे-बेलापुररोड,**

**एरोली,नवी मुंबई 400708**

**4.मुख्य अभियंता(भा.प्रे.),छत्तिसगड एसएलडीसी ,डंगानिया, रायपुर 492010**

**5. मुख्य विदुयत अभियंता,गोवा एसएलडीसी,3 री मंजिल,पणजीम,गोवा.**

**6.महाप्रबंधक ट्रांसमीशन,न्युक्लियरपावर कारपोरेशन,विक्रम साराभाई भवन,अनूशक्ति नगर, मुंबई 400094**

**7.कार्यपालक निदेशक,एन.टी.पी.सी,2री मंजिल ,समृद्धि ट्रेड सेंटर,एम.आय.डी.सी.,मरोल,**

**अंधेरी(पूर्व),मुंबई 400093**

**8. कार्यपालक अभियंता, विदयुत भवन, 66 के.वी.रोड ,सचिवालय के पास, अमली, दादरा और नगर हवेली, सिलवासा**

**396230**

**9. मुख्य विदुयत अभियंता, दमण और दिव इलेक्ट्रिसिटि डिपार्टमेन्ट,66/11केवी काचीगाम सब स्टेशन, सोमनाथ-**

**काचीगाम रोड, काचीगाम, दमण-396210**

**10.सदस्य सचिव,प.क्षे.वि.समिती,एफ-3,एम.आय.डी.सी.,मरोल, अंधेरी(पूर्व), मुंबई 400093**

**11. कार्यपालक निदेशक, पावर ग्रिड, प्रा.प्र.-I,संप्रीति नगर नारी रिंग रोड,नागपुर 440026**

**12. कार्यपालक निदेशक, पावर ग्रिड, प्रा.प्र.-II, क्षेत्रीय मुख्यालय,प्लॉट संख्या 54,रिया-रेवती रिसोर्ट के.पास,अब्मे**

**विद्यालय के सामने,समा सावली रोड , बाडोदरा -390008 (गुजरात)**

**13. कार्यपालक निदेशक, एन.एल. डी.सी., पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड,**

**बी. 9, कुतुब इंस्टुटीएसनल, एरिया कटवारिया सराय, नई दिल्ली 110016**

**14. कार्यपालक निदेशक, पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड, एन.आर.एल.डी.सी.,**

**18 ए. एस. एस. मार्ग ,कटवारिया सराय, नई दिल्ली 110016**

**15. कार्यपालक निदेशक,पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड, एन.ई.आर.एल.डी.सी., ड़ोंग टिथ लोवर**

**नानगर, लापालंग, शिलांग-793006(मेघालय)**

**16. कार्यपालक निदेशक, पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड, ई.आर.एल.डी.सी,14 गोल्फ क्लब रोड,**

**टोलीगंज, कोलकाता-700033**

**17. कार्यपालक निदेशक, पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड, एस.आर.एल.डी.सी, 29 रेस कोर्स क्रॉस**

**रोड, बेंगलूर- 560009**