



**National Load Despatch Centre**  
**राष्ट्रीय भार प्रेषण केंद्र**  
**POWER SYSTEM OPERATION CORPORATION LIMITED**  
**पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड**  
(Government of India Enterprise/ भारत सरकार का उद्यम)  
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016  
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

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Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 3<sup>rd</sup> Oct 2020

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. कार्यकारी निदेशक, ऊ.क्षे.भा.प्रे.के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली – 110016  
Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
3. कार्यकारी निदेशक, प.क्षे.भा.प्रे.के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई –400093  
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह , लापालंग, शिलोंग – 793006  
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. कार्यकारी निदेशक , द.क्षे.भा.प्रे.के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु –560009  
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

**Sub: Daily PSP Report for the date 02.10.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-अक्टूबर-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध है ।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 2<sup>nd</sup> October 2020, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड  
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting:

03-Oct-2020

**A. Power Supply Position at All India and Regional level**

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	51834	47587	36311	20999	2825	159556
Peak Shortage (MW)	100	0	0	0	138	238
Energy Met (MU)	1195	1110	817	452	54	3627
Hydro Gen (MU)	218	78	116	129	24	565
Wind Gen (MU)	14	46	102	-	-	161
Solar Gen (MU)*	41.99	30.59	90.11	4.21	0.07	167
Energy Shortage (MU)	0.5	0.0	0.0	0.0	2.9	3.4
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54491	48056	36798	21515	2887	161070
Time Of Maximum Demand Met (From NLDC SCADA)	00:03	18:58	12:25	21:41	18:00	19:14

**B. Frequency Profile (%)**

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.031	0.00	0.68	1.89	2.57	80.74	16.69

**C. Power Supply Position in States**

Region	States	Max.Demand Met during the day(MW)	Shortage during maximum Demand(MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	8359	0	190.9	117.2	-1.2	84	0.0
	Haryana	7767	0	164.1	129.8	1.5	218	0.0
	Rajasthan	11060	0	243.6	79.0	-1.5	325	0.0
	Delhi	4563	0	87.1	75.1	-0.1	161	0.0
	UP	21029	0	397.1	163.2	1.5	601	0.5
	Uttarakhand	1569	0	33.4	16.4	0.2	162	0.0
	HP	1228	0	26.7	8.7	0.0	74	0.0
	J&K(UT) & Ladakh(UT)	2522	0	48.1	32.5	0.6	265	0.0
Chandigarh	201	0	3.9	4.0	-0.1	24	0.0	
WR	Chhattisgarh	3815	0	93.6	27.8	1.1	201	0.0
	Gujarat	15387	0	346.3	91.7	0.4	566	0.0
	MP	9533	0	215.0	132.2	-0.9	429	0.0
	Maharashtra	18075	0	405.5	140.9	-0.8	461	0.0
	Goa	434	0	9.0	8.4	-0.0	48	0.0
	DD	285	0	6.2	6.2	0.0	31	0.0
	DNH	748	0	16.7	16.9	-0.2	63	0.0
	AMNSIL	847	0	17.5	1.2	0.5	242	0.0
SR	Andhra Pradesh	7224	0	153.6	55.8	0.4	523	0.0
	Telangana	8177	0	166.9	49.4	0.3	447	0.0
	Karnataka	7748	0	154.0	57.1	0.2	518	0.0
	Kerala	3243	0	64.8	42.7	-0.0	213	0.0
	Tamil Nadu	12291	0	271.6	137.6	-2.6	444	0.0
	Puducherry	311	0	6.1	6.9	-0.8	26	0.0
ER	Bihar	5734	0	114.6	107.9	1.2	674	0.0
	DVC	2808	0	61.4	-42.9	-0.3	236	0.0
	Jharkhand	1411	0	27.6	21.5	-1.7	45	0.0
	Odisha	4365	0	88.9	18.2	0.4	463	0.0
	West Bengal	7804	0	158.2	45.8	0.4	264	0.0
	Sikkim	71	0	0.9	1.3	-0.4	7	0.0
NER	Arunachal Pradesh	116	2	2.0	2.1	-0.1	25	0.0
	Assam	1800	112	33.6	29.2	1.0	129	2.9
	Manipur	195	2	2.5	2.5	-0.0	21	0.0
	Meghalaya	337	0	6.0	0.7	-0.0	98	0.0
	Mizoram	86	1	1.5	1.0	0.2	36	0.0
	Nagaland	126	1	2.6	2.2	0.1	9	0.0
	Tripura	284	0	5.5	6.5	0.2	78	0.0

**D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)**

	<b>Bhutan</b>	<b>Nepal</b>	<b>Bangladesh</b>
<b>Actual (MU)</b>	<b>34.9</b>	<b>-2.0</b>	<b>-26.2</b>
<b>Day Peak (MW)</b>	<b>2055.0</b>	<b>-238.4</b>	<b>-1125.0</b>

**E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)**

	<b>NR</b>	<b>WR</b>	<b>SR</b>	<b>ER</b>	<b>NER</b>	<b>TOTAL</b>
<b>Schedule(MU)</b>	<b>314.2</b>	<b>-286.5</b>	<b>80.0</b>	<b>-107.0</b>	<b>-0.6</b>	<b>0.0</b>
<b>Actual(MU)</b>	<b>323.4</b>	<b>-298.8</b>	<b>75.5</b>	<b>-102.5</b>	<b>0.7</b>	<b>-1.7</b>
<b>O/D/U/D(MU)</b>	<b>9.2</b>	<b>-12.3</b>	<b>-4.4</b>	<b>4.5</b>	<b>1.3</b>	<b>-1.7</b>

**F. Generation Outage(MW)**

	<b>NR</b>	<b>WR</b>	<b>SR</b>	<b>ER</b>	<b>NER</b>	<b>TOTAL</b>
<b>Central Sector</b>	<b>5206</b>	<b>14012</b>	<b>12002</b>	<b>1455</b>	<b>551</b>	<b>33226</b>
<b>State Sector</b>	<b>10409</b>	<b>17597</b>	<b>15496</b>	<b>6057</b>	<b>112</b>	<b>49671</b>
<b>Total</b>	<b>15615</b>	<b>31609</b>	<b>27498</b>	<b>7512</b>	<b>663</b>	<b>82897</b>

**G. Sourcewise generation (MU)**

	<b>NR</b>	<b>WR</b>	<b>SR</b>	<b>ER</b>	<b>NER</b>	<b>All India</b>
<b>Coal</b>	<b>533</b>	<b>1132</b>	<b>303</b>	<b>448</b>	<b>7</b>	<b>2423</b>
<b>Lignite</b>	<b>26</b>	<b>13</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>63</b>
<b>Hydro</b>	<b>218</b>	<b>78</b>	<b>116</b>	<b>129</b>	<b>24</b>	<b>565</b>
<b>Nuclear</b>	<b>27</b>	<b>21</b>	<b>69</b>	<b>0</b>	<b>0</b>	<b>117</b>
<b>Gas, Naptha &amp; Diesel</b>	<b>23</b>	<b>73</b>	<b>15</b>	<b>0</b>	<b>27</b>	<b>138</b>
<b>RES (Wind, Solar, Biomass &amp; Others)</b>	<b>68</b>	<b>77</b>	<b>224</b>	<b>4</b>	<b>0</b>	<b>372</b>
<b>Total</b>	<b>894</b>	<b>1393</b>	<b>751</b>	<b>581</b>	<b>58</b>	<b>3678</b>

<b>Share of RES in total generation (%)</b>	<b>7.58</b>	<b>5.51</b>	<b>29.79</b>	<b>0.73</b>	<b>0.12</b>	<b>10.12</b>
<b>Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)</b>	<b>34.97</b>	<b>12.59</b>	<b>54.44</b>	<b>22.93</b>	<b>41.44</b>	<b>28.67</b>

**H. All India Demand Diversity Factor**

<b>Based on Regional Max Demands</b>	<b>1.017</b>
<b>Based on State Max Demands</b>	<b>1.065</b>

*Diversity factor = Sum of regional or state maximum demands / All India maximum demand*

\*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

**INTER-REGIONAL EXCHANGES**

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 03-Oct-2020

SI No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	HVDC	ALIPURDUAR-AGRA	2	0	1000	0.0	24.2	-24.2	
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.2	-7.2	
3	765 kV	GAYA-VARANASI	2	0	579	0.0	8.2	-8.2	
4	765 kV	SASARAM-FATEHPUR	1	203	111	2.0	0.0	2.0	
5	765 kV	GAYA-BALIA	1	0	469	0.0	8.4	-8.4	
6	400 kV	PUSAULI-VARANASI	1	0	265	0.0	5.3	-5.3	
7	400 kV	PUSAULI -ALLAHABAD	1	0	119	0.0	3.6	-3.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	550	0.0	9.1	-9.1	
9	400 kV	PATNA-BALIA	4	0	790	0.0	13.5	-13.5	
10	400 kV	BIHARSHARIFF-BALIA	2	0	287	0.0	4.6	-4.6	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	331	0.0	5.3	-5.3	
12	400 kV	BIHARSHARIFF-VARANASI	2	141	166	0.6	0.0	0.6	
13	220 kV	PUSAULI-SAHUPURI	1	0	125	0.0	2.2	-2.2	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.6	0.0	0.6	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	3.2	91.6	-88.4
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	773	10	12.4	0.0	12.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1433	0	15.5	0.0	15.5	
3	765 kV	JHARSUGUDA-DURG	2	207	125	0.7	0.0	0.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	354	0	4.1	0.0	4.1	
5	400 kV	RANCHI-SIPAT	2	482	0	7.1	0.0	7.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	141	0.0	2.2	-2.2	
7	220 kV	BUDHIPADAR-KORBA	2	173	0	2.5	0.0	2.5	
						ER-WR	42.3	2.2	40.1
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	336	0.0	7.6	-7.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1639	0.0	35.1	-35.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2688	0.0	42.7	-42.7	
4	400 kV	TALCHER-I/C	2	772	651	4.1	0.0	4.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	85.4	-85.4
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	524	0.0	7.1	-7.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	120	460	0.0	3.7	-3.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	135	0.0	2.0	-2.0	
						ER-NER	0.0	12.8	-12.8
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	603	0.0	14.6	-14.6	
						NER-NR	0.0	14.6	-14.6

Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1754	0.0	38.1	-38.1
2	HVDC	VINDHYACHAL B/B	-	271	54	1.5	0.0	1.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1918	0.0	38.2	-38.2
4	765 kV	GWALIOR-AGRA	2	0	2678	0.0	52.6	-52.6
5	765 kV	PHAGI-GWALIOR	2	0	1283	0.0	25.0	-25.0
6	765 kV	JABALPUR-ORAI	2	0	1106	0.0	42.2	-42.2
7	765 kV	GWALIOR-ORAI	1	504	0	9.6	0.0	9.6
8	765 kV	SATNA-ORAI	1	0	1572	0.0	33.0	-33.0
9	765 kV	CHITORGARH-BANASKANTHA	2	0	994	0.0	16.2	-16.2
10	400 kV	ZERDA-KANKROLI	1	0	160	0.0	2.1	-2.1
11	400 kV	ZERDA -BHINMAL	1	6	293	0.0	3.3	-3.3
12	400 kV	VINDHYACHAL -RIHAND	1	983	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	2	0	473	0.0	8.3	-8.3
14	220 kV	BHANPURA-RANPUR	1	0	141	0.0	2.5	-2.5
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	2.5	-2.5
16	220 kV	MEHGAON-AURAIYA	1	88	3	0.2	0.2	0.1
17	220 kV	MALANPUR-AURAIYA	1	46	40	1.0	0.0	1.0
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						34.7	263.9	-229.3

Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	316	0.0	7.3	-7.3
2	HVDC	RAIGARH-PUGALUR	2	0	299	0.0	6.8	-6.8
3	765 kV	SOLAPUR-RAICHUR	2	1336	1791	0.0	3.5	-3.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2089	0.0	24.0	-24.0
5	400 kV	KOLHAPUR-KUDGI	2	694	0	10.6	0.0	10.6
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	75	1.5	0.0	1.5
WR-SR						12.1	41.7	-29.6

INTERNATIONAL EXCHANGES						
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	552	0	42	1.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1042	0	989	23.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	340	0	318	7.6
	NER	132KV-GEYLEGPHU - SALAKATI	58	45	-52	-1.2
	NER	132kV Motanga-Rangia	63	44	-53	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-50	0	-22	-0.5
	ER	132KV-BIHAR - NEPAL	-44	-1	-4	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-144	-2	-58	-1.4
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-957	-938	-954	-22.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	84	0	-68	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	84	0	-68	-1.6