



**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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 02<sup>th</sup> Jul 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, लापलंग, 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 01.07.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 01-जुलाई-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 01<sup>end</sup> July 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:

02-Jul-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)	60826	41432	35942	21193	2724	162117
Peak Shortage (MW)	722	0	0	99	123	944
Energy Met (MU)	1460	1004	855	467	50	3836
Hydro Gen (MU)	364	57	65	150	29	665
Wind Gen (MU)	13	55	149	-	-	217
Solar Gen (MU)*	38.57	23.15	72.45	4.82	0.03	139
Energy Shortage (MU)	11.2	0.0	0.0	0.4	1.5	13.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66463	44130	39300	22252	2718	166781
Time Of Maximum Demand Met (From NLDC SCADA)	22:30	14:57	10:41	22:20	19:54	22:19

**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	0.035	0.00	0.06	8.27	8.33	79.82	11.85

**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	12905	0	293.6	146.3	-1.5	53	0.0
	Haryana	10282	0	230.8	164.4	1.7	255	0.3
	Rajasthan	12095	0	256.7	108.8	3.1	575	0.0
	Delhi	5954	0	120.0	99.8	-1.7	174	0.0
	UP	21316	440	437.3	202.0	-0.3	652	0.6
	Uttarakhand	1843	0	41.8	18.8	0.7	116	0.0
	HP	1432	0	29.3	-1.4	-0.6	58	0.0
	J&K(UT) & Ladakh(UT)	2251	563	43.4	18.4	1.9	367	10.3
Chandigarh	348	0	6.8	6.6	0.2	36	0.0	
WR	Chhattisgarh	3840	0	89.9	35.7	0.3	288	0.0
	Gujarat	14616	0	309.3	82.8	2.2	660	0.0
	MP	8494	0	189.8	111.2	-0.7	1328	0.0
	Maharashtra	16307	0	370.1	162.4	-3.2	865	0.0
	Goa	424	0	9.2	8.9	-0.2	62	0.0
	DD	231	0	5.1	5.0	0.1	20	0.0
	DNH	556	0	12.8	12.9	-0.1	59	0.0
	AMNSIL	790	0	17.4	7.4	0.1	240	0.0
SR	Andhra Pradesh	7434	0	157.0	45.4	-0.7	644	0.0
	Telangana	8218	0	165.9	75.5	0.7	631	0.0
	Karnataka	9176	0	175.3	63.3	-2.3	740	0.0
	Kerala	3187	0	66.4	45.6	0.1	262	0.0
	Tamil Nadu	12427	0	283.4	119.6	-3.1	430	0.0
	Puducherry	354	0	7.3	7.6	-0.3	30	0.0
ER	Bihar	5796	0	112.4	105.3	1.0	450	0.0
	DVC	2891	0	62.8	-39.7	-0.1	239	0.0
	Jharkhand	1398	99	27.8	19.6	-1.2	156	0.4
	Odisha	4347	0	89.6	0.5	-0.5	477	0.0
	West Bengal	8292	0	173.0	52.9	2.1	464	0.0
	Sikkim	96	0	1.3	1.3	0.1	81	0.0
NER	Arunachal Pradesh	103	1	1.9	1.9	-0.0	12	0.1
	Assam	1699	108	30.7	26.0	0.2	164	1.2
	Manipur	179	2	2.7	2.5	0.2	30	0.1
	Meghalaya	317	0	5.6	-0.7	-0.0	45	0.0
	Mizoram	97	1	1.6	1.2	0.2	49	0.0
	Nagaland	127	1	2.2	2.3	-0.4	18	0.1
	Tripura	288	1	5.1	3.7	0.8	88	0.0

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

	<b>Bhutan</b>	<b>Nepal</b>	<b>Bangladesh</b>
<b>Actual (MU)</b>	<b>50.1</b>	<b>-1.7</b>	<b>-21.4</b>
<b>Day Peak (MW)</b>	<b>2216.0</b>	<b>-217.3</b>	<b>-1107.0</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>341.9</b>	<b>-294.5</b>	<b>76.2</b>	<b>-123.7</b>	<b>0.1</b>	<b>0.0</b>
<b>Actual(MU)</b>	<b>356.2</b>	<b>-302.3</b>	<b>64.5</b>	<b>-119.6</b>	<b>1.7</b>	<b>0.5</b>
<b>O/D/U/D(MU)</b>	<b>14.3</b>	<b>-7.8</b>	<b>-11.7</b>	<b>4.1</b>	<b>1.6</b>	<b>0.5</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>5043</b>	<b>14494</b>	<b>11222</b>	<b>3320</b>	<b>740</b>	<b>34819</b>
<b>State Sector</b>	<b>7034</b>	<b>22479</b>	<b>13923</b>	<b>4082</b>	<b>11</b>	<b>47529</b>
<b>Total</b>	<b>12077</b>	<b>36973</b>	<b>25145</b>	<b>7402</b>	<b>751</b>	<b>82348</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>617</b>	<b>1049</b>	<b>381</b>	<b>467</b>	<b>10</b>	<b>2525</b>
<b>Lignite</b>	<b>26</b>	<b>13</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>62</b>
<b>Hydro</b>	<b>364</b>	<b>57</b>	<b>65</b>	<b>150</b>	<b>29</b>	<b>665</b>
<b>Nuclear</b>	<b>26</b>	<b>31</b>	<b>47</b>	<b>0</b>	<b>0</b>	<b>104</b>
<b>Gas, Naptha &amp; Diesel</b>	<b>30</b>	<b>80</b>	<b>19</b>	<b>0</b>	<b>15</b>	<b>144</b>
<b>RES (Wind, Solar, Biomass &amp; Others)</b>	<b>71</b>	<b>87</b>	<b>267</b>	<b>5</b>	<b>0</b>	<b>431</b>
<b>Total</b>	<b>1136</b>	<b>1319</b>	<b>801</b>	<b>621</b>	<b>54</b>	<b>3931</b>

<b>Share of RES in total generation (%)</b>	<b>6.29</b>	<b>6.62</b>	<b>33.33</b>	<b>0.78</b>	<b>0.06</b>	<b>10.95</b>
<b>Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)</b>	<b>40.64</b>	<b>13.35</b>	<b>47.22</b>	<b>24.91</b>	<b>53.82</b>	<b>30.52</b>

**H. All India Demand Diversity Factor**

<b>Based on Regional Max Demands</b>	<b>1.048</b>
<b>Based on State Max Demands</b>	<b>1.080</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: 02-Jul-2020

SI No	Voltage Level	Line Details	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	-	0	1001	0.0	22.8	-22.8	
2	HVDC	PUSAULI B/B	S/C	0	399	0.0	9.5	-9.5	
3	765 kV	GAYA-VARANASI	D/C	0	700	0.0	11.7	-11.7	
4	765 kV	SASARAM-FATEHPUR	S/C	311	177	2.5	0.0	2.5	
5	765 kV	GAYA-BALIA	S/C	0	551	0.0	8.5	-8.5	
6	400 kV	PUSAULI-VARANASI	S/C	0	283	0.0	6.1	-6.1	
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	180	0.0	3.5	-3.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	712	0.0	13.2	-13.2	
9	400 kV	PATNA-BALIA	Q/C	0	1051	0.0	18.4	-18.4	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	396	0.0	5.8	-5.8	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	320	0.0	5.4	-5.4	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	59	164	0.0	1.6	-1.6	
13	220 kV	PUSAULI-SAHUPURI	S/C	21	116	0.0	1.7	-1.7	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.4	0.0	0.4	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	2.8	108.3	-105.4
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	506	388	3.7	0.0	3.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	980	0	13.7	0.0	13.7	
3	765 kV	JHARSUGUDA-DURG	D/C	159	160	0.0	0.4	-0.4	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	47	156	0.0	1.3	-1.3	
5	400 kV	RANCHI-SIPAT	D/C	355	0	5.3	0.0	5.3	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	119	0.0	1.9	-1.9	
7	220 kV	BUDHIPADAR-KORBA	D/C	128	0	1.9	0.0	1.9	
						ER-WR	24.7	3.6	21.1
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	377	0.0	7.3	-7.3	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1829	0.0	29.7	-29.7	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2185	0.0	38.6	-38.6	
4	400 kV	TALCHER-I/C	D/C	919	167	14.6	0.0	14.6	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	75.6	-75.6
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	435	0.0	4.5	-4.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	572	0.0	5.2	-5.2	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	130	0.0	1.6	-1.6	
						ER-NER	0.0	11.2	-11.2
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	504	0.0	12.1	-12.1	
						NER-NR	0.0	12.1	-12.1

Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1754	0.0	73.2	-73.2
2	HVDC	V'CHAL B/B	D/C	0	247	0.0	4.2	-4.2
3	HVDC	APL -MHG	D/C	0	1919	0.0	43.1	-43.1
4	765 kV	GWALIOR-AGRA	D/C	0	2789	0.0	41.3	-41.3
5	765 kV	PHAGI-GWALIOR	D/C	0	1427	0.0	26.3	-26.3
6	765 kV	JABALPUR-ORAI	D/C	0	1073	0.0	36.0	-36.0
7	765 kV	GWALIOR-ORAI	S/C	414	0	7.3	0.0	7.3
8	765 kV	SATNA-ORAI	S/C	0	1535	0.0	32.0	-32.0
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1060	0.0	10.7	-10.7
10	400 kV	ZERDA-KANKROLI	S/C	68	168	0.0	0.5	-0.5
11	400 kV	ZERDA -BHINMAL	S/C	161	177	0.0	1.1	-1.1
12	400 kV	V'CHAL -RIHAND	S/C	966	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	D/C	0	468	0.0	6.3	-6.3
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.4	-1.4
15	220 kV	BHANPURA-MORAK	S/C	0	124	0.0	1.6	-1.6
16	220 kV	MEHGAON-AURAIYA	S/C	70	16	0.1	0.2	-0.1
17	220 kV	MALANPUR-AURAIYA	S/C	39	45	0.6	0.0	0.6
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>30.4</b>	<b>278.1</b>	<b>-247.7</b>

Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	769	0.0	12.2	-12.2
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
3	HVDC	HVDC-RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0
4	765 kV	SOLAPUR-RAICHUR	D/C	772	1568	0.0	12.4	-12.4
5	765 kV	WARDHA-NIZAMABAD	D/C	0	1819	0.0	22.7	-22.7
6	400 kV	KOLHAPUR-KUDGI	D/C	963	0	13.4	0.0	13.4
7	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	S/C	0	75	1.5	0.0	1.5
<b>WR-SR</b>						<b>14.9</b>	<b>47.3</b>	<b>-32.4</b>

INTERNATIONAL EXCHANGES						
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	DAGACHU ( 2 * 63 )	0	0	0	0.0
	ER	CHUKA ( 4 * 84 ) BIRPARA RECEIPT	288	267	243	5.8
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	759	743	720	17.3
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	1049	1037	1035	24.8
	NER	132KV-SALAKATI - GELEPHU	16	0	40	1.0
	NER	132KV-RANGIA - DEOTHANG	63	0	51	1.2
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-32	0	-14	-0.3
	ER	132KV-BIHAR - NEPAL	-99	-1	-31	-0.7
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-86	-2	-25	-0.6
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-954	-742	-764	-18.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	77	0	-63	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	76	0	-63	-1.5