



**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: 15<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 14.07.2020.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-जुलाई-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 14<sup>th</sup> July 2020, is available at the NLDC website.

धन्यवाद,

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



Report for previous day

Date of Reporting: 15-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)	59265	42528	35654	21306	2658	161411
Peak Shortage (MW)	1005	0	0	0	185	1190
Energy Met (MU)	1374	1012	844	440	49	3718
Hydro Gen (MU)	358	46	83	150	31	668
Wind Gen (MU)	15	39	101	-	-	156
Solar Gen (MU)*	35.40	19.40	56.05	4.70	0.03	116
Energy Shortage (MU)	11.0	0.0	0.0	0.0	0.1	11.0
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63982	43763	39811	20822	2703	161761
Time Of Maximum Demand Met (From NLDC SCADA)	22:10	10:25	09:29	20:56	19:29	20:06

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	0.083	0.39	3.37	21.88	25.65	70.65	3.70

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	10826	0	238.3	150.0	-0.7	121	0.0
	Haryana	9068	243	197.8	157.4	2.2	328	0.2
	Rajasthan	11857	0	254.9	102.5	3.0	410	0.0
	Delhi	5919	0	115.6	100.3	-1.4	105	0.0
	UP	22702	0	443.1	215.7	-2.4	650	0.0
	Uttarakhand	1983	0	43.3	20.5	1.3	169	0.0
	HP	1427	0	29.4	-1.9	-0.3	122	0.0
	J&K(UT) & Ladakh(UT)	2147	537	45.2	20.2	2.0	206	10.8
	Chandigarh	318	0	6.2	6.0	0.2	38	0.0
	Chhattisgarh	3632	0	87.1	29.7	-0.5	216	0.0
WR	Gujiarar	13289	0	288.3	83.9	3.6	788	0.0
	MP	9869	0	219.7	113.4	-0.4	558	0.0
	Maharashtra	17204	0	373.3	138.4	-0.7	711	0.0
	Goa	427	0	8.6	8.1	0.0	60	0.0
	DD	249	0	5.3	5.2	0.1	63	0.0
	DNH	616	0	13.9	13.8	0.1	85	0.0
	AMNSIL	744	0	15.4	3.8	-0.1	249	0.0
SR	Andhra Pradesh	6879	0	151.3	52.6	-1.3	680	0.0
	Telangana	9098	0	180.6	90.4	-1.2	485	0.0
	Karnataka	8880	0	167.6	56.4	-1.4	517	0.0
	Kerala	3171	0	65.3	47.7	0.1	198	0.0
	Tamil Nadu	12533	0	272.3	132.4	-1.6	554	0.0
	Puducherry	348	0	7.5	7.8	-0.3	20	0.0
	DVC	5469	0	106.3	100.0	0.5	424	0.0
ER	Bihar	2754	0	61.3	-46.1	-0.2	179	0.0
	Jharkhand	1282	0	26.6	19.1	-1.3	110	0.0
	Odisha	3945	0	81.9	-0.5	-1.5	309	0.0
	West Bengal	7908	0	162.2	48.6	-0.7	778	0.0
	Sikkim	98	0	1.4	1.4	0.0	16	0.0
NER	Arunachal Pradesh	107	1	1.9	1.7	0.2	38	0.0
	Assam	1679	149	29.7	26.9	-0.7	171	0.0
	Manipur	192	2	2.6	2.3	0.3	58	0.0
	Meghalaya	290	0	5.4	-1.0	0.0	65	0.0
	Mizoram	88	1	1.7	1.2	0.3	13	0.0
	Nagaland	120	2	2.5	2.3	-0.1	35	0.0
	Tripura	292	0	4.7	5.9	-0.1	46	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.7	-2.8	-26.3
Day Peak (MW)	2329.0	-312.5	-1122.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	334.6	-287.5	113.0	-152.2	-7.9	0.0
Actual(MU)	346.2	-289.5	113.9	-167.5	-8.5	-5.4
O/D/U/D(MU)	11.6	-2.0	0.9	-15.3	-0.6	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4328	16884	12182	2445	610	36448
State Sector	10524	21370	14423	5142	47	51506
Total	14852	38254	26605	7587	656	87954

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	535	1069	383	503	7	2497
Lignite	26	13	18	0	0	58
Hydro	358	46	84	150	31	668
Nuclear	26	32	47	0	0	105
Gas, Naptha & Diesel	45	89	19	0	25	177
RES (Wind, Solar, Biomass & Others)	71	66	194	5	0	337
Total	1061	1315	745	658	63	3841
Share of RES in total generation (%)	6.73	5.00	26.10	0.76	0.05	8.76
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.92	10.88	43.63	23.60	49.25	28.89

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.058
Based on State Max Demands	1.097

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.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

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

Date of Reporting: 15-Jul-2020

Sl 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	D/C	0	1501	0.0	27.4	-27.4
2	HVDC	PUSAULI B/B	-	0	398	0.0	9.6	-9.6
3	765 kV	GAYA-VARANASI	D/C	0	920	0.0	14.8	-14.8
4	765 kV	SASARAM-FATEHPUR	S/C	52	185	0.0	1.6	-1.6
5	765 kV	GAYABALLA	S/C	0	505	0.0	4.7	-4.7
6	400 kV	PUSAULI-VARANASI	S/C	0	273	0.0	5.8	-5.8
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	189	0.0	3.5	-3.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	820	0.0	15.8	-15.8
9	400 kV	PATNA-BALLA	Q/C	0	1004	0.0	20.4	-20.4
10	400 kV	BIHARSHARIFF-BALLA	D/C	0	402	0.0	7.3	-7.3
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	343	0.0	6.1	-6.1
12	400 kV	BIHARSHARIFF-VARANASI	D/C	0	242	0.0	3.4	-3.4
13	220 kV	PUSAULI-SAHUPURI	S/C	8	100	0.0	1.8	-1.8
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
<b>ER-NR</b>						<b>0.4</b>	<b>122.4</b>	<b>-122.0</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	587	238	4.5	0.0	4.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	635	216	5.7	0.0	5.7
3	765 kV	JHARSUGUDA-DURG	D/C	12	264	0.0	3.3	-3.3
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	71	291	0.0	2.3	-2.3
5	400 kV	RANCHI-SIPAT	D/C	243	85	2.0	0.0	2.0
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	119	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	D/C	143	0	1.8	0.0	1.8
<b>ER-WR</b>						<b>13.9</b>	<b>7.7</b>	<b>6.3</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	534	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1829	0.0	41.4	-41.4
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2382	0.0	39.0	-39.0
4	400 kV	TALCHER-I/C	D/C	684	178	3.3	0.0	3.3
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>92.8</b>	<b>-92.8</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	479	0.0	4.8	-4.8
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	191	627	0.0	4.1	-4.1
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	155	0.0	1.8	-1.8
<b>ER-NER</b>						<b>0.0</b>	<b>10.7</b>	<b>-10.7</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	D/C	0	1106	0.0	22.0	-22.0
<b>NER-NR</b>						<b>0.0</b>	<b>22.0</b>	<b>-22.0</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2003	0.0	58.0	-58.0
2	HVDC	VINDHYACHAL B/B	-	453	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	D/C	0	1917	0.0	40.2	-40.2
4	765 kV	GWALIOR-AGRA	D/C	0	2590	0.0	44.5	-44.5
5	765 kV	PHAGI-GWALIOR	D/C	0	1357	0.0	23.8	-23.8
6	765 kV	JABALPUR-ORAI	D/C	0	1003	0.0	35.3	-35.3
7	765 kV	GWALIOR-ORAI	S/C	438	0	8.7	0.0	8.7
8	765 kV	SAJNA-ORAI	S/C	0	1540	0.0	31.7	-31.7
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1244	0.0	14.1	-14.1
10	400 kV	ZERDA-KANKROLI	S/C	50	190	0.0	1.5	-1.5
11	400 kV	ZERDA-BHINMAL	S/C	124	302	0.0	2.1	-2.1
12	400 kV	VINDHYACHAL -RIHAND	S/C	977	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUJALPUR	D/C	142	495	0.0	5.8	-5.8
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.6	-1.6
15	220 kV	BHANPURA-MORAK	S/C	0	121	0.0	1.7	-1.7
16	220 kV	MEHGAON-AURAIYA	S/C	130	0	1.0	0.0	1.0
17	220 kV	MALANPUR-AURAIYA	S/C	89	0	1.9	0.0	1.9
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
19	132 kV	RAIGHAT-LALITPUR	D/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>46.3</b>	<b>260.5</b>	<b>-214.2</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	999	0.0	17.9	-17.9
2	HVDC	RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	D/C	75	2021	0.0	25.4	-25.4
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2257	0.0	32.7	-32.7
5	400 kV	KOLHAPUR-KUDGI	D/C	699	25	6.8	0.0	6.8
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	S/C	0	75	1.4	0.0	1.4
<b>WR-SR</b>						<b>8.2</b>	<b>76.0</b>	<b>-67.8</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	359	337	323	7.8
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	781	778	773	18.6
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	1064	1059	1037	24.9
	NER	132KV-SALAKATI - GELEPHU	57	0	51	1.2
NEPAL	NER	132KV-RANGIA - DEOTHANG	68	0	55	1.3
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-57	0	-24	-0.6
	ER	132KV-BIHAR - NEPAL	-76	-15	-19	-0.5
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-180	-4	-72	-1.7
	ER	Bheramara HVDC(Bangladesh)	-961	-560	-957	-23.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	80	0	-69	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	81	0	-69	-1.7