



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: 09<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., डोंगतेह, 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 08.07.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 08<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: 09-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)	54375	41238	36068	21085	2610	155376
Peak Shortage (MW)	628	0	0	0	163	791
Energy Met (MU)	1257	967	868	453	51	3596
Hydro Gen (MU)	368	34	86	149	27	664
Wind Gen (MU)	12	95	112	-	-	219
Solar Gen (MU)*	33.88	20.50	68.48	4.75	0.02	128
Energy Shortage (MU)	10.2	0.0	0.0	0.0	1.3	11.5
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58570	41328	40557	21493	2753	156394
Time Of Maximum Demand Met (From NLDC SCADA)	22:24	11:06	10:17	19:41	20:01	19:58

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	0.041	0.00	0.57	9.14	9.71	76.89	13.40

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	10377	0	232.4	140.2	-2.5	156	0.0
	Haryana	8181	0	177.5	144.8	0.3	222	0.0
	Rajasthan	11609	0	242.0	91.7	-1.3	428	0.0
	Delhi	4890	0	98.9	85.0	-0.9	150	0.0
	UP	20919	0	396.2	190.0	1.8	645	0.2
	Uttarakhand	1800	0	37.9	16.2	-0.5	113	0.0
	HP	1266	46	26.2	-3.8	-1.7	26	0.4
	J&K(UT) & Ladakh(UT)	2123	531	40.7	16.3	1.4	310	9.7
	Chandigarh	259	0	5.4	5.8	-0.5	3	0.0
	Chhattisgarh	4097	0	95.3	33.5	-1.0	287	0.0
WR	Gujarat	12078	0	262.4	76.4	4.2	618	0.0
	MP	9049	0	198.8	134.6	-1.5	616	0.0
	Maharashtra	16807	0	365.6	138.6	1.1	567	0.0
	Goa	435	0	9.0	8.7	-0.2	37	0.0
	DD	247	0	5.2	5.2	0.0	35	0.0
	DNH	594	0	13.3	13.3	0.0	79	0.0
	AMNSIL	841	0	17.6	6.8	-0.2	202	0.0
	Andhra Pradesh	8500	0	167.4	54.4	2.2	1650	0.0
	Telangana	8812	0	174.5	78.8	2.1	888	0.0
	Karnataka	9019	0	165.8	50.3	0.2	509	0.0
SR	Kerala	3079	0	63.0	47.4	0.0	160	0.0
	Tamil Nadu	13014	0	289.6	111.0	2.1	624	0.0
	Puducherry	342	0	7.2	7.5	-0.4	42	0.0
	Bihar	5405	0	110.7	105.1	-0.3	353	0.0
	DVC	3398	0	63.8	-31.5	0.2	531	0.0
	Jharkhand	1363	0	26.4	19.7	-1.8	175	0.0
	Odisha	3955	0	84.3	10.4	-0.6	289	0.0
	West Bengal	7599	0	166.8	50.2	0.9	372	0.0
	Sikkim	90	0	1.3	1.5	-0.2	12	0.0
	Arunachal Pradesh	124	2	1.9	1.8	0.2	69	0.0
ER	Assam	1687	35	31.7	28.7	0.8	177	1.3
	Manipur	175	1	2.6	2.4	0.2	98	0.0
	Meghalaya	320	1	5.9	-0.8	0.1	45	0.0
	Mizoram	101	2	1.6	1.3	0.1	30	0.0
	Nagaland	123	1	2.4	2.6	-0.3	31	0.0
	Tripura	300	8	5.1	5.9	0.4	84	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.5	-1.6	-26.0
Day Peak (MW)	2336.0	-291.8	-1120.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	282.8	-290.1	112.5	-99.4	-5.9	0.0
Actual(MU)	276.4	-297.6	129.4	-102.8	-2.7	2.8
O/D/U/D(MU)	-6.4	-7.5	16.9	-3.4	3.2	2.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5787	16038	13052	2170	330	37376
State Sector	9119	26639	13463	4842	47	54110
Total	14906	42677	26515	7012	376	91486

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	501	984	357	448	9	2299
Lignite	27	11	19	0	0	56
Hydro	368	34	86	149	27	664
Nuclear	26	32	43	0	0	101
Gas, Naptha & Diesel	22	71	19	0	24	136
RES (Wind, Solar, Biomass & Others)	65	138	223	5	0	431
Total	1009	1269	748	602	60	3687

Share of RES in total generation (%)	6.46	10.87	29.83	0.80	0.03	11.69
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.53	16.03	47.14	25.50	45.31	32.43

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.053
Based on State Max Demands	1.106

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: 09-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	1402	0.0	35.3	-35.3	
2	HVDC	PUSAULI B/B	-	0	399	0.0	9.5	-9.5	
3	765 kV	GAYA-VARANASI	D/C	0	535	0.0	7.3	-7.3	
4	765 kV	SASARAM-FATEHPUR	S/C	273	10	3.8	0.0	3.8	
5	765 kV	GAYA-BALIA	S/C	0	413	0.0	3.4	-3.4	
6	400 kV	PUSAULI-VARANASI	S/C	0	292	0.0	6.4	-6.4	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	153	0.0	3.7	-3.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	697	0.0	12.0	-12.0	
9	400 kV	PATNA-BALIA	Q/C	0	876	0.0	9.2	-9.2	
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	297	0.0	4.7	-4.7	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	332	0.0	4.0	-4.0	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	121	98	0.1	0.0	0.1	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	110	0.0	1.9	-1.9	
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	0.3	0.0	0.3	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDALI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	4.2	97.4	-93.1
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1280	0	22.7	0.0	22.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	928	0	14.6	0.0	14.6	
3	765 kV	JHARSUGUDA-DURG	D/C	122	72	1.1	0.0	1.1	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	59	282	0.0	1.2	-1.2	
5	400 kV	RANCHI-SIPAT	D/C	306	0	5.2	0.0	5.2	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	107	0.0	1.3	-1.3	
7	220 kV	BUDHIPADAR-KORBA	D/C	173	0	3.0	0.0	3.0	
						ER-WR	46.6	2.5	44.0
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZIWAKA B/B	D/C	0	570	0.0	12.2	-12.2	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1833	0.0	38.1	-38.1	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2625	0.0	47.0	-47.0	
4	400 kV	TALCHER-I/C	D/C	424	170	6.6	0.0	6.6	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	97.3	-97.3
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	411	0.0	4.6	-4.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	125	383	0.0	1.9	-1.9	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	107	0.0	1.4	-1.4	
						ER-NER	0.0	7.9	-7.9
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	D/C	0	604	0.0	13.2	-13.2	
						NER-NR	0.0	13.2	-13.2
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1001	0.0	35.6	-35.6	
2	HVDC	VINDHYACHAL B/B	-	0	101	0.0	2.4	-2.4	
3	HVDC	MUNDRA-MOHINDERGARH	D/C	0	1915	0.0	29.9	-29.9	
4	765 kV	GWALIOR-AGRA	D/C	0	2180	0.0	39.5	-39.5	
5	765 kV	PHAGI-GWALIOR	D/C	0	1183	0.0	18.7	-18.7	
6	765 kV	JABALPUR-ORAI	D/C	0	882	0.0	31.5	-31.5	
7	765 kV	GWALIOR-ORAI	S/C	411	0	9.8	0.0	9.8	
8	765 kV	SATNA-ORAI	S/C	0	1365	0.0	28.7	-28.7	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	0	1023	0.0	10.5	-10.5	
10	400 kV	ZERDA-KANKROLI	S/C	61	141	0.0	1.5	-1.5	
11	400 kV	ZERDA-BHINMAL	S/C	122	199	0.0	2.4	-2.4	
12	400 kV	VINDHYACHAL -RIHAND	S/C	963	0	22.3	0.0	22.3	
13	400 kV	RAPP-SHUJALPUR	D/C	79	283	0.1	2.8	-2.7	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.2	-1.2	
15	220 kV	BHANPURA-MORAK	S/C	0	100	0.0	1.5	-1.5	
16	220 kV	MEHGAON-AURAIYA	S/C	98	1	0.2	0.1	0.1	
17	220 kV	MALANPUR-AURAIYA	S/C	66	23	0.8	0.0	0.8	
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	
						WR-NR	33.3	206.3	-173.0
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	999	0.0	14.2	-14.2	
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	0	2580	0.0	33.4	-33.4	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2519	0.0	37.2	-37.2	
6	400 kV	KOLHAPUR-KUDGI	D/C	716	155	5.7	0.3	5.4	
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	81	1.4	0.0	1.4	
						WR-SR	7.2	85.0	-77.9

**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	365	347	328	7.9
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	780	777	771	18.5
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	1064	1055	1061	25.5
	NER	132KV-SALAKATI - GELEPHU	55	0	50	1.2
	NER	132KV-RANGIA - DEOTHANG	68	0	59	1.4
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-29	0	-12	-0.3
	ER	132KV-BIHAR - NEPAL	-89	-1	-16	-0.4
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-174	-4	-36	-0.9
BANGLADESH	ER	Bheramara HVDC (Bangladesh)	-954	-944	-948	-22.7
	NER	132KV-SURAJMANI NAGAR - COMILLA (BANGLADESH)-1	83	0	-68	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA (BANGLADESH)-2	83	0	-68	-1.6