



**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: 14<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 13.07.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 13-जुलाई-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 13<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: 14-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)	55728	41697	35865	20692	2675	156657
Peak Shortage (MW)	1537	0	0	0	153	1690
Energy Met (MU)	1250	997	837	438	47	3569
Hydro Gen (MU)	358	33	75	148	32	646
Wind Gen (MU)	17	53	104	-	-	174
Solar Gen (MU)*	40.35	21.86	66.15	4.71	0.03	133
Energy Shortage (MU)	12.8	0.1	0.0	0.0	4.1	16.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61182	43692	39516	21081	2679	159783
Time Of Maximum Demand Met (From NLDC SCADA)	22:10	10:05	11:38	21:27	20:02	21:12

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	0.071	0.10	4.15	14.36	18.62	75.86	5.52

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	9785	0	188.7	128.0	-2.5	66	0.0
	Haryana	8514	50	169.0	136.8	1.4	273	0.0
	Rajasthan	11377	0	242.2	94.3	-1.2	457	0.0
	Delhi	5414	0	97.8	89.9	-2.2	240	0.0
	UP	21762	440	433.7	210.2	1.4	578	2.2
	Uttarakhand	1865	0	40.7	17.6	0.8	149	0.0
	HP	1357	0	28.0	-4.1	-0.2	174	0.0
	J&K(UT) & Ladakh(UT)	2190	547	44.4	20.2	1.2	252	10.6
	Chandigarh	279	0	5.4	5.6	-0.3	32	0.0
	Chhattisgarh	3802	0	91.4	29.0	0.9	434	0.0
WR	Gujarat	12880	0	272.2	92.8	6.0	1074	0.0
	MP	9599	0	215.9	115.8	-0.7	525	0.0
	Maharashtra	17281	0	375.9	140.8	0.0	416	0.0
	Goa	414	0	8.3	7.9	-0.1	50	0.1
	DD	241	0	5.0	4.9	0.1	24	0.0
	DNH	611	0	13.4	13.6	-0.1	47	0.0
	AMNSIL	757	0	15.2	4.1	0.3	274	0.0
SR	Andhra Pradesh	7301	0	153.0	55.1	1.3	1027	0.0
	Telangana	9116	0	182.1	93.7	-1.0	600	0.0
	Karnataka	9006	0	169.2	60.0	-0.4	435	0.0
	Kerala	3068	0	64.0	50.1	0.2	216	0.0
	Tamil Nadu	12304	0	261.3	123.3	-2.2	506	0.0
	Puducherry	360	0	7.8	8.1	-0.3	26	0.0
	DVC	5547	0	98.8	94.7	-1.7	538	0.0
ER	Bihar	2753	0	60.9	-36.5	-0.9	318	0.0
	Jharkhand	1290	0	25.9	18.3	-1.1	165	0.0
	Odisha	4446	0	92.7	7.6	-0.6	254	0.0
	West Bengal	7634	0	158.6	47.5	2.4	341	0.0
	Sikkim	85	0	1.2	1.2	-0.1	18	0.0
NER	Arunachal Pradesh	101	1	1.9	1.9	0.1	35	0.0
	Assam	1678	130	28.1	23.1	0.2	154	4.0
	Manipur	181	2	2.5	2.4	0.1	50	0.0
	Meghalaya	309	0	5.4	-0.7	-0.1	74	0.0
	Mizoram	92	0	1.8	1.3	0.2	20	0.0
	Nagaland	126	2	2.3	2.3	-0.1	30	0.0
	Tripura	292	4	4.4	5.8	-0.2	66	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.4	-2.2	-26.4
Day Peak (MW)	2303.0	-313.7	-1128.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	277.6	-258.4	121.2	-128.6	-11.9	0.0
Actual(MU)	267.0	-247.1	127.8	-137.9	-13.2	-3.4
O/D/U/D(MU)	-10.6	11.2	6.6	-9.4	-1.4	-3.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4686	17184	11522	1920	610	35922
State Sector	12239	23515	14423	5742	47	55966
Total	16925	40699	25945	7662	656	91887

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	486	1006	351	467	7	2318
Lignite	27	12	18	0	0	57
Hydro	358	33	75	148	32	646
Nuclear	26	32	47	0	0	106
Gas, Naptha & Diesel	36	87	18	0	26	167
RES (Wind, Solar, Biomass & Others)	77	88	212	5	0	382
Total	1012	1258	722	619	65	3676
Share of RES in total generation (%)	7.65	6.99	29.30	0.76	0.05	10.38
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	45.66	12.16	46.30	24.66	48.52	30.83

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.052
Based on State Max Demands	1.088

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: 14-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	1202	0.0	29.5	-29.5	
2	HVDC	PUSAULI B/B	-	0	398	0.0	9.9	-9.9	
3	765 kV	GAYA-VARANASI	D/C	0	894	0.0	11.6	-11.6	
4	765 kV	SASARAM-FATEHPUR	S/C	180	187	0.3	0.0	0.3	
5	765 kV	GAYABALLA	S/C	0	503	0.0	3.7	-3.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	289	0.0	6.2	-6.2	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	181	0.0	3.5	-3.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	933	0.0	17.4	-17.4	
9	400 kV	PATNA-BALLA	Q/C	0	1037	0.0	16.5	-16.5	
10	400 kV	BIHARSHARIFF-BALLA	D/C	0	457	0.0	7.9	-7.9	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	352	0.0	5.1	-5.1	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	0	286	0.0	3.5	-3.5	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	104	0.0	2.1	-2.1	
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-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	0.6	116.8	-116.2
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1193	59	14.3	0.0	14.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	820	75	7.8	0.0	7.8	
3	765 kV	JHARSUGUDA-DURG	D/C	73	165	0.0	1.4	-1.4	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	141	188	0.0	0.6	-0.6	
5	400 kV	RANCHI-SIPAT	D/C	313	17	3.4	0.0	3.4	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	0	137	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	D/C	109	2	1.6	0.0	1.6	
						ER-WR	27.1	4.2	23.0
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	537	0.0	12.5	-12.5	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1828	0.0	42.2	-42.2	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2605	0.0	42.8	-42.8	
4	400 kV	TALCHER-I/C	D/C	687	199	2.2	0.0	2.2	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	97.5	-97.5
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	84	319	0.0	0.9	-0.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	297	315	2.4	0.0	2.4	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	17	110	0.0	0.6	-0.6	
						ER-NER	2.4	1.4	0.9
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	D/C	0	604	0.0	14.6	-14.6	
						NER-NR	0.0	14.6	-14.6
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	150	0.0	30.5	-30.5	
2	HVDC	VINDHYACHAL B/B	-	453	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	D/C	0	1917	0.0	25.0	-25.0	
4	765 kV	GWALIOR-AGRA	D/C	0	2492	0.0	39.5	-39.5	
5	765 kV	PHAGI-GWALIOR	D/C	0	1342	0.0	21.3	-21.3	
6	765 kV	JABALPUR-ORAI	S/C	0	980	0.0	30.5	-30.5	
7	765 kV	GWALIOR-ORAI	S/C	428	0	8.8	0.0	8.8	
8	765 kV	SAJNA-ORAI	S/C	0	1466	0.0	29.4	-29.4	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	266	1012	0.5	9.5	-8.9	
10	400 kV	ZERDA-KANKROLI	S/C	127	266	0.0	0.7	-0.7	
11	400 kV	ZERDA-BHINMAL	S/C	327	410	0.0	0.6	-0.6	
12	400 kV	VINDHYACHAL -RIHAND	S/C	967	0	23.0	0.0	23.0	
13	400 kV	RAPP-SHUALPUR	D/C	45	465	0.0	2.1	-2.1	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.7	-1.7	
15	220 kV	BHANPURA-MORAK	S/C	0	111	0.0	1.8	-1.8	
16	220 kV	MEHGAON-AURAIYA	S/C	124	0	0.8	0.0	0.8	
17	220 kV	MALANPUR-AURAIYA	S/C	88	0	1.7	0.0	1.7	
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	
						WR-NR	46.9	192.5	-145.6
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	985	0.0	17.5	-17.5	
2	HVDC	RAIGARH-PUGALUR	D/C	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2320	0.0	27.1	-27.1	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2792	0.0	38.5	-38.5	
5	400 kV	KOLHAPUR-KUDGI	D/C	539	83	6.1	0.0	6.1	
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	84	1.4	0.0	1.4	
						WR-SR	7.6	83.0	-75.5

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	349	336	321	7.7
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	782	777	767	18.4
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	1063	1059	1039	24.9
	NER	132KV-SALAKATI - GELEPHU	51	0	48	1.2
NEPAL	NER	132KV-RANGIA - DEOTHANG	58	0	51	1.2
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-52	0	-25	-0.6
	ER	132KV-BIHAR - NEPAL	-74	0	-4	-0.1
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-188	-8	-61	-1.5
	ER	Bheramara HVDC(Bangladesh)	-964	-960	-962	-23.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	82	0	-68	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	82	0	-68	-1.6