



**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: 13<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 12.07.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-जुलाई-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट राभाप्रेके 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 12<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: 13-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)	48437	39388	32179	19787	2427	142218
Peak Shortage (MW)	448	0	0	0	247	695
Energy Met (MU)	1112	958	775	430	44	3318
Hydro Gen (MU)	351	21	56	135	31	593
Wind Gen (MU)	50	108	104	-	-	263
Solar Gen (MU)*	35.05	19.70	72.37	4.85	0.02	132
Energy Shortage (MU)	9.0	0.0	0.0	0.0	4.1	13.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59116	39887	35689	19966	2525	152201
Time Of Maximum Demand Met (From NLDC SCADA)	00:00	08:28	09:52	22:19	19:49	00:00

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	0.085	0.00	0.05	4.15	4.20	61.96	33.84

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	6726	0	125.6	109.6	-36.8	99	0.0
	Haryana	8928	0	142.7	114.3	-4.1	279	0.0
	Rajasthan	11719	0	252.0	78.5	-2.0	664	0.0
	Delhi	5427	0	96.3	82.6	-2.7	188	0.0
	UP	21342	0	393.9	197.8	-0.9	380	0.0
	Uttarakhand	1704	0	34.8	13.5	-0.9	216	0.0
	HP	1124	0	23.8	-6.1	-2.2	57	0.0
	J&K(UT) & Ladakh(UT)	2043	511	38.6	14.4	1.2	266	9.0
WR	Chhattisgarh	240	0	4.4	5.1	-0.7	47	0.0
	Chhattisgarh	3833	0	91.3	29.4	0.4	314	0.0
	Gujarat	11095	0	254.1	70.9	1.1	526	0.0
	MP	9291	0	205.5	109.7	-3.3	320	0.0
	Maharashtra	16386	0	364.4	138.7	0.7	928	0.0
	Goa	367	0	7.5	7.4	-0.4	37	0.0
	DD	212	0	4.8	4.5	0.3	31	0.0
	AMNSIL	581	0	13.4	13.5	-0.1	91	0.0
SR	Andhra Pradesh	797	0	16.7	6.0	-0.2	299	0.0
	Telangana	7090	0	149.7	54.1	1.4	462	0.0
	Karnataka	8909	0	174.6	102.7	1.8	696	0.0
	Karnataka	7932	0	152.1	47.9	0.6	825	0.0
	Kerala	2953	0	59.2	46.3	0.7	167	0.0
	Tamil Nadu	10256	0	232.4	101.6	-4.5	309	0.0
ER	Puducherry	353	0	6.9	7.2	-0.3	26	0.0
	Bihar	5303	0	104.2	99.0	-0.4	291	0.0
	DVC	2830	0	62.4	-28.9	1.5	334	0.0
	Jharkhand	1311	0	25.5	20.0	-2.7	119	0.0
	Odisha	4165	0	87.7	15.0	-0.2	339	0.0
	West Bengal	6992	0	149.2	46.7	3.7	451	0.0
NER	Sikkim	68	0	0.8	1.1	-0.3	14	0.0
	Arunachal Pradesh	115	0	2.1	1.9	0.2	21	0.0
	Assam	1528	177	26.0	22.2	-0.2	121	4.0
	Manipur	177	1	2.5	2.4	0.1	35	0.0
	Meghalaya	298	0	5.2	-0.8	-0.6	33	0.0
	Mizoram	95	0	1.7	1.4	0.1	17	0.0
NER	Nagaland	124	0	2.3	2.4	-0.1	11	0.0
	Tripura	253	2	4.2	5.3	-0.3	35	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.1	-2.4	-26.1
Day Peak (MW)	2309.0	-302.9	-1114.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	214.5	-237.2	121.9	-88.4	-10.8	0.0
Actual(MU)	160.5	-202.3	135.0	-72.1	-13.0	8.2
O/D/U/D(MU)	-54.0	34.9	13.1	16.3	-2.2	8.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4686	16369	11522	2190	546	35313
State Sector	13049	24250	14633	5742	47	57721
Total	17735	40619	26155	7932	593	93033

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	435	890	289	393	6	2014
Lignite	28	11	13	0	0	52
Hydro	351	21	56	134	31	593
Nuclear	27	35	47	0	0	109
Gas, Naptha & Diesel	38	69	18	0	25	150
RES (Wind, Solar, Biomass & Others)	106	154	226	5	0	491
Total	984	1181	649	533	62	3409

Share of RES in total generation (%)	10.81	13.04	34.75	0.91	0.03	14.40
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	49.18	17.80	50.61	26.15	49.37	34.99

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.068

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: 13-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	1201	0.0	29.7	-29.7	
2	HVDC	PUSAULI B/B	-	0	399	0.0	9.6	-9.6	
3	765 kV	GAYA-VARANASI	D/C	334	474	0.0	1.9	-1.9	
4	765 kV	SASARAM-FATEHPUR	S/C	310	0	4.6	0.0	4.6	
5	765 kV	GAYA-BALIA	S/C	89	400	0.0	2.4	-2.4	
6	400 kV	PUSAULI-VARANASI	S/C	0	313	0.0	6.9	-6.9	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	146	0.0	2.8	-2.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	627	0.0	9.9	-9.9	
9	400 kV	PATNA-BALIA	Q/C	0	812	0.0	8.7	-8.7	
10	400 kV	BIHARSHARIF-BALIA	D/C	0	295	0.0	3.9	-3.9	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	321	0.0	3.7	-3.7	
12	400 kV	BIHARSHARIF-VARANASI	D/C	171	109	0.9	0.0	0.9	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	100	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	5.9	81.2	-75.3
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1911	0	32.0	0.0	32.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1119	0	16.0	0.0	16.0	
3	765 kV	JHARSUGUDA-DURG	D/C	189	0	2.6	0.0	2.6	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	214	24	1.8	0.0	1.8	
5	400 kV	RANCHI-SIPAT	D/C	389	0	5.1	0.0	5.1	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	15	100	0.0	1.1	-1.1	
7	220 kV	BUDHIPADAR-KORBA	D/C	191	0	3.2	0.0	3.2	
						ER-WR	60.6	1.1	59.5
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	535	0.0	12.3	-12.3	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	1853	0.0	41.8	-41.8	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2290	0.0	40.3	-40.3	
4	400 kV	TALCHER-I/C	D/C	397	1024	0.0	11.4	-11.4	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	94.5	-94.5
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	65	269	0.0	1.1	-1.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	274	241	2.3	0.0	2.3	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	18	96	0.0	0.6	-0.6	
						ER-NER	2.3	1.6	0.7
<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	502	0.0	17.8	-17.8	
2	HVDC	VINDHYACHAL B/B	-	453	0	9.4	0.0	9.4	
3	HVDC	MUNDRU-MOHINDERGARH	D/C	0	1171	0.0	24.7	-24.7	
4	765 kV	GWALIOR-AGRA	D/C	467	2399	0.0	24.4	-24.4	
5	765 kV	PHAGI-GWALIOR	D/C	335	1035	0.0	6.4	-6.4	
6	765 kV	JABALPUR-ORAI	D/C	189	961	0.0	18.4	-18.4	
7	765 kV	GWALIOR-ORAI	S/C	353	0	5.5	0.0	5.5	
8	765 kV	SATNA-ORAI	S/C	0	1432	0.0	23.1	-23.1	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	377	1195	0.0	7.0	-7.0	
10	400 kV	ZERDA-KANKROLI	S/C	198	141	1.1	0.0	1.1	
11	400 kV	ZERDA -BHINMAL	S/C	415	0	4.9	0.0	4.9	
12	400 kV	VINDHYACHAL -RIHAND	S/C	965	0	20.1	0.0	20.1	
13	400 kV	RAPP-SHUJALPUR	D/C	392	257	2.4	0.0	2.4	
14	220 kV	BHANPURA-RANPUR	S/C	11	0	0.0	1.3	-1.3	
15	220 kV	BHANPURA-MORAK	S/C	0	113	0.0	0.5	-0.5	
16	220 kV	MEHGAON-AURAIYA	S/C	131	0	1.6	0.0	1.6	
17	220 kV	MALANPUR-AURAIYA	S/C	95	7	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	45.8	123.6	-77.9
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	995	0.0	16.6	-16.6	
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	390	1992	0.3	24.0	-23.7	
5	765 kV	WARDHA-NIZAMABAD	D/C	0	2608	0.0	40.5	-40.5	
6	400 kV	KOLHAPUR-KUDGI	D/C	769	6	8.8	0.0	8.8	
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	69	1.2	0.0	1.2	
						WR-SR	10.3	81.0	-70.8

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 ) BIRPANA RECEIPT	351	337	321	7.7
	ER	MANGDECHHU ( 4 x 180 ) ALIPURDUAR RECEIPT	781	770	763	18.3
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	1061	1049	1067	25.6
	NER	132KV-SALAKATI - GELEPHU	52	0	49	1.2
NEPAL	NER	132KV-RANGIA - DEOTHANG	63	0	53	1.3
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	-61	0	-25	-0.6
	ER	132KV-BIHAR - NEPAL	-58	-4	-19	-0.4
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-184	-4	-55	-1.3
	ER	Bheramara HVDC(Bangladesh)	-964	-958	-963	-23.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	75	0	-63	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	75	0	-63	-1.5