



**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: 21<sup>th</sup> Aug 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 20.08.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-अगस्त-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 20<sup>th</sup> August 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: 21-Aug-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)	51075	41042	37123	19186	2758	151184
Peak Shortage (MW)	0	0	0	0	9	9
Energy Met (MU)	1110	929	851	397	52	3339
Hydro Gen (MU)	322	38	136	138	25	659
Wind Gen (MU)	18	92	160	-	-	270
Solar Gen (MU)*	27.88	13.70	55.15	4.23	0.05	101
Energy Shortage (MU)	0.7	0.0	0.0	0.0	0.0	0.7
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52046	41219	39696	20256	2792	150346
Time Of Maximum Demand Met (From NLDC SCADA)	20:03	09:52	09:42	00:00	20:03	19:42

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	0.036	0.00	0.38	8.81	9.19	81.08	9.73

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	8452	0	193.5	132.6	-1.9	36	0.0
	Haryana	7013	0	141.1	138.4	-1.4	235	0.0
	Rajasthan	9444	0	208.1	75.8	0.7	455	0.0
	Delhi	4105	0	87.9	78.5	-2.6	73	0.0
	UP	19029	0	368.1	182.8	-2.5	469	0.0
	Uttarakhand	1726	0	36.9	21.5	0.8	280	0.6
	HP	1330	0	29.3	-5.3	-0.7	65	0.0
	J&K(UT) & Ladakh(UT)	2086	0	39.6	18.0	1.8	500	0.0
WR	Chhattisgarh	258	0	5.0	5.4	-0.4	6	0.0
	Chhattisgarh	3507	0	83.1	26.0	0.1	362	0.0
	Gujarat	12204	0	263.2	87.7	0.1	522	0.0
	MP	8164	0	183.5	123.0	-2.3	336	0.0
	Maharashtra	16767	0	351.4	131.2	-1.4	474	0.0
	Goa	405	0	8.7	8.2	-0.1	46	0.0
	DD	284	0	6.2	5.9	0.3	38	0.0
	DNH	695	0	15.8	15.7	0.1	41	0.0
SR	AMNSIL	771	0	17.2	1.5	0.2	224	0.0
	Andhra Pradesh	7946	0	163.3	36.3	0.0	416	0.0
	Telangana	6821	0	144.4	70.6	0.5	676	0.0
	Karnataka	8395	0	158.4	54.3	-0.7	700	0.0
	Kerala	3188	0	66.4	45.2	-0.2	208	0.0
	Tamil Nadu	14002	0	310.8	122.4	-1.9	476	0.0
	Puducherry	376	0	8.0	8.1	-0.2	39	0.0
	ER	Bihar	5645	0	93.2	91.7	-3.7	422
DVC		2774	0	60.4	-31.1	-0.3	235	0.0
Jharkhand		1233	0	21.6	16.8	-2.8	130	0.0
Odisha		4356	0	85.2	13.6	-1.3	271	0.0
West Bengal		7040	0	135.8	47.8	-0.5	310	0.0
Sikkim		74	0	0.8	1.2	-0.3	10	0.0
NER	Arunachal Pradesh	93	3	1.6	1.8	-0.1	39	0.0
	Assam	1878	12	33.5	29.9	-0.2	140	0.0
	Manipur	181	2	2.8	2.4	0.4	36	0.0
	Meghalaya	306	1	5.4	-0.1	-0.2	25	0.0
	Mizoram	91	1	1.6	1.2	0.1	24	0.0
	Nagaland	127	2	2.3	2.5	-0.3	8	0.0
	Tripura	261	5	4.5	6.0	-0.3	18	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	53.8	-2.6	-25.5
Day Peak (MW)	2289.0	-274.0	-1093.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	274.6	-267.7	83.6	-91.6	1.1	0.0
Actual(MU)	259.4	-255.4	96.4	-98.3	0.8	2.9
O/D/U/D(MU)	-15.2	12.3	12.8	-6.7	-0.4	2.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5839	16258	11162	2865	610	36734
State Sector	14084	25113	15142	5372	47	59758
Total	19923	41371	26304	8237	656	96491

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	410	956	310	396	7	2078
Lignite	24	13	21	0	0	57
Hvdro	322	38	136	138	25	659
Nuclear	21	32	48	0	0	101
Gas, Naptha & Diesel	34	57	15	0	25	130
RES (Wind, Solar, Biomass & Others)	66	110	243	4	0	423
Total	877	1205	772	538	57	3448
Share of RES in total generation (%)	7.52	9.14	31.50	0.78	0.09	12.28
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.72	14.92	55.23	26.45	44.27	34.31

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.038
Based on State Max Demands	1.071

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: 21-Aug-2020

Sl No	Voltage Level	Line Details	No. of 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	2	0	1001	0.0	19.2	-19.2	
2	HVDC	PUSAULI B/B	-	0	198	0.0	4.8	-4.8	
3	765 kV	GAYA-VARANASI	2	0	537	0.0	7.3	-7.3	
4	765 kV	SASARAM-FATEHPUR	1	272	76	1.7	0.0	1.7	
5	765 kV	GAYA-BALIA	1	0	458	0.0	7.3	-7.3	
6	400 kV	PUSAULI-VARANASI	1	0	204	0.0	3.9	-3.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	64	0.0	0.7	-0.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	673	0.0	13.6	-13.6	
9	400 kV	PATNA-BALIA	4	0	843	0.0	13.7	-13.7	
10	400 kV	BIHARSHARIFF-BALIA	2	0	309	0.0	4.8	-4.8	
11	400 kV	MOTHARI-GORAKHPUR	2	0	329	0.0	5.2	-5.2	
12	400 kV	BIHARSHARIFF-VARANASI	2	104	124	0.0	0.7	-0.7	
13	220 kV	PUSAULI-SAHUPURI	1	0	125	0.0	2.3	-2.3	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	30	0	0.3	0.0	0.3	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	2.0	83.7	-81.7
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1102	0	17.3	0.0	17.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1460	0	18.7	0.0	18.7	
3	765 kV	JHARSUGUDA-DURG	2	105	144	0.0	0.2	-0.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	193	139	0.7	0.0	0.7	
5	400 kV	RANCHI-SIPAT	2	481	0	6.7	0.0	6.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	130	0.0	1.6	-1.6	
7	220 kV	BUDHIPADAR-KORBA	2	127	0	1.7	0.0	1.7	
						ER-WR	45.1	1.7	43.4
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	327	0.0	5.1	-5.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1891	0.0	36.8	-36.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2566	0.0	44.7	-44.7	
4	400 kV	TALCHER-I/C	2	529	634	1.1	0.0	1.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	86.6	-86.6
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAOON	2	27	399	0.0	4.5	-4.5	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	0	496	0.0	7.0	-7.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	127	0.0	2.0	-2.0	
						ER-NER	0.0	13.5	-13.5
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	603	0.0	15.1	-15.1	
						NER-NR	0.0	15.1	-15.1
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	667	0.0	19.6	-19.6	
2	HVDC	VINDHYACHAL B/B	-	135	256	0.5	2.8	-2.4	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1738	0.0	29.1	-29.1	
4	765 kV	GWALIOR-AGRA	2	0	2580	0.0	39.7	-39.7	
5	765 kV	PHAGI-GWALIOR	2	0	1376	0.0	25.8	-25.8	
6	765 kV	JABALPUR-ORAI	2	0	1015	0.0	33.9	-33.9	
7	765 kV	GWALIOR-ORAI	1	424	0	8.9	0.0	8.9	
8	765 kV	SATNA-ORAI	1	0	1477	0.0	29.4	-29.4	
9	765 kV	CHITORGARH-BANASKANTHA	2	284	762	0.0	6.9	-6.9	
10	400 kV	ZERDA-KANKROLI	1	119	140	0.0	0.3	-0.3	
11	400 kV	ZERDA-BHINMAL	1	198	239	0.0	0.4	-0.4	
12	400 kV	VINDHYACHAL-RIHAND	1	960	0	20.7	0.0	20.7	
13	400 kV	RAPP-SHIVAJIPUR	2	0	508	0.0	6.6	-6.6	
14	220 kV	BHANPUR-RAJNIPUR	1	11	0	0.0	1.2	-1.2	
15	220 kV	BHANPUR-MORAK	1	0	91	0.0	1.4	-1.4	
16	220 kV	MEHGON-AURAIYA	1	88	4	0.3	0.2	0.1	
17	220 kV	MALANPUR-AURAIYA	1	56	36	0.8	0.0	0.8	
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	31.1	197.3	-166.2
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	258	0.0	5.9	-5.9	
2	HVDC	RAIGARH-PTIGALUR	2	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	2	174	1766	0.0	17.3	-17.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2385	0.0	33.1	-33.1	
5	400 kV	KOLHAPUR-KUDGI	2	761	0	9.5	0.0	9.5	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0	
8	220 kV	XELDEM-AMBEWADI	1	0	90	1.6	0.0	1.6	
						WR-SR	11.1	56.3	-45.2

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	775	0	765	18.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1033	1018	1033	25.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	355	0	314	7.5
	NER	132KV-GEYLEGPHU - SALAKATI	-68	-30	-58	-1.4
	NER	132kV Motanga-Rangia	-54	-25	-51	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-60	0	-43	-1.0
	ER	132KV-BIHAR - NEPAL	-38	0	-3	-0.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-176	-40	-60	-1.5

BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-946	0	-936	-22.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	74	0	-64	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	73	0	-64	-1.5