



**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: 05<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., 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 04.08.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-अगस्त-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 04<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: 05-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)	61513	43400	34767	17281	2892	159853
Peak Shortage (MW)	0	0	0	0	7	7
Energy Met (MU)	1381	1029	794	439	55	3698
Hydro Gen (MU)	357	25	89	147	28	646
Wind Gen (MU)	26	87	207	-	-	321
Solar Gen (MU)*	42.35	21.30	49.89	4.44	0.03	118
Energy Shortage (MU)	0.3	0.0	0.0	0.0	0.0	0.3
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65634	44490	37929	22326	2914	159923
Time Of Maximum Demand Met (From NLDC SCADA)	22:20	11:41	10:03	00:01	19:41	20:59

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	0.028	0.00	0.00	4.58	4.58	75.94	19.48

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	11922	0	261.5	140.1	-0.4	205	0.0
	Haryana	9538	0	200.4	176.4	2.3	277	0.0
	Rajasthan	11726	0	252.2	88.5	4.2	519	0.0
	Delhi	5708	0	113.2	98.9	-2.1	119	0.1
	UP	22317	0	432.2	211.0	1.1	537	0.3
	Uttarakhand	1851	0	39.1	18.7	0.8	154	0.0
	HP	1410	0	31.3	-3.4	-0.6	31	0.0
	J&K(UT) & Ladakh(UT)	2245	0	44.9	18.9	-0.2	268	0.0
WR	Chandigarh	301	0	6.0	6.0	0.0	19	0.0
	Chhattisgarh	4138	0	98.4	37.1	-2.2	234	0.0
	Gujarat	14648	0	316.9	107.1	-1.7	378	0.0
	MP	9086	0	207.8	113.5	-3.7	334	0.0
	Maharashtra	16587	0	363.3	112.8	-2.8	472	0.0
	Goa	345	0	7.4	7.3	-0.2	49	0.0
	DD	243	0	4.8	4.8	0.0	18	0.0
	DNH	610	0	13.0	13.3	-0.3	37	0.0
SR	AMNSIL	813	0	17.7	6.6	-0.2	271	0.0
	Andhra Pradesh	6894	0	148.0	32.4	0.0	504	0.0
	Telangana	9511	0	190.2	85.5	0.4	628	0.0
	Karnataka	7294	0	138.4	15.9	-4.6	747	0.0
	Kerala	2791	0	58.6	42.4	0.2	224	0.0
	Tamil Nadu	11983	0	251.4	86.1	-3.1	484	0.0
ER	Puducherry	349	0	7.4	7.8	-0.4	21	0.0
	Bihar	5765	0	110.1	108.5	-3.7	505	0.0
	DVC	2913	0	59.2	-36.0	0.9	350	0.0
	Jharkhand	1375	0	24.9	18.6	-2.9	100	0.0
	Odisha	3937	0	81.9	4.5	0.0	200	0.0
	West Bengal	8826	0	162.0	51.0	-0.8	490	0.0
NER	Sikkim	84	0	1.0	1.2	-0.2	10	0.0
	Arunachal Pradesh	114	1	1.9	1.7	0.1	24	0.0
	Assam	1933	14	35.9	33.4	-0.9	146	0.0
	Manipur	180	0	2.7	2.4	0.3	42	0.0
	Meghalaya	273	0	4.9	-0.1	-0.3	36	0.0
	Mizoram	89	0	1.5	1.2	0.2	13	0.0
NER	Nagaland	130	1	2.3	2.4	-0.2	17	0.0
	Tripura	296	3	5.4	6.2	0.2	36	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.4	-4.0	-25.9
Day Peak (MW)	2285.0	-397.2	-1097.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	347.7	-270.3	41.7	-118.0	-1.0	0.0
Actual(MU)	356.5	-272.4	17.8	-104.0	0.5	-1.5
O/D/U/D(MU)	8.9	-2.1	-23.9	14.1	1.6	-1.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5503	15887	11712	1845	546	35492
State Sector	9889	19621	15370	5152	47	50079
Total	15392	35508	27082	6997	593	85571

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	531	1045	326	436	6	2344
Lignite	20	13	20	0	0	53
Hvdro	357	25	89	147	28	646
Nuclear	21	33	36	0	0	90
Gas, Naptha & Diesel	30	58	13	0	26	127
RES (Wind, Solar, Biomass & Others)	90	120	307	4	0	522
Total	1049	1294	790	588	60	3781

Share of RES in total generation (%)

	NR	WR	SR	ER	NER	TOTAL
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.63	13.71	54.66	25.81	46.51	33.25

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.084
Based on State Max Demands	1.114

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: 05-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	1803	0.0	40.2	-40.2	
2	HVDC	PUSAULI B/B	-	0	398	0.0	9.9	-9.9	
3	765 kV	GAYA-VARANASI	2	0	1244	0.0	13.1	-13.1	
4	765 kV	SASARAM-FATEHPUR	1	306	149	3.0	0.0	3.0	
5	765 kV	GAYA-BALIA	1	0	634	0.0	4.2	-4.2	
6	400 kV	PUSAULI-VARANASI	1	0	318	0.0	6.8	-6.8	
7	400 kV	PUSAULI-ALLAHABAD	1	0	173	0.0	2.8	-2.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	849	0.0	9.4	-9.4	
9	400 kV	PATNA-BALIA	4	0	1314	0.0	18.2	-18.2	
10	400 kV	BIHARSHARIFF-BALIA	2	0	536	0.0	5.9	-5.9	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	379	0.0	6.5	-6.5	
12	400 kV	BIHARSHARIFF-VARANASI	2	155	291	0.0	0.2	-0.2	
13	220 kV	PUSAULI-SAHUPURI	1	0	127	0.0	2.4	-2.4	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	30	0	0.4	0.0	0.4	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	3.5	119.6	-116.1
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	898	69	9.0	0.0	9.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1559	0	26.1	0.0	26.1	
3	765 kV	JHARSUGUDA-DURG	2	180	0	2.2	0.0	2.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	213	113	0.8	0.0	0.8	
5	400 kV	RANCHI-SIPAT	2	548	0	7.5	0.0	7.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	80	0.0	1.0	-1.0	
7	220 kV	BUDHIPADAR-KORBA	2	173	0	2.8	0.0	2.8	
						ER-WR	48.4	1.0	47.3
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	542	0.0	12.4	-12.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1967	0.0	40.0	-40.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	1561	0.0	23.7	-23.7	
4	400 kV	TALCHER-I/C	2	631	183	3.8	0.0	3.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	76.1	-76.1
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	471	0.0	6.0	-6.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	108	441	0.0	2.5	-2.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	130	0.0	1.9	-1.9	
						ER-NER	0.0	10.3	-10.3
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.2	-12.2	
						NER-NR	0.0	12.2	-12.2
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1757	0.0	50.4	-50.4	
2	HVDC	VINDHYACHAL B/B	-	271	205	3.3	0.7	2.6	
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	2368	0.0	29.3	-29.3	
4	765 kV	GWALIOR-AGRA	2	0	3028	0.0	55.1	-55.1	
5	765 kV	PHAGI-GWALIOR	2	0	1664	0.0	30.2	-30.2	
6	765 kV	JABALPUR-ORAI	2	0	1303	0.0	48.6	-48.6	
7	765 kV	GWALIOR-ORAI	1	554	0	9.8	0.0	9.8	
8	765 kV	SATNA-ORAI	1	0	1567	0.0	31.8	-31.8	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1101	0.0	13.1	-13.1	
10	400 kV	ZERDA-KANKROLI	1	48	187	0.0	1.0	-1.0	
11	400 kV	ZERDA-BHINMAL	1	168	333	0.0	1.1	-1.1	
12	400 kV	VINDHYACHAL-RIHAND	1	964	0	22.2	0.0	22.2	
13	400 kV	RAPP-SHUJALPUR	2	0	756	0.0	11.1	-11.1	
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	2.7	-2.7	
15	220 kV	BHANPURA-MORAK	1	0	140	0.0	2.7	-2.7	
16	220 kV	MEHGAON-AURAIYA	1	38	21	0.0	0.3	-0.3	
17	220 kV	MALANPUR-AURAIYA	1	15	53	0.5	0.4	0.1	
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	35.7	278.3	-242.7
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	782	0.0	7.6	-7.6	
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	2	1574	410	17.4	0.3	17.1	
4	765 kV	WARDHA-NIZAMABAD	2	91	1520	0.0	15.2	-15.2	
5	400 kV	KOLHAPUR-KUDGI	2	1034	0	18.4	0.0	18.4	
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	1	62	0.7	0.0	0.7	
						WR-SR	36.4	23.1	13.3

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)	768	765	768	18.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1077	1045	1066	25.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	397	0	330	7.9
	NER	132KV-GEYLEGPHU - SALAKATI	-67	-43	-46	-1.1
	NER	132kV Motanga-Rangia	-53	-48	-51	-1.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-60	0	-46	-1.1
	ER	132KV-BIHAR - NEPAL	-121	7	-46	-1.1
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-216	32	-75	-1.8

BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-962	-948	-954	-22.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	68	0	-63	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	67	0	-63	-1.5