



**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: 17<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 16.08.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16<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: 17-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)	57960	38779	32047	21387	2674	152847
Peak Shortage (MW)	0	0	0	0	9	9
Energy Met (MU)	1269	875	724	428	47	3343
Hydro Gen (MU)	349	32	113	140	26	661
Wind Gen (MU)	9	118	153	-	-	281
Solar Gen (MU)*	37.30	12.20	32.55	4.39	0.06	87
Energy Shortage (MU)	0.0	0.1	0.0	0.0	0.1	0.2
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61194	38249	35243	21464	2683	152947
Time Of Maximum Demand Met (From NLDC SCADA)	21:55	19:22	10:01	20:04	19:11	19:57

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	0.026	0.00	0.12	4.26	4.37	86.03	9.59

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	11532	0	261.6	146.4	-1.4	56	0.0
	Haryana	8603	0	182.6	175.6	1.9	256	0.0
	Rajasthan	9662	0	216.0	80.3	0.0	423	0.0
	Delhi	5177	0	99.2	87.1	-1.2	122	0.0
	UP	21538	0	396.3	195.5	0.0	704	0.0
	Uttarakhand	1749	0	37.3	15.9	1.3	190	0.0
	HP	1198	0	27.8	-8.0	-0.3	73	0.0
	J&K(UT) & Ladakh(UT)	2124	0	42.9	19.6	-2.4	762	0.0
	Chandigarh	283	0	5.3	5.3	0.1	39	0.0
	Chhattisgarh	3464	0	81.8	22.9	-1.1	298	0.0
WR	Gujarat	11314	0	241.7	63.8	3.8	784	0.0
	MP	8319	0	186.4	123.9	-1.5	429	0.0
	Maharashtra	15202	0	322.1	114.9	-2.8	474	0.0
	Goa	352	0	7.2	6.6	0.0	64	0.1
	DD	232	0	4.7	4.5	0.2	24	0.0
	DNH	628	0	13.8	13.8	0.0	45	0.0
	AMNSIL	802	0	17.2	1.5	0.3	252	0.0
	Andhra Pradesh	6833	0	142.6	34.1	-0.1	592	0.0
	Telangana	5611	0	118.7	41.0	-1.7	382	0.0
	Karnataka	6800	0	136.3	37.9	-1.8	510	0.0
SR	Kerala	2918	0	58.9	36.8	0.1	204	0.0
	Tamil Nadu	11870	0	260.4	87.3	-2.8	404	0.0
	Puducherry	351	0	7.0	7.2	-0.2	36	0.0
	Bihar	5507	0	108.1	103.4	-0.5	327	0.0
	DVC	2897	0	62.3	-41.0	0.3	267	0.0
	Jharkhand	1534	0	26.3	20.2	-1.8	206	0.0
	Odisha	4078	0	76.4	16.0	-1.6	436	0.0
	West Bengal	8150	0	153.7	57.9	0.5	466	0.0
	Sikkim	70	0	0.9	1.0	-0.2	20	0.0
	NER	Arunachal Pradesh	99	1	1.8	1.8	-0.1	31
Assam		1735	24	30.3	25.2	0.7	144	0.0
Manipur		190	2	2.5	2.5	0.0	16	0.0
Meghalaya		304	0	5.2	0.2	-0.3	25	0.0
Mizoram		92	1	1.5	1.2	0.1	7	0.0
Nagaland		119	2	2.3	2.4	-0.3	37	0.0
Tripura		249	2	3.9	5.5	-0.6	37	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	54.6	-3.4	-25.1
Day Peak (MW)	2424.0	-349.3	-1076.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	320.0	-285.8	41.5	-76.0	0.4	0.0
Actual(MU)	312.0	-291.9	41.1	-58.3	-0.7	2.2
O/D/U/D(MU)	-8.0	-6.1	-0.4	17.7	-1.1	2.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5566	15167	13212	4165	860	38969
State Sector	12164	27434	14922	4762	47	59329
Total	17730	42601	28134	8927	906	98298

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	483	887	261	382	3	2016
Lignite	25	10	25	0	0	59
Hydro	349	32	113	140	26	661
Nuclear	21	31	47	0	0	100
Gas, Naptha & Diesel	36	56	15	0	24	131
RES (Wind, Solar, Biomass & Others)	67	142	238	4	0	452
Total	982	1158	698	526	53	3418
Share of RES in total generation (%)	6.85	12.23	34.15	0.84	0.11	13.22
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.55	17.75	57.03	27.45	49.26	35.46

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.038
Based on State Max Demands	1.056

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: 17-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	901	0.0	22.1	-22.1	
2	HVDC	PUSAULI B/B	-	0	198	0.0	4.7	-4.7	
3	765 kV	GAYAVARANASI	2	29	411	0.0	5.6	-5.6	
4	765 kV	SASARAM-FATEHPUR	1	373	0	5.6	0.0	5.6	
5	765 kV	GAYA-BALIA	1	0	560	0.0	9.4	-9.4	
6	400 kV	PUSAULI-VARANASI	1	0	219	0.0	4.6	-4.6	
7	400 kV	PUSAULI-ALLAHABAD	1	12	46	0.0	0.1	-0.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	566	0.0	10.3	-10.3	
9	400 kV	PATNA-BALIA	4	0	745	0.0	12.6	-12.6	
10	400 kV	BIHARSHARIFF-BALIA	2	0	339	0.0	6.0	-6.0	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	261	0.0	3.8	-3.8	
12	400 kV	BIHARSHARIFF-VARANASI	2	215	8	2.7	0.0	2.7	
13	220 kV	PUSAULI-SAHUPURI	1	16	151	0.0	2.6	-2.6	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5	
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	8.8	81.8	-73.0
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	763	48	10.1	0.0	10.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1448	0	27.7	0.0	27.7	
3	765 kV	JHARSUGUDA-DURG	2	196	34	1.7	0.0	1.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	359	0	4.4	0.0	4.4	
5	400 kV	RANCHI-SIPAT	2	546	0	9.7	0.0	9.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	26	60	0.0	0.4	-0.4	
7	220 kV	BUDHIPADAR-KORBA	2	194	0	3.6	0.0	3.6	
						ER-WR	57.2	0.4	56.8
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	205	220	1.1	0.0	1.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1995	0.0	33.7	-33.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	1967	0.0	31.2	-31.2	
4	400 kV	TALCHER-I/C	2	684	993	0.0	0.2	-0.2	
5	220 kV	BALMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	1.1	64.9	-63.8
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	410	0.0	5.0	-5.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	539	0.0	6.9	-6.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	133	0.0	2.1	-2.1	
						ER-NER	0.0	14.0	-14.0
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	705	0.0	17.1	-17.1	
						NER-NR	0.0	17.1	-17.1
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1755	0.0	53.4	-53.4	
2	HVDC	VINDHYACHAL B/B	-	226	497	3.5	3.2	0.3	
3	HVDC	MUNDRAM-SOHNERGARH	2	0	2372	0.0	42.0	-42.0	
4	765 kV	GWALIOR-AGRA	2	0	2929	0.0	50.5	-50.5	
5	765 kV	PHAGI-GWALIOR	2	0	1304	0.0	23.3	-23.3	
6	765 kV	JABALPUR-ORAI	2	0	1098	0.0	38.9	-38.9	
7	765 kV	GWALIOR-ORAI	1	424	0	3.7	0.0	3.7	
8	765 kV	SATNA-ORAI	1	0	1578	0.0	30.7	-30.7	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1015	0.0	7.8	-7.8	
10	400 kV	ZERDA-KANKROLI	1	41	163	0.0	1.2	-1.2	
11	400 kV	ZERDA-BHINMAL	1	41	244	0.0	1.6	-1.6	
12	400 kV	VINDHYACHAL-RIHAND	1	965	0	22.4	0.0	22.4	
13	400 kV	RAPP-SHULALPUR	2	0	540	0.0	3.9	-3.9	
14	220 kV	BHANPURA-RANPUR	1	11	0	0.0	1.8	-1.8	
15	220 kV	BHANPURA-MORAK	1	0	119	0.0	1.9	-1.9	
16	220 kV	MEHGAON-AURAIYA	1	71	20	0.1	0.4	-0.3	
17	220 kV	MALANPUR-AURAIYA	1	35	51	0.5	0.1	0.4	
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	30.2	260.8	-230.6
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	258	0.0	6.1	-6.1	
2	HVDC	RAIGARH-PUGALUR	2	0	0	6.7	0.0	6.7	
3	765 kV	SOLAPUR-RAICHUR	2	523	1171	2.1	4.8	-2.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	1408	0.0	15.9	-15.9	
5	400 kV	KOLHAPUR-KUDGI	2	762	0	11.5	0.0	11.5	
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	84	1.4	0.0	1.4	
						WR-SR	21.7	26.9	-5.2
<b>INTERNATIONAL EXCHANGES</b>									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)			
BHUTAN	ER	400KV MANGDECHHU-ALIPURDUAR I&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	766	761	762	18.3			
	ER	400KV TALA-BINAGURI I,2,4 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1168	0	1077	25.8			
	ER	220KV CHUKHA-BIRPARA I&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	357	0	330	7.9			
	NER	132KV-GEYLEGPHU - SALAKATI	66	43	-56	-1.3			
NEPAL	NER	132KV Motanga-Rangia	67	0	-50	-1.2			
	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-54	0	-28	-0.7			
BANGLADESH	ER	132KV-BIHAR - NEPAL	-81	47	-3	-0.1			
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-214	-48	-111	-2.7			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-934	-920	-923	-22.1			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	71	0	-61	-1.5			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	71	0	-61	-1.5			