



**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: 20<sup>th</sup> August 2021

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 19.08.2021.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-अगस्त-2021 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 19<sup>th</sup> August 2021, 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: 20-Aug-2021

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	66514	51508	42069	22411	2880	185382
Peak Shortage (MW)	703	48	0	0	0	751
Energy Met (MU)	1617	1216	981	494	56	4364
Hydro Gen (MU)	343	35	145	142	27	693
Wind Gen (MU)	28	102	192	-	-	322
Solar Gen (MU)*	57.27	24.45	90.63	4.40	0.19	177
Energy Shortage (MU)	4.70	0.60	0.00	0.00	0.00	5.30
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72816	53153	47239	22458	2906	193782
Time Of Maximum Demand Met (From NLDC SCADA)	12:26	09:24	11:39	19:30	18:48	11:56

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	0.020	0.00	0.00	1.56	1.56	78.95	19.49

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	12841	0	300.9	175.1	-1.6	33	0.00
	Haryana	11313	0	252.4	191.9	-0.5	199	0.00
	Rajasthan	14645	0	310.8	123.6	-0.4	364	0.00
	Delhi	6368	0	135.0	122.7	-1.2	193	0.05
	UP	23092	0	481.4	216.4	-2.0	466	0.00
	Uttarakhand	2099	0	45.8	17.3	1.1	150	1.20
	HP	1528	0	33.7	0.6	-0.1	292	0.00
	J&K(UT) & Ladakh(UT)	2533	100	50.6	24.5	1.2	289	3.45
Chandigarh	344	0	6.9	6.8	0.1	42	0.00	
WR	Chhattisgarh	4256	33	99.2	50.9	0.2	524	0.60
	Gujarat	18943	0	408.5	183.7	-0.5	515	0.00
	MP	9604	0	211.5	133.3	-0.5	527	0.00
	Maharashtra	20744	0	438.1	113.2	2.5	640	0.00
	Goa	579	15	12.4	11.2	0.5	43	0.00
	DD	314	0	7.1	6.7	0.4	101	0.00
	DNH	856	0	19.8	19.6	0.2	51	0.00
	AMNSIL	876	0	19.5	6.8	-0.1	326	0.00
SR	Andhra Pradesh	9405	0	195.5	57.4	0.5	500	0.00
	Telangana	9531	0	186.9	47.6	-2.2	479	0.00
	Karnataka	10209	0	191.9	4.8	-1.3	596	0.00
	Kerala	3402	0	69.7	40.7	-0.3	294	0.00
	Tamil Nadu	15028	0	328.0	123.8	-0.4	527	0.00
	Puducherry	424	0	8.7	8.6	0.0	48	0.00
ER	Bihar	5979	0	121.0	116.3	-1.2	380	0.00
	DVC	3231	0	67.6	-26.3	0.3	325	0.00
	Jharkhand	1542	0	29.4	24.5	-2.5	114	0.00
	Odisha	5197	0	110.9	30.6	-0.4	410	0.00
	West Bengal	7990	0	163.9	53.4	-0.1	349	0.00
	Sikkim	79	0	1.4	1.5	-0.2	12	0.00
NER	Arunachal Pradesh	122	0	2.3	2.5	-0.2	26	0.00
	Assam	1915	0	36.9	29.3	0.5	138	0.00
	Manipur	191	0	2.7	2.6	0.1	24	0.00
	Meghalaya	318	0	5.9	1.4	-0.1	38	0.00
	Mizoram	107	0	1.6	1.3	0.0	18	0.00
	Nagaland	120	0	2.5	2.0	0.0	39	0.00
	Tripura	264	0	4.5	4.7	-0.7	18	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	49.9	-0.4	-19.8
Day Peak (MW)	2225.0	-101.0	-851.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	422.5	-214.3	-88.8	-115.6	-3.8	0.0
Actual(MU)	410.0	-200.5	-95.0	-115.7	-5.4	-6.6
O/D/U/D(MU)	-12.5	13.9	-6.2	-0.1	-1.6	-6.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3714	14430	8842	1170	809	28964	45
State Sector	6195	16646	8080	4435	11	35367	55
Total	9909	31076	16922	5605	820	64331	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	711	1183	538	483	11	2926	66
Lignite	22	10	35	0	0	67	2
Hydro	343	35	146	142	27	693	16
Nuclear	22	33	41	0	0	96	2
Gas, Naptha & Diesel	25	57	10	0	29	122	3
RES (Wind, Solar, Biomass & Others)	105	127	317	4	0	553	12
Total	1228	1445	1087	630	67	4457	100

Share of RES in total generation (%)	8.52	8.79	29.14	0.70	0.28	12.41
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.23	13.47	46.33	23.27	41.21	30.11

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.063

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: 20-Aug-2021

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	1302	0.0	33.0	-33.0	
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.3	-6.3	
3	765 kV	GAYA-VARANASI	2	127	341	0.0	2.6	-2.6	
4	765 kV	SASARAM-FATEHPUR	1	10	262	0.0	3.2	-3.2	
5	765 kV	GAYA-BALIA	1	0	544	0.0	10.1	-10.1	
6	400 kV	PUSAULI-VARANASI	1	0	146	0.0	2.9	-2.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	167	0.0	3.2	-3.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	656	0.0	11.8	-11.8	
9	400 kV	PATNA-BALIA	4	0	1085	0.0	20.8	-20.8	
10	400 kV	BIHARSHARIFF-BALIA	2	0	346	0.0	5.4	-5.4	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	405	0.0	7.5	-7.5	
12	400 kV	BIHARSHARIFF-VARANASI	2	47	140	0.0	0.9	-0.9	
13	220 kV	PUSAULI-SAHUPURI	1	0	96	0.0	1.5	-1.5	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.6	0.0	0.6	
16	132 kV	KARMANASA-SAHUPURI	1	3	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.6	109.2	-108.6
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	852	0.0	10.0	-10.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1249	0	20.1	0.0	20.1	
3	765 kV	JHARSUGUDA-DURG	2	175	41	1.6	0.0	1.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	42	378	0.0	4.4	-4.4	
5	400 kV	RANCHI-SIPAT	2	305	0	4.2	0.0	4.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	153	0.0	2.9	-2.9	
7	220 kV	BUDHIPADAR-KORBA	2	33	63	0.0	0.7	-0.7	
						ER-WR	25.9	18.1	7.8
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	342	0	8.4	0.0	8.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1040	0.0	25.3	-25.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	1824	0.0	31.1	-31.1	
4	400 kV	TALCHER-I/C	2	378	0	8.0	0.0	8.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	8.4	56.4	-48.0
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	247	0.0	3.5	-3.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	108	218	0.0	0.2	-0.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	93	0.0	1.3	-1.3	
						ER-NER	0.0	5.0	-5.0
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	0.0	11.8	-11.8	
						NER-NR	0.0	11.8	-11.8
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4536	0.0	84.8	-84.8	
2	HVDC	VINDHYACHAL B/B	-	47	254	0.4	3.8	-3.4	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1451	0.0	26.6	-26.6	
4	765 kV	GWALIOR-AGRA	2	0	2454	0.0	45.8	-45.8	
5	765 kV	GWALIOR-PHAGI	2	0	2403	0.0	45.7	-45.7	
6	765 kV	JABALPUR-ORAI	2	0	1296	0.0	49.6	-49.6	
7	765 kV	GWALIOR-ORAI	1	889	0	16.0	0.0	16.0	
8	765 kV	SATNA-ORAI	1	0	1128	0.0	24.0	-24.0	
9	765 kV	BANASKANTHA-CHITORGARH	2	1090	0	10.9	0.0	10.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3583	0.0	60.0	-60.0	
11	400 kV	ZERDA-KANKROLI	1	210	0	2.8	0.0	2.8	
12	400 kV	ZERDA -BHINMAL	1	313	1	3.5	0.0	3.5	
13	400 kV	VINDHYACHAL -RIHAND	1	971	0	22.2	0.0	22.2	
14	400 kV	RAPP-SHUJALPUR	2	0	717	0.0	12.3	-12.3	
15	220 kV	BHANPURA-RANPUR	1	0	125	0.0	2.2	-2.2	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8	
17	220 kV	MEHGAON-AURAIYA	1	109	0	0.5	0.0	0.5	
18	220 kV	MALANPUR-AURAIYA	1	64	5	1.4	0.0	1.4	
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	57.6	356.7	-299.1
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	994	0	23.7	0.0	23.7	
2	HVDC	RAIGARH-PUGALUR	2	2146	0	40.4	0.0	40.4	
3	765 kV	SOLAPUR-RAICHUR	2	2060	0	24.4	0.0	24.4	
4	765 kV	WARDHA-NIZAMABAD	2	539	1158	0.5	12.7	-12.1	
5	400 kV	KOLHAPUR-KUDGI	2	1560	0	28.9	0.0	28.9	
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	78	1.4	0.0	1.4	
						WR-SR	119.3	12.7	106.6
<b>INTERNATIONAL EXCHANGES</b>									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)			
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	806	649	715	17.2			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	1027	1008	1027	24.8			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	292	0	264	6.3			
	NER	132kV GELEPHU-SALAKATI	51	22	23	0.6			
	NER	132kV MOTANGA-RANGIA	49	42	43	1.0			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-0.6			
	ER	NEPAL IMPORT (FROM BIHAR)	-16	-1	-4	-0.1			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	66	-40	13	0.3			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-716	-706	-709	-17.0			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-135	0	-115	-2.8			