



**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:16<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 15.08.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-अगस्त-2021 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 15<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: 16-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)	61926	50664	36871	22589	2870	174920
Peak Shortage (MW)	200	71	0	0	0	271
Energy Met (MU)	1496	1259	956	496	54	4261
Hydro Gen (MU)	371	35	145	143	34	729
Wind Gen (MU)	42	126	157	-	-	325
Solar Gen (MU)*	57.48	34.87	76.99	4.26	0.22	174
Energy Shortage (MU)	3.45	1.70	0.00	0.00	0.00	5.15
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68507	54611	46148	23175	2902	183890
Time Of Maximum Demand Met (From NLDC SCADA)	00:03	06:42	07:22	22:51	19:02	00:02

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	0.035	0.00	0.39	8.82	9.21	82.39	8.40

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	12628	0	291.3	163.8	-2.2	85	0.00
	Haryana	10568	0	214.7	164.9	1.1	310	0.00
	Rajasthan	13077	0	283.3	79.0	3.2	1152	0.00
	Delhi	5817	0	107.2	93.8	-1.4	165	0.00
	UP	23111	0	483.3	230.2	-2.0	826	0.00
	Uttarakhand	1791	0	39.3	12.0	1.0	159	0.00
	HP	1194	0	26.9	-11.7	-0.7	128	0.00
	J&K(UT) & Ladakh(UT)	2300	250	44.3	20.9	-1.9	278	3.45
WR	Chhattisgarh	249	0	5.3	5.9	-0.6	22	0.00
	Chhattisgarh	4632	25	110.3	57.1	-0.2	329	1.70
	Gujarat	17327	0	388.5	166.5	2.6	727	0.00
	MP	10578	0	232.9	131.3	2.3	936	0.00
	Maharashtra	21812	0	475.6	138.4	4.7	582	0.00
	Goa	522	0	11.5	10.3	0.5	35	0.00
	DD	304	0	5.2	4.7	0.5	42	0.00
	DNH	818	0	16.0	15.8	0.2	97	0.00
SR	AMNSIL	860	0	18.9	8.2	-0.5	320	0.00
	Andhra Pradesh	9249	0	187.3	54.3	0.9	555	0.00
	Telangana	11840	0	230.8	87.5	-1.5	505	0.00
	Karnataka	9730	0	181.8	11.6	-3.0	613	0.00
	Kerala	3063	0	61.4	33.2	-1.2	293	0.00
	Tamil Nadu	12754	0	287.3	91.0	-4.7	427	0.00
	Puducherry	325	0	6.9	7.1	-0.2	24	0.00
	DVC	6219	0	122.5	116.0	-0.7	302	0.00
ER	Bihar	3115	0	67.9	-32.7	0.8	384	0.00
	Jharkhand	1486	0	29.8	24.5	-2.0	212	0.00
	Odisha	5166	0	108.2	32.8	-1.9	409	0.00
	West Bengal	8457	0	166.6	54.5	-0.6	566	0.00
	Sikkim	67	0	1.1	1.1	0.0	15	0.00
	Arunachal Pradesh	129	0	2.2	3.0	-0.8	12	0.00
	Assam	1842	0	34.1	26.2	0.0	125	0.00
	Manipur	200	0	2.8	2.7	0.1	16	0.00
NER	Meghalaya	312	0	5.9	1.9	-0.3	17	0.00
	Mizoram	92	0	1.6	1.3	0.1	14	0.00
	Nagaland	132	0	2.4	2.3	-0.3	19	0.00
	Tripura	277	0	5.0	5.2	-0.3	26	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	47.6	-0.6	-19.9
Day Peak (MW)	2059.0	-67.8	-859.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	298.0	-174.8	-11.5	-103.1	-7.7	0.9
Actual(MU)	298.5	-154.9	-32.9	-104.2	-11.9	-5.5
O/D/U/D(MU)	0.5	19.8	-21.4	-1.1	-4.2	-6.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4732	16678	8532	1320	659	31920	50
State Sector	7125	15755	7475	4585	11	34951	50
Total	11857	32433	16007	5905	670	66871	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	665	1162	518	477	9	2831	65
Lignite	23	8	38	0	0	69	2
Hvdro	371	35	145	143	34	729	17
Nuclear	18	28	24	0	0	70	2
Gas, Naptha & Diesel	20	27	12	0	29	88	2
RES (Wind, Solar, Biomass & Others)	120	161	262	4	0	549	13
Total	1218	1422	999	625	71	4336	100
Share of RES in total generation (%)	9.88	11.35	26.26	0.68	0.31	12.66	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.81	15.82	43.16	23.63	47.89	31.08	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.062
Based on State Max Demands	1.099

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: 16-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	1700	0.0	31.3	-31.3
2	HVDC	PUSAULI B/B	-	0	247	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	183	509	0.0	2.1	-2.1
4	765 kV	SASARAM-FATEHPUR	1	17	307	0.0	2.6	-2.6
5	765 kV	GAYA-BALIA	1	0	437	0.0	7.0	-7.0
6	400 kV	PUSAULI-VARANASI	1	0	165	0.0	3.1	-3.1
7	400 kV	PUSAULI-ALLAHABAD	1	0	152	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	694	0.0	13.1	-13.1
9	400 kV	PATNA-BALIA	4	0	985	0.0	15.2	-15.2
10	400 kV	BIHARSHARIFF-BALIA	2	7	283	0.0	3.1	-3.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	467	0.0	8.1	-8.1
12	400 kV	BIHARSHARIFF-VARANASI	2	81	213	0.0	1.0	-1.0
13	220 kV	PUSAULI-SAHUPURI	1	0	89	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	0.8	0.0	0.8
16	132 kV	KARMANASA-SAHUPURI	1	4	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
						ER-NR	96.9	-96.2
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	781	505	2.2	0.0	2.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1390	0	22.3	0.0	22.3
3	765 kV	JHARSUGUDA-DURG	2	222	124	2.3	0.0	2.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	473	0.0	6.0	-6.0
5	400 kV	RANCHI-SIPAT	2	322	66	4.9	0.0	4.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	161	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	36	92	0.0	0.2	-0.2
						ER-WR	31.7	22.9
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	469	0.0	10.4	-10.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1188	0.0	28.9	-28.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2135	0.0	30.2	-30.2
4	400 kV	TALCHER-I/C	2	228	421	1.6	0.0	1.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	69.5	-69.5
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	125	191	0.0	0.5	-0.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	378	78	4.6	0.0	4.6
3	220 kV	ALIPURDUAR-SALAKATI	2	20	71	0.0	0.5	-0.5
						ER-NER	4.6	3.6
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	9.3	-9.3
						NER-NR	0.0	-9.3
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3532	0.0	39.7	-39.7
2	HVDC	VINDHYACHAL B/B	-	97	0	2.4	0.0	2.4
3	HVDC	MUNDRAL-MOHENDERGARH	2	0	980	0.0	16.8	-16.8
4	765 kV	GWALIOR-AGRA	2	0	2162	0.0	35.3	-35.3
5	765 kV	GWALIOR-PHAGI	2	0	1913	0.0	32.1	-32.1
6	765 kV	JABALPUR-ORAI	2	0	1283	0.0	44.0	-44.0
7	765 kV	GWALIOR-ORAI	1	743	0	14.0	0.0	14.0
8	765 kV	SATNA-ORAI	1	0	947	0.0	18.8	-18.8
9	765 kV	BANASKANTHA-CHITORGARH	2	719	88	5.6	0.0	5.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3362	0.0	57.0	-57.0
11	400 kV	ZERDA-KANKROLI	1	213	0	2.7	0.0	2.7
12	400 kV	ZERDA -BHINMAL	1	372	86	4.3	0.0	4.3
13	400 kV	VINDHYACHAL -RIHAND	1	974	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUALPUR	2	0	633	0.0	7.6	-7.6
15	220 kV	BHANPURA-RANPUR	1	0	108	0.0	1.8	-1.8
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3
17	220 kV	MEHGAON-AURAIYA	1	106	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	70	0	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	254.3	-201.1
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	990	0	21.4	0.0	21.4
2	HVDC	RAIGARH-PUGALUR	2	1915	0	22.6	0.0	22.6
3	765 kV	SOLAPUR-RAICHUR	2	1559	684	19.5	0.0	19.5
4	765 kV	WARDHA-NIZAMABAD	2	223	2206	0.2	23.4	-23.2
5	400 kV	KOLHAPUR-KUDGI	2	1466	0	27.4	0.0	27.4
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	0	76	1.4	0.0	1.4
						WR-SR	92.5	69.0

INTERNATIONAL EXCHANGES			Import(+ve)/Export(-ve) Energy Exchange (MU)			
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	665	0	641	15.4
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1039	1017	1034	24.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	286	0	249	6.0
	NER	132kV GELEPHU-SALAKATI	22	15	18	0.4
	NER	132kV MOTANGA-RANGIA	48	32	41	1.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-33	0	-18	-0.4
	ER	NEPAL IMPORT (FROM BIHAR)	-42	-1	-7	-0.2
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	77	0	14	0.3
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-713	-699	-704	-16.9
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-146	0	-127	-3.0