



**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> Oct 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 19.10.2021.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-अक्टूबर-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> October 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-Oct-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 19:00 hrs; from RLDCs)	46715	50825	41698	19434	2785	161457
Peak Shortage (MW)	1073	2955	0	133	0	4161
Energy Met (MU)	971	1173	968	416	53	3581
Hydro Gen (MU)	200	41	174	134	20	570
Wind Gen (MU)	2	46	51	-	-	100
Solar Gen (MU)*	55.04	39.92	98.98	4.14	0.15	198
Energy Shortage (MU)	13.61	18.05	0.00	2.30	0.00	33.96
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47523	51561	45521	19781	2873	163916
Time Of Maximum Demand Met (From NLDC SCADA)	18:54	10:54	12:43	19:48	17:29	18:43

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	0.072	0.82	4.78	9.44	15.04	80.14	4.81

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	7028	0	147.8	76.9	-1.1	106	0.00
	Haryana	6741	0	133.6	89.8	1.0	209	6.26
	Rajasthan	10336	0	222.4	70.7	1.8	348	1.16
	Delhi	3644	0	72.5	62.8	-1.5	84	0.00
	UP	15604	0	279.9	122.2	-2.4	211	2.74
	Uttarakhand	1599	0	31.3	14.0	-1.2	219	0.00
	HP	1615	0	31.2	11.8	-0.8	169	0.00
	J&K(UT) & Ladakh(UT)	2638	200	48.8	38.3	1.1	267	3.45
WR	Chandigarh	193	0	3.5	3.9	-0.4	10	0.00
	Chhattisgarh	4073	0	93.4	33.4	-0.6	279	0.00
	Gujarat	16432	658	363.7	204.5	5.3	653	18.05
	MP	9295	0	191.4	121.4	-2.3	343	0.00
	Maharashtra	21089	0	467.9	170.4	-1.9	346	0.00
	Goa	614	0	13.6	11.4	1.8	22	0.00
	DD	347	0	7.8	7.4	0.4	72	0.00
	DNH	855	0	19.9	19.8	0.1	60	0.00
SR	AMNSIL	791	0	15.1	6.5	-0.3	231	0.00
	Andhra Pradesh	9865	0	202.0	81.3	-7.4	582	0.00
	Telangana	9103	0	187.2	55.6	-1.1	730	0.00
	Karnataka	9259	0	180.2	44.3	-11.3	1107	0.00
	Kerala	3565	0	72.3	32.1	-0.5	170	0.00
	Tamil Nadu	14675	0	317.1	162.0	1.2	861	0.00
	Puducherry	430	0	8.8	8.8	0.0	55	0.00
	ER	Bihar	4467	0	82.9	78.8	0.1	598
DVC		3087	0	66.0	-28.5	0.2	462	0.50
Jharkhand		1305	0	25.7	20.9	-1.3	186	0.40
Odisha		5357	0	110.5	38.6	-1.3	566	0.00
West Bengal		6669	0	130.3	23.0	0.5	483	0.00
Sikkim		68	0	1.0	1.7	-0.7	65	0.00
NER	Arunachal Pradesh	136	0	2.4	2.4	-0.1	39	0.00
	Assam	1771	0	33.9	27.6	-0.9	77	0.00
	Manipur	178	0	2.6	2.5	0.0	29	0.00
	Meghalaya	340	0	6.0	3.0	-0.2	23	0.00
	Mizoram	112	0	1.6	1.2	-0.2	0	0.00
	Nagaland	138	0	2.2	2.2	-0.3	26	0.00
	Tripura	264	0	4.6	3.6	-0.2	47	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	43.0	1.5	-20.3
Day Peak (MW)	2179.0	95.0	-871.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	172.8	-74.0	49.7	-148.9	0.5	0.0
Actual(MU)	152.8	-61.0	70.7	-158.8	-2.6	1.1
O/D/U/D(MU)	-20.0	13.0	21.1	-9.9	-3.1	1.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6752	17160	10372	2010	580	36873	46
State Sector	11500	17844	9260	4925	11	43540	54
Total	18252	35004	19632	6935	591	80413	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	510	1062	455	457	12	2497	68
Lignite	23	8	34	0	0	65	2
Hydro	200	41	174	134	20	570	16
Nuclear	27	33	64	0	0	123	3
Gas, Naptha & Diesel	15	18	9	0	29	71	2
RES (Wind, Solar, Biomass & Others)	69	87	173	4	0	333	9
Total	845	1249	910	595	61	3660	100

Share of RES in total generation (%)	8.20	6.94	19.03	0.69	0.24	9.11
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.12	12.88	45.19	23.22	32.30	28.05

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.060

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)

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Date of Reporting: 20-Oct-2021			
						Import (MU)	Export (MU)	NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	HVDC	ALIPURDUAR-AGRA	2	0	1000	0.0	24.1	-24.1	
2	HVDC	PUSAULI B/B	-	0	249	0.0	5.9	-5.9	
3	765 kV	GAYA-VARANASI	2	85	530	0.0	5.2	-5.2	
4	765 kV	SASARAMI-FATEHPUR	1	0	267	0.0	3.1	-3.1	
5	765 kV	GAYA-BALIA	1	0	234	0.0	3.1	-3.1	
6	400 kV	PUSAULLI-VARANASI	1	0	137	0.0	3.6	-3.6	
7	400 kV	PUSAULLI-ALLAHABAD	1	0	137	0.0	2.3	-2.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	591	0.0	10.0	-10.0	
9	400 kV	PATNA-BALIA	4	0	490	0.0	5.6	-5.6	
10	400 kV	BIHARSHARIFF-BALIA	2	54	194	0.0	1.3	-1.3	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	310	0.0	5.4	-5.4	
12	400 kV	BIHARSHARIFF-VARANASI	2	48	199	0.0	1.0	-1.0	
13	220 kV	PUSAULLI-SAHUPURI	1	17	50	0.0	0.6	-0.6	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	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-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.3	71.2	-70.9
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	803	162	4.6	0.0	4.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	215	786	0.0	6.1	-6.1	
3	765 kV	JHARSUGUDA-DURG	2	90	182	0.0	0.8	-0.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	39	317	0.0	4.0	-4.0	
5	400 kV	RANCHI-SIPAT	2	88	206	0.0	1.7	-1.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	166	0.0	2.5	-2.5	
7	220 kV	BUDHIPADAR-KORBA	2	178	0	2.7	0.0	2.7	
						ER-WR	7.3	15.1	-7.8
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEVPORE-GAZIYAKA B/B	2	0	465	0.0	10.0	-10.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1974	0.0	36.6	-36.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3191	0.0	56.7	-56.7	
4	400 kV	TALCHER-IC	2	75	688	0.0	4.9	-4.9	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	103.3	-103.3
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	339	0.0	5.5	-5.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	32	487	0.0	6.1	-6.1	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	125	0.0	1.7	-1.7	
						ER-NER	0.0	13.2	-13.2
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.4	-16.4	
						NER-NR	0.0	16.4	-16.4
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1014	0.0	24.0	-24.0	
2	HVDC	VINDHYACHAL B/B	-	451	200	3.5	2.9	0.6	
3	HVDC	MUNDIRA-MOHINDERGARH	2	0	472	0.0	11.6	-11.6	
4	765 kV	GWALIOR-AGRA	2	0	1122	0.0	17.1	-17.1	
5	765 kV	GWALIOR-PHAGI	2	0	1907	0.0	36.0	-36.0	
6	765 kV	JABALPUR-ORAI	2	0	446	0.0	14.4	-14.4	
7	765 kV	GWALIOR-ORAI	1	804	0	15.9	0.0	15.9	
8	765 kV	SATNA-ORAI	1	0	856	0.0	18.8	-18.8	
9	765 kV	BANASKANTHA-CHITORGARH	2	1636	0	29.2	0.0	29.2	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1924	0.0	28.4	-28.4	
11	400 kV	ZERDA-KANKROLI	1	352	0	6.3	0.0	6.3	
12	400 kV	ZERDA-BHINMAL	1	442	0	7.4	0.0	7.4	
13	400 kV	VINDHYACHAL-RIHAND	1	952	0	21.9	0.0	21.9	
14	400 kV	RAPP-SHUJALPUR	2	29	185	0.0	1.7	-1.7	
15	220 kV	BHANPURA-RANPUR	1	35	31	0.2	0.1	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.9	0.0	0.9	
17	220 kV	MEHGAON-AURAIYA	1	107	0	1.2	0.0	1.2	
18	220 kV	MALANPUR-AURAIYA	1	80	0	1.7	0.0	1.7	
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	88.2	155.0	-66.8
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	994	0	24.0	0.0	24.0	
2	HVDC	RAIGARH-PUGALUR	2	973	0	20.2	0.0	20.2	
3	765 kV	SOLAPUR-RAICHUR	2	445	2613	0.0	19.9	-19.9	
4	765 kV	WARDHA-NIZAMABAD	2	0	2946	0.0	45.7	-45.7	
5	400 kV	KOLHAPUR-KUDGI	2	1112	0	18.1	0.0	18.1	
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	81	1.6	0.0	1.6	
						WR-SR	63.8	65.6	-1.8

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

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)	827	590	688	16.5
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1009	720	891	21.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	259	0	156	3.8
	NER	132kV GELEPHU-SALAKATI	43	18	29	0.7
	NER	132kV MOTANGA-RANGIA	41	7	27	0.6
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-56	0	-4	-0.1
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	151	0	68	1.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-736	-485	-720	-17.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-135	0	-125	-3.0