



**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: 22<sup>nd</sup> November 2022

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 21.11.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्र वध न केअन र, दिनंक 21-नवंबर-2022 की अखिल भारतीय प्रण ली की दैनिक ग्रिड निष्प दन रिपोर्ट र ंभ ंप्रे ंके की वेब इट पर उप्लब्ध 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 21<sup>st</sup> November 2022, 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: 22-Nov-2022

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)	48143	55062	39450	19704	2546	164905
Peak Shortage (MW)	120	0	0	518	0	638
Energy Met (MU)	1044	1350	918	392	46	3751
Hydro Gen (MU)	131	31	102	39	15	318
Wind Gen (MU)	14	53	13	-	-	80
Solar Gen (MU)*	105.00	51.30	80.01	4.88	0.85	242
Energy Shortage (MU)	2.79	0.00	0.00	5.17	0.00	7.96
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51857	64960	46273	20335	2675	182001
Time Of Maximum Demand Met (From NLDC SCADA)	11:47	10:51	09:31	18:37	17:33	09:56

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	0.039	0.00	0.02	6.74	6.76	78.44	14.80

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	6208	0	124.5	44.0	-0.4	102	0.00
	Haryana	6919	0	127.7	72.5	-1.2	226	0.00
	Rajasthan	15532	0	299.0	106.6	3.1	624	0.00
	Delhi	3529	0	64.0	57.8	-1.5	174	0.00
	UP	16500	0	301.0	92.9	0.3	364	0.00
	Uttarakhand	1818	150	35.9	23.1	0.8	168	0.97
	HP	1889	0	32.8	21.3	0.3	73	0.00
	J&K(UT) & Ladakh(UT)	2575	280	55.4	47.5	1.2	795	1.82
	Chandigarh	196	0	3.2	3.3	-0.1	17	0.00
	Chhattisgarh	3911	0	83.6	31.5	-1.0	212	0.00
WR	Gujarat	19704	0	398.2	239.8	-0.7	560	0.00
	MP	15500	0	304.1	189.3	-2.5	633	0.00
	Maharashtra	24671	0	510.5	164.2	1.5	785	0.00
	Goa	593	0	10.5	11.4	-1.5	21	0.00
	DNHDDPDCL	1166	0	26.2	26.2	0.0	58	0.00
	AMNSIL	810	0	17.3	10.8	0.2	273	0.00
SR	Andhra Pradesh	8896	0	176.1	81.5	0.2	422	0.00
	Telangana	9220	0	162.9	50.8	0.7	728	0.00
	Karnataka	12448	0	214.5	74.0	0.3	1079	0.00
	Kerala	3826	0	73.6	51.7	0.0	165	0.00
	Tamil Nadu	13892	0	283.1	164.6	1.3	955	0.00
	Puducherry	377	0	8.0	7.6	-0.3	17	0.00
ER	Bihar	4403	0	77.3	65.5	0.4	212	0.18
	DVC	3243	0	67.9	-43.1	-0.6	259	0.00
	Jharkhand	1501	0	27.1	18.8	-0.2	405	4.99
	Odisha	4950	0	98.3	25.9	-1.2	482	0.00
	West Bengal	6574	0	120.0	-10.8	0.0	342	0.00
NER	Sikkim	111	0	1.7	1.5	0.2	61	0.00
	Arunachal Pradesh	137	0	2.2	2.0	0.0	36	0.00
	Assam	1506	0	26.0	17.9	0.9	118	0.00
	Manipur	210	0	2.8	3.0	-0.1	23	0.00
	Meghalaya	365	0	6.7	5.1	0.1	44	0.00
	Mizoram	126	0	1.8	1.8	-0.2	20	0.00
	Nagaland	159	0	2.1	1.8	0.0	41	0.00
	Tripura	236	0	3.9	2.7	0.0	30	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.7	7.6	-22.2
Day Peak (MW)	367.5	352.0	-1037.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	172.9	-50.0	90.6	-208.2	-5.3	0.0
Actual(MU)	160.7	-54.9	101.2	-202.9	-6.0	-1.9
O/D/U/D(MU)	-12.2	-5.0	10.6	5.3	-0.7	-1.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7307	12046	7248	2190	584	29374	46
State Sector	10190	13837	8578	1810	142	34556	54
Total	17497	25882	15826	4000	725	63930	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	624	1244	495	569	10	2942	75
Lignite	27	13	44	0	0	84	2
Hydro	132	31	102	39	15	319	8
Nuclear	26	36	71	0	0	133	3
Gas, Naptha & Diesel	14	5	5	0	31	56	1
RES (Wind, Solar, Biomass & Others)	137	105	138	5	1	385	10
Total	962	1434	853	613	57	3919	100

Share of RES in total generation (%)	14.27	7.32	16.12	0.79	1.49	9.83
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.74	12.02	36.32	7.16	27.73	21.37

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.064

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: 22-Nov-2022

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	0	0.0	0.0	0.0	
2	HVDC	PUSAULI B/B	2	2	346	0.0	7.8	-7.8	
3	765 kV	GAYA-VARANASI	2	0	852	0.0	13.4	-13.4	
4	765 kV	SASARAM-FATEHPUR	1	0	581	0.0	9.6	-9.6	
5	765 kV	GAYA-BALIA	1	0	648	0.0	12.1	-12.1	
6	400 kV	PUSAULI-VARANASI	1	1	350	0.0	5.5	-5.5	
7	400 kV	PUSAULI-ALLAHABAD	1	0	205	0.0	2.3	-2.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	870	0.0	15.3	-15.3	
9	400 kV	PATNA-BALIA	2	0	833	0.0	14.2	-14.2	
10	400 kV	NAUBATPUR-BALIA	2	0	757	0.0	10.9	-10.9	
11	400 kV	BIHARSHARIFF-BALIA	2	0	567	0.0	9.5	-9.5	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	561	0.0	9.6	-9.6	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	373	0.0	5.9	-5.9	
14	220 kV	SAHUPUR-KARMANASA	1	0	108	0.0	1.3	-1.3	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4	
17	132 kV	KARMANASA-SAHUPURI	1	0	29	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	22	22	0.0	0.1	-0.1	
						ER-NR	0.4	117.4	-117.0
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	435	289	2.2	0.0	2.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	403	573	0.0	1.1	-1.1	
3	765 kV	JHARSUGUDA-DURG	2	0	767	0.0	10.7	-10.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	81	431	0.0	4.6	-4.6	
5	400 kV	RANCHI-SIPAT	2	142	205	0.0	0.9	-0.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	7	112	0.0	1.5	-1.5	
7	220 kV	BUDHIPADAR-KORBA	2	118	38	0.6	0.0	0.6	
						ER-WR	2.8	18.9	-16.1
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	549	0.0	12.5	-12.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1997	0.0	45.2	-45.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2766	0.0	49.0	-49.0	
4	400 kV	TALCHER-I/C	2	0	675	0.0	10.1	-10.1	
5	220 kV	BALMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	106.7	-106.7
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	224	0.0	2.6	-2.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	77	291	0.0	2.9	-2.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	5	28	0.0	0.3	-0.3	
						ER-NER	0.0	5.8	-5.8
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	502	0.0	12.0	-12.0	
						NER-NR	0.0	12.0	-12.0
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	351	0.0	8.3	-8.3	
2	HVDC	VINDHYACHAL B/B	2	433	0	12.1	0.0	12.1	
3	HVDC	MUNDRA-MOHENDERGARH	2	1444	0	29.0	0.0	29.0	
4	765 kV	GWALIOR-AGRA	2	0	1526	0.0	22.4	-22.4	
5	765 kV	GWALIOR-PHAGI	2	0	2148	0.0	37.7	-37.7	
6	765 kV	JABALPUR-ORAI	2	0	809	0.0	30.0	-30.0	
7	765 kV	GWALIOR-ORAI	1	1022	0	17.0	0.0	17.0	
8	765 kV	SATNA-ORAI	1	0	974	0.0	20.1	-20.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	1773	0	26.4	0.0	26.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2169	0.0	35.6	-35.6	
11	400 kV	ZERDA-KANKROLI	1	291	64	3.7	0.0	3.7	
12	400 kV	ZERDA-JBHINMAL	1	413	153	3.0	0.0	3.0	
13	400 kV	VINDHYACHAL-RIHAND	1	979	0	21.8	0.0	21.8	
14	400 kV	RAPP-SHULIAPUR	2	328	461	0.0	1.6	-1.6	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	2	0	30	0.0	1.7	-1.7	
17	220 kV	MEHGAON-AURAIYA	1	127	0	1.0	0.0	1.0	
18	220 kV	MALANPUR-AURAIYA	1	99	0	1.6	0.0	1.6	
19	132 kV	GWALIOR-SAWAIMADHOPUR	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	115.6	157.3	-41.6
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	297	0	7.2	0.0	7.2	
2	HVDC	RAIGARH-PUGALUR	2	0	453	0.0	10.9	-10.9	
3	765 kV	SOLAPUR-RAICHUR	2	437	1904	0.0	13.2	-13.2	
4	765 kV	WARDHA-NIZAMABAD	2	0	2378	0.0	32.5	-32.5	
5	400 kV	KOLHAPUR-KUDCI	2	1135	0	18.0	0.0	18.0	
6	220 kV	KOLHAPUR-CHIKODI	1	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	109	2.1	0.0	2.1	
						WR-SR	27.3	56.7	-29.4
<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)	64	0	33	0.78			
		400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	281	0	267	6.41			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.76			
	NER	132KV GELEPHU-SALAKATI	5	1	2	0.04			
	NER	132KV MOTANGA-RANGIA	13	2	9	0.21			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.00			
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	352	230	318	7.62			
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-914	-675	-820	-19.68			
BANGLADESH	NER	132KV COMILLA-SURAJMANJANAGAR 1&2	-123	0	-106	-2.54			