



**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> 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 19.11.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-नवंबर-2022 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> 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: 20-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)	47789	55641	40705	19336	2554	166025
Peak Shortage (MW)	135	0	0	599	0	734
Energy Met (MU)	1046	1356	924	393	46	3764
Hydro Gen (MU)	132	30	88	42	15	307
Wind Gen (MU)	3	34	28	-	-	65
Solar Gen (MU)*	105.12	53.67	108.36	5.05	0.86	273
Energy Shortage (MU)	1.88	0.00	0.00	2.45	0.00	4.33
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51957	64020	45111	19578	2722	179608
Time Of Maximum Demand Met (From NLDC SCADA)	11:56	10:42	09:42	17:40	17:19	10:53

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	0.028	0.00	0.14	3.19	3.33	79.11	17.56

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	6715	0	128.0	39.0	-1.0	80	0.00
	Haryana	6806	0	129.8	67.9	0.1	255	0.00
	Rajasthan	15428	0	297.7	112.8	1.0	257	0.00
	Delhi	3439	0	62.5	56.1	-1.3	84	0.00
	UP	15632	0	300.0	75.3	0.4	402	0.00
	Uttarakhand	1888	150	36.4	23.7	0.6	152	1.07
	HP	1846	0	33.1	21.0	0.2	60	0.00
	J&K(UT) & Ladakh(UT)	2624	100	55.5	49.7	-0.4	223	0.81
	Chandigarh	182	0	3.3	3.3	-0.1	16	0.00
	Chhattisgarh	3869	0	83.8	30.6	-0.7	192	0.00
WR	Gujarat	19077	0	394.1	233.6	0.8	534	0.00
	MP	15240	0	305.6	187.4	-2.0	683	0.00
	Maharashtra	24786	0	518.6	161.6	1.4	972	0.00
	Goa	617	0	11.5	12.2	-1.3	30	0.00
	DNHDDPDCL	1145	0	26.7	26.5	0.2	74	0.00
	AMNSIL	805	0	15.3	8.6	0.4	261	0.00
SR	Andhra Pradesh	9261	0	184.0	81.2	-0.6	540	0.00
	Telangana	9122	0	162.0	59.1	0.2	597	0.00
	Karnataka	11990	0	213.9	73.5	-0.3	1162	0.00
	Kerala	3698	0	74.1	55.0	0.4	219	0.00
	Tamil Nadu	13886	0	281.0	165.7	0.6	588	0.00
	Puducherry	388	0	8.5	8.3	-0.4	30	0.00
ER	Bihar	4333	0	78.9	65.3	1.6	335	0.03
	DVC	3296	0	69.1	-42.0	-0.6	294	0.00
	Jharkhand	1470	0	27.4	17.9	0.6	232	2.42
	Odisha	4739	0	94.6	23.9	-0.7	441	0.00
	West Bengal	6448	0	121.0	-14.2	-0.3	303	0.00
	Sikkim	106	0	1.6	1.4	0.2	55	0.00
NER	Arunachal Pradesh	132	0	2.3	2.0	0.1	39	0.00
	Assam	1545	0	26.4	19.4	0.1	101	0.00
	Manipur	216	0	2.9	3.0	-0.1	26	0.00
	Meghalaya	395	0	6.7	4.8	0.2	59	0.00
	Mizoram	129	0	1.9	1.8	-0.1	9	0.00
	Nagaland	130	0	2.1	1.7	0.1	27	0.00
	Tripura	227	0	3.9	2.6	-0.2	31	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.6	7.3	-18.9
Day Peak (MW)	363.0	377.0	-1041.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	157.1	-28.6	92.6	-217.4	-3.7	0.0
Actual(MU)	146.6	-24.0	94.7	-215.6	-4.7	-3.0
O/D/U/D(MU)	-10.6	4.7	2.1	1.8	-1.0	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7307	14026	7248	2790	734	32104	49
State Sector	9280	14582	8258	1600	142	33861	51
Total	16587	28607	15506	4390	875	65965	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	654	1240	479	568	10	2952	75
Lignite	28	14	45	0	0	88	2
Hydro	133	30	88	42	15	308	8
Nuclear	26	36	71	0	0	133	3
Gas, Naptha & Diesel	12	2	2	0	30	46	1
RES (Wind, Solar, Biomass & Others)	126	89	188	5	1	409	10
Total	979	1411	872	615	56	3935	100

	NR	WR	SR	ER	NER	TOTAL
Share of RES in total generation (%)	12.71	6.29	21.51	0.82	1.52	10.34
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.99	10.97	39.67	7.64	28.04	21.54

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.067

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-Nov-2022			
						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	0	346	0.0	8.8	-8.8	
3	765 kV	GAYA-VARANASI	2	0	845	0.0	14.9	-14.9	
4	765 kV	SASARAM-FATEHPUR	1	0	556	0.0	10.0	-10.0	
5	765 kV	GAYA-BALIA	1	0	572	0.0	10.6	-10.6	
6	400 kV	PUSAULI-VARANASI	1	0	196	0.0	2.6	-2.6	
7	400 kV	PUSAULI-ALLAHABAD	1	0	361	0.0	6.0	-6.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	767	0.0	13.2	-13.2	
9	400 kV	PATNA-BALIA	2	0	588	0.0	12.0	-12.0	
10	400 kV	NAUBATPUR-BALIA	2	0	619	0.0	12.1	-12.1	
11	400 kV	BIHARSHARIFF-BALIA	2	0	469	0.0	8.6	-8.6	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	481	0.0	9.3	-9.3	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	376	0.0	6.7	-6.7	
14	220 kV	SINPUR-BIKRAMNASHA	1	0	113	0.0	1.6	-1.6	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1	
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3	
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	116.5	-116.1
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	328	519	0.0	1.6	-1.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	185	917	0.0	6.3	-6.3	
3	765 kV	JHARSUGUDA-DURG	2	0	554	0.0	12.8	-12.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	32	537	0.0	5.9	-5.9	
5	400 kV	RANCHI-SIPAT	2	11	320	0.0	3.5	-3.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	138	0.0	1.9	-1.9	
7	220 kV	BUDHIPADAR-KORBA	2	83	58	0.3	0.0	0.3	
						ER-WR	0.3	31.9	-31.6
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	550	0.0	12.5	-12.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	40.9	-40.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2686	0.0	49.2	-49.2	
4	400 kV	TALCHER-T/C	2	0	659	0.0	7.8	-7.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	102.6	-102.6
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	61	307	0.0	3.1	-3.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	115	383	0.0	3.8	-3.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	22	28	0.0	0.1	-0.1	
						ER-NER	0.0	7.0	-7.0
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	506	0.0	11.9	-11.9	
						NER-NR	0.0	11.9	-11.9
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	3	2336	0.0	25.2	-25.2	
2	HVDC	VINDHYACHAL B/B	2	435	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	976	0	18.6	0.0	18.6	
4	765 kV	GWALIOR-AGRA	2	211	1455	0.1	17.1	-17.0	
5	765 kV	GWALIOR-PHAGI	2	0	2096	0.0	36.5	-36.5	
6	765 kV	JABALPUR-ORAI	2	0	729	0.0	22.8	-22.8	
7	765 kV	GWALIOR-ORAI	1	1005	0	18.9	0.0	18.9	
8	765 kV	SATNA-ORAI	1	0	840	0.0	17.5	-17.5	
9	765 kV	BANASKANTHA-CHITORGARH	2	2024	0	33.4	0.0	33.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1654	0.0	25.1	-25.1	
11	400 kV	ZERDA-KANKROLI	1	332	291	5.1	0.0	5.1	
12	400 kV	ZERDA-BHINMAL	1	462	77	5.1	0.0	5.1	
13	400 kV	VINDHYACHAL-RIHAND	1	973	0	21.2	0.0	21.2	
14	400 kV	RAPP-SHULIAPUR	2	373	361	2.0	0.0	0.0	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.9	-1.9	
17	220 kV	MEHGAON-AURAIYA	1	129	0	1.2	0.0	1.2	
18	220 kV	MALANPUR-AURAIYA	1	97	0	1.8	0.0	1.8	
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	119.5	148.1	-28.6
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	297	515	2.1	8.5	-6.4	
2	HVDC	RAIGARH-PUGALUR	2	0	850	0.0	9.0	-9.0	
3	765 kV	SOLAPUR-RAICHUR	2	1643	1512	4.8	10.3	-5.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2312	0.0	28.6	-28.6	
5	400 kV	KOLHAPUR-KUDCI	2	1420	0	20.2	0.0	20.2	
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	107	2.2	0.0	2.2	
						WR-SR	29.3	56.3	-27.0
<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)	22	0	22	0.9			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	250	0	250	6.6			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0.0			
	NER	132KV GELEPHU-SALAKATI	-5	0	-1	0.0			
	NER	132KV MOTANGA-RANGIA	31	5	10	0.2			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0			
	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	377	231	305	7.3			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-917	-579	-691	-16.6			
	NER	132KV COMILLA-SURAJMANJANAGAR 1&2	-124	0	-98	-2.4			