



**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: 23<sup>rd</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 22.11.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22<sup>nd</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: 23-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)	48138	55998	41229	19335	2579	167279
Peak Shortage (MW)	0	0	0	541	0	541
Energy Met (MU)	1059	1366	934	398	46	3803
Hydro Gen (MU)	137	35	104	41	15	331
Wind Gen (MU)	2	38	18	-	-	59
Solar Gen (MU)*	105.16	51.63	80.73	5.09	0.87	243
Energy Shortage (MU)	1.63	0.00	0.00	4.50	0.00	6.13
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52852	65358	45815	20042	2743	182699
Time Of Maximum Demand Met (From NLDC SCADA)	10:37	10:37	09:27	17:49	17:19	10:37

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	0.049	0.00	1.20	12.15	13.35	74.73	11.92

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	6600	0	128.9	41.7	-1.5	134	0.00
	Haryana	6868	0	131.6	74.9	-0.2	145	0.00
	Rajasthan	15401	0	299.4	110.4	0.2	410	0.00
	Delhi	3591	0	66.0	58.8	-1.2	149	0.00
	UP	16503	0	304.5	87.0	1.3	518	0.52
	Uttarakhand	1890	150	36.7	24.9	-0.1	120	0.75
	HP	1881	0	33.1	22.3	-0.2	45	0.00
	J&K(UT) & Ladakh(UT)	2580	0	56.0	49.5	-0.2	131	0.36
	Chandigarh	198	0	3.3	3.2	0.2	54	0.00
	Chhattisgarh	3982	0	85.1	32.4	0.1	169	0.00
WR	Gujarat	19518	0	397.5	244.3	-1.3	527	0.00
	MP	15294	0	305.4	191.8	-2.0	590	0.00
	Maharashtra	25242	0	522.7	163.7	0.1	828	0.00
	Goa	617	0	11.0	11.8	-1.4	41	0.00
	DNHDDPDCL	1173	0	27.0	26.9	0.1	76	0.00
	AMNSIL	771	0	17.1	10.2	0.5	297	0.00
SR	Andhra Pradesh	8964	0	178.4	73.7	0.1	936	0.00
	Telangana	9218	0	166.7	50.4	-0.1	548	0.00
	Karnataka	11813	0	214.3	80.3	0.4	909	0.00
	Kerala	3733	0	74.7	52.9	0.0	209	0.00
	Tamil Nadu	14459	0	291.5	179.8	2.2	901	0.00
	Puducherry	403	0	8.6	8.0	-0.2	36	0.00
ER	Bihar	4353	0	79.2	64.9	1.2	139	0.11
	DVC	3272	0	70.2	-43.9	0.8	178	0.00
	Jharkhand	1428	0	27.3	18.2	-0.2	144	4.39
	Odisha	5111	0	97.3	25.2	-1.2	255	0.00
	West Bengal	6626	0	122.6	-7.9	0.3	244	0.00
	Sikkim	118	0	1.8	1.5	0.3	62	0.00
NER	Arunachal Pradesh	136	0	2.1	1.9	0.0	63	0.00
	Assam	1554	0	26.3	20.0	0.5	120	0.00
	Manipur	213	0	2.9	2.9	-0.1	78	0.00
	Meghalaya	380	0	6.7	5.3	0.1	299	0.00
	Mizoram	132	0	1.8	1.7	-0.2	12	0.00
	Nagaland	158	0	2.2	1.9	0.0	20	0.00
	Tripura	228	0	3.9	2.7	-0.2	11	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.8	5.0	-22.1
Day Peak (MW)	330.0	297.0	-1021.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	177.5	-51.6	84.3	-207.0	-3.2	0.0
Actual(MU)	165.5	-56.8	73.8	-210.2	-3.8	-31.5
O/D/U/D(MU)	-12.0	-5.2	-10.5	-3.3	-0.6	-31.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7192	13366	8048	3540	584	32729	51
State Sector	8035	13387	8158	2020	142	31741	49
Total	15227	26752	16206	5560	725	64470	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	644	1271	503	576	11	3006	76
Lignite	28	12	45	0	0	85	2
Hydro	138	35	104	41	15	331	8
Nuclear	26	36	69	0	0	131	3
Gas, Naptha & Diesel	15	7	4	0	29	55	1
RES (Wind, Solar, Biomass & Others)	127	91	140	5	1	363	9
Total	978	1452	863	622	56	3971	100

Share of RES in total generation (%)	12.95	6.23	16.16	0.83	1.57	9.13
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.70	11.13	36.12	7.35	27.82	20.78

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: 23-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	-	0	348	0.0	8.5	-8.5	
3	765 kV	GAYALYARANASI	2	0	731	0.0	13.5	-13.5	
4	765 kV	SASARAM-FATEHPUR	1	0	444	0.0	8.6	-8.6	
5	765 kV	GAYA-BALIA	1	0	649	0.0	13.7	-13.7	
6	400 kV	PUSAULI-VARANASI	1	0	226	0.0	4.5	-4.5	
7	400 kV	PUSAULI-ALLAHABAD	1	0	190	0.0	3.8	-3.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	817	0.0	14.2	-14.2	
9	400 kV	PATNA-BALIA	2	0	799	0.0	16.4	-16.4	
10	400 kV	NAUBATPUR-BALIA	2	0	770	0.0	13.5	-13.5	
11	400 kV	BIHARSHARIFF-BALIA	2	0	557	0.0	10.4	-10.4	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	542	0.0	10.2	-10.2	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	353	0.0	6.5	-6.5	
14	220 kV	SAHUPUR-KARMANASA	1	3	143	0.0	1.1	-1.1	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.2	0.0	-0.2	
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4	
17	132 kV	KARMANASA-SAHUPURI	1	0	41	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	22	0.0	0.0	0.0	
						ER-NR	0.6	124.9	-124.3
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	440	409	0.1	0.0	0.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	232	691	0.0	1.4	-1.4	
3	765 kV	JHARSUGUDA-DURG	2	0	522	0.0	9.0	-9.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	28	411	0.0	4.2	-4.2	
5	400 kV	RANCHI-SIPAT	2	61	250	0.0	1.6	-1.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	10	122	0.0	1.5	-1.5	
7	220 kV	BUDHIPADAR-KORBA	2	118	55	0.5	0.0	0.5	
						ER-WR	0.6	17.7	-17.1
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	549	0.0	12.3	-12.3	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1648	0.0	39.7	-39.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2800	0.0	50.6	-50.6	
4	400 kV	TALCHER-I/C	2	0	345	0.0	6.5	-6.5	
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	0	222	0.0	3.2	-3.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	94	268	0.0	4.0	-4.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	2	27	0.0	0.4	-0.4	
						ER-NER	0.0	7.6	-7.6
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	501	0.0	11.3	-11.3	
						NER-NR	0.0	11.3	-11.3
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	351	0.0	8.5	-8.5	
2	HVDC	VINDHYACHAL B/B	-	437	0	12.1	0.0	12.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	1165	0	0.1	27.1	-27.1	
4	765 kV	GWALIOR-AGRA	2	0	1055	0.1	17.4	-17.3	
5	765 kV	GWALIOR-PHAGI	2	0	2216	0.0	40.5	-40.5	
6	765 kV	JABALPUR-ORAI	2	0	813	0.0	29.0	-29.0	
7	765 kV	GWALIOR-ORAI	1	961	0	16.1	0.0	16.1	
8	765 kV	SATNA-ORAI	1	0	982	0.0	20.5	-20.5	
9	765 kV	BANASKANTHA-CHITORGARH	2	2023	0	31.4	0.0	31.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2164	0.0	38.5	-38.5	
11	400 kV	ZERDA-KANKROLI	1	295	0	4.1	0.0	4.1	
12	400 kV	ZERDA-JBHINMAL	1	435	126	3.7	0.0	3.7	
13	400 kV	VINDHYACHAL-RIHAND	1	967	0	22.0	0.0	22.0	
14	400 kV	RAPP-SHULIAPUR	2	284	376	1.0	3.7	-2.7	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6	
17	220 kV	MEHGAON-AURAIYA	1	127	0	1.0	0.0	1.0	
18	220 kV	MALANPUR-AURAIYA	1	98	0	1.5	0.0	1.5	
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	93.0	186.6	-93.6
<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	602	0.0	11.1	-11.1	
3	765 kV	SOLAPUR-RAICHUR	2	697	1792	1.0	15.2	-14.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2470	0.0	34.3	-34.3	
5	400 kV	KOLHAPUR-KUDCI	2	1065	0	15.9	0.0	15.9	
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	114	2.1	0.0	2.1	
						WR-SR	26.1	60.6	-34.5
<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)	57	0	41	0.98			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	273	0	264	6.34			
	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	4	0	0	0.01			
	NER	132KV MOTANGA-RANGIA	17	0	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	297	139	208	4.98			
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-912	-676	-821	-19.71			
	NER	132KV COMILLA-SURAJMANJANAGAR 1&2	-109	0	-99	-2.38			