



**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: 24<sup>nd</sup> Jan 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 23.01.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-जनवरी-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 23<sup>st</sup> January 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: 24-Jan-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)	50093	51030	38419	19572	2598	161712
Peak Shortage (MW)	250	0	0	95	0	345
Energy Met (MU)	956	1188	958	390	46	3537
Hydro Gen (MU)	93	22	68	22	9	215
Wind Gen (MU)	2	52	67	-	-	121
Solar Gen (MU)*	62.75	35.40	111.06	4.22	0.19	214
Energy Shortage (MU)	4.65	0.00	0.00	3.06	0.00	7.71
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50093	58276	44871	19879	2651	170986
Time Of Maximum Demand Met (From NLDC SCADA)	19:00	10:31	09:44	19:16	17:57	10:39

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	0.030	0.00	0.82	1.05	1.87	76.91	21.21

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	5755	0	110.9	43.9	-0.9	124	0.00
	Haryana	5375	0	104.7	54.9	0.5	253	0.00
	Rajasthan	13622	0	243.4	65.2	-0.1	444	0.00
	Delhi	4151	0	67.0	55.3	-0.7	253	0.00
	UP	18090	0	292.2	82.5	-5.6	839	0.00
	Uttarakhand	2146	0	40.5	30.8	0.3	131	0.00
	HP	1702	0	31.5	23.8	-0.9	53	0.00
	J&K(UT) & Ladakh(UT)	2994	250	61.7	54.8	1.9	732	4.65
WR	Chandigarh	219	0	4.0	4.0	-0.1	34	0.00
	Chhattisgarh	3733	0	81.6	30.7	-0.9	258	0.00
	Gujarat	16321	0	337.0	194.9	2.4	592	0.00
	MP	12553	0	237.7	144.7	-1.4	743	0.00
	Maharashtra	23996	0	475.3	142.6	-4.9	708	0.00
	Goa	505	0	10.4	10.1	-0.2	109	0.00
	DD	318	0	7.2	6.8	0.4	26	0.00
	DNH	820	0	19.2	19.1	0.1	51	0.00
SR	AMNSIL	841	0	19.3	9.8	0.1	253	0.00
	Andhra Pradesh	9972	0	186.9	68.6	0.9	438	0.00
	Telangana	10915	0	201.5	89.2	1.0	530	0.00
	Karnataka	12080	0	213.8	74.7	-1.9	542	0.00
	Kerala	3294	0	67.4	50.0	-0.2	276	0.00
	Tamil Nadu	12965	0	281.1	163.4	-2.1	489	0.00
	Puducherry	339	0	6.9	7.2	-0.2	36	0.00
	ER	Bihar	4891	0	80.9	72.7	-0.4	426
DVC		3103	27	68.0	-42.2	0.0	207	2.36
Jharkhand		1672	0	29.2	21.4	-1.3	126	0.00
Odisha		5377	0	98.0	40.6	-0.5	393	0.00
West Bengal		5772	0	112.2	-6.1	0.2	328	0.00
Sikkim		101	0	1.6	1.8	-0.2	35	0.00
NER	Arunachal Pradesh	152	0	2.7	2.5	0.0	31	0.00
	Assam	1467	0	24.7	19.5	0.0	89	0.00
	Manipur	238	0	3.4	3.6	-0.2	25	0.00
	Meghalaya	393	0	7.6	5.8	0.2	41	0.00
	Mizoram	129	0	2.0	1.6	-0.3	4	0.00
	Nagaland	147	0	2.3	2.2	0.0	20	0.00
	Tripura	226	0	3.6	1.5	-0.3	45	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.1	-8.3	-18.7
Day Peak (MW)	-305.0	-560.0	-826.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	162.6	-116.7	104.8	-154.5	3.8	0.0
Actual(MU)	147.8	-103.9	103.6	-154.4	3.7	-3.3
O/D/U/D(MU)	-14.8	12.8	-1.2	0.1	-0.1	-3.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6153	15228	5612	956	639	28587	42
State Sector	7945	18271	10368	3500	11	40095	58
Total	14098	33498	15980	4456	650	68682	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	578	1153	470	555	7	2763	76
Lignite	23	13	41	0	0	78	2
Hvdro	93	22	68	22	9	215	6
Nuclear	29	21	69	0	0	119	3
Gas, Naptha & Diesel	15	11	9	0	29	64	2
RES (Wind, Solar, Biomass & Others)	91	89	205	4	0	389	11
Total	829	1308	863	581	46	3627	100

Share of RES in total generation (%)	10.94	6.77	23.75	0.73	0.41	10.72
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.64	10.07	39.67	4.51	21.03	19.92

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.090

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: 24-Jan-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	0	0.0	0.0	0.0	
3	765 kV	GAYA-VARANASI	2	0	956	0.0	10.0	-10.0	
4	765 kV	SASARAM-FATEHPUR	1	0	591	0.0	8.6	-8.6	
5	765 kV	GAYA-BALIA	1	0	562	0.0	8.2	-8.2	
6	400 kV	PUSAULI-VARANASI	1	0	153	0.0	2.2	-2.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	173	0.0	1.8	-1.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	876	0.0	9.5	-9.5	
9	400 kV	PATNA-BALIA	4	0	1191	0.0	16.8	-16.8	
10	400 kV	BIHARSHARIF-BALIA	2	57	308	0.0	2.8	-2.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	535	0.0	7.2	-7.2	
12	400 kV	BIHARSHARIF-VARANASI	2	0	473	0.0	5.7	-5.7	
13	220 kV	PUSAULI-SAHUPURI	1	2	0	0.0	0.0	0.0	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	25	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-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.3	72.7	-72.5
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	747	703	0.0	2.4	-2.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	375	985	0.0	4.1	-4.1	
3	765 kV	JHARSUGUDA-DURG	2	0	584	0.0	7.5	-7.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	104	501	0.0	4.7	-4.7	
5	400 kV	RANCHI-SIPAT	2	67	319	0.0	1.7	-1.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	148	0.0	2.0	-2.0	
7	220 kV	BUDHIPADAR-KORBA	2	105	5	1.2	0.0	1.2	
						ER-WR	1.2	22.3	-21.1
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	447	0.0	10.0	-10.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	44.3	-44.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3119	0.0	54.1	-54.1	
4	400 kV	TALCHER/JC	2	270	967	0.0	4.4	-4.4	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	108.4	-108.4
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	269	0	2.2	0.0	2.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	371	0	4.4	0.0	4.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	57	0	0.7	0.0	0.7	
						ER-NER	7.4	0.0	7.4
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	490	0	11.6	0.0	11.6	
						NER-NR	11.6	0.0	11.6
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	998	0.0	24.1	-24.1	
2	HVDC	VINDHYACHAL B/B	-	184	0	4.8	0.0	4.8	
3	HVDC	MUNDRU-MOHENDERGARH	2	0	254	0.0	6.2	-6.2	
4	765 kV	GWALIOR-AGRA	2	0	1944	0.0	26.0	-26.0	
5	765 kV	GWALIOR-PHAGI	2	0	1899	0.0	28.7	-28.7	
6	765 kV	JABALPUR-ORAI	2	0	910	0.0	23.8	-23.8	
7	765 kV	GWALIOR-ORAI	1	967	0	15.7	0.0	15.7	
8	765 kV	SATNA-ORAI	1	0	998	0.0	18.4	-18.4	
9	765 kV	BANASKANTHA-CHITORGARH	2	1894	0	30.3	0.0	30.3	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2163	0.0	34.3	-34.3	
11	400 kV	ZERDA-KANKROLI	1	350	0	5.6	0.0	5.6	
12	400 kV	ZERDA-BHINMAL	1	347	42	4.7	0.0	4.7	
13	400 kV	VINDHYACHAL-RIHAND	1	483	0	10.8	0.0	10.8	
14	400 kV	RAPP-SHUJALPUR	2	218	344	1.4	1.7	-0.3	
15	220 kV	BHANPUR-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPUR-MORAK	1	0	30	0.0	0.9	-0.9	
17	220 kV	MEHGAON-AURAIYA	1	132	0	0.6	0.0	0.6	
18	220 kV	MALANPUR-AURAIYA	1	94	0	1.3	0.0	1.3	
19	132 kV	GWALIOR-SAWALMADHOPUR	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	75.2	163.9	-88.7
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	297	0	7.4	0.0	7.4	
2	HVDC	RAIGARH-PUGALUR	2	0	3003	0.0	24.0	-24.0	
3	765 kV	SOLAPUR-RAICHUR	2	1180	1601	5.4	11.7	-6.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2553	0.0	33.3	-33.3	
5	400 kV	KOLHAPUR-KUDGI	2	1318	0	18.8	0.0	18.8	
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	71	1.3	0.0	1.3	
						WR-SR	32.9	69.0	-36.1

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)	134	0	21	0.5
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW) 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	15	5	9	0.2
	NER	132kV MOTANGA-RANGIA	13	1	2	0.1
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
NEPAL	ER	NEPAL IMPORT (FROM BIHAR)	-239	-42	-101	-2.4
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-321	-52	-244	-5.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-733	-687	-723	-17.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-93	0	-55	-1.3