



**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> 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 21.01.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21<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: 22-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)	55254	55299	45759	20605	2691	179608
Peak Shortage (MW)	250	0	0	36	0	286
Energy Met (MU)	1082	1256	1012	415	46	3812
Hydro Gen (MU)	92	36	92	24	10	254
Wind Gen (MU)	25	93	21	-	-	139
Solar Gen (MU)*	55.59	36.74	109.59	4.69	0.35	207
Energy Shortage (MU)	6.52	0.00	0.00	3.29	0.00	9.81
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56938	62061	52077	20782	2758	190900
Time Of Maximum Demand Met (From NLDC SCADA)	11:12	10:37	11:43	18:21	17:51	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	0.048	0.00	1.47	6.03	7.50	72.06	20.44

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	7061	0	128.8	57.6	-2.6	108	0.00
	Haryana	6535	0	127.1	66.8	0.3	308	0.00
	Rajasthan	14842	0	267.5	61.6	-0.4	385	1.82
	Delhi	5040	0	79.1	67.3	-0.4	266	0.05
	UP	18912	0	333.1	107.0	-1.7	303	0.00
	Uttarakhand	2287	0	43.1	33.3	0.3	189	0.00
	HP	1994	0	35.8	27.6	0.3	307	0.00
	J&K(UT) & Ladakh(UT)	2971	250	63.2	57.1	1.3	274	4.65
	Chandigarh	262	0	4.2	4.5	-0.3	35	0.00
	Chhattisgarh	4008	0	83.9	32.5	0.0	281	0.00
WR	Gujarat	16938	0	357.0	186.5	-0.9	377	0.00
	MP	13690	0	260.1	153.8	-1.2	477	0.00
	Maharashtra	25023	0	498.8	147.7	-0.2	760	0.00
	Goa	583	0	12.0	11.3	0.3	33	0.00
	DD	329	0	7.4	7.3	0.1	63	0.00
	DNH	846	0	19.4	19.1	0.3	87	0.00
	AMNSIL	771	0	17.5	10.5	0.4	292	0.00
SR	Andhra Pradesh	9505	0	183.6	78.4	2.0	883	0.00
	Telangana	11229	0	205.4	101.2	-0.3	816	0.00
	Karnataka	13328	0	232.1	80.6	-0.4	656	0.00
	Kerala	3678	0	77.5	56.6	-0.2	248	0.00
	Tamil Nadu	14883	0	306.0	182.6	1.3	1423	0.00
	Puducherry	371	0	7.6	7.7	-0.1	75	0.00
ER	Bihar	5262	0	91.2	81.9	-1.3	409	0.14
	DVC	3154	0	68.9	-48.8	-0.7	390	2.25
	Jharkhand	1674	0	31.9	23.3	-0.8	227	0.90
	Odisha	5298	0	98.3	42.7	-0.4	404	0.00
	West Bengal	6445	0	123.3	7.7	0.0	398	0.00
NER	Sikkim	86	0	1.6	1.9	-0.3	50	0.00
	Arunachal Pradesh	152	0	2.4	2.5	-0.3	35	0.00
	Assam	1477	0	25.0	20.9	-0.2	98	0.00
	Manipur	248	0	3.3	3.4	-0.1	23	0.00
	Meghalaya	398	0	7.5	5.3	0.4	56	0.00
	Mizoram	144	0	1.9	1.7	-0.3	19	0.00
	Nagaland	166	0	2.6	2.0	0.4	28	0.00
	Tripura	225	0	3.7	1.8	-0.5	7	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.1	-9.8	-17.9
Day Peak (MW)	-334.0	-673.1	-829.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	217.9	-182.1	116.0	-156.9	5.0	0.0
Actual(MU)	206.5	-180.0	129.0	-166.6	4.7	-6.4
O/D/U/D(MU)	-11.5	2.1	13.1	-9.8	-0.3	-6.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6645	14378	5652	956	639	28269	41
State Sector	7755	18941	10258	3908	11	40872	59
Total	14400	33318	15910	4864	650	69141	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	634	1236	523	592	9	2993	77
Lignite	21	12	52	0	0	84	2
Hydro	92	36	93	24	10	254	6
Nuclear	28	21	60	0	0	109	3
Gas, Naptha & Diesel	15	10	9	0	27	61	2
RES (Wind, Solar, Biomass & Others)	109	131	160	5	0	404	10
Total	898	1446	896	620	46	3906	100
Share of RES in total generation (%)	12.12	9.05	17.83	0.76	0.76	10.36	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.48	12.99	34.87	4.59	21.89	19.65	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.047

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-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	3	0	0.0	0.0	0.0	
3	765 kV	GAYA-VARANASI	2	0	1019	0.0	13.5	-13.5	
4	765 kV	SASARAM-FATEHPUR	1	0	589	0.0	9.2	-9.2	
5	765 kV	GAYA-BALIA	1	0	583	0.0	9.8	-9.8	
6	400 kV	PUSAULI-VARANASI	1	1	122	0.0	1.5	-1.5	
7	400 kV	PUSAULI-ALLAHABAD	1	5	163	0.0	1.8	-1.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	843	0.0	11.0	-11.0	
9	400 kV	PATNA-BALIA	4	0	1323	0.0	22.2	-22.2	
10	400 kV	BIHARSHARIFF-BALIA	2	25	312	0.0	5.4	-5.4	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	531	0.0	8.5	-8.5	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	456	0.0	7.3	-7.3	
13	220 kV	PUSAULI-SAHUPURI	1	2	121	0.7	0.0	0.7	
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.1	0.0	0.1	
15	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4	
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	1.3	90.2	-89.0
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	849	370	4.8	0.0	4.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	320	605	0.0	2.9	-2.9	
3	765 kV	JHARSUGUDA-DURG	2	0	440	0.0	6.7	-6.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	21	443	0.0	4.4	-4.4	
5	400 kV	RANCHI-SIPAT	2	53	200	0.0	1.9	-1.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	139	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	2	89	0	1.2	0.0	1.2	
						ER-WR	6.0	18.0	-12.0
<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	1993	0.0	45.0	-45.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3228	0.0	60.8	-60.8	
4	400 kV	TALCHER-I/C	2	426	963	0.0	1.8	-1.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	115.8	-115.8
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	231	23	2.0	0.0	2.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	327	0	4.2	0.0	4.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	46	0	0.7	0.0	0.7	
						ER-NER	6.9	0.0	6.9
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	491	0	11.7	0.0	11.7	
						NER-NR	11.7	0.0	11.7
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2001	0.0	38.1	-38.1	
2	HVDC	VINDHYACHAL B/B	2	184	344	4.5	0.5	4.0	
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	252	0.0	6.2	-6.2	
4	765 kV	GWALIOR-AGRA	2	0	2082	0.0	32.1	-32.1	
5	765 kV	GWALIOR-PHAGI	2	0	2066	0.0	28.8	-28.8	
6	765 kV	JABALPUR-ORAI	2	0	1055	0.0	28.9	-28.9	
7	765 kV	GWALIOR-ORAI	1	944	0	15.2	0.0	15.2	
8	765 kV	SATNA-ORAI	1	0	1081	0.0	19.8	-19.8	
9	765 kV	BANASKANTHA-CHITORGARH	2	1257	89	14.7	0.0	14.7	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2102	0.0	32.6	-32.6	
11	400 kV	ZERDA-KANKROLI	1	293	0	4.3	0.0	4.3	
12	400 kV	ZERDA -BHINMAL	1	399	60	4.6	0.0	4.6	
13	400 kV	VINDHYACHAL -RIHAND	1	485	0	10.5	0.0	10.5	
14	400 kV	RAPP-SHUALPUR	2	285	325	0.0	0.9	-0.9	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8	
17	220 kV	MEHGAON-AURAIYA	1	110	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	72	0	1.5	0.0	1.5	
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	56.0	188.7	-132.7
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	304	816	4.4	6.4	-2.0	
2	HVDC	RAIGARH-PUGALUR	2	584	605	4.0	0.0	4.0	
3	765 kV	SOLAPUR-RAICHUR	2	537	2396	0.0	29.6	-29.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	2912	0.0	47.3	-47.3	
5	400 kV	KOLHAPUR-KUDGI	2	1161	0	14.2	0.0	14.2	
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	75	1.4	0.0	1.4	
						WR-SR	24.1	83.3	-59.3

INTERNATIONAL EXCHANGES			Import(+ve)/Export(-ve) Energy Exchange (MU)			
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)	122	0	21	0.5
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	0	0	0	-1.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.5
	NER	132kV GELEPHU-SALAKATI	12	3	8	0.2
	NER	132kV MOTANGA-RANGIA	-16	0	-3	-0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-79	0	-69	-1.7
	ER	NEPAL IMPORT (FROM BIHAR)	-275	0	-119	-2.9
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-319	0	-218	-5.2
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-740	-642	-671	-16.1
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-89	0	-76	-1.8