



**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: 28<sup>th</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 27.01.2022.**

महोदय/Dear Sir,

sss

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27<sup>th</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: 28-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)	54927	55591	43079	19383	2652	175632
Peak Shortage (MW)	250	0	0	301	0	551
Energy Met (MU)	1045	1249	1001	398	46	3739
Hydro Gen (MU)	95	39	88	24	9	255
Wind Gen (MU)	2	67	50	-	-	120
Solar Gen (MU)*	79.11	46.52	85.87	4.86	0.34	217
Energy Shortage (MU)	4.65	0.00	0.00	4.56	0.00	9.21
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55880	62286	51558	20537	2736	187645
Time Of Maximum Demand Met (From NLDC SCADA)	18:54	10:25	09:43	18:46	17:54	10:25

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	0.026	0.00	0.00	1.62	1.62	77.73	20.65

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	6821	0	121.4	54.8	-1.7	126	0.00
	Haryana	6415	0	116.5	58.9	0.2	180	0.00
	Rajasthan	14831	0	268.1	65.1	2.1	349	0.00
	Delhi	4708	0	75.8	64.4	-1.1	265	0.00
	UP	19022	0	325.1	91.3	-2.5	676	0.00
	Uttarakhand	2316	0	42.7	31.7	0.1	173	0.00
	HP	1902	0	33.4	24.8	0.1	238	0.00
	J&K(UT) & Ladakh(UT)	2808	300	57.8	55.7	-3.6	111	4.65
	Chandigarh	248	0	4.1	4.1	0.0	73	0.00
	Chhattisgarh	4036	0	87.0	32.2	0.4	195	0.00
WR	Gujarat	17148	0	349.6	172.6	-1.2	609	0.00
	MP	14564	0	276.1	162.9	2.4	1102	0.00
	Maharashtra	24750	0	481.6	142.4	-1.8	801	0.00
	Goa	567	0	11.0	10.6	0.1	60	0.00
	DD	330	0	6.4	6.1	0.3	44	0.00
	DNH	844	0	18.2	17.7	0.5	129	0.00
	AMNSIL	865	0	18.9	9.9	-0.5	248	0.00
	Andhra Pradesh	9567	0	184.7	73.8	1.0	600	0.00
	Telangana	11552	0	204.9	75.0	-1.2	516	0.00
	Karnataka	13100	0	229.4	88.0	0.2	1178	0.00
SR	Kerala	3763	0	73.3	50.3	-0.4	279	0.00
	Tamil Nadu	14499	0	301.0	175.9	-2.8	583	0.00
	Puducherry	381	0	7.5	7.8	-0.4	27	0.00
	Bihar	5265	0	86.8	77.1	-1.0	250	0.00
	DVC	3327	0	69.0	47.5	-1.5	421	2.22
	Jharkhand	1650	0	29.1	25.1	-2.1	254	2.34
	Odisha	5282	0	92.6	31.8	-1.9	337	0.00
	West Bengal	6474	0	118.3	3.2	-0.7	356	0.00
	Sikkim	121	0	1.9	2.0	-0.2	21	0.00
	ER	Arunachal Pradesh	156	0	2.6	2.5	-0.1	41
Assam		1485	0	24.6	18.5	-0.1	108	0.00
Manipur		257	0	3.5	3.6	-0.1	18	0.00
Meghalaya		394	0	7.3	6.0	0.0	43	0.00
Mizoram		138	0	1.9	1.7	-0.3	21	0.00
Nagaland		144	0	2.5	2.1	0.3	24	0.00
Tripura		217	0	4.0	1.9	0.0	23	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.7	-11.1	-19.9
Day Peak (MW)	-263.0	-760.6	-860.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	177.6	-113.4	100.8	-169.3	4.4	0.0
Actual(MU)	157.8	-99.8	110.5	-175.0	3.6	-2.8
O/D/U/D(MU)	-19.7	13.6	9.8	-5.7	-0.8	-2.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5563	16458	6272	446	639	29377	44
State Sector	7645	17026	9418	3170	11	37270	56
Total	13208	33483	15690	3616	650	66647	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	636	1163	534	581	9	2924	76
Lignite	27	14	40	0	0	82	2
Hydro	95	39	88	24	9	255	7
Nuclear	29	21	70	0	0	120	3
Gas, Naptha & Diesel	15	11	8	0	29	62	2
RES (Wind, Solar, Biomass & Others)	107	115	165	5	0	393	10
Total	909	1364	906	610	47	3836	100

Share of RES in total generation (%)	11.76	8.46	18.23	0.79	0.72	10.23
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.39	12.87	35.65	4.74	20.30	20.01

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.066

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: 28-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	-	3	0	0.0	0.0	0.0	
3	765 kV	GAYA-VARANASI	2	0	992	0.0	14.6	-13.6	
4	765 kV	SASARAM-FATEHPUR	1	0	562	0.0	9.5	-9.5	
5	765 kV	GAYA-BALLIA	1	0	601	0.0	9.2	-9.2	
6	400 kV	PUSAULI-VARANASI	1	1	109	0.0	1.4	-1.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	180	0.0	1.9	-1.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	382	0.0	10.1	-10.1	
9	400 kV	PATNA-BALLIA	4	0	1335	0.0	20.7	-20.7	
10	400 kV	BIHARSHARIFF-BALLIA	2	45	306	0.0	4.3	-4.3	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	567	0.0	8.3	-8.3	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	447	0.0	6.7	-6.7	
13	220 kV	SAHUPURI-KARAMNANA*	1	0	186	0.0	1.8	-1.8	
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-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.3	88.5	-88.2
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	116	854	0.0	8.1	-8.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	312	1033	0.0	7.7	-7.7	
3	765 kV	JHARSUGUDA-DURG	2	0	420	0.0	4.6	-4.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	30	547	0.0	6.4	-6.4	
5	400 kV	RANCHI-SIPAT	2	82	266	0.0	0.9	-0.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	173	0.0	2.5	-2.5	
7	220 kV	BUDHIPADAR-KORBA	2	85	11	0.9	0.0	0.9	
						ER-WR	0.9	30.2	-29.3
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	447	0.0	10.0	-10.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1987	0.0	44.6	-44.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2936	0.0	51.6	-51.6	
4	400 kV	TALCHER-I/C	2	288	666	0.0	4.1	-4.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	106.2	-106.2
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	231	24	2.5	0.1	2.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	357	0	4.8	0.0	4.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	62	0	0.9	0.0	0.9	
						ER-NER	8.1	0.1	8.1
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARALI-AGRA	2	492	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	2017	0.0	27.9	-27.9	
2	HVDC	VINDHYACHAL B/B	-	448	0	12.1	0.0	12.1	
3	HVDC	MUNDRAMOHINDERGARH	2	0	255	0.0	6.2	-6.2	
4	765 kV	GWALIOR-AGRA	2	0	2167	0.0	24.7	-24.7	
5	765 kV	GWALIOR-PHAGI	2	0	1940	0.0	29.0	-29.0	
6	765 kV	JABALPUR-ORAI	2	0	1001	0.0	23.7	-23.7	
7	765 kV	GWALIOR-ORAI	1	925	0	15.8	0.0	15.8	
8	765 kV	SATNA-ORAI	1	0	1063	0.0	18.3	-18.3	
9	765 kV	BANASKANTHA-CHITORGARH	2	1736	0	27.0	0.0	27.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2237	0.0	29.6	-29.6	
11	400 kV	ZERDA-KANROLI	1	296	0	4.2	0.0	4.2	
12	400 kV	ZERDA-BHINMAL	1	404	150	4.5	0.0	4.5	
13	400 kV	VINDHYACHAL-RIHAND	1	486	0	10.3	0.0	10.3	
14	400 kV	RAPP-SHUJALPUR	2	389	445	2.4	2.2	0.3	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9	
17	220 kV	MEHGAON-AURAIYA	1	132	0	1.1	1.1	0.0	
18	220 kV	MALANPUR-AURAIYA	1	90	0	1.9	0.0	1.9	
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	80.0	162.5	-82.5
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	297	0	7.3	0.0	7.3	
2	HVDC	RAIGARH-PUGALUR	2	0	2504	0.0	18.4	-18.4	
3	765 kV	SOLAPUR-RAICHUR	2	595	2040	0.5	14.1	-13.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	2898	0.0	38.9	-38.9	
5	400 kV	KOLHAPUR-KUDGI	2	1090	0	16.2	0.0	16.2	
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	1	72	1.0	0.0	1.0	
						WR-SR	24.9	71.3	-46.4

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)	137	0	27	0.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	0	0	0	0.0
	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	-14	-2	-7	-0.2
NEPAL	NER	132kV MOTANGA-RANGIA	12	1	3	0.1
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-80	0	-71	-1.7
	ER	NEPAL IMPORT (FROM BIHAR)	-322	0	-145	-3.5
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-359	-1	-245	-5.9
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-749	-703	-736	-17.7
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-111	0	-93	-2.2

\*220kV Pusaui- Sahupuri line LIL/Oed at 220kV Karmnasa (Bihar) at 17:50 hrs of 24.01.2022.