



**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: 31<sup>th</sup> Dec 2021

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 30.12.2021.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-दिसंबर-2021 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 30<sup>th</sup> December 2021, 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: 31-Dec-2021

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)	53041	53733	40193	20052	2619	169638
Peak Shortage (MW)	500	0	0	156	0	656
Energy Met (MU)	1032	1196	958	391	46	3623
Hydro Gen (MU)	100	30	75	30	11	246
Wind Gen (MU)	18	138	69	-	-	226
Solar Gen (MU)*	49.16	34.24	93.73	4.38	0.11	182
Energy Shortage (MU)	5.38	0.00	0.00	2.48	0.00	7.86
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53100	58756	48906	20157	2683	177597
Time Of Maximum Demand Met (From NLDC SCADA)	18:24	10:29	09:52	18:52	17:35	10:24

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	0.035	0.00	0.00	2.03	2.03	71.31	26.66

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	6768	0	129.0	62.9	-0.4	188	0.73
	Haryana	6883	0	129.1	71.4	0.4	190	0.00
	Rajasthan	13904	0	257.9	68.0	-1.3	375	0.00
	Delhi	4218	0	69.5	59.4	-2.5	362	0.00
	UP	17981	0	302.7	85.4	0.1	531	0.00
	Uttarakhand	2272	0	42.6	29.6	1.0	228	0.00
	HP	1932	0	35.5	28.5	0.3	300	0.00
	J&K(UT) & Ladakh(UT)	2884	250	62.0	55.4	1.6	200	4.65
	Chandigarh	238	0	3.9	4.0	-0.1	31	0.00
	WR	Chhattisgarh	3491	0	72.3	22.4	-0.1	304
Gujarat		16471	0	341.9	160.0	-3.7	634	0.00
MP		13046	0	253.1	145.7	-4.5	673	0.00
Maharashtra		23894	0	472.7	144.1	-5.5	574	0.00
Goa		599	0	12.5	11.8	0.2	27	0.00
DD		308	0	6.9	6.8	0.1	18	0.00
DNH		844	0	19.4	19.1	0.3	223	0.00
AMNSIL		785	0	17.1	10.7	-0.2	243	0.00
SR	Andhra Pradesh	9206	0	174.9	74.2	0.1	493	0.00
	Telangana	10765	0	200.1	88.2	0.1	728	0.00
	Karnataka	11750	0	207.5	52.6	-1.1	625	0.00
	Kerala	3777	0	72.8	54.5	0.3	266	0.00
	Tamil Nadu	14501	0	295.2	165.8	0.8	589	0.00
	Puducherry	355	0	7.2	7.4	-0.3	57	0.00
	Bihar	4721	0	74.4	65.7	-1.6	465	0.73
ER	DVC	3243	0	68.8	-34.1	-0.1	402	0.81
	Jharkhand	1577	109	29.7	20.4	-0.2	175	0.95
	Odisha	5235	0	104.0	59.3	-0.6	381	0.00
	West Bengal	6166	0	112.7	-8.3	-0.5	222	0.00
	Sikkim	121	0	1.8	2.0	-0.2	42	0.00
NER	Arunachal Pradesh	144	0	2.3	2.4	-0.2	29	0.00
	Assam	1454	0	24.8	18.6	-0.4	97	0.00
	Manipur	241	0	3.2	3.6	-0.5	16	0.00
	Meghalaya	393	0	7.6	6.0	0.1	49	0.00
	Mizoram	117	0	2.1	1.5	0.0	8	0.00
	Nagaland	146	0	2.6	2.0	0.4	22	0.00
	Tripura	219	0	3.6	3.7	-0.2	28	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.0	-4.3	-13.5
Day Peak (MW)	369.0	-487.4	-823.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	232.7	-196.2	101.5	-142.5	4.6	0.1
Actual(MU)	246.5	-215.8	109.0	-145.8	4.9	-1.2
O/D/U/D(MU)	13.8	-19.6	7.5	-3.3	0.3	-1.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	9166	11408	6102	1800	664	29139	40
State Sector	9470	19236	10366	3808	112	42991	60
Total	18636	30643	16468	5608	776	72131	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	555	1172	470	532	8	2737	74
Lignite	23	10	46	0	0	78	2
Hvdro	100	30	75	30	11	246	7
Nuclear	28	33	70	0	0	131	4
Gas, Naptha & Diesel	14	9	9	0	26	58	2
RES (Wind, Solar, Biomass & Others)	94	174	192	4	0	465	13
Total	814	1428	862	566	45	3716	100
Share of RES in total generation (%)	11.60	12.18	22.31	0.78	0.24	12.52	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.31	16.60	39.09	6.10	25.08	22.67	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.073

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: 31-Dec-2021

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	99	762	0.0	7.6	-7.6
4	765 kV	SASARAM-FATEHPUR	1	0	541	0.0	8.3	-8.3
5	765 kV	GAYA-BALIA	1	0	648	0.0	11.4	-11.4
6	400 kV	PUSAULI-VARANASI	1	16	113	0.0	1.3	-1.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	153	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1004	0.0	13.8	-13.8
9	400 kV	PATNA-BALIA	4	0	1579	0.0	27.0	-27.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	468	0.0	7.0	-7.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	633	0.0	10.5	-10.5
12	400 kV	BIHARSHARIFF-VARANASI	2	0	385	0.0	4.7	-4.7
13	220 kV	PUSAULI-SAHUPURI	1	0	142	0.0	1.8	-1.8
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	KARWAH-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	-95.0
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	590	335	1.1	0.0	1.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	733	756	0.0	3.0	-3.0
3	765 kV	JHARSUGUDA-DURG	2	685	173	2.5	0.0	2.5
4	400 kV	JHARSUGUDA-RAIGARH	4	462	187	3.9	0.0	3.9
5	400 kV	RANCHI-SIPAT	2	267	199	0.0	0.1	-0.1
6	220 kV	BUDHIPADAR-RAIGARH	1	130	27	1.1	0.0	1.1
7	220 kV	BUDHIPADAR-KORBA	2	132	0	1.8	0.0	1.8
						ER-WR	10.4	7.2
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	394	0.0	8.8	-8.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1998	0.0	37.1	-37.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2872	0.0	46.2	-46.2
4	400 kV	TALCHER-I/C	2	921	968	2.1	0.0	2.1
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	92.1	-92.1
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	81	239	0.0	2.1	-2.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	139	322	0.0	2.6	-2.6
3	220 kV	ALIPURDUAR-SALAKATI	2	17	61	0.0	0.6	-0.6
						ER-NER	0.0	-5.2
<b>Import/Export of &lt;null&gt; (With &lt;null&gt;)</b>								
No Records Found								
						NER-NR	0.0	0.0
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2005	0.0	37.6	-37.6
2	HVDC	VINDHYACHAL B/B	-	444	149	1.9	1.9	0.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	254	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	2226	0.0	31.9	-31.9
5	765 kV	GWALIOR-PHAGI	2	0	2001	0.0	26.8	-26.8
6	765 kV	JABALPUR-ORAI	2	0	991	0.0	29.8	-29.8
7	765 kV	GWALIOR-ORAI	1	891	0	15.1	0.0	15.1
8	765 kV	SATNA-ORAI	1	0	1038	0.0	19.5	-19.5
9	765 kV	BANASKANTHA-CHITORGARH	2	880	503	7.4	0.0	7.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	3112	0.0	46.5	-46.5
11	400 kV	ZERDA-KANKROLI	1	215	16	2.8	0.0	2.8
12	400 kV	ZERDA-BHINMAL	1	210	113	2.2	0.0	2.2
13	400 kV	VINDHYACHAL-RIHAND	1	972	0	20.0	0.0	20.0
14	400 kV	RAPP-SHUJALPUR	2	115	414	0.2	3.5	-3.3
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	115	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	68	14	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	51.7	-152.9
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	319	0.0	7.5	-7.5
2	HVDC	RAIGARH-PUGALUR	2	0	2504	0.0	23.4	-23.4
3	765 kV	SOLAPUR-RAICHUR	2	979	1647	2.6	12.3	-9.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2702	0.0	37.1	-37.1
5	400 kV	KOLHAPUR-KUDGI	2	1229	0	19.7	0.0	19.7
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	69	1.3	0.0	1.3
						WR-SR	23.6	-56.6

INTERNATIONAL EXCHANGES				Import(+ve)/Export(-ve)			
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MTU)	
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	102	0	66	1.6	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	238	0	199	4.8	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	6	0	-15	-0.4	
	NER	132kV GELEPHU-SALAKATI	-13	-1	-3	-0.1	
	NER	132kV MOTANGA-RANGIA	10	0	1	0.0	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-54	0	-40	-1.0	
	ER	NEPAL IMPORT (FROM BIHAR)	-124	-5	-15	-0.4	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-309	35	-126	-3.0	
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-710	-385	-488	-11.7	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-113	0	-75	-1.8	