



**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: 6<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 05.12.2021.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 5-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 5<sup>th</sup> December 2021, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड  
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 06-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)	45092	50893	35089	16957	2363	150394
Peak Shortage (MW)	0	0	0	161	0	161
Energy Met (MU)	957	1167	772	351	43	3290
Hydro Gen (MU)	116	25	94	44	12	291
Wind Gen (MU)	9	55	10	-	-	74
Solar Gen (MU)*	52.23	30.84	77.34	4.17	0.26	165
Energy Shortage (MU)	5.49	0.00	0.00	3.01	0.00	8.50
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48319	55460	35498	17446	2475	154804
Time Of Maximum Demand Met (From NLDC SCADA)	11:42	10:47	09:24	17:53	17:15	10:58

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	0.037	0.00	0.97	6.97	7.94	80.06	12.00

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	6665	0	133.4	85.9	-1.5	153	0.84
	Haryana	6017	0	113.1	76.4	0.3	227	0.00
	Rajasthan	13758	0	255.4	83.0	1.0	347	0.00
	Delhi	3527	0	58.9	47.4	-1.3	179	0.00
	UP	15322	0	276.3	110.9	0.3	433	0.00
	Uttarakhand	1822	0	33.8	22.6	0.6	111	0.00
	HP	1673	0	30.4	21.4	0.3	220	0.00
	J&K(UT) & Ladakh(UT)	2554	0	52.4	48.2	-1.1	166	4.65
WR	Chandigarh	174	0	2.9	3.6	-0.7	13	0.00
	Chhattisgarh	3397	0	75.0	24.8	0.2	228	0.00
	Gujarat	16118	0	331.9	189.8	0.1	497	0.00
	MP	13842	0	273.5	171.1	-1.8	523	0.00
	Maharashtra	20222	0	430.6	131.0	-1.3	642	0.00
	Goa	515	0	11.0	10.5	-0.2	68	0.00
	DD	301	0	6.8	6.7	0.1	22	0.00
	DNH	799	0	18.7	18.5	0.2	47	0.00
SR	AMNSIL	866	0	19.2	8.7	0.3	304	0.00
	Andhra Pradesh	7233	0	152.3	74.6	-0.2	412	0.00
	Telangana	7850	0	158.7	67.7	0.3	441	0.00
	Karnataka	6950	0	137.6	29.7	-1.0	498	0.00
	Kerala	3355	0	67.7	32.5	-0.9	196	0.00
	Tamil Nadu	11496	0	249.1	153.4	-1.2	481	0.00
	Puducherry	330	0	6.8	7.1	-0.3	73	0.00
	ER	Bihar	4190	0	72.3	63.1	-0.9	268
DVC		3033	0	63.4	-36.5	-2.1	537	1.43
Jharkhand		1350	0	26.7	21.2	-0.6	165	1.57
Odisha		4335	0	85.5	24.9	-0.8	345	0.00
West Bengal		5347	0	101.4	-22.3	0.9	449	0.00
Sikkim		86	0	1.4	1.2	0.2	32	0.00
NER	Arunachal Pradesh	113	0	2.2	2.0	0.0	107	0.00
	Assam	1398	0	23.8	17.1	-0.1	81	0.00
	Manipur	202	0	3.1	3.0	0.1	26	0.00
	Meghalaya	348	0	6.9	5.4	0.0	29	0.00
	Mizoram	106	0	1.7	1.5	0.0	18	0.00
	Nagaland	124	0	2.4	2.1	0.1	15	0.00
	Tripura	209	0	3.4	1.8	-0.5	11	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.3	1.0	-16.0
Day Peak (MW)	462.0	85.2	-837.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	238.6	-140.6	78.1	-171.1	-5.0	0.0
Actual(MU)	244.1	-146.1	76.1	-171.5	-4.3	-1.6
O/D/U/D(MU)	5.5	-5.5	-2.0	-0.3	0.7	-1.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7897	14545	9342	3680	519	35982	43
State Sector	14346	18794	12161	2408	11	47719	57
Total	22243	33338	21503	6088	530	83701	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	476	1160	391	509	11	2547	75
Lignite	21	15	34	0	0	70	2
Hvdro	116	25	94	44	12	291	9
Nuclear	23	33	69	0	0	125	4
Gas, Naptha & Diesel	16	8	9	0	30	63	2
RES (Wind, Solar, Biomass & Others)	87	86	112	4	0	290	9
Total	739	1328	710	556	53	3386	100

Share of RES in total generation (%)	11.79	6.50	15.76	0.76	0.50	8.56
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.60	10.91	38.80	8.59	22.51	20.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.070

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: 06-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	502	0.0	12.1	-12.1
2	HVDC	PUSAULI B/B	-	0	240	0.0	5.8	-5.8
3	765 kV	GAYA-VARANASI	2	0	920	0.0	13.6	-13.6
4	765 kV	SASARAM-FATEHPUR	1	0	615	0.0	10.0	-10.0
5	765 kV	GAYA-BALIA	1	0	497	0.0	8.6	-8.6
6	400 kV	PUSAULI-VARANASI	1	0	126	0.0	2.5	-2.5
7	400 kV	PUSAULI-ALLAHABAD	1	0	182	0.0	3.4	-3.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	713	0.0	11.0	-11.0
9	400 kV	PATNA-BALIA	4	0	842	0.0	14.7	-14.7
10	400 kV	BIHARSHARIFF-BALIA	2	0	340	0.0	4.0	-4.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	432	0.0	7.1	-7.1
12	400 kV	BIHARSHARIFF-VARANASI	2	0	406	0.0	5.7	-5.7
13	220 kV	PUSAULI-SAHUPURI	1	0	117	0.0	1.6	-1.6
14	132 kV	SONEG NAGAR-RIHAND	1	0	0	0.1	0.0	0.1
15	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAUULI	1	0	0	0.0	0.0	0.0
						ER-NR	100.0	-99.3
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	699	742	0.0	2.2	-2.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	117	701	0.0	7.0	-7.0
3	765 kV	JHARSUGUDA-DURG	2	0	334	0.0	4.5	-4.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	651	0.0	8.8	-8.8
5	400 kV	RANCHI-SIPAT	2	116	308	0.0	3.1	-3.1
6	220 kV	BUDHIPADAR-RAIGARH	1	3	106	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	119	29	1.1	0.0	1.1
						ER-WR	1.1	-25.8
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	388	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1829	0.0	41.0	-41.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2439	0.0	38.7	-38.7
4	400 kV	TALCHER/JC	2	271	285	3.2	0.0	3.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	0.0	-88.3
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	325	0.0	4.7	-4.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	147	302	0.0	2.4	-2.4
3	220 kV	ALIPURDUAR-SALAKATI	2	2	67	0.0	0.8	-0.8
						ER-NER	0.0	-7.9
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.3	-12.3
						NER-NR	0.0	-12.3
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2255	0.0	35.6	-35.6
2	HVDC	VINDHYACHAL B/B	-	227	0	5.4	0.0	5.4
3	HVDC	MUNDRA-MOHENDERGARH	2	0	252	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1851	0.0	30.0	-30.0
5	765 kV	GWALIOR-PHAGI	2	0	2509	0.0	39.6	-39.6
6	765 kV	JABALPUR-ORAI	2	0	1085	0.0	33.1	-33.1
7	765 kV	GWALIOR-ORAI	1	928	0	17.7	0.0	17.7
8	765 kV	SATNA-ORAI	1	0	1100	0.0	21.7	-21.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1097	0	14.7	0.0	14.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2073	0.0	36.2	-36.2
11	400 kV	ZERDA-KANKROLI	1	244	0	3.3	0.0	3.3
12	400 kV	ZERDA-BHINMAL	1	202	91	1.6	0.0	1.6
13	400 kV	VINDHYACHAL-RIHAND	1	969	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	0	502	0.0	5.4	-5.4
15	220 kV	BHANPURA-RANPUR	1	64	74	0.5	0.2	0.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2
17	220 kV	MEHGAON-AURAIYA	1	152	0	1.7	0.0	1.7
18	220 kV	MALANPUR-AURAIYA	1	105	0	2.6	0.0	2.6
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	209.1	-139.5
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	265	0.0	6.2	-6.2
2	HVDC	RAIGARH-PUGALUR	2	0	608	0.0	14.7	-14.7
3	765 kV	SOLAPUR-RAICHUR	2	2149	1829	9.9	12.0	-2.1
4	765 kV	WARDHA-NIZAMABAD	2	601	2229	0.9	27.3	-26.5
5	400 kV	KOLHAPUR-KUDGI	2	1280	0	16.0	0.0	16.0
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	85	1.1	0.0	1.1
						WR-SR	27.8	-32.4

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Import(+ve)/Export(-ve)	
					Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	154	0	126	3.0
	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)	240	0	225	5.4
	ER	132kV GELEPHU-SALAKATI	7	1	4	0.1
	NER	132kV MOTANGA-RANGIA	12	4	8	0.2
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
NEPAL	ER	NEPAL IMPORT (FROM BIHAR)	-37	0	-2	-0.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	122	-33	44	1.1
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-726	-418	-582	-14.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-111	0	-85	-2.1