



**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: 8<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 07.12.2021.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 7-दिसंबर-2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 7<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: 08-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)	49251	54068	39448	17987	2486	163240
Peak Shortage (MW)	475	0	0	397	0	872
Energy Met (MU)	1022	1225	843	371	44	3505
Hydro Gen (MU)	115	33	85	39	12	284
Wind Gen (MU)	14	86	18	-	-	118
Solar Gen (MU)*	59.16	33.17	93.32	4.82	0.20	191
Energy Shortage (MU)	5.33	0.00	0.00	2.46	0.00	7.79
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50824	57495	40174	18253	2656	166014
Time Of Maximum Demand Met (From NLDC SCADA)	11:16	10:37	18:28	17:47	17:14	18:20

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	0.61	4.07	4.69	72.60	22.72

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	6973	0	145.1	98.7	-2.1	50	0.00
	Haryana	6758	0	127.9	91.4	0.8	219	0.66
	Rajasthan	14261	0	261.8	77.9	2.5	433	0.00
	Delhi	3583	0	63.8	51.7	-0.4	191	0.00
	UP	16096	0	293.1	117.4	-1.5	389	0.00
	Uttarakhand	1964	0	37.4	25.6	0.5	150	0.00
	HP	1854	0	33.2	24.0	0.4	268	0.02
	J&K(UT) & Ladakh(UT)	2768	0	57.2	50.8	1.1	181	4.65
	Chandigarh	197	0	3.2	3.8	-0.7	24	0.00
	Chhattisgarh	3613	0	78.5	26.0	0.4	273	0.00
WR	Gujarat	16638	0	351.5	179.5	7.7	1165	0.00
	MP	14103	0	278.5	166.1	-3.2	491	0.00
	Maharashtra	21608	0	460.0	136.6	-3.0	706	0.00
	Goa	560	0	11.3	11.0	-0.3	66	0.00
	DD	336	0	7.4	7.1	0.3	63	0.00
	DNH	811	0	18.9	18.8	0.1	48	0.00
	AMNSIL	839	0	18.5	8.4	0.0	302	0.00
SR	Andhra Pradesh	7918	0	154.6	81.4	-0.2	401	0.00
	Telangana	8810	0	171.1	54.5	0.5	492	0.00
	Karnataka	8199	0	156.7	34.6	-1.7	591	0.00
	Kerala	3735	0	75.5	44.4	-1.1	189	0.00
	Tamil Nadu	13899	0	277.8	168.6	-0.7	355	0.00
	Puducherry	360	0	7.4	7.6	-0.3	48	0.00
	All India	4354	0	75.6	63.7	0.4	263	0.00
ER	Bihar	3097	85	63.0	-36.0	-2.0	441	1.14
	DVC	1466	240	27.1	22.2	-1.1	164	1.32
	Jharkhand	4986	0	94.2	29.0	-1.0	343	0.00
	Odisha	6125	0	109.4	-14.4	0.9	392	0.00
	West Bengal	103	0	1.5	1.3	0.2	40	0.00
NER	Sikkim	130	0	2.3	2.2	-0.1	24	0.00
	Arunachal Pradesh	1490	0	24.7	19.3	0.1	127	0.00
	Assam	217	0	2.9	2.9	0.0	33	0.00
	Manipur	385	0	7.3	5.8	0.2	55	0.00
	Meghalaya	114	0	1.6	1.5	-0.1	3	0.00
	Mizoram	132	0	2.3	2.2	0.0	20	0.00
	Nagaland	206	0	3.1	1.6	-0.3	18	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.6	-0.9	-14.5
Day Peak (MW)	406.0	-250.1	-822.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	263.5	-164.1	80.6	-176.7	-3.4	0.0
Actual(MU)	269.8	-168.4	70.9	-174.7	-2.9	-5.2
O/D/U/D(MU)	6.3	-4.3	-9.8	2.1	0.5	-5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7397	13635	8752	2520	735	33039	42
State Sector	14681	18319	9431	2408	11	44849	58
Total	22078	31953	18183	4928	746	77887	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	503	1195	451	530	11	2691	75
Lignite	22	15	34	0	0	71	2
Hydro	115	33	85	39	12	284	8
Nuclear	23	33	69	0	0	125	3
Gas, Naptha & Diesel	16	8	9	0	29	61	2
RES (Wind, Solar, Biomass & Others)	98	120	137	5	0	361	10
Total	778	1405	786	574	52	3593	100

Share of RES in total generation (%)	12.66	8.56	17.41	0.85	0.39	10.04
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.47	13.26	37.06	7.57	22.64	21.41

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.076

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: 08-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	501	0.0	12.1	-12.1
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	1068	0.0	13.5	-13.5
4	765 kV	SASARAM-FATEHPUR	1	0	692	0.0	9.2	-9.2
5	765 kV	GAYA-BALIA	1	0	504	0.0	3.7	-3.7
6	400 kV	PUSAULI-VARANASI	1	0	145	0.0	2.9	-2.9
7	400 kV	PUSAULI-ALLAHABAD	1	0	170	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	796	0.0	10.4	-10.4
9	400 kV	PATNA-BALIA	4	0	1146	0.0	18.7	-18.7
10	400 kV	BIHARSHARIF-BALIA	2	0	385	0.0	4.5	-4.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	499	0.0	7.5	-7.5
12	400 kV	BIHARSHARIF-VARANASI	2	0	354	0.0	4.6	-4.6
13	220 kV	PUSAULI-SAHUPURI	1	0	100	0.0	1.2	-1.2
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
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-CHANDAULI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.5</b>	<b>102.3</b>	<b>-101.8</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	561	912	0.0	2.5	-2.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	877	0.0	7.7	-7.7
3	765 kV	JHARSUGUDA-DURG	2	0	413	0.0	5.5	-5.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	504	0.0	6.8	-6.8
5	400 kV	RANCHI-SIPAT	2	68	274	0.0	2.2	-2.2
6	220 kV	BUDHIPADAR-RAIGARH	1	20	112	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	130	0	1.7	0.0	1.7
<b>ER-WR</b>						<b>1.7</b>	<b>25.8</b>	<b>-24.1</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	387	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	39.5	-39.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2610	0.0	41.8	-41.8
4	400 kV	TALCHER-I/C	2	501	189	5.1	0.0	5.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>90.0</b>	<b>-90.0</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAOON	2	0	327	0.0	4.9	-4.9
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	80	317	0.0	3.3	-3.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	66	0.0	0.8	-0.8
<b>ER-NER</b>						<b>0.0</b>	<b>9.1</b>	<b>-9.1</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.1	-12.1
<b>NER-NR</b>						<b>0.0</b>	<b>12.1</b>	<b>-12.1</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3011	0.0	52.2	-52.2
2	HVDC	VINDHYACHAL B/B	-	0	53	0.0	1.2	-1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	253	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	2086	0.0	33.0	-33.0
5	765 kV	GWALIOR-PHAGI	2	0	2485	0.0	38.6	-38.6
6	765 kV	JABALPUR-ORAI	2	0	1067	0.0	32.6	-32.6
7	765 kV	GWALIOR-ORAI	1	871	0	15.7	0.0	15.7
8	765 kV	SAINA-ORAI	1	0	1226	0.0	22.9	-22.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1372	0	12.9	0.0	12.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	1906	0.0	31.6	-31.6
11	400 kV	ZERDA-KANKROLI	1	259	0	3.3	0.0	3.3
12	400 kV	ZERDA-BHINMAL	1	284	145	2.5	0.0	2.5
13	400 kV	VINDHYACHAL-RIHAND	1	985	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUALPUR	2	26	555	0.0	4.9	-4.9
15	220 kV	BHANPURA-RANPUR	1	69	95	0.4	0.4	0.1
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3
17	220 kV	MEHGAON-AURAIYA	1	150	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	107	0	2.5	0.0	2.5
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
<b>WR-NR</b>						<b>60.6</b>	<b>224.8</b>	<b>-164.2</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	987	265	9.0	2.6	6.4
2	HVDC	RAIGARH-PUGALUR	2	0	605	0.0	14.6	-14.6
3	765 kV	SOLAPUR-RAICHUR	2	2153	2107	9.2	16.0	-6.8
4	765 kV	WARDHA-NIZAMABAD	2	410	2354	0.6	30.1	-29.5
5	400 kV	KOLHAPUR-KUDGI	2	1274	0	16.1	0.0	16.1
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	82	0.9	0.0	0.9
<b>WR-SR</b>						<b>35.8</b>	<b>63.3</b>	<b>-27.5</b>

INTERNATIONAL EXCHANGES

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)	138	0	107	2.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*70MW)	218	209	215	5.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	37	0	-20	-0.5
	NER	132kV GELEPHU-SALAKATI	8	-4	3	0.1
	NER	132kV MOTANGA-RANGIA	11	-2	6	0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	-143	-42	-57	-1.4
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-107	78	20	0.5
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-723	-419	-526	-12.6
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-99	0	-80	-1.9