



**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: 4<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 03.12.2021.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 3-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 3<sup>rd</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: 04-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)	46452	51722	38515	17849	2517	157055
Peak Shortage (MW)	1368	0	0	410	0	1778
Energy Met (MU)	957	1139	827	371	45	3338
Hydro Gen (MU)	114	32	115	48	12	320
Wind Gen (MU)	11	70	9	-	-	90
Solar Gen (MU)*	56.94	30.10	79.44	4.53	0.28	171
Energy Shortage (MU)	15.28	0.00	0.20	4.50	0.00	19.98
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48950	54804	39217	18608	2627	159878
Time Of Maximum Demand Met (From NLDC SCADA)	11:10	10:46	07:46	17:50	17:29	10:51

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	0.043	0.00	0.98	9.84	10.82	75.87	13.31

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	6027	0	116.5	64.9	-1.8	387	9.49
	Haryana	6574	0	124.1	83.6	0.9	227	0.30
	Rajasthan	13846	0	249.8	77.0	1.4	288	0.84
	Delhi	3912	0	64.2	53.5	-2.1	325	0.00
	UP	15469	0	272.7	119.4	-1.7	357	0.00
	Uttarakhand	1975	0	36.8	26.0	0.9	180	0.00
	HP	1776	0	33.1	22.6	1.1	338	0.00
	J&K(UT) & Ladakh(UT)	2820	300	56.5	51.8	-0.6	252	4.65
	Chandigarh	212	0	3.3	3.8	-0.5	28	0.00
	WR	Chhattisgarh	3514	0	75.0	25.9	0.5	153
Gujarat		15623	0	325.8	181.7	-1.3	683	0.00
MP		13043	0	255.2	147.5	-1.7	603	0.00
Maharashtra		20783	0	427.9	131.1	-0.9	848	0.00
Goa		579	0	11.9	11.8	-0.5	32	0.00
DD		315	0	7.2	7.1	0.1	22	0.00
DNH		819	0	18.8	18.7	0.1	46	0.00
AMNSIL		795	0	17.2	8.3	0.3	300	0.00
Andhra Pradesh		7191	0	148.5	63.0	-0.3	415	0.20
Telangana		8374	0	162.9	64.7	-0.5	872	0.00
SR	Karnataka	8431	0	159.3	35.3	-0.9	631	0.00
	Kerala	3671	0	74.6	38.3	-1.2	192	0.00
	Tamil Nadu	13438	0	274.7	159.9	1.1	547	0.00
	Puducherry	362	0	7.1	7.2	-0.1	45	0.00
	Bihar	4155	0	73.3	61.3	0.3	330	0.00
	DVC	3165	0	63.4	-38.9	-2.1	870	1.25
ER	Jharkhand	1481	0	26.8	20.7	-0.2	283	3.25
	Odisha	4568	0	88.0	23.9	-0.5	334	0.00
	West Bengal	6421	0	117.5	-7.0	0.5	632	0.00
	Sikkim	104	0	1.7	0.9	0.8	80	0.00
NER	Arunachal Pradesh	123	0	2.2	2.1	-0.1	45	0.00
	Assam	1481	0	24.4	18.2	-0.1	100	0.00
	Manipur	213	0	3.1	3.0	0.0	28	0.00
	Meghalaya	381	0	6.9	5.6	0.2	51	0.00
	Mizoram	116	0	1.7	1.4	-0.2	14	0.00
	Nagaland	146	0	2.6	2.1	0.4	60	0.00
	Tripura	222	0	3.7	1.5	-0.2	31	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	10.4	0.9	-13.7
Day Peak (MW)	782.0	-87.0	-764.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	235.1	-178.5	109.2	-161.2	-4.6	0.0
Actual(MU)	242.0	-198.3	113.3	-159.1	-3.8	-5.8
O/D/U/D(MU)	6.9	-19.8	4.1	2.1	0.8	-5.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8317	13495	11652	3180	519	37162	43
State Sector	15556	19829	11531	2868	11	49794	57
Total	23873	33323	23183	6048	530	86956	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	483	1165	387	496	13	2544	75
Lignite	19	12	32	0	0	63	2
Hvdro	114	32	115	48	12	320	9
Nuclear	23	33	27	0	0	83	2
Gas, Naptha & Diesel	16	11	9	0	28	64	2
RES (Wind, Solar, Biomass & Others)	88	100	114	5	0	307	9
Total	743	1352	685	548	53	3381	100
Share of RES in total generation (%)	11.82	7.40	16.70	0.82	0.53	9.08	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.23	12.19	37.36	9.55	23.10	20.99	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.077

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: 04-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	12.3	-12.3	
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	0	873	0.0	11.0	-11.0	
4	765 kV	SASARAM-FATEHPUR	1	0	642	0.0	9.8	-9.8	
5	765 kV	GAYA-BALIA	1	0	393	0.0	3.8	-3.8	
6	400 kV	PUSAULI-VARANASI	1	0	152	0.0	3.1	-3.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	176	0.0	2.9	-2.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	771	0.0	10.9	-10.9	
9	400 kV	PATNA-BALIA	4	0	596	0.0	6.2	-6.2	
10	400 kV	BIHARSHARIFF-BALIA	2	7	346	0.0	2.8	-2.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	379	0.0	5.9	-5.9	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	394	0.0	4.4	-4.4	
13	220 kV	PUSAULI-SAHUPURI	1	0	116	0.0	1.3	-1.3	
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	
						ER-NR	0.5	82.6	-82.1
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1117	0	12.7	0.0	12.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	70	895	0.0	9.8	-9.8	
3	765 kV	JHARSUGUDA-DURG	2	100	318	0.0	2.0	-2.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	140	475	0.0	4.5	-4.5	
5	400 kV	RANCHI-SIPAT	2	115	340	0.0	2.5	-2.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	23	113	0.0	1.1	-1.1	
7	220 kV	BUDHIPADAR-KORBA	2	135	37	1.1	0.0	1.1	
						ER-WR	13.7	19.9	-6.1
<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	1982	0.0	40.4	-40.4	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2960	0.0	50.1	-50.1	
4	400 kV	TALCHER-I/C	2	370	880	0.0	9.9	-9.9	
5	220 kV	BALIMEL A-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	99.0	-99.0
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	302	0.0	5.0	-5.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	82	262	0.0	2.6	-2.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	59	0.0	0.7	-0.7	
						ER-NER	0.0	8.3	-8.3
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	503	0.0	12.1	-12.1	
						NER-NR	0.0	12.1	-12.1
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3014	0.0	57.8	-57.8	
2	HVDC	VINDHYACHAL B/B	-	451	297	5.3	1.0	4.3	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	499	0.0	12.2	-12.2	
4	765 kV	GWALIOR-AGRA	2	0	1907	0.0	30.5	-30.5	
5	765 kV	GWALIOR-PHAGI	2	0	2336	0.0	33.9	-33.9	
6	765 kV	JABALPUR-ORAI	2	0	1029	0.0	28.9	-28.9	
7	765 kV	GWALIOR-ORAI	1	796	0	15.0	0.0	15.0	
8	765 kV	SAINA-ORAI	1	0	1158	0.0	21.9	-21.9	
9	765 kV	BANASKANTHA-CHITORGARH	2	1304	0	16.4	0.0	16.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1932	0.0	33.5	-33.5	
11	400 kV	ZERDA-KANKROLI	1	288	0	3.9	0.0	3.9	
12	400 kV	ZERDA-BHINMAL	1	286	124	2.4	0.0	2.4	
13	400 kV	VINDHYACHAL-RIHAND	1	977	0	21.6	0.0	21.6	
14	400 kV	RAPP-SHILJALPUR	2	84	464	0.0	5.3	-5.3	
15	220 kV	BHANPURA-RANPUR	1	87	60	0.4	0.2	0.2	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0	
17	220 kV	MEHGAON-AURAIYA	1	145	0	1.7	0.0	1.7	
18	220 kV	MALANPUR-AURAIYA	1	103	0	2.4	0.0	2.4	
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	69.2	226.1	-156.9
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	265	0.0	6.1	-6.1	
2	HVDC	RAIGARH-PUGALUR	2	578	740	7.6	0.0	7.6	
3	765 kV	SOLAPUR-RAICHUR	2	1018	2700	0.0	24.1	-24.1	
4	765 kV	WARDHA-NIZAMABAD	2	0	2468	0.0	37.0	-37.0	
5	400 kV	KOLHAPUR-KUDGI	2	1046	0	11.3	0.0	11.3	
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	1.0	0.0	1.0	
						WR-SR	19.9	67.3	-47.4

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve) Energy Exchange

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)	279	0	135	3.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	428	0	288	6.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	52	0	-2	0.0
	NER	132kV GELEPHU-SALAKATI	10	2	4	0.1
	NER	132kV MOTANGA-RANGIA	14	1	7	0.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-87	-20	39	0.9
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-670	-378	-499	-12.0
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-94	0	-73	-1.8