



**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

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Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 24<sup>th</sup> Dec 2020

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 23.12.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-दिसम्बर -2020 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 23<sup>rd</sup> December 2020, 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: 24-Dec-2020

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)	52668	52021	40452	18243	2529	165913
Peak Shortage (MW)	550	0	0	186	35	771
Energy Met (MU)	1048	1223	927	369	43	3609
Hydro Gen (MU)	111	46	77	43	12	288
Wind Gen (MU)	16	40	38	-	-	94
Solar Gen (MU)*	35.53	31.16	89.41	4.42	0.06	161
Energy Shortage (MU)	11.65	0.00	0.00	0.56	0.53	12.74
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55040	59596	45800	18547	2614	178106
Time Of Maximum Demand Met (From NLDC SCADA)	09:21	10:34	09:34	18:37	17:46	09:21

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	0.028	0.00	0.07	2.64	2.71	78.03	19.26

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(-) (MW)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	6622	0	125.2	69.9	-2.4	54	0.00
	Haryana	6581	95	137.6	98.2	0.9	152	0.01
	Rajasthan	14149	0	262.4	96.5	0.6	494	0.00
	Delhi	4324	0	71.1	53.3	0.7	293	0.00
	UP	17800	0	317.7	105.9	-0.2	433	0.07
	Uttarakhand	2127	0	40.8	24.2	-0.3	81	0.37
	HP	1820	0	33.5	26.9	0.6	255	0.00
	J&K(UT) & Ladakh(UT)	2813	550	55.3	50.9	-0.6	301	11.20
	Chandigarh	247	0	4.0	4.0	0.0	32	0.00
	Chhattisgarh	3990	0	85.6	31.6	-0.3	221	0.00
WR	Gujarat	16072	0	337.2	74.8	2.0	375	0.00
	MP	15022	0	293.4	174.8	-0.7	545	0.00
	Maharashtra	22595	0	451.7	155.3	-1.3	548	0.00
	Goa	498	0	9.8	10.0	-0.3	43	0.00
	DD	338	0	7.5	7.3	0.2	21	0.00
	DNH	815	0	18.6	18.4	0.2	41	0.00
	AMNSIL	850	0	18.7	10.6	0.1	300	0.00
SR	Andhra Pradesh	8610	0	163.8	76.8	1.0	764	0.00
	Telangana	10395	0	195.2	74.6	0.1	591	0.00
	Karnataka	11602	0	213.0	79.1	-0.1	536	0.00
	Kerala	3601	0	71.9	56.4	0.8	227	0.00
	Tamil Nadu	13547	0	276.0	171.4	-1.2	525	0.00
	Puducherry	344	0	6.8	6.8	0.0	40	0.00
ER	Bihar	5018	0	85.5	84.6	-0.5	290	0.00
	DVC	3152	0	67.4	-39.6	0.7	320	0.00
	Jharkhand	1415	186	25.9	20.9	-1.9	57	0.56
	Odisha	3835	0	71.0	-0.7	0.4	504	0.00
	West Bengal	6253	0	116.3	4.0	0.1	510	0.00
	Sikkim	139	0	2.5	1.9	0.6	66	0.00
NER	Arunachal Pradesh	129	1	2.2	2.3	-0.2	25	0.01
	Assam	1427	21	23.8	19.9	0.3	125	0.48
	Manipur	242	2	3.1	3.6	-0.6	28	0.01
	Meghalaya	374	0	6.9	4.5	0.0	27	0.00
	Mizoram	101	1	1.7	1.5	-0.2	19	0.01
	Nagaland	142	2	2.3	2.3	-0.1	18	0.02
Tripura	270	0	3.4	3.9	-0.1	36	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.1	-9.7	-14.3
Day Peak (MW)	393.0	-555.7	-906.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	278.9	-292.2	141.8	-130.4	2.0	0.0
Actual(MU)	268.0	-286.2	136.4	-132.0	2.5	-11.2
OD/UD(MU)	-10.9	6.1	-5.4	-1.6	0.6	-11.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5520	11815	8042	2440	539	28355
State Sector	10686	15146	11837	3972	112	41752
Total	16206	26960	19879	6412	651	70108

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	529	1332	444	483	7	2794
Lignite	23	12	35	0	0	69
Hydro	111	46	77	42	12	288
Nuclear	28	30	63	0	0	121
Gas, Naptha & Diesel	28	33	11	0	27	98
RES (Wind, Solar, Biomass & Others)	80	72	164	4	0	321
Total	799	1524	794	530	46	3692
Share of RES in total generation (%)	10.06	4.73	20.72	0.84	0.13	8.70
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.47	9.72	38.35	8.85	25.71	19.78

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.051

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: 24-Dec-2020

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	-	0	251	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	0	984	0.0	13.1	-13.1
4	765 kV	SASARAM-FATEHPUR	1	17	291	0.0	3.1	-3.1
5	765 kV	GAYA-BALIA	1	0	666	0.0	10.1	-10.1
6	400 kV	PUSAULI-VARANASI	1	0	199	0.0	4.0	-4.0
7	400 kV	PUSAULI-ALLAHABAD	1	0	117	0.0	2.0	-2.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	748	0.0	7.5	-7.5
9	400 kV	PATNA-BALIA	4	0	1514	0.0	21.9	-21.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	415	0.0	6.6	-6.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	379	0.0	5.8	-5.8
12	400 kV	BIHARSHARIFF-VARANASI	2	62	387	0.0	3.7	-3.7
13	220 kV	PUSAULI-SAHUPURI	1	72	56	0.3	0.0	0.3
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	30	0	0.4	0.0	0.4
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						0.6	84.0	-83.4
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	664	286	4.3	0.0	4.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	689	172	7.6	0.0	7.6
3	765 kV	JHARSUGUDA-DURG	2	1	477	0.0	5.6	-5.6
4	400 kV	JHARSUGUDA-RAIGARH	4	82	403	0.0	3.4	-3.4
5	400 kV	RANCHI-SIPAT	2	220	69	1.2	0.0	1.2
6	220 kV	BUDHIPADAR-RAIGARH	1	6	125	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	86	77	0.2	0.0	0.2
ER-WR						13.3	10.2	3.0
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	475	0.0	11.0	-11.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1983	0.0	46.2	-46.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2353	0.0	46.9	-46.9
4	400 kV	TALCHER-I/C	2	203	946	0.0	5.3	-5.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	104.2	-104.2
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	238	111	1.8	0.0	1.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	376	139	3.0	0.0	3.0
3	220 kV	ALIPURDUAR-SALAKATI	2	58	33	0.4	0.0	0.4
ER-NER						5.2	0.0	5.2
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	487	0	7.6	0.0	7.6
NER-NR						7.6	0.0	7.6
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1757	0.0	57.1	-57.1
2	HVDC	VINDHYACHAL B/B	-	46	0	1.3	0.0	1.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1922	0.0	37.6	-37.6
4	765 kV	GWALIOR-AGRA	2	0	2692	0.0	46.7	-46.7
5	765 kV	PHAGI-GWALIOR	2	0	1602	0.0	23.9	-23.9
6	765 kV	JABALPUR-ORAI	2	0	1456	0.0	41.8	-41.8
7	765 kV	GWALIOR-ORAI	1	921	60	7.4	0.1	7.3
8	765 kV	SATNA-ORAI	1	0	1604	0.0	11.9	-11.9
9	765 kV	CHITORGARH-BANASKANTHA	2	48	828	0.0	8.5	-8.5
10	400 kV	ZERDA-KANKROLI	1	110	167	0.0	0.6	-0.6
11	400 kV	ZERDA-BHINMAL	1	156	383	0.0	3.2	-3.2
12	400 kV	VINDHYACHAL-RIHAND	1	975	0	22.5	0.0	22.5
13	400 kV	RAPP-SHULPUR	2	46	489	0.0	5.1	-5.1
14	220 kV	BHANPURA-RANPUR	1	0	180	0.0	2.1	-2.1
15	220 kV	BHANPURA-MORAK	1	11	0	0.1	0.9	-0.8
16	220 kV	MERGAON-AURAIYA	1	118	0	0.6	0.0	0.6
17	220 kV	MALANPUR-AURAIYA	1	70	8	1.6	0.0	1.6
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						33.4	239.5	-206.1
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	13.3	-13.3
2	HVDC	RAIGARH-PUGALUR	2	0	1490	0.0	14.0	-14.0
3	765 kV	SOLAPUR-RAICHUR	2	307	2151	0.0	29.9	-29.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2291	0.0	36.1	-36.1
5	400 kV	KOLHAPUR-KUDGI	2	1272	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	1	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	41	0.7	0.0	0.7
WR-SR						16.9	93.3	-76.4
<b>INTERNATIONAL EXCHANGES</b>								
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)		
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	135	0	130	3.1		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	192	0	156	3.8		
	ER	230kV CHUKHA-BIRPARA 1&2 (& 230kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	39	28	39	6.2		
	NER	132KV-GEYLEGPHU - SALAKATI	22	5	10	0.2		
	NER	132kV Motanga-Rangh	5	0	-2	-0.1		
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-58	0	-47	-1.1		
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-254	-132	-220	-5.3		
	ER	132KV-BIHAR - NEPAL	-244	-1	-137	-3.3		
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-801	-320	-515	-12.4		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	52	0	-40	-1.0		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	53	0	-40	-1.0		