



**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: 12<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 11.12.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-दिसम्बर -2020 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 11<sup>th</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: 12-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)	46636	49126	38511	17426	2437	154136
Peak Shortage (MW)	500	0	0	0	38	538
Energy Met (MU)	938	1172	853	348	44	3354
Hydro Gen (MU)	121	43	73	38	14	290
Wind Gen (MU)	24	30	40	-	-	95
Solar Gen (MU)*	25.54	14.59	104.03	4.21	0.10	148
Energy Shortage (MU)	10.54	0.00	0.00	0.00	0.84	11.38
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48959	57111	41233	17878	2531	163477
Time Of Maximum Demand Met (From NLDC SCADA)	10:42	10:43	11:32	18:29	17:32	10:47

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	0.41	6.50	6.91	78.85	14.24

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	6383	0	123.0	71.4	-2.1	41	0.00
	Haryana	6091	0	126.8	93.3	0.6	163	0.41
	Rajasthan	12877	0	241.8	70.8	-1.0	289	0.00
	Delhi	3668	0	60.3	46.5	0.6	262	0.02
	UP	14763	0	261.7	93.4	-0.3	388	0.11
	Uttarakhand	2072	0	37.7	22.6	0.9	131	0.00
	HP	1717	0	31.0	24.5	-0.7	127	0.00
	J&K(UT) & Ladakh(UT)	2725	500	52.9	46.3	0.8	452	10.00
WR	Chandigarh	204	0	3.3	3.3	0.0	15	0.00
	Chhattisgarh	3697	0	80.2	24.4	-0.3	239	0.00
	Gujarat	14866	0	325.3	79.3	2.8	594	0.00
	MP	13164	0	246.4	155.8	-3.8	667	0.00
	Maharashtra	22928	0	467.6	154.2	-2.6	463	0.00
	Goa	505	0	9.8	10.0	-0.2	102	0.00
	DD	332	0	7.4	7.0	0.4	309	0.00
	DNH	798	0	18.1	18.2	-0.1	87	0.00
SR	AMNSIL	788	0	17.0	5.7	0.3	292	0.00
	Andhra Pradesh	7442	0	152.6	67.5	-0.2	636	0.00
	Telangana	9078	0	172.2	62.2	-0.1	490	0.00
	Karnataka	10389	0	188.8	64.6	-0.2	620	0.00
	Kerala	3631	0	73.0	51.5	0.6	219	0.00
	Tamil Nadu	12612	0	259.1	164.9	-0.4	391	0.00
	Puducherry	345	0	6.9	7.3	-0.4	37	0.00
	ER	Bihar	4307	0	75.5	74.2	0.1	414
DVC		3014	0	62.1	-38.7	1.3	376	0.00
Jharkhand		1470	0	25.6	19.3	-1.9	305	0.00
Odisha		3780	0	68.5	4.4	1.5	637	0.00
West Bengal		6200	0	114.0	12.4	0.1	755	0.00
Sikkim		115	0	1.7	1.8	-0.1	20	0.00
NER	Arunachal Pradesh	121	2	2.3	2.2	0.1	25	0.01
	Assam	1439	18	24.3	19.6	0.5	76	0.80
	Manipur	225	1	3.0	3.4	-0.4	23	0.01
	Meghalaya	362	0	6.4	4.0	0.2	267	0.00
	Mizoram	103	1	1.6	1.4	0.0	16	0.01
	Nagaland	131	1	2.5	1.9	0.4	20	0.01
	Tripura	226	1	3.5	3.0	-0.5	17	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.9	-6.5	-11.6
Day Peak (MW)	397.0	-448.4	-730.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	258.3	-270.9	132.1	-119.2	-0.2	0.0
Actual(MU)	250.0	-272.8	133.1	-118.9	-0.7	-9.4
OD/UD(MU)	-8.3	-1.9	1.0	0.3	-0.6	-9.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7235	14285	9672	2680	539	34410
State Sector	13421	14207	12827	5432	11	45898
Total	20656	28492	22499	8112	550	80308

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	441	1291	397	440	7	2575
Lignite	23	12	27	0	0	62
Hvdro	121	43	73	38	14	290
Nuclear	28	28	40	0	0	96
Gas, Naptha & Diesel	22	48	12	0	28	110
RES (Wind, Solar, Biomass & Others)	78	46	179	4	0	308
Total	713	1468	729	482	49	3441
Share of RES in total generation (%)	10.95	3.13	24.60	0.88	0.20	8.94
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.83	7.99	40.10	8.85	28.91	20.15

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.056

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: 12-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	299	0.0	7.4	-7.4	
3	765 kV	GAYA-VARANASI	2	0	1115	0.0	12.9	-12.9	
4	765 kV	SASARAM-FATEHPUR	1	57	333	0.0	3.0	-3.0	
5	765 kV	GAYA-BALIA	1	0	543	0.0	7.8	-7.8	
6	400 kV	PUSAULI-VARANASI	1	0	238	0.0	3.2	-3.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	312	0.0	4.0	-4.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	780	0.0	8.8	-8.8	
9	400 kV	PATNA-BALIA	4	0	1286	0.0	17.4	-17.4	
10	400 kV	BIHARSHARIF-BALIA	2	0	423	0.0	5.3	-5.3	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	388	0.0	5.7	-5.7	
12	400 kV	BIHARSHARIF-VARANASI	2	67	364	0.0	2.0	-2.0	
13	220 kV	PUSAULI-SAHUPURI	1	53	39	0.4	0.0	0.4	
14	132 kV	SONEG NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	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	0.8	77.4	-76.6
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	906	761	0.9	0.0	0.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	662	322	5.5	0.0	5.5	
3	765 kV	JHARSUGUDA-DURG	2	75	243	0.0	2.8	-2.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	256	281	0.3	0.0	0.3	
5	400 kV	RANCHI-SIPAT	2	239	107	1.9	0.0	1.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	36	112	0.0	1.0	-1.0	
7	220 kV	BUDHIPADAR-KORBA	2	118	45	0.9	0.0	0.9	
						ER-WR	9.4	3.7	5.7
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	523	0.0	12.3	-12.3	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2281	0.0	40.2	-40.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2586	0.0	43.2	-43.2	
4	400 kV	TALCHER/JC	2	439	1229	0.0	9.5	-9.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	95.7	-95.7
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	290	54	3.3	0.0	3.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	452	64	5.4	0.0	5.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	70	24	0.7	0.0	0.7	
						ER-NER	9.4	0.0	9.4
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	468	0	8.8	0.0	8.8	
						NER-NR	8.8	0.0	8.8
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1249	0.0	36.1	-36.1	
2	HVDC	VINDHYACHAL B/B	-	0	202	0.0	4.9	-4.9	
3	HVDC	MUNDA-MOHINDERGARH	2	0	1550	0.0	38.7	-38.7	
4	765 kV	GWALIOR-AGRA	2	0	2747	0.0	48.6	-48.6	
5	765 kV	PHAGGL-GWALIOR	2	0	1635	0.0	22.3	-22.3	
6	765 kV	JABALPUR-ORAI	2	0	1053	0.0	33.6	-33.6	
7	765 kV	GWALIOR-ORAI	1	736	0	10.8	0.0	10.8	
8	765 kV	SATNA-ORAI	1	0	1502	0.0	29.9	-29.9	
9	765 kV	CHITORGARH-BANASKANTHA	2	33	883	0.0	8.3	-8.3	
10	400 kV	ZERDA-KANKROLI	1	144	121	0.6	0.0	0.6	
11	400 kV	ZERDA-BHINMAL	1	213	302	0.0	0.9	-0.9	
12	400 kV	VINDHYACHAL-RIHAND	1	974	0	21.8	0.0	21.8	
13	400 kV	RAPP-SHUJALPUR	2	145	411	0.4	4.9	-4.5	
14	220 kV	BHANPURA-RANPUR	1	16	130	0.0	1.8	-1.8	
15	220 kV	BHANPURA-MORAK	1	11	0	0.2	1.2	-1.0	
16	220 kV	MEHGAON-AURAIYA	1	119	5	0.4	0.1	0.3	
17	220 kV	MALANPUR-AURAIYA	1	77	29	1.0	1.0	0.0	
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	35.3	231.3	-196.0
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	19.1	-19.1	
2	HVDC	RAIGARH-PUGALUR	2	0	1644	0.0	28.8	-28.8	
3	765 kV	SOLAPUR-RAICHUR	2	976	2356	0.0	15.6	-15.6	
4	765 kV	WARDHA-NIZAMABAD	2	284	1900	0.3	20.6	-20.4	
5	400 kV	KOLHAPUR-KUDGI	2	840	0	12.1	0.0	12.1	
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	45	0.8	0.0	0.8	
						WR-SR	13.2	84.1	-70.9

INTERNATIONAL EXCHANGES							
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)	155	0	148	3.5	
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	201	0	188	4.5	
	ER	220KV CHUKHA-BIRPARA 1&2 & 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	57	0	34	0.8	
	NER	132KV-GEYLEGPHU - SALAKATI	-22	-3	10	0.2	
	NER	132KV Motanga-Rangia	6	0	-1	0.0	
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	-1.1	
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-268	-100	-193	-4.6	
	ER	132KV-BIHAR - NEPAL	-121	-1	-31	-0.8	
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-640	-306	-408	-9.8	
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	45	0	-39	-0.9	
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	45	0	-39	-0.9	