



**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: 26<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 25.12.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 25-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 25<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: 26-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)	52029	51799	38484	18093	2505	162910
Peak Shortage (MW)	880	0	0	0	38	918
Energy Met (MU)	1051	1237	921	362	44	3615
Hydro Gen (MU)	112	46	68	35	13	274
Wind Gen (MU)	22	65	50	-	-	137
Solar Gen (MU)*	30.55	30.52	95.40	4.47	0.04	161
Energy Shortage (MU)	11.51	0.00	0.00	0.00	0.45	11.96
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55755	61001	46791	18312	2581	181411
Time Of Maximum Demand Met (From NLDC SCADA)	09:40	10:34	10:34	18:09	17:48	10:34

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	0.036	0.00	0.41	4.42	4.83	76.77	18.40

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	6613	0	126.5	68.1	-1.2	40	0.00	
	Haryana	6544	13	136.1	97.6	0.9	179	0.29	
	Rajasthan	14118	0	266.6	88.6	0.9	361	0.00	
	Delhi	4376	0	70.6	52.9	0.4	258	0.00	
	UP	18101	0	315.9	107.7	-1.0	233	0.02	
	Uttarakhand	2233	0	41.6	22.9	0.5	118	0.00	
	HP	1839	0	33.5	27.7	0.3	217	0.00	
	J&K(UT) & Ladakh(UT)	3186	550	56.5	51.4	-0.4	578	11.20	
WR	Chandigarh	228	0	3.7	3.8	-0.1	14	0.00	
	Chhattisgarh	4109	0	88.1	36.9	0.0	245	0.00	
	Gujarat	16606	0	344.9	75.3	3.9	711	0.00	
	MP	15396	0	299.1	172.7	-2.5	612	0.00	
	Maharashtra	22570	0	449.6	170.7	-0.6	670	0.00	
	Goa	444	0	9.6	9.2	0.1	38	0.00	
	DD	341	0	7.5	7.3	0.2	25	0.00	
	DNH	805	0	18.6	18.7	-0.1	28	0.00	
SR	AMNSIL	907	0	19.2	10.2	0.9	295	0.00	
	Andhra Pradesh	8701	0	164.1	79.9	0.3	557	0.00	
	Telangana	10652	0	196.9	88.2	-0.5	799	0.00	
	Karnataka	11812	0	210.0	74.8	-0.3	855	0.00	
	Kerala	3353	0	67.3	54.3	0.0	258	0.00	
	Tamil Nadu	13406	0	275.8	169.8	-1.1	470	0.00	
	Puducherry	338	0	6.9	7.2	-0.3	31	0.00	
	ER	Bihar	4955	0	86.6	83.7	1.5	300	0.00
DVC		3153	0	65.2	-38.9	-1.5	270	0.00	
Jharkhand		1508	0	27.1	21.4	-1.5	80	0.00	
Odisha		3779	0	69.6	-3.0	0.4	760	0.00	
West Bengal		5924	0	111.7	0.1	0.0	300	0.00	
Sikkim		143	0	2.2	1.8	0.4	40	0.00	
NER		Arumachal Pradesh	136	2	2.3	2.3	-0.1	34	0.01
		Assam	1399	15	23.7	19.8	0.8	125	0.40
	Manipur	229	1	3.1	3.5	-0.4	23	0.01	
	Meghalaya	363	0	6.9	4.3	0.1	39	0.00	
	Mizoram	106	1	1.8	1.5	-0.1	26	0.01	
	Nagaland	127	2	2.3	2.2	-0.1	8	0.02	
	Tripura	261	1	3.6	2.5	-0.1	57	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.8	-11.0	-12.0
Day Peak (MW)	349.0	-619.0	-656.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	266.1	-286.6	146.7	-128.0	1.8	0.0
Actual(MU)	263.4	-287.8	137.5	-120.2	3.8	-3.3
OD/UD(MU)	-2.8	-1.2	-9.3	7.9	2.1	-3.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4530	10845	9202	2900	539	28015
State Sector	9946	16524	13047	4222	11	43749
Total	14476	27369	22249	7122	550	71765

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	544	1295	426	473	7	2745
Lignite	24	12	39	0	0	75
Hydro	112	46	68	35	13	274
Nuclear	23	32	65	0	0	120
Gas, Naptha & Diesel	29	23	13	0	26	90
RES (Wind, Solar, Biomass & Others)	82	96	182	4	0	365
Total	815	1505	792	512	45	3669
Share of RES in total generation (%)	10.09	6.41	22.94	0.87	0.09	9.94
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.70	11.64	39.71	7.66	28.04	20.69

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.041

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: 26-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	151	0.0	0.5	-0.5	
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	0	936	0.0	13.1	-13.1	
4	765 kV	SASARAM-FATEHPUR	1	42	259	0.0	2.2	-2.2	
5	765 kV	GAYA-BALIA	1	0	584	0.0	9.8	-9.8	
6	400 kV	PUSAULI-VARANASI	1	0	222	0.0	4.3	-4.3	
7	400 kV	PUSAULI -ALLAHABAD	1	0	109	0.0	1.6	-1.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	744	0.0	7.5	-7.5	
9	400 kV	PATNA-BALIA	4	0	1007	0.0	15.7	-15.7	
10	400 kV	BIHARSHARIFF-BALIA	2	0	325	0.0	6.6	-6.6	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	287	0.0	5.1	-5.1	
12	400 kV	BIHARSHARIFF-VARANASI	2	83	207	0.0	1.4	-1.4	
13	220 kV	PUSAULI-SAHUPURI	1	70	49	0.5	0.0	0.5	
14	132 kV	SONE 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	0.9	73.8	-73.0
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	836	0	8.0	0.0	8.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	865	82	9.7	0.0	9.7	
3	765 kV	JHARSUGUDA-DURG	2	18	301	0.0	3.6	-3.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	47	468	0.0	5.7	-5.7	
5	400 kV	RANCHI-SIPAT	2	268	105	2.3	0.0	2.3	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	132	0.0	1.6	-1.6	
7	220 kV	BUDHIPADAR-KORBA	2	75	96	0.0	0.5	-0.5	
						ER-WR	20.0	11.3	8.7
<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	1978	0.0	44.7	-44.7	
3	765 kV	ANGUL-SRIKAKULAM	2	30335	2678	0.0	48.5	-48.5	
4	400 kV	TALCHER-I/C	2	290	928	0.0	4.0	-4.0	
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	215	190	0.7	0.0	0.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	334	205	1.0	0.0	1.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	53	49	0.0	0.0	0.0	
						ER-NER	1.7	0.0	1.7
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	488	0	5.8	0.0	5.8	
						NER-NR	5.8	0.0	5.8
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1504	0.0	42.9	-42.9	
2	HVDC	VINDHYACHAL B/B	-	238	303	2.6	0.7	1.9	
3	HVDC	MUNDA-MOHENDERGARH	2	133	1921	0.0	40.1	-40.1	
4	765 kV	GWALIOR-AGRA	2	15	2628	0.0	46.5	-46.5	
5	765 kV	PHAGI-GWALIOR	2	0	1560	0.0	22.9	-22.9	
6	765 kV	JABALPUR-ORAI	2	0	1093	0.0	43.3	-43.3	
7	765 kV	GWALIOR-ORAI	1	709	3	12.0	0.0	12.0	
8	765 kV	SATNA-ORAI	1	0	1380	0.0	27.5	-27.5	
9	765 kV	CHITORGARH-BANASKANTHA	2	96	971	0.0	9.1	-9.1	
10	400 kV	ZERDA-KANKROLI	1	149	143	0.0	0.5	-0.5	
11	400 kV	ZERDA -BHINMAL	1	344	317	0.0	2.3	-2.3	
12	400 kV	VINDHYACHAL -RIHAND	1	971	516	22.6	0.0	22.6	
13	400 kV	RAPT-SHILAPUR	2	111	3962	0.0	4.5	-4.5	
14	220 kV	BHANPURA-RANPUR	1	0	175	0.0	2.3	-2.3	
15	220 kV	BHANPURA-MORAK	1	11	32	0.0	1.2	-1.1	
16	220 kV	MEHGAON-AURAIYA	1	121	0	0.6	0.0	0.6	
17	220 kV	MALANPUR-AURAIYA	1	115	6	1.7	0.0	1.7	
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
19	132 kV	RAJGHAT-LALITPUR	2	0	72	0.0	0.0	0.0	
						WR-NR	39.4	243.9	-204.4
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	15.5	-15.5	
2	HVDC	RAIGARH-PUGAUR	2	0	1490	0.0	16.6	-16.6	
3	765 kV	SOLAPUR-RAICHUR	2	625	2397	0.0	23.5	-23.5	
4	765 kV	WARDHA-NIZAMABAD	2	3	2834	0.0	37.9	-37.9	
5	400 kV	KOLHAPUR-KUDGI	2	1205	0	18.2	0.0	18.2	
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	40	0.7	0.0	0.7	
						WR-SR	19.0	93.4	-74.5
<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)	194	0	135	3.2			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	140	0	135	3.2			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0.2			
	NER	132KV-GEYLEGPHU - SALAKATI	-20	-4	-10	-0.2			
NEPAL	NER	132KV Motanga-Rangia	9	2	3	0.1			
	ER	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-64	0	-49	-1.2			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-280	-218	-255	-6.1			
BANGLADESH	ER	132KV-BIHAR - NEPAL	-275	-1	-155	-3.7			
	ER	BHERAMARA HVDC(BANGLADESH)	-588	-326	-429	-10.3			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	34	0	-35	-0.9			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	34	0	-35	-0.9			