



**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: 17<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 16.12.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16<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: 17-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)	50427	50244	41974	18032	2503	163180
Peak Shortage (MW)	868	0	0	99	42	1009
Energy Met (MU)	985	1163	892	357	44	3441
Hydro Gen (MU)	117	48	74	36	12	287
Wind Gen (MU)	29	99	61	-	-	188
Solar Gen (MU)*	28.65	22.30	69.33	3.99	0.05	124
Energy Shortage (MU)	13.38	0.00	0.00	0.30	1.64	15.32
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52640	56605	43092	18412	2590	164111
Time Of Maximum Demand Met (From NLDC SCADA)	19:03	10:55	18:42	17:59	17:58	18:42

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	0.046	0.21	1.33	6.55	8.09	74.49	17.42

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	5935	0	117.7	64.3	-1.5	134	1.26
	Haryana	6570	68	130.1	89.9	1.5	267	0.78
	Rajasthan	12681	0	246.7	73.2	1.5	331	0.00
	Delhi	4135	0	69.6	53.0	1.2	289	0.00
	UP	16195	0	287.8	94.6	-2.1	274	0.00
	Uttarakhand	2124	0	39.4	23.4	1.0	236	0.00
	HP	1808	0	32.8	25.6	0.6	264	0.14
	J&K(UT) & Ladakh(UT)	2955	550	57.6	48.9	2.2	496	11.20
	Chandigarh	237	0	3.8	3.5	0.2	30	0.00
WR	Chhattisgarh	3652	0	81.4	24.2	-0.5	182	0.00
	Gujarat	15102	0	324.7	57.1	1.0	581	0.00
	MP	12975	0	247.4	141.7	-1.1	618	0.00
	Maharashtra	22384	0	456.1	156.9	-1.8	641	0.00
	Goa	509	0	10.5	10.4	0.0	27	0.00
	DD	344	0	7.5	7.1	0.3	28	0.00
	DNH	801	0	18.3	18.5	-0.2	35	0.00
	AMNSIL	772	0	17.5	8.9	0.3	377	0.00
	SR	Andhra Pradesh	8001	0	159.8	77.6	0.4	564
Telangana		9533	0	183.6	78.5	0.7	551	0.00
Karnataka		11353	0	200.4	73.1	0.3	560	0.00
Kerala		3564	0	72.9	54.0	0.6	259	0.00
Tamil Nadu		13098	0	268.0	165.4	-1.8	331	0.00
Puducherry		347	0	6.9	7.2	-0.3	56	0.00
ER	Bihar	4380	0	75.6	75.9	-1.6	294	0.00
	DVC	3075	0	63.3	-38.8	-0.5	254	0.00
	Jharkhand	1557	99	25.6	23.4	-1.6	171	0.30
	Odisha	4046	0	76.0	15.2	-0.2	557	0.00
	West Bengal	6207	0	114.2	12.3	-0.5	544	0.00
	Sikkim	141	0	2.2	1.9	0.3	52	0.00
NER	Arunachal Pradesh	123	2	2.2	2.1	0.0	72	0.01
	Assam	1438	15	24.2	19.2	1.2	100	1.59
	Manipur	233	2	3.2	3.4	-0.2	37	0.02
	Meghalaya	380	0	6.8	4.3	0.0	39	0.00
	Mizoram	115	1	1.7	1.4	0.0	20	0.01
	Nagaland	140	1	2.3	1.9	0.2	18	0.01
Tripura	219	2	3.5	2.8	-0.4	18	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.8	-8.1	-11.2
Day Peak (MW)	458.0	-489.9	-608.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	267.6	-307.3	149.1	-109.9	0.5	0.0
Actual(MU)	260.2	-303.8	151.3	-113.5	1.5	-4.4
O/D/U/D(MU)	-7.4	3.5	2.2	-3.6	0.9	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	8216	12870	8852	2170	509	32616
State Sector	12186	16448	12377	6742	11	47763
Total	20402	29317	21229	8912	520	80380

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	472	1242	419	450	7	2590
Lignite	18	14	29	0	0	60
Hydro	117	48	74	36	12	287
Nuclear	28	28	54	0	0	110
Gas, Naptha & Diesel	23	37	12	0	27	99
RES (Wind, Solar, Biomass & Others)	88	122	158	4	0	372
Total	746	1491	745	490	47	3520
Share of RES in total generation (%)	11.81	8.18	21.22	0.82	0.11	10.58
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.26	13.30	38.38	8.13	26.60	21.88

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.079

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: 17-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	7.1	-7.1	
3	765 kV	GAYA-VARANASI	2	0	1050	0.0	10.2	-10.2	
4	765 kV	SASARAM-FATEHPUR	1	66	418	0.0	3.4	-3.4	
5	765 kV	GAYA-BALIA	1	0	714	0.0	8.4	-8.4	
6	400 kV	PUSAULI-VARANASI	1	0	230	0.0	4.6	-4.6	
7	400 kV	PUSAULI-ALLAHABAD	1	0	155	0.0	2.4	-2.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	898	0.0	9.7	-9.7	
9	400 kV	PATNA-BALIA	4	0	1310	0.0	16.8	-16.8	
10	400 kV	BIHARSHARIFF-BALIA	2	0	258	0.0	3.1	-3.1	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	381	0.0	5.0	-5.0	
12	400 kV	BIHARSHARIFF-VARANASI	2	89	441	0.0	2.3	-2.3	
13	220 kV	PUSAULI-SAHUPURI	1	94	50	0.7	0.0	0.7	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3	
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	1.0	73.0	-72.0
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	826	232	9.1	0.0	9.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	647	435	4.4	0.0	4.4	
3	765 kV	JHARSUGUDA-DURG	2	62	192	0.0	1.5	-1.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	251	201	0.5	0.0	0.5	
5	400 kV	RANCHI-SIPAT	2	214	129	1.1	0.0	1.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	28	87	0.0	0.6	-0.6	
7	220 kV	BUDHIPADAR-KORBA	2	129	11	1.5	0.0	1.5	
						ER-WR	16.5	2.1	14.4
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	523	0.0	8.9	-8.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2000	0.0	46.6	-46.6	
3	765 kV	ANGUL-SRIKAKULAM	2	14553	2653	0.0	47.5	-47.5	
4	400 kV	TALCHER-IC	2	0	1238	0.0	17.4	-17.4	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	103.1	-103.1
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	264	29	3.9	0.0	3.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	418	10	5.9	0.0	5.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	66	16	0.9	0.0	0.9	
						ER-NER	10.6	0.0	10.6
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	473	0	11.6	0.0	11.6	
						NER-NR	11.6	0.0	11.6
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2001	0.0	46.4	-46.4	
2	HVDC	VINDHYACHAL B/B	-	97	104	1.1	1.3	-0.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1555	0.0	35.2	-35.2	
4	765 kV	GWALIOR-AGRA	2	0	2728	0.0	46.8	-46.8	
5	765 kV	PHAGI-GWALIOR	2	0	1692	0.0	20.0	-20.0	
6	765 kV	JABALPUR-ORAI	2	0	1067	0.0	33.8	-33.8	
7	765 kV	GWALIOR-ORAI	1	684	0	11.0	0.0	11.0	
8	765 kV	SATNA-ORAI	1	0	1392	0.0	26.7	-26.7	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1060	0.0	13.6	-13.6	
10	400 kV	ZERDA-KANKROLI	1	56	164	0.0	1.2	-1.2	
11	400 kV	ZERDA-BHINMAL	1	120	350	0.0	1.6	-1.6	
12	400 kV	VINDHYACHAL-RIHAND	1	953	0	13.5	0.0	13.5	
13	400 kV	RAPP-SHUJALPUR	2	93	519	0.0	4.1	-4.1	
14	220 kV	BHANPURA-RANPUR	1	0	210	0.0	2.8	-2.8	
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.7	-1.7	
16	220 kV	MEHGAON-AURAIYA	1	116	0	0.6	0.0	0.5	
17	220 kV	MALANPUR-AURAIYA	1	70	16	1.4	0.0	1.4	
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	27.5	235.1	-207.6
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	23.8	-23.8	
2	HVDC	RAIGARH-PUGALUR	2	0	1499	0.0	19.9	-19.9	
3	765 kV	SOLAPUR-RAICHUR	2	294	2183	0.0	24.3	-24.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2384	0.0	30.9	-30.9	
5	400 kV	KOLHAPUR-KUDGI	2	1185	0	17.0	0.0	17.0	
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	0.8	0.0	0.8	
						WR-SR	17.8	98.9	-81.1

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)	160	0	144	3.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	217	155	167	4.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	52	0	16	0.4
	NER	132KV-GEYLEGPHU - SALAKATI	21	5	12	0.3
	NER	132kV Motanga-Rangia	8	2	-3	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-61	0	-51	-1.2
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-249	-134	-222	-5.3
	ER	132KV-BIHAR - NEPAL	-180	-1	-65	-1.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-514	-320	-388	-9.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	47	0	-40	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	47	0	-39	-0.9