



**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: 02<sup>nd</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 01.12.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01<sup>st</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: 02-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)	46076	50587	38068	16710	2420	153861
Peak Shortage (MW)	0	0	0	0	57	57
Energy Met (MU)	922	1224	817	343	42	3349
Hydro Gen (MU)	103	48	72	45	12	280
Wind Gen (MU)	3	34	53	-	-	90
Solar Gen (MU)*	36.07	30.58	96.58	4.42	0.13	168
Energy Shortage (MU)	0.20	0.00	0.00	0.00	0.44	0.64
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47566	58021	39392	17398	2537	159456
Time Of Maximum Demand Met (From NLDC SCADA)	09:50	10:53	17:57	17:50	17:45	09:55

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	0.029	0.00	0.00	1.62	1.62	74.00	24.38

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	6077	0	117.0	57.6	-0.1	180	0.00
	Haryana	6354	343	126.9	111.6	2.5	276	0.20
	Rajasthan	12886	0	240.0	83.7	1.5	373	0.00
	Delhi	3486	0	61.2	45.8	0.7	214	0.00
	UP	14626	0	259.1	90.6	0.2	359	0.00
	Uttarakhand	1893	0	34.6	26.3	0.2	113	0.00
	HP	1619	0	29.5	22.6	-0.4	84	0.00
	J&K(UT) & Ladakh(UT)	2879	0	50.6	46.4	-0.8	431	0.00
WR	Chandigarh	194	0	3.2	3.3	-0.1	23	0.00
	Chhattisgarh	3423	0	74.3	20.3	-0.1	187	0.00
	Gujarat	16050	0	346.8	69.3	4.1	527	0.00
	MP	14325	0	279.5	165.2	-0.3	557	0.00
	Maharashtra	22990	0	471.3	156.7	-1.7	777	0.00
	Goa	509	0	10.4	10.2	0.0	31	0.00
	DD	324	0	7.2	7.0	0.2	27	0.00
	DNH	779	0	18.1	18.2	-0.1	37	0.00
SR	AMNSIL	745	0	16.6	2.6	0.2	293	0.00
	Andhra Pradesh	7090	0	139.5	61.7	0.8	661	0.00
	Telangana	7114	0	139.9	51.1	-3.6	600	0.00
	Karnataka	10309	0	193.6	59.4	0.3	468	0.00
	Kerala	3674	0	73.7	52.9	0.5	292	0.00
	Tamil Nadu	12883	0	264.0	163.9	-1.6	510	0.00
	Puducherry	339	0	6.7	7.0	-0.4	30	0.00
	ER	Bihar	4168	0	71.9	73.5	-2.8	300
DVC		2926	0	62.7	45.8	-0.4	211	0.00
Jharkhand		1350	42	24.8	18.3	-1.7	134	0.00
Odisha		3798	0	71.2	6.7	1.1	312	0.00
West Bengal		5896	0	111.3	13.2	0.7	340	0.00
Sikkim		109	0	1.6	1.7	-0.1	20	0.00
NER	Arunachal Pradesh	118	1	2.1	2.2	-0.1	22	0.01
	Assam	1437	30	23.3	20.1	0.1	115	0.40
	Manipur	224	2	3.0	3.0	0.0	56	0.01
	Meghalaya	341	0	5.9	4.1	-0.1	32	0.00
	Mizoram	108	1	1.6	1.3	0.0	23	0.01
	Nagaland	132	2	2.1	1.9	0.0	22	0.01
	Tripura	218	6	3.7	3.1	-0.3	36	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	11.4	-5.6	-13.6
Day Peak (MW)	490.0	-435.4	-888.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	280.2	-262.0	103.2	-122.1	0.7	0.0
Actual(MU)	275.4	-249.7	97.6	-129.5	0.1	-6.3
O/D/U/D(MU)	-4.8	12.3	-5.6	-7.4	-0.7	-6.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7466	15385	11032	2440	659	36981
State Sector	14266	15055	13197	4592	11	47120
Total	21732	30439	24229	7032	670	84102

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	424	1272	381	448	7	2532
Lignite	24	9	23	0	0	56
Hydro	103	48	72	45	12	280
Nuclear	28	33	60	0	0	121
Gas, Naptha & Diesel	20	62	14	0	27	122
RES (Wind, Solar, Biomass & Others)	66	65	185	4	0	320
Total	664	1490	734	498	46	3431
Share of RES in total generation (%)	9.95	4.36	25.18	0.89	0.28	9.33
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	29.71	9.81	43.09	9.86	26.86	21.02

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.075

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: 02-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	297	0.0	7.4	-7.4	
3	765 kV	GAYA-VARANASI	2	0	1139	0.0	14.4	-14.4	
4	765 kV	SASARAM-FATEHPUR	1	0	430	0.0	4.6	-4.6	
5	765 kV	GAYA-BALIA	1	0	533	0.0	8.6	-8.6	
6	400 kV	PUSAULI-VARANASI	1	0	219	0.0	4.7	-4.7	
7	400 kV	PUSAULI -ALLAHABAD	1	0	161	0.0	2.6	-2.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	975	0.0	11.3	-11.3	
9	400 kV	PATNA-BALIA	4	0	1284	0.0	18.4	-18.4	
10	400 kV	BIHARSHARIF-BALIA	2	0	565	0.0	6.7	-6.7	
11	400 kV	MOTIHARIGORAKHPUR	2	0	365	0.0	5.6	-5.6	
12	400 kV	BIHARSHARIF-VARANASI	2	0	448	0.0	3.5	-3.5	
13	220 kV	PUSAULI-SAHUPURI	1	44	56	0.0	0.0	0.0	
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	0.3	87.8	-87.4
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	288	1424	0.0	5.7	-5.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	556	252	4.1	0.0	4.1	
3	765 kV	JHARSUGUDA-DURG	2	3	314	0.0	3.7	-3.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	236	266	0.0	0.8	-0.8	
5	400 kV	RANCHI-SIPAT	2	199	138	1.3	0.0	1.3	
6	220 kV	BUDHIPADAR-RAIGARH	1	49	66	0.0	0.2	-0.2	
7	220 kV	BUDHIPADAR-KORBA	2	148	15	1.6	0.0	1.6	
						ER-WR	7.0	10.4	-3.4
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	537	0.0	12.4	-12.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2477	0.0	39.4	-39.4	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2330	0.0	37.1	-37.1	
4	400 kV	TALCHER-I/C	2	421	1112	0.0	6.9	-6.9	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	88.9	-88.9
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	286	38	4.3	0.0	4.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	431	41	6.3	0.0	6.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	65	23	0.9	0.0	0.9	
						ER-NER	11.5	0.0	11.5
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	471	0	11.5	0.0	11.5	
						NER-NR	11.5	0.0	11.5
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	999	0.0	42.3	-42.3	
2	HVDC	VINDHYACHAL B/B	-	49	0	1.2	0.0	1.2	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	1918	0.0	34.9	-34.9	
4	765 kV	GWALIOR-AGRA	2	0	2732	0.0	51.2	-51.2	
5	765 kV	PHAGL-GWALIOR	2	0	1867	0.0	25.4	-25.4	
6	765 kV	JABALPUR-ORAI	2	0	1083	0.0	37.3	-37.3	
7	765 kV	GWALIOR-ORAI	1	703	0	10.9	0.0	10.9	
8	765 kV	SATNA-ORAI	1	0	1410	0.0	29.4	-29.4	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1033	0.0	11.7	-11.7	
10	400 kV	ZERDA-KANKROLI	1	19	197	0.0	1.3	-1.3	
11	400 kV	ZERDA -BHINMAL	1	0	469	0.0	5.2	-5.2	
12	400 kV	VINDHYACHAL-RIHAND	1	975	0	22.5	0.0	22.5	
13	400 kV	RAPP-SIHUAI PUR	2	0	493	0.0	4.6	-4.6	
14	220 kV	BHANPURA-RANPUR	1	0	174	0.0	2.3	-2.3	
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.1	-1.1	
16	220 kV	MEHGAON-AURAIYA	1	98	2	0.2	0.1	0.1	
17	220 kV	MALANPUR-AURAIYA	1	61	24	0.6	0.0	0.6	
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	35.6	246.8	-211.2
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	12.6	-12.6	
2	HVDC	RAIGARH-PUGAULT	2	0	1489	0.0	10.8	-10.8	
3	765 kV	SOLAPUR-RAICHUR	2	1596	2171	0.0	11.3	-11.3	
4	765 kV	WARDHA-NIZAMABAD	2	843	1613	0.0	15.5	-15.5	
5	400 kV	KOLHAPUR-KUDGI	2	699	0	7.6	0.0	7.6	
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	XELDAM-AMBEWADI	1	0	43	0.8	0.0	0.8	
						WR-SR	8.4	50.2	-41.8

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR & 2 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	169	0	158	3.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	231	0	213	5.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	70	0	49	1.2
	NER	132KV-GEYLEGPHU - SALAKATI	1	-13	6	0.1
	NER	132kV Motanga-Rangis	-11	-2	-11	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-59	0	-44	-1.1
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-210	-42	-157	-3.8
	ER	132KV-BIHAR - NEPAL	-166	-1	-34	-0.8
	ER	BHERAMARA HVDC(BANGLADESH)	-780	-388	-480	-11.5
BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	54	0	-44	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	54	0	-44	-1.1