



**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: 29<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 28.12.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28<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: 29-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)	53329	52319	40395	18461	2542	167046
Peak Shortage (MW)	550	0	0	0	8	558
Energy Met (MU)	1014	1236	936	364	44	3594
Hydro Gen (MU)	111	42	83	32	12	280
Wind Gen (MU)	10	56	29	-	-	95
Solar Gen (MU)*	36.78	32.43	90.75	4.49	0.11	165
Energy Shortage (MU)	11.31	0.00	0.00	0.00	0.05	11.36
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54440	61123	47990	18931	2601	180791
Time Of Maximum Demand Met (From NLDC SCADA)	10:20	10:40	11:00	18:02	17:55	10:19

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	0.027	0.00	0.00	2.93	2.93	74.09	22.99

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	6250	0	118.2	63.9	-1.2	94	0.00
	Haryana	6678	0	129.2	95.8	1.2	322	0.00
	Rajasthan	13744	0	258.8	93.3	0.0	413	0.00
	Delhi	4229	0	69.2	52.7	0.1	246	0.00
	UP	17695	0	306.8	100.4	-1.1	293	0.11
	Uttarakhand	2208	0	41.0	22.5	0.6	231	0.00
	HP	1706	0	32.0	26.7	-0.4	176	0.00
	J&K(UT) & Ladakh(UT)	3176	550	54.4	48.6	0.1	525	11.20
WR	Chandigarh	250	0	4.2	4.0	0.2	38	0.00
	Chhattisgarh	4086	0	85.4	34.0	-1.9	271	0.00
	Gujarat	16557	0	338.4	80.8	1.8	535	0.00
	MP	15432	0	297.9	173.2	-1.3	698	0.00
	Maharashtra	23086	0	456.0	178.9	-1.1	870	0.00
	Goa	492	0	13.2	9.7	2.9	32	0.00
	DD	324	0	7.1	7.0	0.1	16	0.00
	DNH	816	0	18.7	18.4	0.3	69	0.00
SR	AMNSIL	880	0	19.6	10.7	1.0	288	0.00
	Andhra Pradesh	8459	0	167.1	84.9	0.9	516	0.00
	Telangana	10742	0	199.6	83.9	-0.4	738	0.00
	Karnataka	11950	0	212.2	85.2	0.5	720	0.00
	Kerala	3624	0	70.5	55.8	0.7	328	0.00
	Tamil Nadu	13966	0	280.0	160.9	1.2	840	0.00
	Puducherry	348	0	6.6	6.9	-0.3	44	0.00
ER	Bihar	4942	0	86.7	85.0	0.2	346	0.00
	DVC	3060	0	65.1	-39.0	0.2	298	0.00
	Jharkhand	1461	0	27.6	22.3	-1.9	9	0.00
	Odisha	3871	0	70.8	-0.6	0.2	333	0.00
	West Bengal	6285	0	111.1	13.8	0.2	407	0.00
	Sikkim	144	0	2.3	1.9	0.4	38	0.00
NER	Arunachal Pradesh	123	1	2.2	2.2	-0.2	48	0.01
	Assam	1404	3	24.2	19.6	1.2	109	0.00
	Manipur	215	1	3.1	3.6	-0.5	31	0.01
	Meghalaya	368	0	6.8	4.1	0.3	52	0.00
	Mizoram	111	1	2.0	1.5	0.0	35	0.01
	Nagaland	130	2	2.5	2.2	0.1	10	0.02
Tripura	211	1	3.6	2.5	-0.1	23	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.3	-11.2	-15.7
Day Peak (MW)	292.0	-609.3	-824.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	257.5	-278.9	138.1	-119.1	2.3	0.0
Actual(MU)	243.5	-274.6	128.9	-115.8	4.5	-13.4
O/D/U/D(MU)	-14.0	4.3	-9.2	3.4	2.2	-13.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4420	10185	8042	1970	539	25155
State Sector	10818	15441	11937	4472	11	42678
Total	15238	25625	19979	6442	550	67834

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	529	1318	449	470	7	2773
Lignite	25	11	41	0	0	77
Hydro	111	42	83	32	12	280
Nuclear	24	33	65	0	0	122
Gas, Naptha & Diesel	29	27	13	0	26	94
RES (Wind, Solar, Biomass & Others)	76	90	158	4	0	329
Total	793	1522	808	507	44	3673
Share of RES in total generation (%)	9.57	5.92	19.60	0.88	0.25	8.95
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.52	10.89	37.85	7.25	26.60	19.88

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.046

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: 29-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	249	0.0	6.3	-6.3	
3	765 kV	GAYA-VARANASI	2	0	958	0.0	12.6	-12.6	
4	765 kV	SASARAM-FATEHPUR	1	92	296	0.0	2.7	-2.7	
5	765 kV	GAYA-BALIA	1	0	496	0.0	7.6	-7.6	
6	400 kV	PUSAULI-VARANASI	1	0	209	0.0	4.2	-4.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	119	0.0	1.9	-1.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	23	660	0.0	6.9	-6.9	
9	400 kV	PATNA-BALIA	4	0	1008	0.0	14.6	-14.6	
10	400 kV	BIHARSHARIFF-BALIA	2	0	336	0.0	4.8	-4.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	332	0.0	5.4	-5.4	
12	400 kV	BIHARSHARIFF-VARANASI	2	92	246	0.0	1.4	-1.4	
13	220 kV	PUSAULI-SAHUPURI	1	84	30	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	0.4	0.0	0.4	
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	1.1	68.4	-67.4
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	928	314	7.1	0.0	7.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	756	244	6.2	0.0	6.2	
3	765 kV	JHARSUGUDA-DURG	2	20	291	0.0	3.4	-3.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	39	486	0.0	6.7	-6.7	
5	400 kV	RANCHI-SIPAT	2	263	118	1.7	0.0	1.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	150	0.0	2.2	-2.2	
7	220 kV	BUDHIPADAR-KORBA	2	38	52	0.0	0.1	-0.1	
						ER-WR	14.9	12.3	2.6
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	481	0.0	9.3	-9.3	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1973	0.0	41.2	-41.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2689	0.0	49.8	-49.8	
4	400 kV	TALCHER-I/C	2	425	964	0.0	1.1	-1.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	100.3	-100.3
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	233	243	0.9	0.0	0.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	375	351	1.6	0.0	1.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	62	71	0.1	0.0	0.1	
						ER-NER	2.6	0.0	2.6
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	487	0	7.3	0.0	7.3	
						NER-NR	7.3	0.0	7.3
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1503	0.0	51.9	-51.9	
2	HVDC	VINDHYACHAL B/B	-	46	56	1.2	0.0	1.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1460	0.0	30.5	-30.5	
4	765 kV	GWALIOR-AGRA	2	0	2678	0.0	42.3	-42.3	
5	765 kV	PHAGI-GWALIOR	2	0	1653	0.0	23.4	-23.4	
6	765 kV	JABALPUR-ORAI	2	0	1060	0.0	33.8	-33.8	
7	765 kV	GWALIOR-ORAI	1	759	0	11.7	0.0	11.7	
8	765 kV	SATNA-ORAI	1	0	1437	0.0	27.2	-27.2	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1098	0.0	10.7	-10.7	
10	400 kV	ZERDA-KANKROLI	1	72	173	0.0	0.9	-0.9	
11	400 kV	ZERDA -BHINMAL	1	75	400	0.0	4.0	-4.0	
12	400 kV	VINDHYACHAL -RIHAND	1	975	0	21.5	0.0	21.5	
13	400 kV	RAPP-SHUJALPUR	2	162	519	0.5	3.6	-3.2	
14	220 kV	BHANPURA-RANPUR	1	0	192	0.0	2.4	-2.4	
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	1.1	-1.1	
16	220 kV	MEHGAON-AURAIYA	1	127	0	0.8	0.0	0.8	
17	220 kV	MALANPUR-AURAIYA	1	77	5	1.8	0.0	1.8	
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	37.5	231.8	-194.3
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	19.0	-19.0	
2	HVDC	RAIGARH-PUGALUR	2	0	998	0.0	13.5	-13.5	
3	765 kV	SOLAPUR-RAICHUR	2	346	2205	0.0	27.3	-27.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2611	0.0	36.5	-36.5	
5	400 kV	KOLHAPUR-KUDGI	2	1220	0	14.6	0.0	14.6	
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	XELDEM-AMBEWADI	1	0	42	0.7	0.0	0.7	
						WR-SR	15.3	96.3	-81.0
<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)	153	0	124	3.0			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	140	0	136	3.3			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	29	0	1	0.0			
	NER	132KV-GEYLEGPHU - SALAKATI	-21	-2	10	0.3			
	NER	132kV Motanga-Rangia	-9	0	0	0.0			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-61	0	-56	-1.3			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-270	-181	-243	-5.8			
	ER	132KV-BIHAR - NEPAL	-278	-1	-166	-4.0			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-824	-342	-573	-13.8			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	0	0	0	-0.8			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	0	0	0	-1.2			