



**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: 21<sup>th</sup> Jan 2021

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 20.01.2021.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-जनवरी -2021 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 20<sup>th</sup> January 2021, 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:

21-Jan-2021

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)	52429	52921	42529	19021	2566	169466
Peak Shortage (MW)	670	0	0	0	27	697
Energy Met (MU)	1048	1280	988	396	43	3754
Hydro Gen (MU)	102	57	83	37	9	289
Wind Gen (MU)	5	30	17	-	-	52
Solar Gen (MU)*	37.09	32.92	102.89	4.32	0.07	177
Energy Shortage (MU)	12.59	0.00	0.00	0.00	0.54	13.13
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55414	61989	49994	19422	2663	185682
Time Of Maximum Demand Met (From NLDC SCADA)	10:16	11:21	09:31	18:17	18:03	09:31

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	0.026	0.00	0.00	1.94	1.94	77.73	20.32

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	6944	0	133.1	55.8	-1.2	78	0.00
	Haryana	6780	0	135.4	83.7	0.5	182	0.00
	Rajasthan	14193	0	266.1	91.2	2.6	517	0.00
	Delhi	4735	0	76.7	64.7	-0.9	270	0.00
	UP	17257	0	301.0	88.9	-1.0	286	0.00
	Uttarakhand	2241	0	41.8	24.2	1.0	187	0.19
	HP	1917	0	33.3	27.3	0.4	278	0.00
	J&K(UT) & Ladakh(UT)	2633	600	56.8	50.9	0.1	172	12.40
WR	Chandigarh	247	0	3.9	3.8	0.2	86	0.00
	Chhattisgarh	4340	0	93.1	44.1	1.1	340	0.00
	Gujarat	16556	0	348.8	114.9	1.5	571	0.00
	MP	14821	0	290.8	177.7	-1.5	551	0.00
	Maharashtra	23868	0	491.7	161.6	-2.2	628	0.00
	Goa	558	0	11.8	11.8	-0.2	77	0.00
	DD	344	0	7.7	7.4	0.3	25	0.00
	DNH	841	0	19.6	19.6	0.0	41	0.00
SR	AMNSIL	760	0	16.3	10.0	0.0	316	0.00
	Andhra Pradesh	9118	0	181.3	72.9	0.9	568	0.00
	Telangana	12322	0	234.1	111.6	0.3	727	0.00
	Karnataka	12025	0	223.2	84.3	0.8	623	0.00
	Kerala	3665	0	73.1	48.9	0.6	273	0.00
	Tamil Nadu	13282	0	269.5	160.4	-0.9	473	0.00
	Puducherry	354	0	7.2	7.2	0.0	48	0.00
ER	Bihar	4990	0	91.9	82.0	3.0	551	0.00
	DVC	3002	0	68.3	-42.0	0.4	230	0.00
	Jharkhand	1492	0	26.7	20.7	-2.6	121	0.00
	Odisha	4208	0	77.3	0.5	0.7	343	0.00
	West Bengal	6656	0	130.1	6.6	-0.3	452	0.00
	Sikkim	116	0	1.5	2.0	-0.5	16	0.00
NER	Arunachal Pradesh	144	3	2.3	2.2	0.0	52	0.01
	Assam	1486	13	23.4	18.1	0.0	128	0.50
	Manipur	235	2	2.5	3.4	-0.8	51	0.01
	Meghalaya	440	4	6.9	4.6	0.3	44	0.00
	Mizoram	122	2	1.7	1.6	-0.2	34	0.01
	Nagaland	138	1	2.2	2.0	0.1	29	0.01
	Tripura	221	1	3.6	2.4	-0.3	41	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.8	-12.5	-18.3
Day Peak (MW)	238.0	-621.6	-996.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	258.1	-241.7	110.0	-126.8	0.4	0.0
Actual(MU)	258.4	-253.7	114.9	-125.1	-0.4	-5.9
O/D/U/D(MU)	0.2	-12.0	4.9	1.7	-0.7	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6386	12563	6702	2455	599	28704	44
State Sector	8915	13653	9377	4032	11	35987	56
Total	15301	26215	16079	6487	610	64692	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	581	1372	550	508	7	3018	78
Lignite	26	8	38	0	0	71	2
Hydro	102	57	83	37	9	289	8
Nuclear	13	24	40	0	0	77	2
Gas, Naptha & Diesel	24	27	12	0	31	94	2
RES (Wind, Solar, Biomass & Others)	69	63	159	4	0	296	8
Total	815	1551	882	550	47	3844	100

Share of RES in total generation (%)	8.52	4.09	18.00	0.79	0.15	7.70
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	22.71	9.31	31.92	7.60	18.76	17.21

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.040

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: 21-Jan-2021

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	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	0	962	0.0	13.4	-13.4	
4	765 kV	SASARAM-FATEHPUR	1	0	334	0.0	4.9	-4.9	
5	765 kV	GAYA-BALIA	1	0	603	0.0	9.2	-9.2	
6	400 kV	PUSAULI-VARANASI	1	0	204	0.0	4.1	-4.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	111	0.0	1.8	-1.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	725	0.0	9.1	-9.1	
9	400 kV	PATNA-BALIA	4	0	1159	0.0	17.8	-17.8	
10	400 kV	BIHARSHARIFF-BALIA	2	0	583	0.0	7.8	-7.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	326	0.0	5.1	-5.1	
12	400 kV	BIHARSHARIFF-VARANASI	2	53	314	0.0	2.6	-2.6	
13	220 kV	PUSAULI-SAHUPURI	1	63	71	0.2	0.0	0.2	
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	0.6	81.7	-81.1
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	631	169	5.2	0.0	5.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	711	260	3.3	0.0	3.3	
3	765 kV	JHARSUGUDA-DURG	2	35	306	0.0	3.3	-3.3	
4	400 kV	JHARSUGUDA-RAIGARH	4	72	415	0.0	3.5	-3.5	
5	400 kV	RANCHI-SIPAT	2	281	94	1.6	0.0	1.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	99	0.0	1.9	-1.9	
7	220 kV	BUDHIPADAR-KORBA	2	28	0	1.4	0.0	1.4	
						ER-WR	11.5	8.7	2.8
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	485	0.0	8.7	-8.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2455	0.0	40.3	-40.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2578	0.0	46.6	-46.6	
4	400 kV	TALCHER-I/C	2	141	1090	0.0	6.8	-6.8	
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	310	21	3.1	0.0	3.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	509	0	5.2	0.0	5.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	92	15	0.8	0.0	0.8	
						ER-NER	9.1	0.0	9.1
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	490	0	9.3	0.0	9.3	
						NER-NR	9.3	0.0	9.3
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1991	0.0	46.7	-46.7	
2	HVDC	VINDHYACHAL B/B	-	238	0	6.0	0.0	6.0	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1739	0.0	38.9	-38.9	
4	765 kV	GWALIOR-AGRA	2	0	2846	0.0	43.6	-43.6	
5	765 kV	PHAGI-GWALIOR	2	0	1475	0.0	23.3	-23.3	
6	765 kV	JABALPUR-ORAI	2	0	1288	0.0	36.4	-36.4	
7	765 kV	GWALIOR-ORAI	1	831	0	15.4	0.0	15.4	
8	765 kV	SATNA-ORAI	1	0	1625	0.0	30.0	-30.0	
9	765 kV	CHITORGARH-BANASKANTHA	2	533	687	0.0	0.4	-0.4	
10	400 kV	ZERDA-KANKROLI	1	153	106	1.0	0.0	1.0	
11	400 kV	ZERDA-BHINMAL	1	143	310	0.2	2.7	-2.5	
12	400 kV	VINDHYACHAL-RIHAND	1	493	0	11.2	0.0	11.2	
13	400 kV	RAPP-SHUJALPUR	2	100	640	0.1	5.3	-5.2	
14	220 kV	BHANPURA-RANPUR	1	21	139	0.0	0.9	-0.9	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0	
16	220 kV	MEHGAON-AURAIYA	1	114	0	0.5	1.1	-0.6	
17	220 kV	MALANPUR-AURAIYA	1	67	19	0.0	0.2	-0.1	
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	0.2	-0.2	
						WR-NR	34.4	229.7	-195.3
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	791	1012	3.5	11.3	-7.9	
2	HVDC	RAIGARH-PUGALUR	2	958	992	0.0	7.2	-7.2	
3	765 kV	SOLAPUR-RAICHUR	2	352	1798	0.0	18.7	-18.7	
4	765 kV	WARDHA-NIZAMABAD	2	0	2577	0.0	44.7	-44.7	
5	400 kV	KOLHAPUR-KUDGI	2	1422	0	21.7	0.0	21.7	
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	1	36	0.2	0.0	0.2	
						WR-SR	25.4	81.9	-56.5
<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)	121	115	116	2.8			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	120	0	103	2.5			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	16	0	-20	-0.5			
	NER	132KV-GEYLEGPHU - SALAKATI	-28	-2	11	0.3			
	NER	132kV Motanga-Rangia	10	1	-4	-0.1			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-82	0	-72	-1.7			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-275	-195	-258	-6.2			
	ER	132KV-BIHAR - NEPAL	-265	-133	-191	-4.6			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-888	-454	-675	-16.2			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	54	0	-44	-1.1			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	54	0	-44	-1.1			