



**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>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 28.01.2021.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28<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:

29-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)	53124	52246	42941	19179	2579	170069
Peak Shortage (MW)	600	0	0	0	32	632
Energy Met (MU)	1069	1256	1026	398	45	3795
Hydro Gen (MU)	100	45	75	36	11	267
Wind Gen (MU)	5	56	58	-	-	120
Solar Gen (MU)*	39.08	35.15	101.73	4.44	0.10	181
Energy Shortage (MU)	12.44	0.00	0.00	0.00	0.54	12.98
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55683	61693	53214	19609	2613	188452
Time Of Maximum Demand Met (From NLDC SCADA)	10:21	10:44	09:49	18:41	18:02	09:42

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	0.030	0.00	0.00	4.00	4.00	77.21	18.78

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	6941	0	135.6	63.1	-1.0	26	0.00
	Haryana	6857	170	140.9	86.3	0.9	171	0.04
	Rajasthan	13987	0	267.1	91.4	1.5	583	0.00
	Delhi	4564	0	74.6	62.7	-0.9	271	0.00
	UP	18287	0	317.2	98.2	0.9	457	0.00
	Uttarakhand	2340	0	42.6	25.9	0.6	227	0.00
	HP	1813	0	33.4	27.9	0.6	171	0.00
	J&K(UT) & Ladakh(UT)	2645	600	53.7	49.4	-0.6	181	12.40
WR	Chandigarh	254	0	4.2	3.9	0.3	47	0.00
	Chhattisgarh	4329	0	94.1	49.7	-0.4	196	0.00
	Gujarat	15972	0	334.5	99.0	5.0	600	0.00
	MP	15099	0	288.4	168.9	-2.2	448	0.00
	Maharashtra	23896	0	485.2	146.4	-2.5	592	0.00
	Goa	497	0	10.2	10.0	-0.3	76	0.00
	DD	341	0	7.6	7.4	0.2	23	0.00
	DNH	850	0	19.7	19.5	0.2	38	0.00
SR	AMNSIL	763	0	16.0	6.1	0.1	255	0.00
	Andhra Pradesh	9930	0	185.1	75.2	0.0	415	0.00
	Telangana	12853	0	243.1	139.0	-0.4	909	0.00
	Karnataka	12556	0	234.1	82.9	-0.1	926	0.00
	Kerala	3615	0	70.3	53.4	-0.2	203	0.00
	Tamil Nadu	14095	0	286.0	168.1	0.4	633	0.00
	Puducherry	382	0	7.9	8.1	-0.2	42	0.00
ER	Bihar	4835	0	95.6	80.9	2.9	298	0.00
	DVC	3107	0	66.9	-50.3	-1.4	355	0.00
	Jharkhand	1421	0	25.8	19.1	-2.1	219	0.00
	Odisha	4171	0	77.2	-1.0	0.6	320	0.00
	West Bengal	6869	0	131.0	10.1	0.1	353	0.00
NER	Sikkim	131	0	1.9	1.9	0.1	44	0.00
	Arunachal Pradesh	130	1	2.5	2.6	-0.2	14	0.01
	Assam	1457	10	24.5	19.1	0.8	115	0.50
	Manipur	230	1	3.2	3.3	-0.1	25	0.01
	Meghalaya	382	0	6.9	4.6	0.2	24	0.00
	Mizoram	127	0	1.6	1.6	-0.3	32	0.01
	Nagaland	126	1	2.3	1.9	0.2	19	0.01
Tripura	223	4	4.0	2.4	0.1	43	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.0	-14.1	-19.0
Day Peak (MW)	170.0	-679.7	-982.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	262.1	-286.1	150.8	-127.8	1.0	0.0
Actual(MU)	263.4	-293.7	147.5	-125.0	2.6	-5.2
O/D/U/D(MU)	1.3	-7.6	-3.3	2.8	1.6	-5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5644	11903	7332	2565	569	28012	43
State Sector	10110	13785	9377	3942	11	37225	57
Total	15754	25688	16709	6507	580	65237	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	591	1362	525	512	7	2997	77
Lignite	23	9	34	0	0	66	2
Hydro	100	45	75	36	11	267	7
Nuclear	19	19	47	0	0	84	2
Gas, Naptha & Diesel	24	32	13	0	28	96	2
RES (Wind, Solar, Biomass & Others)	72	93	194	4	0	363	9
Total	827	1560	887	552	47	3874	100

Share of RES in total generation (%)	8.69	5.95	21.89	0.80	0.21	9.38
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	22.95	10.06	35.57	7.27	24.28	18.43

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
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: 29-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	6.3	-6.3	
3	765 kV	GAYA-VARANASI	2	0	839	0.0	11.2	-11.2	
4	765 kV	SASARAM-FATEHPUR	1	13	355	0.0	4.0	-4.0	
5	765 kV	GAYA-BALIA	1	0	589	0.0	8.9	-8.9	
6	400 kV	PUSAULI-VARANASI	1	0	229	0.0	4.7	-4.7	
7	400 kV	PUSAULI-ALLAHABAD	1	0	94	0.0	1.3	-1.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	790	0.0	9.3	-9.3	
9	400 kV	PATNA-BALIA	4	0	1078	0.0	17.5	-17.5	
10	400 kV	BIHARSHARIFF-BALIA	2	0	466	0.0	7.5	-7.5	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	343	0.0	5.8	-5.8	
12	400 kV	BIHARSHARIFF-VARANASI	2	134	199	0.0	1.0	-1.0	
13	220 kV	PUSAULI-SAHUPURI	1	65	96	0.0	0.3	-0.3	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.7	0.0	0.7	
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	0.7	77.8	-77.1
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	911	0	12.4	0.0	12.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	769	272	5.3	0.0	5.3	
3	765 kV	JHARSUGUDA-DURG	2	79	291	0.0	2.4	-2.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	165	371	0.0	2.4	-2.4	
5	400 kV	RANCHI-SIPAT	2	271	137	1.6	0.0	1.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	1	0.0	0.0	0.0	
7	220 kV	BUDHIPADAR-KORBA	2	74	0	0.9	0.0	0.9	
						ER-WR	20.2	4.8	15.5
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	533	0.0	12.4	-12.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1981	0.0	43.0	-43.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2697	0.0	51.5	-51.5	
4	400 kV	TALCHER-IC	2	372	754	0.0	10.4	-10.4	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	106.9	-106.9
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	220	111	1.5	0.0	1.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	301	127	1.8	0.0	1.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	63	38	0.4	0.0	0.4	
						ER-NER	3.7	0.0	3.7
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	288	0	7.0	0.0	7.0	
						NER-NR	7.0	0.0	7.0
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	46.1	-46.1	
2	HVDC	VINDHYACHAL B/B	-	241	250	5.5	0.5	4.9	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1925	0.0	35.8	-35.8	
4	765 kV	GWALIOR-AGRA	2	0	3107	0.0	44.6	-44.6	
5	765 kV	PHAGI-GWALIOR	2	0	1335	0.0	20.9	-20.9	
6	765 kV	JABALPUR-ORAI	2	0	1297	0.0	35.2	-35.2	
7	765 kV	GWALIOR-ORAI	1	706	0	11.7	0.0	11.7	
8	765 kV	SATNA-ORAI	1	0	1523	0.0	27.8	-27.8	
9	765 kV	CHITORGARH-BANASKANTHA	2	174	896	0.0	6.2	-6.2	
10	400 kV	ZERDA-KANKROLI	1	97	143	0.0	0.1	-0.1	
11	400 kV	ZERDA-BHINMAL	1	59	376	0.0	3.0	-3.0	
12	400 kV	VINDHYACHAL-RIHAND	1	487	0	11.2	0.0	11.2	
13	400 kV	RAPP-SHUJALPUR	2	70	710	0.0	5.5	-5.5	
14	220 kV	BHANPURA-RANPUR	1	1	161	0.0	2.0	-2.0	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0	
16	220 kV	MEHGAON-AURAIYA	1	129	0	0.0	1.7	-1.7	
17	220 kV	MALANPUR-AURAIYA	1	80	19	1.5	0.0	1.5	
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	0.7	-0.7	
						WR-NR	30.0	230.1	-200.1
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	320	1012	0.0	12.5	-12.5	
2	HVDC	RAIGARH-PUGALUR	2	768	1491	0.0	9.5	-9.5	
3	765 kV	SOLAPUR-RAICHUR	2	553	1845	0.0	23.6	-23.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	3155	0.0	54.7	-54.7	
5	400 kV	KOLHAPUR-KUDGI	2	1542	0	21.5	0.0	21.5	
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	0.8	0.0	0.8	
						WR-SR	22.3	100.2	-77.9

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)	114	0	104	2.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	95	0	82	2.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	15	0	-17	-0.4
	NER	132KV-GEYLEGPHU - SALAKATI	-41	-19	27	0.6
	NER	132kV Motanga-Rangia	-23	-4	13	0.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-83	0	-72	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-275	-21	-275	-6.7
	ER	132KV-BIHAR - NEPAL	-322	-97	-235	-5.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-870	-533	-707	-17.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	56	0	-42	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	56	0	-41	-1.0