



**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: 3<sup>rd</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 02.01.2021.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-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 2<sup>nd</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: 03-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)	50711	51356	39773	17890	2523	162253
Peak Shortage (MW)	930	0	0	0	29	959
Energy Met (MU)	1008	1222	905	358	43	3536
Hydro Gen (MU)	98	54	85	32	11	281
Wind Gen (MU)	26	73	61	-	-	160
Solar Gen (MU)*	23.18	26.61	74.82	4.49	0.14	129
Energy Shortage (MU)	11.20	0.00	0.00	0.00	0.55	11.75
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53242	61176	44468	18107	2549	173931
Time Of Maximum Demand Met (From NLDC SCADA)	10:14	11:18	08:25	18:02	17:44	09:53

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	0.035	0.00	0.06	7.67	7.73	74.87	17.40

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	5898	0	116.3	59.4	-0.9	137	0.00
	Haryana	6403	0	123.9	87.9	1.1	345	0.00
	Rajasthan	13720	0	258.3	90.8	1.4	376	0.00
	Delhi	4233	0	70.5	58.9	-0.9	232	0.00
	UP	17169	0	304.6	103.1	-3.9	552	0.00
	Uttarakhand	2225	0	41.5	24.1	1.0	176	0.00
	HP	1866	0	33.8	28.0	0.3	608	0.00
	J&K(UT) & Ladakh(UT)	2916	550	54.3	51.6	-1.9	400	11.20
WR	Chandigarh	264	0	4.5	4.5	0.0	41	0.00
	Chhattisgarh	4032	0	85.1	36.5	-0.4	207	0.00
	Gujarat	16936	0	339.7	80.9	3.0	593	0.00
	MP	15076	0	293.1	168.8	-1.8	598	0.00
	Maharashtra	22881	0	454.0	164.2	-2.2	493	0.00
	Goa	504	0	10.4	9.9	0.0	81	0.00
	DD	316	0	6.7	6.5	0.2	29	0.00
	DNH	809	0	18.2	17.9	0.3	63	0.00
SR	AMNSIL	756	0	15.2	10.7	0.5	274	0.00
	Andhra Pradesh	8648	0	163.0	74.6	2.0	723	0.00
	Telangana	11044	0	206.4	91.2	-0.3	646	0.00
	Karnataka	11556	0	208.5	76.7	1.5	1181	0.00
	Kerala	3480	0	68.8	50.5	0.1	239	0.00
	Tamil Nadu	12401	0	251.7	138.4	-0.5	394	0.00
	Puducherry	340	0	6.7	7.0	-0.2	18	0.00
	ER	Bihar	4836	0	82.7	85.2	-3.9	397
DVC		3050	0	63.5	-33.1	0.3	497	0.00
Jharkhand		1546	0	26.3	24.5	-2.6	86	0.00
Odisha		3870	0	70.4	2.1	0.1	340	0.00
West Bengal		5671	0	113.2	3.3	-0.8	466	0.00
Sikkim		119	0	2.0	1.8	0.2	50	0.00
NER	Arunachal Pradesh	137	2	2.2	2.3	-0.2	38	0.01
	Assam	1390	15	23.0	18.1	0.1	94	0.50
	Manipur	233	1	3.0	3.6	-0.5	26	0.01
	Meghalaya	377	0	6.8	5.3	-0.1	36	0.00
	Mizoram	110	1	1.7	1.4	-0.1	26	0.01
	Nagaland	136	1	2.2	2.0	0.0	19	0.02
	Tripura	216	0	3.6	2.2	-0.3	28	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.9	-11.0	-15.4
Day Peak (MW)	251.0	-594.1	-936.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	267.8	-273.6	116.5	-112.9	0.0	-2.1
Actual(MU)	266.4	-269.5	113.9	-117.8	-0.7	-7.7
OD/UD(MU)	-1.4	4.0	-2.7	-4.9	-0.8	-5.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4910	11803	8202	1510	509	26933
State Sector	11264	15176	12417	4892	11	43759
Total	16174	26978	20619	6402	520	70693

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	520	1288	445	460	7	2720
Lignite	24	10	30	0	0	64
Hydro	98	54	85	32	11	281
Nuclear	23	21	51	0	0	96
Gas, Naptha & Diesel	24	31	12	0	29	96
RES (Wind, Solar, Biomass & Others)	80	100	175	5	0	359
Total	769	1505	798	496	48	3617
Share of RES in total generation (%)	10.35	6.68	21.87	0.91	0.29	9.94
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.11	11.69	38.95	7.43	23.80	20.35

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.065

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: 03-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	6.0	-6.0	
3	765 kV	GAYA-VARANASI	2	0	1104	0.0	15.0	-15.0	
4	765 kV	SASARAM-FATEHPUR	1	0	481	0.0	5.7	-5.7	
5	765 kV	GAYA-BALIA	1	0	490	0.0	7.9	-7.9	
6	400 kV	PUSAULI-VARANASI	1	0	178	0.0	3.5	-3.5	
7	400 kV	PUSAULI-ALLAHABAD	1	0	146	0.0	2.4	-2.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	908	0.0	9.4	-9.4	
9	400 kV	PATNA-BALIA	4	0	1193	0.0	19.2	-19.2	
10	400 kV	BIHARSHARIF-BALIA	2	0	433	0.0	5.5	-5.5	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	384	0.0	7.5	-7.5	
12	400 kV	BIHARSHARIF-VARANASI	2	25	390	0.0	3.1	-3.1	
13	220 kV	PUSAULI-SAHUPURI	1	51	61	0.0	0.0	0.0	
14	132 kV	SONEG 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	0.4	85.1	-84.6
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1016	0	14.1	0.0	14.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	767	326	3.3	0.0	3.3	
3	765 kV	JHARSUGUDA-DURG	2	121	206	0.0	1.8	-1.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	146	463	0.0	4.4	-4.4	
5	400 kV	RANCHI-SIPAT	2	281	136	1.1	0.0	1.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	162	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	2	64	30	0.4	0.0	0.4	
						ER-WR	18.8	8.4	10.4
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	380	0.0	8.8	-8.8	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1637	0.0	34.6	-34.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2488	0.0	45.9	-45.9	
4	400 kV	TALCHER/JC	2	644	894	0.0	4.2	-4.2	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	89.2	-89.2
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	270	2	3.4	0.0	3.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	433	0	5.4	0.0	5.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	76	4	0.8	0.0	0.8	
						ER-NER	9.6	0.0	9.6
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	470	0	9.6	0.0	9.6	
						NER-NR	9.6	0.0	9.6
<b>Import/Export of WR (With SR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1577	0.0	43.7	-43.7	
2	HVDC	VINDHYACHAL B/B	-	239	55	2.9	0.0	2.9	
3	HVDC	MUNDA-MOHINDERGARH	2	0	1460	0.0	35.7	-35.7	
4	765 kV	GWALIOR-AGRA	2	0	2933	0.0	46.3	-46.3	
5	765 kV	PHAGGL-GWALIOR	2	0	1620	0.0	25.3	-25.3	
6	765 kV	JABALPUR-ORAI	2	0	1142	0.0	35.7	-35.7	
7	765 kV	GWALIOR-ORAI	1	696	0	12.1	0.0	12.1	
8	765 kV	SATNA-ORAI	1	0	1497	0.0	28.5	-28.5	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1178	0.0	14.6	-14.6	
10	400 kV	ZERDA-KANKROLI	1	85	179	0.0	1.1	-1.1	
11	400 kV	ZERDA-BHINMAL	1	156	398	0.0	2.8	-2.8	
12	400 kV	VINDHYACHAL-RIHAND	1	976	0	22.2	0.0	22.2	
13	400 kV	RAPP-SHUGALPUR	2	54	491	0.0	4.2	-4.2	
14	220 kV	BHANPURA-RANPUR	1	10	191	0.0	2.1	-2.1	
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.0	-0.7	
16	220 kV	MEHGAON-AURAIYA	1	127	0	0.7	0.0	0.7	
17	220 kV	MALANPUR-AURAIYA	1	79	24	1.7	0.0	1.7	
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	39.8	240.8	-201.0
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	13.8	-13.8	
2	HVDC	RAIGARH-PUGALUR	2	482	498	0.0	5.8	-5.8	
3	765 kV	SOLAPUR-RAICHUR	2	521	2059	0.0	23.8	-23.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2337	0.0	35.8	-35.8	
5	400 kV	KOLHAPUR-KUDGI	2	1369	0	20.7	0.0	20.7	
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	0	36	0.6	0.0	0.6	
						WR-SR	21.4	79.2	-57.8
<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)	124	0	117	2.8			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	128	118	121	2.9			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	21	0	-7	-0.2			
	NER	132KV-GEYLEGPHU - SALAKATI	-24	-8	-14	-0.3			
	NER	132KV Motanga-Rangia	-8	0	-1	0.0			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-62	0	-55	-1.3			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-285	-204	-259	-6.2			
BANGLADESH	ER	132KV-BIHAR - NEPAL	-247	-12	-145	-3.5			
	ER	BHERAMARA HVDC(BANGLADESH)	-832	-447	-565	-13.6			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	52	0	-38	-0.9			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	52	0	-38	-0.9			