



**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: 2<sup>nd</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 01.01.2021.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 1<sup>st</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: 02-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)	52357	49548	37166	17301	2390	15872
Peak Shortage (MW)	550	0	0	102	47	699
Energy Met (MU)	1043	1209	890	364	43	3549
Hydro Gen (MU)	102	49	71	32	11	264
Wind Gen (MU)	20	81	74	-	-	175
Solar Gen (MU)*	33.67	26.23	81.64	4.44	0.02	146
Energy Shortage (MU)	11.49	0.00	0.00	0.31	0.45	12.25
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54771	59981	47101	17564	2402	178888
Time Of Maximum Demand Met (From NLDC SCADA)	11:28	11:27	09:31	18:02	18:15	10:55

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	0.033	0.00	0.79	3.29	4.07	76.67	19.26

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	6516	0	124.3	63.7	-1.5	32	0.00
	Haryana	6270	0	127.8	92.3	0.8	264	0.00
	Rajasthan	14088	0	264.4	97.9	0.9	342	0.00
	Delhi	4918	1	77.0	65.7	-0.5	295	0.01
	UP	17642	0	313.6	103.7	-0.4	598	0.15
	Uttarakhand	2232	0	40.2	23.6	0.0	196	0.13
	HP	1859	0	33.2	28.0	-0.2	141	0.00
	J&K(UT) & Ladakh(UT)	2754	550	57.6	52.0	0.8	252	11.20
WR	Chandigarh	285	0	4.5	4.4	0.2	79	0.00
	Chhattisgarh	4067	0	85.3	37.0	-0.6	167	0.00
	Gujarat	16505	0	334.5	82.8	0.6	669	0.00
	MP	15425	0	295.4	167.0	-2.0	386	0.00
	Maharashtra	22156	0	442.4	160.6	-0.8	705	0.00
	Goa	490	0	10.3	9.8	0.0	47	0.00
	DD	269	0	6.1	5.9	0.2	30	0.00
	DNH	757	0	17.3	17.1	0.2	83	0.00
SR	AMNSIL	838	0	17.8	9.9	0.5	321	0.00
	Andhra Pradesh	8804	0	156.4	70.4	-1.6	384	0.00
	Telangana	11302	0	204.8	92.7	-1.3	1011	0.00
	Karnataka	11706	0	207.0	77.4	-1.4	540	0.00
	Kerala	3459	0	68.7	51.2	-0.8	206	0.00
	Tamil Nadu	11864	0	246.3	128.2	-3.4	616	0.00
ER	Puducherry	332	0	6.5	6.9	-0.4	23	0.00
	Bihar	4582	0	87.7	89.0	-2.9	368	0.00
	DVC	3033	0	65.5	-34.5	2.2	501	0.00
	Jharkhand	1625	102	26.9	22.6	-2.1	309	0.31
	Odisha	3769	0	68.4	2.1	-0.4	374	0.00
	West Bengal	5622	0	113.8	11.0	-0.1	869	0.00
NER	Sikkim	105	0	1.8	1.8	0.1	26	0.00
	Arunachal Pradesh	131	1	2.2	2.3	-0.2	42	0.01
	Assam	1325	20	24.0	18.2	0.9	102	0.40
	Manipur	215	1	3.0	3.4	-0.4	54	0.02
	Meghalaya	333	0	6.7	5.2	-0.1	53	0.00
	Mizoram	104	1	1.6	1.5	-0.3	16	0.01
	Nagaland	130	1	2.3	2.2	0.0	26	0.01
	Tripura	217	0	3.6	2.4	-0.8	14	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.1	-10.9	-13.1
Day Peak (MW)	318.0	-565.5	-826.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	281.3	-293.6	114.1	-103.2	1.4	0.0
Actual(MU)	279.7	-292.5	102.8	-99.8	-0.1	-9.9
O/D/U/D(MU)	-1.6	1.1	-11.3	3.5	-1.5	-9.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4910	12153	9202	2310	509	29083
State Sector	11373	15671	12207	4892	11	44153
Total	16283	27823	21409	7202	520	73237

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	529	1295	448	449	7	2729
Lignite	24	11	34	0	0	68
Hydro	102	49	71	32	11	264
Nuclear	23	21	42	0	0	86
Gas, Naptha & Diesel	24	33	13	0	29	99
RES (Wind, Solar, Biomass & Others)	83	108	194	4	0	390
Total	785	1517	801	485	47	3635
Share of RES in total generation (%)	10.60	7.13	24.19	0.92	0.04	10.72
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	26.52	11.75	38.21	7.52	22.48	20.35

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.038

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-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	240	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	0	960	0.0	14.0	-14.0	
4	765 kV	SASARAM-FATEHPUR	1	39	264	0.0	2.3	-2.3	
5	765 kV	GAYA-BALIA	1	0	592	0.0	8.7	-8.7	
6	400 kV	PUSAULI-VARANASI	1	0	173	0.0	3.7	-3.7	
7	400 kV	PUSAULI-ALLAHABAD	1	0	133	0.0	2.3	-2.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	744	0.0	8.0	-8.0	
9	400 kV	PATNA-BALIA	4	0	1322	0.0	18.9	-18.9	
10	400 kV	BIHARSHARIF-BALIA	2	0	532	0.0	5.8	-5.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	325	0.0	5.7	-5.7	
12	400 kV	BIHARSHARIF-VARANASI	2	25	308	0.0	2.1	-2.1	
13	220 kV	PUSAULI-SAHUPURI	1	87	37	0.6	0.0	0.6	
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-CHANDAUULI	1	0	0	0.0	0.0	0.0	
						ER-NR	1.1	77.6	-76.5
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	986	36	12.0	0.0	12.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	651	380	6.3	0.0	6.3	
3	765 kV	JHARSUGUDA-DURG	2	59	233	0.0	1.5	-1.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	157	359	0.0	1.6	-1.6	
5	400 kV	RANCHI-SIPAT	2	240	140	2.3	0.0	2.3	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	138	0.0	2.0	-2.0	
7	220 kV	BUDHIPADAR-KORBA	2	61	28	0.4	0.0	0.4	
						ER-WR	21.0	5.1	15.9
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	540	0.0	10.3	-10.3	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1637	0.0	34.4	-34.4	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2392	0.0	43.1	-43.1	
4	400 kV	TALCHER/JC	2	362	869	0.0	2.4	-2.4	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	87.9	-87.9
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	257	0	3.4	0.0	3.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	407	0	6.0	0.0	6.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	67	2	0.9	0.0	0.9	
						ER-NER	10.3	0.0	10.3
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	472	0	10.6	0.0	10.6	
						NER-NR	10.6	0.0	10.6
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1635	0.0	44.3	-44.3	
2	HVDC	VINDHYACHAL B/B	-	190	56	2.0	0.7	1.3	
3	HVDC	MUNDA-MOHINDERGARH	2	0	1927	0.0	42.4	-42.4	
4	765 kV	GWALIOR-AGRA	2	0	2861	0.0	50.8	-50.8	
5	765 kV	PHAGGL-GWALIOR	2	0	1462	0.0	25.1	-25.1	
6	765 kV	JABALPUR-ORAI	2	0	1149	0.0	39.0	-39.0	
7	765 kV	GWALIOR-ORAI	1	696	0	12.3	0.0	12.3	
8	765 kV	SATNA-ORAI	1	0	1474	0.0	30.0	-30.0	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1203	0.0	16.0	-16.0	
10	400 kV	ZERDA-KANKROLI	1	87	165	0.0	1.3	-1.3	
11	400 kV	ZERDA-BHINMAL	1	87	388	0.0	4.2	-4.2	
12	400 kV	VINDHYACHAL-RIHAND	1	985	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUGALPUR	2	1	527	0.0	5.7	-5.7	
14	220 kV	BHANPURA-RANPUR	1	0	185	0.0	2.7	-2.7	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4	
16	220 kV	MEHGAON-AURAIYA	1	125	0	0.6	0.0	0.6	
17	220 kV	MALANPUR-AURAIYA	1	71	8	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	39.2	263.4	-224.2
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	787	1009	0.0	6.5	-6.5	
2	HVDC	RAIGARH-PUGALUR	2	0	995	0.0	8.9	-8.9	
3	765 kV	SOLAPUR-RAICHUR	2	1000	2133	0.0	22.0	-22.0	
4	765 kV	WARDHA-NIZAMABAD	2	0	2263	0.0	36.7	-36.7	
5	400 kV	KOLHAPUR-KUDGI	2	1607	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	40	0.7	0.0	0.7	
						WR-SR	22.2	74.0	-51.8
<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)	125	122	125	3.1			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	140	0	127	3.1			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0.0			
	NER	132KV-GEYLEGPHU - SALAKATI	24	7	13	0.3			
	NER	132KV Motanga-Rangia	12	0	-1	0.0			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-61	0	-55	-1.3			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-244	-185	-226	-5.4			
	ER	132KV-BIHAR - NEPAL	-261	-86	-175	-4.2			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-736	-349	-471	-11.3			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	45	0	-37	-0.9			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	45	0	-37	-0.9			