



**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: 07<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 06.01.2021.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-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 06<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: 07-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)	45885	51716	39347	18713	2553	158214
Peak Shortage (MW)	1840	0	0	0	19	1859
Energy Met (MU)	897	1215	914	382	44	3451
Hydro Gen (MU)	114	54	78	34	12	292
Wind Gen (MU)	7	72	20	-	-	99
Solar Gen (MU)*	24.24	27.61	45.17	4.45	0.14	102
Energy Shortage (MU)	12.44	0.00	0.00	0.00	0.64	13.08
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46814	58804	46886	18767	2599	169516
Time Of Maximum Demand Met (From NLDC SCADA)	19:40	10:46	09:39	18:40	17:59	09:39

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	0.032	0.00	0.00	1.91	1.91	78.78	19.31

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	5871	0	113.1	62.8	-1.6	37	0.00
	Haryana	6253	0	114.6	78.6	-1.1	186	0.00
	Rajasthan	11454	0	223.1	73.4	-0.6	589	0.00
	Delhi	4305	0	71.6	60.9	-0.8	235	0.01
	UP	15751	0	274.2	96.8	-3.2	214	0.00
	Uttarakhand	2018	0	37.9	21.5	-0.9	181	0.00
	HP	1769	1	32.0	27.0	-1.2	116	0.03
	J&K(UT) & Ladakh(UT)	1984	400	27.2	28.2	-6.6	198	12.40
	Chandigarh	240	0	3.8	4.0	-0.2	23	0.00
WR	Chhattisgarh	4021	0	85.0	37.9	-1.8	206	0.00
	Gujarat	16262	0	334.6	84.4	-0.3	699	0.00
	MP	14717	0	283.8	171.4	-0.9	474	0.00
	Maharashtra	22422	0	455.9	162.7	-0.4	533	0.00
	Goa	504	0	10.9	10.4	-0.1	35	0.00
	DD	334	0	7.5	7.2	0.3	31	0.00
	DNH	834	0	19.3	19.1	0.2	51	0.00
	AMNSIL	820	0	18.1	10.7	0.3	263	0.00
	Andhra Pradesh	8383	0	164.3	74.5	-0.1	524	0.00
SR	Telangana	11532	0	209.2	102.1	-0.1	692	0.00
	Karnataka	11264	0	203.8	87.5	2.1	1078	0.00
	Kerala	3233	0	70.9	53.9	0.0	267	0.00
	Tamil Nadu	12678	0	258.7	164.2	1.4	777	0.00
	Puducherry	358	0	7.0	7.2	-0.2	34	0.00
ER	Bihar	4542	0	82.3	78.6	-2.3	184	0.00
	DVC	3063	0	65.9	-33.9	1.1	402	0.00
	Jharkhand	1440	0	25.7	23.5	-2.1	126	0.00
	Odisha	4180	0	84.2	4.3	-0.3	354	0.00
	West Bengal	6329	0	121.4	7.0	0.3	560	0.00
	Sikkim	144	0	2.0	2.0	0.1	50	0.00
	Assam	128	2	2.3	2.2	-0.1	33	0.01
NER	Assam	1438	7	24.2	19.1	-0.4	107	0.60
	Manipur	225	2	3.0	3.4	-0.4	14	0.01
	Meghalaya	375	0	6.7	5.1	-0.1	27	0.00
	Mizoram	106	1	1.7	1.4	-0.1	18	0.01
	Nagaland	133	3	2.2	2.0	0.1	22	0.01
	Tripura	221	0	3.5	2.8	-0.5	17	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.1	-12.1	-16.4
Day Peak (MW)	323.0	-618.8	-937.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	212.8	-258.2	156.0	-111.0	0.5	0.0
Actual(MU)	192.0	-256.7	169.7	-111.9	-0.8	-7.7
OD/UD(MU)	-20.8	1.5	13.8	-0.9	-1.3	-7.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5809	11953	7952	2310	699	28722
State Sector	12324	17292	10527	5492	11	45645
Total	18133	29244	18479	7802	710	74367

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	495	1279	457	473	7	2711
Lignite	25	7	36	0	0	69
Hydro	114	54	78	34	12	292
Nuclear	21	21	64	0	0	106
Gas, Naptha & Diesel	23	27	12	0	30	92
RES (Wind, Solar, Biomass & Others)	60	101	105	4	0	271
Total	738	1490	753	511	49	3541
Share of RES in total generation (%)	8.19	6.75	14.00	0.87	0.28	7.65
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.40	11.82	32.95	7.49	24.62	18.90

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.058

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: 07-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	251	0.0	6.1	-6.1	
3	765 kV	GAYA-VARANASI	2	0	939	0.0	12.3	-12.3	
4	765 kV	SASARAM-FATEHPUR	1	11	419	0.0	5.1	-5.1	
5	765 kV	GAYA-BALIA	1	0	527	0.0	7.1	-7.1	
6	400 kV	PUSAULI-VARANASI	1	0	201	0.0	3.8	-3.8	
7	400 kV	PUSAULI -ALLAHABAD	1	0	127	0.0	2.0	-2.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	8	873	0.0	9.0	-9.0	
9	400 kV	PATNA-BALIA	4	0	1146	0.0	16.8	-16.8	
10	400 kV	BIHARSHARIF-BALIA	2	0	406	0.0	5.2	-5.2	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	356	0.0	5.3	-5.3	
12	400 kV	BIHARSHARIF-VARANASI	2	69	354	0.0	2.4	-2.4	
13	220 kV	PUSAULI-SAHUPURI	1	41	85	0.0	0.5	-0.5	
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-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	75.4	-75.0
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1810	0	26.0	0.0	26.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	722	474	1.5	0.0	1.5	
3	765 kV	JHARSUGUDA-DURG	2	150	464	0.0	2.7	-2.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	129	332	0.0	2.6	-2.6	
5	400 kV	RANCHI-SIPAT	2	229	103	0.4	0.0	0.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	155	0.0	2.4	-2.4	
7	220 kV	BUDHIPADAR-KORBA	2	44	26	0.3	0.0	0.3	
						ER-WR	28.1	7.7	20.4
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	429	0.0	6.2	-6.2	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2471	0.0	42.9	-42.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3007	0.0	54.5	-54.5	
4	400 kV	TALCHER-I/C	2	0	1221	0.0	12.3	-12.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	103.6	-103.6
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	254	44	3.3	0.0	3.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	411	55	5.3	0.0	5.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	66	17	0.8	0.0	0.8	
						ER-NER	9.4	0.0	9.4
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALL-AGRA	2	465	0	8.8	0.0	8.8	
						NER-NR	8.8	0.0	8.8
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1003	0.0	30.4	-30.4	
2	HVDC	VINDHYACHAL B/B	-	240	0	6.0	0.0	6.0	
3	HVDC	MUNDA-MOHENDERGARH	2	0	1554	0.0	38.7	-38.7	
4	765 kV	GWALIOR-AGRA	2	0	2629	0.0	32.2	-32.2	
5	765 kV	PHAGI-GWALIOR	2	102	1243	0.0	16.9	-16.9	
6	765 kV	JABALPUR-ORAI	2	0	1199	0.0	27.2	-27.2	
7	765 kV	GWALIOR-ORAI	1	723	0	13.3	0.0	13.3	
8	765 kV	SATNA-ORAI	1	0	1532	0.0	25.8	-25.8	
9	765 kV	CHITORGARH-BANASKANTHA	2	373	934	0.0	3.0	-3.0	
10	400 kV	ZERDA-KANKROLI	1	171	143	0.7	0.0	0.7	
11	400 kV	ZERDA -BHINMAL	1	197	383	0.0	2.1	-2.1	
12	400 kV	VINDHYACHAL -RIHAND	1	969	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHILAI PUR	2	326	569	1.5	2.6	-1.1	
14	220 kV	BHANPURA-RANPUR	1	21	217	0.0	1.9	-1.9	
15	220 kV	BHANPURA-MORAK	1	0	30	0.2	0.0	0.2	
16	220 kV	MEHGAON-AURAIYA	1	142	0	0.9	0.0	0.9	
17	220 kV	MALANPUR-AURAIYA	1	93	11	1.9	0.0	1.9	
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	47.1	180.7	-133.6
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	19.5	-19.5	
2	HVDC	RAIGARH-PUGAUR	2	0	1491	0.0	21.3	-21.3	
3	765 kV	SOLAPUR-RAICHUR	2	0	2293	0.0	33.0	-33.0	
4	765 kV	WARDHA-NIZAMABAD	2	0	2696	0.0	45.0	-45.0	
5	400 kV	KOLHAPUR-KUDGI	2	1149	0	17.1	0.0	17.1	
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	38	0.7	0.0	0.7	
						WR-SR	17.8	118.8	-101.0
<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)	120	0	116	2.8			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	174	168	174	4.4			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	16	0	-3	-0.1			
	NER	132KV-GEYLEGPHU - SALAKATI	22	7	12	0.3			
	NER	132KV Motanga-Rangia	-9	3	-1	0.0			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-58	0	-52	-1.3			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-304	-210	-271	-6.5			
	ER	132KV-BIHAR - NEPAL	-257	-76	-179	-4.3			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-830	-444	-595	-14.3			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	53	0	-43	-1.0			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	54	0	-43	-1.0			