



**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> Nov 2020

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 20.11.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-नवंबर-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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> November 2020, 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-Nov-2020

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)	43168	48199	38349	17643	2472	149831
Peak Shortage (MW)	350	0	0	0	10	360
Energy Met (MU)	870	1167	855	357	42	3291
Hydro Gen (MU)	107	34	88	46	15	290
Wind Gen (MU)	4	59	34	-	-	97
Solar Gen (MU)*	36.77	27.75	97.57	4.46	0.09	167
Energy Shortage (MU)	1.3	0.0	0.0	0.0	0.1	1.4
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	43738	54128	40549	18226	2578	154060
Time Of Maximum Demand Met (From NLDC SCADA)	10:17	10:50	11:54	18:09	17:43	10:42

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	0.025	0.00	0.10	2.82	2.93	83.09	13.98

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	5033	0	100.4	86.5	-1.9	140	1.3
	Haryana	5748	0	111.5	108.2	1.4	301	0.0
	Rajasthan	12293	0	231.8	82.7	0.7	327	0.0
	Delhi	3566	0	61.8	43.7	1.0	222	0.0
	UP	13652	0	244.9	91.3	-0.6	477	0.0
	Uttarakhand	1867	0	35.6	27.5	0.5	140	0.0
	HP	1644	0	30.5	23.5	0.2	121	0.0
	J&K(UT) & Ladakh(UT)	2339	0	50.3	44.9	0.3	221	0.0
	Chandigarh	188	0	3.1	3.1	0.0	20	0.0
	Chhattisgarh	3130	0	73.1	12.8	-0.9	264	0.0
WR	Gujarat	14713	0	314.0	46.1	0.9	559	0.0
	MP	13422	0	271.4	175.8	-2.9	555	0.0
	Maharashtra	21482	0	451.5	159.5	-1.6	737	0.0
	Goa	516	0	11.2	10.6	0.1	37	0.0
	DD	327	0	7.3	6.9	0.4	29	0.0
	DNH	778	0	18.1	18.2	-0.1	35	0.0
	AMNSIL	871	0	20.0	1.2	0.6	299	0.0
	Andhra Pradesh	7940	0	171.3	88.3	1.0	649	0.0
	Telangana	7202	0	149.6	49.2	0.0	377	0.0
	Karnataka	10157	0	189.6	61.3	0.8	631	0.0
SR	Kerala	3547	0	72.5	55.6	0.2	180	0.0
	Tamil Nadu	12850	0	264.7	183.5	0.9	556	0.0
	Puducherry	351	0	7.2	7.5	-0.3	20	0.0
	Bihar	4171	0	73.3	74.9	-1.9	317	0.0
	DVC	2985	0	62.2	-48.7	-1.0	312	0.0
	Jharkhand	1304	0	23.8	18.7	-3.0	110	0.0
	Odisha	3990	0	74.6	14.7	0.2	382	0.0
	West Bengal	6606	0	121.7	37.0	1.4	500	0.0
	Sikkim	112	0	1.6	1.7	-0.2	34	0.0
	Arunachal Pradesh	119	2	2.1	2.1	0.0	79	0.0
NER	Assam	1456	6	24.6	20.4	0.3	95	0.0
	Manipur	222	1	1.8	2.8	-1.0	28	0.0
	Meghalaya	355	0	6.2	3.3	0.1	44	0.0
	Mizoram	98	2	1.7	1.1	0.2	29	0.0
	Nagaland	130	2	2.1	1.9	0.0	14	0.0
	Tripura	224	3	3.6	3.2	-0.6	8	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	13.4	-0.8	-14.6
Day Peak (MW)	609.0	-172.5	-807.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	297.5	-328.1	131.6	-98.7	-2.3	0.0
Actual(MU)	293.8	-326.1	135.1	-106.1	-2.5	-5.8
O/D/U/D(MU)	-3.7	2.0	3.5	-7.4	-0.2	-5.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7510	13723	9682	3350	509	34773
State Sector	18601	16122	14916	5772	11	55422
Total	26111	29845	24598	9122	520	90195

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	358	1278	355	429	7	2427
Lignite	27	12	37	0	0	66
Hydro	107	34	88	46	15	290
Nuclear	28	33	70	0	0	131
Gas, Naptha & Diesel	21	64	14	0	27	125
RES (Wind, Solar, Biomass & Others)	60	88	171	4	0	323
Total	596	1509	729	479	49	3363
Share of RES in total generation (%)	10.12	5.82	23.52	0.93	0.18	9.64
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.83	10.26	45.10	10.61	30.26	22.16

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.074

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-Nov-2020

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	602	0.0	9.1	-9.1
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.4	-7.4
3	765 kV	GAYAVARANASI	2	0	991	0.0	11.9	-11.9
4	765 kV	SASARAM-FATEHPUR	1	0	418	0.0	4.3	-4.3
5	765 kV	GAYA-BALIA	1	0	477	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	1	0	245	0.0	5.2	-5.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	119	0.0	2.6	-2.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	792	0.0	7.4	-7.4
9	400 kV	PATNA-BALIA	4	0	1007	0.0	12.7	-12.7
10	400 kV	BIHARSHARIFF-BALIA	2	0	396	0.0	4.7	-4.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	314	0.0	4.9	-4.9
12	400 kV	BIHARSHARIFF-VARANASI	2	97	300	0.0	0.7	-0.7
13	220 kV	PUSAULI-SAHUPURI	1	21	61	0.0	0.4	-0.4
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAL-RIHAND	1	20	0	0.2	0.0	0.2
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	0.2	-78.8
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1053	229	12.9	0.0	12.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	902	0	14.6	0.0	14.6
3	765 kV	JHARSUGUDA-DURG	2	229	251	0.0	0.5	-0.5
4	400 kV	JHARSUGUDA-RAIGARH	4	439	0	4.7	0.0	4.7
5	400 kV	RANCHI-SIPAT	2	305	0	4.7	0.0	4.7
6	220 kV	BUDHIPADAR-RAIGARH	1	52	81	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	193	0	3.0	0.0	3.0
						ER-WR	39.9	39.2
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	537	0.0	9.3	-9.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	37.2	-37.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	3015	0.0	53.3	-53.3
4	400 kV	TALCHER-I/C	2	146	636	0.0	3.3	-3.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	99.8	-99.8
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	277	0.0	3.4	-3.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	51	267	0.0	3.2	-3.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	55	0.0	0.7	-0.7
						ER-NER	0.0	-7.3
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	502	0.0	9.8	-9.8
						NER-NR	0.0	-9.8
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1504	0.0	29.7	-29.7
2	HVDC	VINDHYACHAL B/B	-	450	52	5.3	0.0	5.3
3	HVDC	MUNDRAMOHINDERGARH	2	0	1460	0.0	34.2	-34.2
4	765 kV	GWALIOR-AGRA	2	0	2883	0.0	56.1	-56.1
5	765 kV	PHAGI-GWALIOR	2	0	1959	0.0	31.0	-31.0
6	765 kV	JABALPUR-ORAI	2	0	1091	0.0	41.4	-41.4
7	765 kV	GWALIOR-ORAI	1	665	0	10.7	0.0	10.7
8	765 kV	SATNA-ORAI	1	0	1572	0.0	34.3	-34.3
9	765 kV	CHITORGARH-BANASKANTHA	2	0	981	0.0	13.4	-13.4
10	400 kV	ZERDA-KANKROLI	1	14	206	0.0	1.9	-1.9
11	400 kV	ZERDA-BHINMAL	1	0	471	0.0	6.0	-6.0
12	400 kV	VINDHYACHAL-RIHAND	1	983	0	22.5	0.0	22.5
13	400 kV	RAPP-SHULJALPUR	2	0	480	0.0	6.0	-6.0
14	220 kV	BHANPURA-RANPUR	1	0	123	0.0	1.4	-1.4
15	220 kV	BHANPURA-MORAK	1	11	0	0.1	0.7	-0.6
16	220 kV	MEHGAON-AURAIYA	1	93	21	0.2	0.2	0.1
17	220 kV	MALANPUR-AURAIYA	1	57	37	0.5	0.0	0.5
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	0.0	0.0
						WR-NR	39.3	-216.9
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	691	0.0	12.2	-12.2
2	HVDC	RAIGARH-PUGALUR	2	0	997	0.0	9.7	-9.7
3	765 kV	SOLAPUR-RAICHUR	2	905	2893	0.0	28.7	-28.7
4	765 kV	WARDHA-NIZAMABAD	2	370	2382	0.0	27.1	-27.1
5	400 kV	KOLHAPUR-KUDGI	2	844	119	7.0	0.0	7.0
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	46	0.8	0.8	-69.8
						WR-SR	7.8	-69.8

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)	200	197	197	4.7
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	306	302	306	7.7
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	62	0	18	0.4
	NER	132KV-GEYLEGPHU - SALAKATI	12	-10	-3	-0.1
	NER	132KV Motanga-Rangia	30	6	-21	-0.5
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-41	0	-3	-0.1
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	95	-23	-15	-0.4
	ER	132KV-BIHAR - NEPAL	132	1	-28	-0.7
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-698	-408	-522	-12.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	55	0	-43	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	54	0	-43	-1.0