



**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: 6<sup>th</sup> Dec 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 05.12.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-दिसम्बर -2020 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 5<sup>th</sup> December 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: 06-Dec-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)	47567	51582	37156	17038	2451	155794
Peak Shortage (MW)	530	0	0	0	8	538
Energy Met (MU)	963	1228	815	345	43	3393
Hydro Gen (MU)	110	45	79	44	13	291
Wind Gen (MU)	10	14	36	-	-	61
Solar Gen (MU)*	32.50	31.12	74.48	4.77	0.10	143
Energy Shortage (MU)	10.06	0.00	0.00	0.00	0.04	10.10
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48925	58846	39534	18351	2470	162345
Time Of Maximum Demand Met (From NLDC SCADA)	10:20	10:52	09:40	18:31	18:11	10:18

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	0.029	0.00	0.02	3.68	3.70	78.55	17.74

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	6758	0	131.1	75.1	-1.3	126	0.00
	Haryana	6848	0	132.6	107.3	0.5	143	0.05
	Rajasthan	13188	0	250.1	79.9	-0.4	318	0.00
	Delhi	3439	0	61.1	43.1	0.8	216	0.01
	UP	14689	0	264.5	95.3	0.2	538	0.00
	Uttarakhand	1942	0	37.2	27.4	1.3	184	0.00
	HP	1705	0	31.2	23.7	0.2	225	0.00
	J&K(UT) & Ladakh(UT)	2762	500	52.5	46.8	1.0	462	10.00
WR	Chandigarh	193	0	3.2	3.2	0.0	17	0.00
	Chhattisgarh	3580	0	77.7	32.7	0.6	408	0.00
	Gujarat	16467	0	353.5	70.1	3.5	479	0.00
	MP	14689	0	287.7	185.9	0.4	730	0.00
	Maharashtra	22263	0	455.7	145.3	-2.1	560	0.00
	Goa	504	0	10.2	10.1	0.0	49	0.00
	DD	333	0	7.5	7.3	0.2	21	0.00
	DNH	792	0	18.2	17.8	0.3	66	0.00
SR	AMNSIL	775	0	17.3	2.8	-0.1	262	0.00
	Andhra Pradesh	7115	0	148.5	72.7	0.7	470	0.00
	Telangana	8039	0	157.8	47.4	-1.1	511	0.00
	Karnataka	10501	0	191.1	56.6	1.3	971	0.00
	Kerala	3514	0	69.8	50.1	1.0	238	0.00
	Tamil Nadu	12290	0	240.9	167.5	-2.2	199	0.00
	Puducherry	336	0	6.6	6.8	-0.2	51	0.00
ER	Bihar	4434	0	73.6	71.8	0.4	331	0.00
	DVC	3149	0	63.7	-44.0	1.0	560	0.00
	Jharkhand	1397	0	24.1	20.5	-1.4	215	0.00
	Odisha	3888	0	67.6	1.0	-1.4	296	0.00
	West Bengal	6105	0	114.1	8.0	0.9	585	0.00
	Sikkim	118	0	1.6	1.8	-0.2	25	0.00
NER	Arunachal Pradesh	123	1	2.3	2.2	0.1	18	0.01
	Assam	1457	0	24.0	19.8	0.5	201	0.00
	Manipur	224	1	3.1	3.1	-0.1	43	0.01
	Meghalaya	351	0	6.0	3.5	-0.1	58	0.00
	Mizoram	107	2	1.7	1.3	-0.1	29	0.01
	Nagaland	123	1	2.2	1.8	0.3	30	0.01
Tripura	240	1	3.5	2.0	-0.3	38	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.6	-5.1	-12.6
Day Peak (MW)	459.0	-367.7	-791.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	272.4	-263.6	131.3	-143.2	3.1	0.0
Actual(MU)	266.1	-250.1	126.3	-152.4	3.2	-7.0
O/D/U/D(MU)	-6.3	13.5	-4.9	-9.3	0.1	-7.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6966	15475	11642	2940	1052	38075
State Sector	13596	14155	13187	4882	11	45830
Total	20562	29629	24829	7822	1063	83905

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	465	1294	388	469	8	2625
Lignite	24	16	11	0	0	51
Hydro	110	45	79	44	13	291
Nuclear	28	33	60	0	0	121
Gas, Naptha & Diesel	22	64	13	0	23	121
RES (Wind, Solar, Biomass & Others)	71	47	147	5	0	270
Total	720	1498	698	518	44	3478
Share of RES in total generation (%)	9.91	3.11	21.05	0.92	0.23	7.76
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.05	8.31	40.93	9.36	29.71	19.58

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
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: 06-Dec-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	0	0.0	0.0	0.0	
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.1	-7.1	
3	765 kV	GAYA-VARANASI	2	0	1112	0.0	15.4	-15.4	
4	765 kV	SASARAM-FATEHPUR	1	0	395	0.0	5.0	-5.0	
5	765 kV	GAYA-BALIA	1	0	536	0.0	8.4	-8.4	
6	400 kV	PUSAULI-VARANASI	1	0	220	0.0	4.2	-4.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	142	0.0	2.5	-2.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	942	0.0	11.5	-11.5	
9	400 kV	PATNA-BALIA	4	0	1299	0.0	20.8	-20.8	
10	400 kV	BIHARSHARIFF-BALIA	2	0	453	0.0	5.7	-5.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	369	0.0	6.2	-6.2	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	196	0.0	2.1	-2.1	
13	220 kV	PUSAULI-SAHUPURI	1	63	36	0.3	0.0	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	0.3	0.0	0.3	
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	0.6	88.9	-88.2
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	432	695	0.0	3.5	-3.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	457	468	0.0	0.9	-0.9	
3	765 kV	JHARSUGUDA-DURG	2	0	272	0.0	4.2	-4.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	86	454	0.0	4.1	-4.1	
5	400 kV	RANCHI-SIPAT	2	131	210	0.0	0.7	-0.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	2	74	0.0	0.3	-0.3	
7	220 kV	BUDHIPADAR-KORBA	2	46	58	0.0	0.2	-0.2	
						ER-WR	0.0	13.7	-13.7
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	488	0.0	11.3	-11.3	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1992	0.0	40.9	-40.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2627	0.0	47.5	-47.5	
4	400 kV	TALCHER-IC	2	0	643	0.0	7.1	-7.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	99.7	-99.7
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	244	57	3.1	0.0	3.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	374	65	4.7	0.0	4.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	54	20	0.5	0.0	0.5	
						ER-NER	8.3	0.0	8.3
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	472	0	11.7	0.0	11.7	
						NER-NR	11.7	0.0	11.7
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2010	0.0	44.0	-44.0	
2	HVDC	VINDHYACHAL B/B	-	48	0	1.2	0.0	1.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1921	0.0	43.8	-43.8	
4	765 kV	GWALIOR-AGRA	2	0	2662	0.0	48.0	-48.0	
5	765 kV	PHAGI-GWALIOR	2	0	1662	0.0	23.8	-23.8	
6	765 kV	JABALPUR-ORAI	2	0	1022	0.0	33.6	-33.6	
7	765 kV	GWALIOR-ORAI	1	728	0	12.0	0.0	12.0	
8	765 kV	SATNA-ORAI	1	0	1543	0.0	29.1	-29.1	
9	765 kV	CHITORGARH-BANASKANTHA	2	15	667	0.0	7.1	-7.1	
10	400 kV	ZERDA-KANKROLI	1	115	130	0.0	0.2	-0.2	
11	400 kV	ZERDA-BHINMAL	1	186	393	0.0	3.1	-3.1	
12	400 kV	VINDHYACHAL-RIHAND	1	978	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUJALPUR	2	84	372	0.1	3.3	-3.2	
14	220 kV	BHANPURA-RANPUR	1	0	195	0.0	2.2	-2.2	
15	220 kV	BHANPURA-MORAK	1	11	0	0.1	0.9	-0.8	
16	220 kV	MEHGAON-AURAIYA	1	112	0	0.4	0.0	0.4	
17	220 kV	MALANPUR-AURAIYA	1	72	17	1.0	0.0	1.0	
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	37.5	239.2	-201.7
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	414	0.0	9.9	-9.9	
2	HVDC	RAIGARH-PUGALUR	2	0	992	0.0	13.5	-13.5	
3	765 kV	SOLAPUR-RAICHUR	2	741	2278	0.0	23.8	-23.8	
4	765 kV	WARDHA-NIZAMABAD	2	221	2003	0.0	23.1	-23.1	
5	400 kV	KOLHAPUR-KUDGI	2	679	0	6.0	0.0	6.0	
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	1	44	0.7	0.0	0.7	
						WR-SR	6.8	70.3	-63.5

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)	165	139	141	3.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	199	189	199	4.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	87	0	58	1.4
	NER	132KV-GEYLEGPHU - SALAKATI	17	-3	5	0.1
	NER	132kV Motanga-Rangia	-9	6	-2	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-56	0	-40	-1.0
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-215	-76	-160	-3.9
	ER	132KV-BIHAR - NEPAL	-97	-1	-11	-0.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-702	-314	-452	-10.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	45	0	-37	-0.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	44	0	-37	-0.9