



**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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 16<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 15.12.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15<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: 16-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)	49522	49778	39384	18028	2448	159160
Peak Shortage (MW)	558	0	0	0	43	601
Energy Met (MU)	959	1161	889	357	43	3409
Hydro Gen (MU)	123	42	71	35	13	284
Wind Gen (MU)	21	62	53	-	-	137
Solar Gen (MU)*	31.75	20.66	93.96	4.23	0.06	151
Energy Shortage (MU)	10.95	0.00	0.00	0.00	0.97	11.92
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49967	55759	44469	18777	2567	166332
Time Of Maximum Demand Met (From NLDC SCADA)	10:24	10:51	09:54	17:48	17:33	09:30

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	0.038	0.00	0.31	5.83	6.15	76.37	17.49

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	5959	0	116.7	68.5	-2.3	6	0.00
	Haryana	6332	0	126.9	92.5	0.6	251	0.00
	Rajasthan	13149	0	245.0	69.7	1.3	537	0.00
	Delhi	3882	0	64.8	48.5	0.7	251	0.00
	UP	16025	0	276.9	87.3	-0.7	436	0.00
	Uttarakhand	2020	0	38.3	22.4	0.1	202	0.00
	HP	1760	0	30.6	24.6	-0.1	219	0.95
	J&K(UT) & Ladakh(UT)	2824	500	56.0	48.3	0.7	296	10.00
	Chandigarh	219	0	3.5	3.4	0.1	34	0.00
WR	Chhattisgarh	3636	0	80.7	24.0	-1.0	235	0.00
	Gujarat	15434	0	329.6	63.5	3.0	637	0.00
	MP	12864	0	243.8	147.2	-1.7	337	0.00
	Maharashtra	22262	0	452.3	156.4	-3.4	675	0.00
	Goa	512	0	10.9	10.4	0.4	91	0.00
	DD	342	0	7.4	7.2	0.2	18	0.00
	DNH	795	0	18.4	18.6	-0.2	37	0.00
	AMNSIL	799	0	17.7	5.7	0.9	325	0.00
	Andhra Pradesh	7916	0	157.7	71.0	0.2	767	0.00
SR	Telangana	9512	0	180.5	66.8	-0.5	782	0.00
	Karnataka	11308	0	202.8	75.6	-0.4	701	0.00
	Kerala	3558	0	71.4	51.4	1.0	290	0.00
	Tamil Nadu	12957	0	270.2	164.2	0.7	616	0.00
	Puducherry	332	0	6.7	7.1	-0.4	36	0.00
ER	Bihar	4535	0	76.8	75.5	0.0	484	0.00
	DVC	3091	0	64.2	-39.7	-0.4	275	0.00
	Jharkhand	1576	0	24.6	23.1	-2.0	127	0.00
	Odisha	4041	0	73.4	16.5	-1.7	370	0.00
	West Bengal	6372	0	115.4	14.2	-0.6	482	0.00
	Sikkim	143	0	2.2	1.9	0.4	41	0.00
NER	Arunachal Pradesh	110	2	2.1	2.1	-0.1	17	0.13
	Assam	1427	23	23.9	19.1	0.6	85	0.80
	Manipur	234	3	3.1	3.4	-0.3	23	0.02
	Meghalaya	364	0	6.8	4.2	-0.1	43	0.00
	Mizoram	110	1	1.6	1.6	-0.3	61	0.01
	Nagaland	126	2	2.0	2.0	-0.1	22	0.01
Tripura	232	3	3.5	3.1	-0.4	27	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.6	-7.3	-15.1
Day Peak (MW)	410.0	-478.1	-900.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	240.8	-283.4	146.1	-104.7	1.3	0.0
Actual(MU)	227.9	-276.3	147.8	-107.8	0.5	-8.0
OD/UD(MU)	-12.9	7.1	1.7	-3.1	-0.7	-8.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7466	14430	10302	2170	509	34876
State Sector	12161	14673	12377	5642	11	44863
Total	19627	29102	22679	7812	520	79740

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	473	1244	417	443	7	2584
Lignite	20	14	31	0	0	65
Hydro	123	42	71	35	13	284
Nuclear	28	28	38	0	0	95
Gas, Naptha & Diesel	25	45	12	0	28	110
RES (Wind, Solar, Biomass & Others)	82	84	182	4	0	352
Total	752	1459	750	482	47	3491
Share of RES in total generation (%)	10.92	5.76	24.23	0.88	0.13	10.09
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.99	10.62	38.80	8.18	27.06	20.95

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.063

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: 16-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-BB	-	0	300	0.0	7.5	-7.5
3	765 kV	GAYA-VARANASI	2	0	1167	0.0	12.4	-12.4
4	765 kV	SASARAM-FATEHPUR	1	74	325	0.0	0.2	-0.2
5	765 kV	GAYA-BALIA	1	0	560	0.0	8.1	-8.1
6	400 kV	PUSAULI-VARANASI	1	0	239	0.0	5.0	-5.0
7	400 kV	PUSAULI-ALLAHABAD	1	0	148	0.0	2.2	-2.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	829	0.0	8.2	-8.2
9	400 kV	PATNA-BALIA	4	0	1247	0.0	16.4	-16.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	240	0.0	3.5	-3.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	395	0.0	5.5	-5.5
12	400 kV	BIHARSHARIFF-VARANASI	2	100	373	0.0	1.1	-1.1
13	220 kV	PUSAULI-SAHUPURI	1	68	113	0.0	0.3	-0.3
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.5	0.0	0.5
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						0.5	70.3	-69.8
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	834	164	9.8	0.0	9.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	714	354	7.1	0.0	7.1
3	765 kV	JHARSUGUDA-DURG	2	47	197	0.0	1.5	-1.5
4	400 kV	JHARSUGUDA-RAIGARH	4	282	187	1.0	0.0	1.0
5	400 kV	RANCHI-SIPAT	2	238	153	2.0	0.0	2.0
6	220 kV	BUDHIPADAR-RAIGARH	1	40	102	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	122	29	1.4	0.0	1.4
ER-WR						21.2	2.2	19.0
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	525	0.0	12.2	-12.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1987	0.0	40.0	-40.0
3	765 kV	ANGUL-SRIKAKULAM	2	31814	3011	0.0	47.3	-47.3
4	400 kV	TALCHER-JC	2	966	896	0.0	11.0	-11.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	99.5	-99.5
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	221	98	2.3	0.0	2.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	330	117	3.3	0.0	3.3
3	220 kV	ALIPURDUAR-SALAKATI	2	51	29	0.4	0.0	0.4
ER-NER						5.9	0.0	5.9
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	278	0	6.9	0.0	6.9
NER-NR						6.9	0.0	6.9
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1013	0.0	32.4	-32.4
2	HVDC	VINDHYACHAL B/B	-	97	103	1.5	1.0	0.5
3	HVDC	MUNDA-MOHINDERGARH	2	0	1460	0.0	33.2	-33.2
4	765 kV	GWALIOR-AGRA	2	0	2658	0.0	46.9	-46.9
5	765 kV	PHAGI-GWALIOR	2	0	1714	0.0	20.4	-20.4
6	765 kV	JABALPUR-ORAI	2	0	1076	0.0	33.1	-33.1
7	765 kV	GWALIOR-ORAI	1	663	0	10.5	0.0	10.5
8	765 kV	SATNA-ORAI	1	0	1373	0.0	26.4	-26.4
9	765 kV	CHITORGARH-BANASKANTHA	2	0	862	0.0	8.6	-8.6
10	400 kV	ZERDA-KANKROLI	1	95	171	0.0	0.3	-0.3
11	400 kV	ZERDA-BHINMAL	1	151	459	0.0	2.3	-2.3
12	400 kV	VINDHYACHAL-RIHAND	1	964	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	135	552	0.2	4.7	-4.6
14	220 kV	BHANPURA-RANPUR	1	8	182	0.0	2.2	-2.2
15	220 kV	BHANPURA-MORAK	1	11	0	0.1	1.2	-1.1
16	220 kV	MEHGAON-AURAIYA	1	114	0	0.6	0.0	0.6
17	220 kV	MALANPUR-AURAIYA	1	68	15	1.4	0.0	1.4
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						36.6	212.8	-176.2
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	17.2	-17.2
2	HVDC	RAIGARH-PUGALUR	2	0	1494	0.0	24.6	-24.6
3	765 kV	SOLAPUR-RAICHUR	2	280	2234	0.0	25.0	-25.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2457	0.0	28.7	-28.7
5	400 kV	KOLHAPUR-KUDGI	2	1087	0	16.3	0.0	16.3
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	45	0.8	0.0	0.8
WR-SR						17.2	95.5	-78.3
<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)	149	0	140	3.4		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	219	156	159	3.8		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	41	0	18	0.4		
	NER	132KV-GEYLEGPHU - SALAKATI	0	0	0	0.2		
	NER	132kV Motanga-Rangla	0	0	0	-0.1		
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	-1.2		
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-256	-142	-188	-4.5		
	ER	132KV-BIHAR - NEPAL	-165	-1	-65	-1.6		
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-794	-310	-542	-13.0		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	53	0	-43	-1.0		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	53	0	-44	-1.1		