



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: 18th 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 17.12.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th 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: 18-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)	51328	50973	39385	18267	2496	162449
Peak Shortage (MW)	1075	0	0	0	37	1112
Energy Met (MU)	996	1181	888	368	44	3477
Hydro Gen (MU)	116	50	81	35	13	294
Wind Gen (MU)	20	101	38	-	-	160
Solar Gen (MU)*	33.25	29.22	65.67	4.18	0.03	132
Energy Shortage (MU)	12.87	0.00	0.00	0.00	0.55	13.42
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52102	57891	44096	18640	2558	171291
Time Of Maximum Demand Met (From NLDC SCADA)	10:32	10:39	10:38	18:16	17:51	10:40

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	0.039	0.00	0.05	8.38	8.43	72.96	18.61

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	6429	0	123.1	64.8	-2.0	0	0.00
	Haryana	6358	0	132.7	89.9	2.9	295	1.64
	Rajasthan	12830	0	246.8	82.3	-0.6	317	0.00
	Delhi	4283	0	71.6	54.6	1.2	325	0.00
	UP	16726	0	288.4	96.9	-1.7	351	0.00
	Uttarakhand	2182	0	40.6	24.7	0.7	119	0.00
	HP	1756	13	32.4	25.8	0.7	308	0.03
	J&K(UT) & Ladakh(UT)	2941	550	56.6	48.6	2.6	422	11.20
	Chandigarh	241	0	3.9	3.7	0.3	71	0.00
WR	Chhattisgarh	3788	0	83.1	24.9	0.4	363	0.00
	Gujarat	15600	0	328.5	52.6	2.2	566	0.00
	MP	13583	0	258.3	149.3	-1.3	744	0.00
	Maharashtra	22737	0	457.0	160.0	-1.6	810	0.00
	Goa	522	0	10.5	10.5	0.0	46	0.00
	DD	338	0	7.5	7.3	0.2	27	0.00
	DNH	800	0	18.4	18.2	0.2	57	0.00
	AMNSIL	801	0	18.1	10.4	0.0	295	0.00
	SR	Andhra Pradesh	7848	0	159.6	78.5	0.8	505
Telangana		9536	0	183.8	79.5	0.1	548	0.00
Karnataka		11486	0	207.1	73.8	0.5	588	0.00
Kerala		3541	0	72.0	53.8	0.4	279	0.00
Tamil Nadu		13174	0	258.3	170.0	-2.4	267	0.00
Puducherry		346	0	6.9	7.1	-0.1	35	0.00
ER	Bihar	4447	0	75.9	76.8	-2.2	300	0.00
	DVC	3113	0	64.0	-33.9	1.1	370	0.00
	Jharkhand	1499	0	24.8	23.2	-2.3	189	0.00
	Odisha	4471	0	85.4	18.9	-1.2	230	0.00
	West Bengal	6206	0	116.2	11.2	-0.4	270	0.00
	Sikkim	142	0	2.2	1.8	0.4	40	0.00
NER	Arumachal Pradesh	121	2	2.2	2.2	0.0	22	0.01
	Assam	1410	18	24.5	19.1	1.1	81	0.50
	Manipur	232	2	3.4	3.3	0.0	26	0.02
	Meghalaya	371	0	6.6	4.4	-0.1	46	0.00
	Mizoram	116	1	1.6	1.4	-0.1	62	0.01
	Nagaland	137	2	2.3	2.0	0.2	23	0.01
Tripura	215	1	3.2	2.8	-0.5	48	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.4	-8.1	-15.0
Day Peak (MW)	367.0	-498.7	-898.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	279.3	-317.4	143.1	-105.1	0.1	0.0
Actual(MU)	270.7	-317.5	141.9	-102.4	0.1	-7.3
OD/UD(MU)	-8.7	-0.1	-1.2	2.7	0.1	-7.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	8216	12900	8652	2380	509	32656
State Sector	11081	16388	12767	6082	11	46328
Total	19297	29287	21419	8462	520	78985

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	476	1260	431	458	8	2632
Lignite	19	12	26	0	0	57
Hydro	116	50	81	35	13	294
Nuclear	29	28	65	0	0	122
Gas, Naptha & Diesel	24	36	13	0	28	101
RES (Wind, Solar, Biomass & Others)	83	132	141	4	0	360
Total	746	1518	756	497	48	3565

Share of RES in total generation (%)	11.18	8.69	18.60	0.85	0.06	10.10
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.49	13.83	37.94	7.88	26.47	21.77

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.053

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: 18-Dec-2020

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0	
2	HVDC	PUSAULI B/B	-	0	300	0.0	7.2	-7.2	
3	765 kV	GAYA-VARANASI	2	0	861	0.0	10.7	-10.7	
4	765 kV	SASARAM-FATEHPUR	1	73	270	0.0	2.0	-2.0	
5	765 kV	GAYA-BALIA	1	0	569	0.0	8.0	-8.0	
6	400 kV	PUSAULI-VARANASI	1	0	246	0.0	5.2	-5.2	
7	400 kV	PUSAULI -ALLAHABAD	1	0	127	0.0	2.0	-2.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	774	0.0	8.5	-8.5	
9	400 kV	PATNA-BALIA	4	0	1427	0.0	19.6	-19.6	
10	400 kV	BIHARSHARIFF-BALIA	2	0	333	0.0	3.8	-3.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	355	0.0	5.6	-5.6	
12	400 kV	BIHARSHARIFF-VARANASI	2	111	278	0.0	0.6	-0.6	
13	220 kV	PUSAULI-SAHUPURI	1	79	88	0.0	0.2	-0.2	
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-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.3	73.4	-73.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1195	129	14.4	0.0	14.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	916	194	8.5	0.0	8.5	
3	765 kV	JHARSUGUDA-DURG	2	118	197	0.0	1.1	-1.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	305	238	1.0	0.0	1.0	
5	400 kV	RANCHI-SIPAT	2	321	108	2.0	0.0	2.0	
6	220 kV	BUDHIPADAR-RAIGARH	1	32	84	0.0	0.7	-0.7	
7	220 kV	BUDHIPADAR-KORBA	2	140	29	1.1	0.0	1.1	
						ER-WR	27.0	1.8	25.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	317	0.0	7.4	-7.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	44.3	-44.3	
3	765 kV	ANGUL-SRIKAKULAM	2	30911	14265	0.0	48.9	-48.9	
4	400 kV	TALCHER-I/C	2	0	901	0.0	14.4	-14.4	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	100.6	-100.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	251	88	3.2	0.0	3.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	403	120	5.0	0.0	5.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	63	15	0.7	0.0	0.7	
						ER-NER	8.9	0.0	8.9
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	466	0	9.2	0.0	9.2	
						NER-NR	9.2	0.0	9.2
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1754	0.0	44.3	-44.3	
2	HVDC	VINDHYACHAL B/B	-	193	103	1.4	1.0	0.4	
3	HVDC	MUNDA-MOHENDERGARH	2	0	1927	0.0	43.4	-43.4	
4	765 kV	GWALIOR-AGRA	2	0	2786	0.0	46.5	-46.5	
5	765 kV	PHAGI-GWALIOR	2	0	1491	0.0	20.7	-20.7	
6	765 kV	JABALPUR-ORAI	2	0	1051	0.0	34.5	-34.5	
7	765 kV	GWALIOR-ORAI	1	716	0	11.4	0.0	11.4	
8	765 kV	SATNA-ORAI	1	0	1460	0.0	28.3	-28.3	
9	765 kV	CHITORGARH-BANASKANTHA	2	49	1139	0.0	13.9	-13.9	
10	400 kV	ZERDA-KANKROLI	1	52	168	0.0	0.8	-0.8	
11	400 kV	ZERDA -BHINMAL	1	155	337	0.0	2.2	-2.2	
12	400 kV	VINDHYACHAL -RIHAND	1	954	0	11.0	0.0	11.0	
13	400 kV	RAMP-SHILAI PUR	2	130	432	0.0	3.7	-3.7	
14	220 kV	BHANPURA-RANPUR	1	0	197	0.0	2.6	-2.6	
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.6	-1.6	
16	220 kV	MEHGAON-AURAIYA	1	115	0	0.6	0.0	0.6	
17	220 kV	MALANPUR-AURAIYA	1	70	24	1.4	0.0	1.4	
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	25.7	243.6	-217.9
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	18.7	-18.7	
2	HVDC	RAIGARH-PUGAUR	2	0	1491	0.0	17.2	-17.2	
3	765 kV	SOLAPUR-RAICHUR	2	795	2202	0.0	26.7	-26.7	
4	765 kV	WARDHA-NIZAMABAD	2	0	2410	0.0	32.8	-32.8	
5	400 kV	KOLHAPUR-KUDGI	2	1328	0	19.9	0.0	19.9	
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	0.8	0.0	0.8	
						WR-SR	20.7	95.3	-74.6
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)	145	0	137	3.3			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	168	156	157	3.8			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	43	0	13	0.3			
	NER	132KV-GEYLEGPHU - SALAKATI	21	4	11	0.3			
	NER	132KV Motanga-Rangia	-9	0	-3	-0.1			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-63	0	-55	-1.3			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-250	-142	-217	-5.2			
	ER	132KV-BIHAR - NEPAL	-186	-1	-64	-1.5			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-792	-320	-544	-13.1			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	53	0	-41	-1.0			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	53	0	-41	-1.0			