



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: 19th 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 18.12.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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: 19-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)	51258	51096	39444	18159	2474	162431
Peak Shortage (MW)	1732	0	0	84	48	1864
Energy Met (MU)	1021	1194	906	368	44	3532
Hydro Gen (MU)	115	40	72	33	13	272
Wind Gen (MU)	7	33	47	-	-	87
Solar Gen (MU)*	38.49	61.35	85.78	4.50	0.01	190
Energy Shortage (MU)	12.81	0.00	0.00	0.25	0.55	13.61
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53333	58481	45210	18393	2553	173085
Time Of Maximum Demand Met (From NLDC SCADA)	11:14	10:56	09:25	18:04	17:38	10:47

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	0.047	0.00	1.61	6.05	7.66	71.03	21.31

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	6279	0	123.3	55.9	-1.3	99	0.00
	Haryana	6771	0	136.4	97.1	0.6	247	0.13
	Rajasthan	13440	0	251.5	85.7	1.6	491	0.00
	Delhi	4584	0	75.0	55.5	1.2	351	0.00
	UP	16809	140	298.9	98.1	-1.4	368	0.42
	Uttarakhand	2260	0	41.7	24.5	1.8	249	0.16
	HP	1779	2	32.5	25.5	1.3	248	0.90
	J&K(UT) & Ladakh(UT)	3011	550	57.4	49.2	2.5	544	11.20
WR	Chandigarh	244	0	4.0	3.8	0.2	38	0.00
	Chhattisgarh	3805	0	83.7	25.5	-0.3	221	0.00
	Gujarat	15787	0	334.3	57.5	3.4	728	0.00
	MP	14109	0	267.5	157.8	-2.0	660	0.00
	Maharashtra	22013	0	454.7	157.9	-3.0	499	0.00
	Goa	486	0	10.6	10.5	0.1	53	0.00
	DD	340	0	7.5	7.2	0.3	28	0.00
	DNH	793	0	18.3	18.4	-0.1	45	0.00
SR	AMNSIL	793	0	17.1	10.0	-0.3	265	0.00
	Andhra Pradesh	8206	0	163.3	81.3	0.1	336	0.00
	Telangana	9983	0	188.4	84.9	1.3	1050	0.00
	Karnataka	11876	0	212.3	77.4	0.5	850	0.00
	Kerala	3538	0	72.2	54.2	0.9	317	0.00
	Tamil Nadu	12924	0	262.3	172.0	-1.7	541	0.00
	Puducherry	352	0	7.2	7.5	-0.3	37	0.00
	ER	Bihar	4582	0	79.6	78.1	0.0	240
DVC		3105	0	64.5	-32.4	1.2	395	0.00
Jharkhand		1410	0	25.3	22.2	-1.7	130	0.25
Odisha		4294	0	80.3	11.1	-1.2	375	0.00
West Bengal		6134	0	115.7	10.8	0.6	496	0.00
Sikkim		142	0	2.3	1.8	0.5	35	0.00
NER	Arunachal Pradesh	132	2	2.2	2.2	0.0	23	0.01
	Assam	1392	17	24.1	18.8	1.1	152	0.50
	Manipur	233	2	3.1	3.3	-0.1	46	0.02
	Meghalaya	384	0	6.8	4.3	0.0	48	0.00
	Mizoram	121	1	1.6	1.5	-0.1	24	0.01
	Nagaland	130	1	2.3	1.9	0.2	37	0.01
	Tripura	236	2	3.5	2.6	-0.4	34	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	7.1	-8.3	-12.2
Day Peak (MW)	347.0	-450.0	-794.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	274.1	-308.0	146.7	-112.6	-0.2	0.0
Actual(MU)	275.8	-308.2	133.2	-107.3	0.4	-6.0
O/D/U/D(MU)	1.7	-0.2	-13.5	5.3	0.7	-6.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7726	15220	8652	2380	872	34850
State Sector	10871	16283	11897	4772	11	43833
Total	18597	31502	20549	7152	883	78683

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	500	1264	437	460	7	2668
Lignite	19	20	27	0	0	65
Hvdro	115	40	72	33	13	272
Nuclear	28	28	65	0	0	122
Gas, Naptha & Diesel	27	67	12	0	28	134
RES (Wind, Solar, Biomass & Others)	75	107	169	5	0	356
Total	765	1526	781	497	47	3616
Share of RES in total generation (%)	9.84	7.00	21.65	0.91	0.02	9.84
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.55	11.48	39.14	7.57	27.38	20.73

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.054

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: 19-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	815	0.0	9.6	-9.6	
4	765 kV	SASARAM-FATEHPUR	1	121	223	0.0	0.7	-0.7	
5	765 kV	GAYA-BALIA	1	0	667	0.0	10.0	-10.0	
6	400 kV	PUSAULI-VARANASI	1	0	279	0.0	5.6	-5.6	
7	400 kV	PUSAULI -ALLAHABAD	1	0	309	0.0	1.5	-1.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	823	0.0	7.7	-7.7	
9	400 kV	PATNA-BALIA	4	0	1553	0.0	21.7	-21.7	
10	400 kV	BIHARSHARIF-BALIA	2	0	358	0.0	4.6	-4.6	
11	400 kV	MOTIHARIGORAKHPUR	2	0	333	0.0	3.1	-3.1	
12	400 kV	BIHARSHARIF-VARANASI	2	152	223	0.6	0.0	0.6	
13	220 kV	PUSAULI-SAHUPURI	1	85	49	0.7	0.0	0.7	
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-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	1.7	71.7	-70.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1197	154	11.1	0.0	11.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1005	189	10.7	0.0	10.7	
3	765 kV	JHARSUGUDA-DURG	2	59	194	0.0	1.2	-1.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	242	208	1.0	0.0	1.0	
5	400 kV	RANCHI-SIPAT	2	388	112	2.4	0.0	2.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	6	103	0.0	1.2	-1.2	
7	220 kV	BUDHIPADAR-KORBA	2	112	33	0.8	0.0	0.8	
						ER-WR	25.9	2.4	23.5
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	316	0.0	7.4	-7.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2477	0.0	45.0	-45.0	
3	765 kV	ANGUL-SRIKAKULAM	2	3069	2898	0.0	47.9	-47.9	
4	400 kV	TALCHER-I/C	2	0	1108	0.0	14.0	-14.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	100.3	-100.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	281	372	0.3	0.0	0.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	436	572	0.5	0.0	0.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	72	77	0.3	0.0	0.3	
						ER-NER	1.0	0.0	1.0
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	482	404	1.8	0.0	1.8	
						NER-NR	1.8	0.0	1.8
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2000	0.0	53.9	-53.9	
2	HVDC	VINDHYACHAL B/B	-	0	205	0.0	2.7	-2.7	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	2375	0.0	48.8	-48.8	
4	765 kV	GWALIOR-AGRA	2	0	2626	0.0	36.2	-36.2	
5	765 kV	PHAGGL-GWALIOR	2	0	1408	0.0	18.5	-18.5	
6	765 kV	JABALPUR-ORAI	2	0	1014	0.0	35.0	-35.0	
7	765 kV	GWALIOR-ORAI	1	632	0	10.4	0.0	10.4	
8	765 kV	SATNA-ORAI	1	0	1325	0.0	27.2	-27.2	
9	765 kV	CHITORGARH-BANASKANTHA	2	202	814	0.0	7.0	-7.0	
10	400 kV	ZERDA-KANKROLI	1	48	127	0.0	0.4	-0.4	
11	400 kV	ZERDA -BHINMAL	1	0	372	0.0	3.9	-3.9	
12	400 kV	VINDHYACHAL -RIHAND	1	475	0	11.1	0.0	11.1	
13	400 kV	RAPP-SIHUAIPUR	2	21	479	0.1	3.2	-3.2	
14	220 kV	BHANPURA-RANPUR	1	0	180	0.0	2.5	-2.5	
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.4	-1.4	
16	220 kV	MEHGAON-AURAIYA	1	117	0	0.6	0.0	0.6	
17	220 kV	MALANPUR-AURAIYA	1	70	20	1.5	0.0	1.5	
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	23.6	240.6	-217.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	15.2	-15.2	
2	HVDC	RAIGARH-PUGAULI	2	0	1497	0.0	19.5	-19.5	
3	765 kV	SOLAPUR-RAICHUR	2	719	2393	0.0	22.6	-22.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	2585	0.0	32.4	-32.4	
5	400 kV	KOLHAPUR-KUDGI	2	1347	0	20.4	0.0	20.4	
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	XELDAM-AMBEWADI	1	0	41	0.8	0.0	0.8	
						WR-SR	21.2	89.7	-68.5

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)	135	133	134	3.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	167	0	145	3.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	36	0	17	0.4
	NER	132KV-GEYLEGPHU - SALAKATI	17	3	10	0.2
	NER	132kV Motanga-Rangis	-8	0	-1	0.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-65	0	-56	-1.3
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-246	-150	-215	-5.2
	ER	BIHERAMARA HVDC(BANGLADESH)	-694	-311	-433	-10.4
BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	50	0	-38	-0.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	50	0	-38	-0.9