



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: 27th 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 26.12.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-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 26th 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: 27-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)	52385	52016	39661	18224	2535	164821
Peak Shortage (MW)	550	0	0	0	28	578
Energy Met (MU)	1042	1244	929	362	43	3620
Hydro Gen (MU)	111	46	83	32	12	285
Wind Gen (MU)	9	48	37	-	-	95
Solar Gen (MU)*	31.66	30.70	101.42	4.49	0.04	168
Energy Shortage (MU)	11.20	0.30	0.00	0.00	0.54	12.04
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54350	60780	47399	18337	2628	179534
Time Of Maximum Demand Met (From NLDC SCADA)	09:34	10:18	09:54	17:52	17:31	09:43

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	0.00	1.66	1.66	81.17	17.18

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	6499	0	125.6	70.0	-1.6	73	0.00
	Haryana	6592	0	135.7	98.2	1.0	170	0.00
	Rajasthan	13839	0	263.4	98.5	1.5	422	0.00
	Delhi	4042	0	67.4	49.6	0.7	254	0.00
	UP	17628	0	314.9	95.3	-1.0	469	0.00
	Uttarakhand	2220	0	41.3	23.2	0.2	146	0.00
	HP	1844	0	33.9	28.1	0.0	314	0.00
	J&K(UT) & Ladakh(UT)	3122	550	56.4	51.9	-0.2	573	11.20
WR	Chandigarh	229	0	3.7	3.9	-0.1	12	0.00
	Chhattisgarh	4069	133	87.0	36.8	-1.0	330	0.30
	Gujarat	16759	0	345.0	88.7	5.4	1236	0.00
	MP	15248	0	298.3	176.0	-1.8	413	0.00
	Maharashtra	23031	0	459.3	177.9	-1.5	544	0.00
	Goa	498	0	9.9	9.6	0.0	35	0.00
	DD	336	0	7.5	7.3	0.2	24	0.00
	DNH	791	0	18.4	18.3	0.1	65	0.00
SR	AMNSIL	852	0	18.3	11.2	-2.0	295	0.00
	Andhra Pradesh	8638	0	164.0	81.6	0.8	1020	0.00
	Telangana	10390	0	194.9	90.7	0.0	415	0.00
	Karnataka	11682	0	212.0	75.1	0.1	551	0.00
	Kerala	3514	0	69.5	55.2	0.3	196	0.00
	Tamil Nadu	13946	0	281.7	166.8	0.3	412	0.00
	Puducherry	338	0	6.8	7.1	-0.3	22	0.00
ER	Bihar	4807	0	85.6	84.4	-0.1	257	0.00
	DVC	3077	0	65.1	-40.1	-0.7	300	0.00
	Jharkhand	1502	0	27.4	21.7	-1.5	60	0.00
	Odisha	3851	0	69.1	-2.6	-0.4	560	0.00
	West Bengal	6100	0	112.3	1.8	-0.5	290	0.00
	Sikkim	130	0	2.2	1.8	0.4	45	0.00
NER	Arunachal Pradesh	130	1	2.3	2.2	-0.1	55	0.01
	Assam	1426	6	23.5	19.4	0.7	148	0.50
	Manipur	239	2	3.1	3.5	-0.4	48	0.01
	Meghalaya	381	0	7.1	4.3	0.2	46	0.00
	Mizoram	118	1	1.6	1.5	-0.2	17	0.01
	Nagaland	143	2	2.2	2.2	-0.2	10	0.01
Tripura	217	1	3.5	2.6	-0.4	37	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.5	-10.1	-15.4
Day Peak (MW)	332.0	-538.0	-930.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	265.1	-291.4	147.5	-123.7	2.5	0.0
Actual(MU)	249.2	-276.9	141.3	-121.7	2.0	-6.1
O/D/U/D(MU)	-15.9	14.5	-6.2	1.9	-0.5	-6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4530	9885	7692	2630	539	25275
State Sector	10388	14966	12917	4222	11	42503
Total	14918	24850	20609	6852	550	67779

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	554	1342	422	476	7	2801
Lignite	23	12	41	0	0	76
Hydro	111	46	83	32	12	285
Nuclear	23	33	65	0	0	121
Gas, Naptha & Diesel	28	25	13	0	26	92
RES (Wind, Solar, Biomass & Others)	71	80	176	5	0	331
Total	810	1539	800	512	45	3706
Share of RES in total generation (%)	8.72	5.22	21.96	0.89	0.09	8.93
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.31	10.36	40.44	7.17	26.76	19.88

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.048

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: 27-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	248	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	2	0	1016	0.0	14.4	-14.4	
4	765 kV	SASARAM-FATEHPUR	1	32	327	0.0	3.0	-3.0	
5	765 kV	GAYA-BALIA	1	0	544	0.0	9.3	-9.3	
6	400 kV	PUSAULI-VARANASI	1	0	211	0.0	4.3	-4.3	
7	400 kV	PUSAULI-ALLAHABAD	1	0	117	0.0	1.7	-1.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	808	0.0	6.8	-6.8	
9	400 kV	PATNA-BALIA	4	0	965	0.0	14.5	-14.5	
10	400 kV	BIHARSHARIFF-BALIA	2	0	422	0.0	5.9	-5.9	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	325	0.0	5.7	-5.7	
12	400 kV	BIHARSHARIFF-VARANASI	2	79	289	0.0	1.6	-1.6	
13	220 kV	PUSAULI-SAHUPURI	1	87	40	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	1.1	73.5	-72.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	733	411	5.8	0.0	5.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	888	399	6.7	0.0	6.7	
3	765 kV	JHARSUGUDA-DURG	2	28	382	0.0	4.0	-4.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	3	613	0.0	7.8	-7.8	
5	400 kV	RANCHI-SIPAT	2	265	189	1.3	0.0	1.3	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	158	0.0	1.9	-1.9	
7	220 kV	BUDHIPADAR-KORBA	2	57	120	0.0	0.6	-0.6	
						ER-WR	13.8	14.3	-0.5
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	480	0.0	11.0	-11.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1985	0.0	41.5	-41.5	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2889	0.0	49.9	-49.9	
4	400 kV	TALCHER-IC	2	906	630	0.0	0.6	-0.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	102.4	-102.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	220	205	2.6	0.0	2.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	374	280	3.4	0.0	3.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	59	58	0.4	0.0	0.4	
						ER-NER	6.4	0.0	6.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	488	0	9.0	0.0	9.0	
						NER-NR	9.0	0.0	9.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1503	0.0	45.2	-45.2	
2	HVDC	VINDHYACHAL B/B	-	0	56	0.0	1.2	-1.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1460	0.0	36.3	-36.3	
4	765 kV	GWALIOR-AGRA	2	0	2696	0.0	43.4	-43.4	
5	765 kV	PHAGI-GWALIOR	2	0	1597	0.0	25.3	-25.3	
6	765 kV	JABALPUR-ORAI	2	0	1112	0.0	30.3	-30.3	
7	765 kV	GWALIOR-ORAI	1	713	0	12.5	0.0	12.5	
8	765 kV	SATNA-ORAI	1	0	1385	0.0	27.0	-27.0	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1149	0.0	11.2	-11.2	
10	400 kV	ZERDA-KANKROLI	1	77	177	0.0	1.1	-1.1	
11	400 kV	ZERDA-BHINMAL	1	73	427	0.0	5.1	-5.1	
12	400 kV	VINDHYACHAL-RIHAND	1	975	0	22.3	0.0	22.3	
13	400 kV	RAPP-SHUJALPUR	2	64	526	0.0	4.5	-4.5	
14	220 kV	BHANPURA-RANPUR	1	0	149	0.0	2.0	-2.0	
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.8	-0.7	
16	220 kV	MEHGAON-AURAIYA	1	130	0	0.8	0.0	0.7	
17	220 kV	MALANPUR-AURAIYA	1	78	16	1.8	0.0	1.8	
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	233.3	-195.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	14.7	-14.7	
2	HVDC	RAIGARH-PUGALUR	2	0	1496	0.0	21.4	-21.4	
3	765 kV	SOLAPUR-RAICHUR	2	516	2152	0.0	27.4	-27.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2585	0.0	37.8	-37.8	
5	400 kV	KOLHAPUR-KUDGI	2	1363	0	18.1	0.0	18.1	
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	43	1.6	0.0	1.6	
						WR-SR	19.7	101.3	-81.6

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)	169	94	94	2.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	137	135	137	3.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	20	0	-2	0.0
	NER	132KV-GEYLEGPHU - SALAKATI	19	6	11	0.3
	NER	132kV Motanga-Rangia	-12	-2	-4	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-62	0	-52	-1.2
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-264	-223	-252	-6.1
	ER	132KV-BIHAR - NEPAL	-212	-1	-117	-2.8
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-822	-340	-569	-13.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	54	0	-37	-0.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	54	0	-37	-0.9