



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: 29th Nov 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 28.11.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-नवंबर-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 28th November 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: 29-Nov-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)	46048	50906	37230	17429	2476	154089
Peak Shortage (MW)	20	0	0	0	7	27
Energy Met (MU)	906	1170	770	342	43	3231
Hydro Gen (MU)	110	27	86	47	13	283
Wind Gen (MU)	14	136	31	-	-	181
Solar Gen (MU)*	36.29	29.75	55.62	4.61	0.12	126
Energy Shortage (MU)	0.23	0.00	0.00	0.00	0.04	0.27
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46814	55630	38891	17850	2534	155800
Time Of Maximum Demand Met (From NLDC SCADA)	09:29	10:47	18:24	18:30	17:38	18:24

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	0.027	0.00	0.00	3.55	3.55	81.22	15.23

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	6127	0	117.7	64.7	-1.3	37	0.00
	Haryana	6040	0	123.8	111.2	1.0	196	0.00
	Rajasthan	12450	0	233.3	67.8	-0.7	307	0.00
	Delhi	3378	0	59.8	42.3	0.7	241	0.00
	UP	14157	20	250.4	97.0	-1.0	793	0.23
	Uttarakhand	1934	0	36.7	28.6	-0.2	129	0.00
	HP	1604	0	29.6	22.7	-0.3	124	0.00
	J&K(UT) & Ladakh(UT)	2830	0	52.0	45.5	0.8	397	0.00
WR	Chhattisgarh	3352	0	72.8	17.6	0.0	237	0.00
	Gujarat	15801	0	334.7	61.9	0.7	450	0.00
	MP	14351	0	276.4	169.3	-2.1	545	0.00
	Maharashtra	20989	0	433.6	141.9	-1.6	533	0.00
	Goa	477	0	11.0	9.6	1.0	47	0.00
	DD	298	0	6.1	5.9	0.2	34	0.00
	DNH	790	0	18.1	18.1	0.0	36	0.00
	AMNSIL	764	0	17.3	2.7	0.1	30	0.00
SR	Andhra Pradesh	6817	0	127.9	57.9	0.0	480	0.00
	Telangana	6548	0	130.7	43.0	-0.1	555	0.00
	Karnataka	9397	0	177.9	64.2	-0.3	461	0.00
	Kerala	3535	0	71.7	54.5	0.5	184	0.00
	Tamil Nadu	12721	0	255.4	168.3	1.5	751	0.00
	Puducherry	346	0	6.8	7.1	-0.3	33	0.00
ER	Bihar	4240	0	72.0	72.8	-2.0	270	0.00
	DVC	2988	0	63.7	-43.6	-0.5	253	0.00
	Jharkhand	1371	0	24.8	18.2	-1.7	97	0.00
	Odisha	3673	0	68.9	7.2	-1.0	445	0.00
	West Bengal	6117	0	110.7	27.6	1.1	368	0.00
	Sikkim	113	0	1.7	1.7	-0.1	37	0.00
NER	Arunachal Pradesh	121	1	2.0	2.2	-0.2	21	0.01
	Assam	1559	7	24.6	20.8	0.5	142	0.00
	Manipur	208	1	2.6	3.1	-0.5	19	0.01
	Meghalaya	359	0	6.1	3.4	0.2	54	0.00
	Mizoram	110	2	1.6	1.3	0.0	25	0.01
	Nagaland	127	1	2.1	1.9	0.1	44	0.01
	Tripura	216	2	3.5	2.7	-0.4	16	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	11.0	-3.0	-11.6
Day Peak (MW)	478.0	-335.2	-505.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	276.8	-300.2	124.2	-99.8	-1.0	0.0
Actual(MU)	260.1	-298.9	132.5	-101.6	-0.3	-8.1
O/D/U/D(MU)	-16.7	1.3	8.3	-1.8	0.8	-8.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7070	13875	10822	3100	659	35525
State Sector	17731	15846	14207	4772	11	52566
Total	24801	29720	25029	7872	670	88092

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	409	1216	348	409	6	2389
Lignite	21	10	25	0	0	56
Hydro	110	27	86	47	13	283
Nuclear	28	33	60	0	0	122
Gas, Naptha & Diesel	21	36	14	0	28	99
RES (Wind, Solar, Biomass & Others)	70	167	118	5	0	359
Total	660	1489	651	460	48	3308

Share of RES in total generation (%)	10.62	11.19	18.10	1.01	0.25	10.86
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.58	15.20	40.58	11.14	28.23	23.09

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.038
Based on State Max Demands	1.066

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: 29-Nov-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	350	0.0	5.2	-5.2	
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.0	-7.0	
3	765 kV	GAYA-VARANASI	2	0	685	0.0	7.1	-7.1	
4	765 kV	SASARAM-FATEHPUR	1	143	253	0.0	1.1	-1.1	
5	765 kV	GAYA-BALIA	1	0	513	0.0	7.6	-7.6	
6	400 kV	PUSAULI-VARANASI	1	0	256	0.0	5.2	-5.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	127	0.0	1.8	-1.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	51	685	0.0	7.2	-7.2	
9	400 kV	PATNA-BALIA	4	0	974	0.0	12.1	-12.1	
10	400 kV	BIHARSHARIFF-BALIA	2	0	376	0.0	4.0	-4.0	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	397	0.0	5.2	-5.2	
12	400 kV	BIHARSHARIFF-VARANASI	2	174	104	0.7	0.0	0.7	
13	220 kV	PUSAULI-SAHUPURI	1	64	34	0.6	0.0	0.6	
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	63.4	-61.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	961	304	7.3	0.0	7.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	981	190	11.5	0.0	11.5	
3	765 kV	JHARSUGUDA-DURG	2	49	230	0.0	1.6	-1.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	296	75	2.7	0.0	2.7	
5	400 kV	RANCHI-SIPAT	2	307	69	4.6	0.0	4.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	54	36	0.2	0.0	0.2	
7	220 kV	BUDHIPADAR-KORBA	2	148	0	1.7	0.0	1.7	
						ER-WR	28.0	1.6	26.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	545	0.0	12.4	-12.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2480	0.0	45.6	-45.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2404	0.0	40.6	-40.6	
4	400 kV	TALCHER-I/C	2	0	1100	0.0	16.0	-16.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	98.6	-98.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	229	325	0.0	1.6	-1.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	327	377	0.0	1.9	-1.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	46	73	0.0	0.5	-0.5	
						ER-NER	0.0	3.9	-3.9
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	369	504	0.0	3.6	-3.6	
						NER-NR	0.0	3.6	-3.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	38.3	-38.3	
2	HVDC	VINDHYACHAL B/B	-	49	28	1.2	0.0	1.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1924	0.0	38.8	-38.8	
4	765 kV	GWALIOR-AGRA	2	0	2737	0.0	49.0	-49.0	
5	765 kV	PHAGI-GWALIOR	2	0	1662	0.0	18.8	-18.8	
6	765 kV	JABALPUR-ORAI	2	0	1035	0.0	35.4	-35.4	
7	765 kV	GWALIOR-ORAI	1	574	0	8.9	0.0	8.9	
8	765 kV	SATNA-ORAI	1	0	1489	0.0	30.1	-30.1	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1318	0.0	17.0	-17.0	
10	400 kV	ZERDA-KANKROLI	1	21	173	0.0	1.5	-1.5	
11	400 kV	ZERDA-BHINMAL	1	19	393	0.0	4.7	-4.7	
12	400 kV	VINDHYACHAL -RIHAND	1	969	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUJALPUR	2	153	350	0.6	2.3	-1.8	
14	220 kV	BHANPURA-RANPUR	1	0	189	0.0	2.4	-2.4	
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.0	-1.0	
16	220 kV	MEHGAON-AURAIYA	1	94	4	0.3	0.1	0.2	
17	220 kV	MALANPUR-AURAIYA	1	56	20	0.7	0.0	0.7	
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	34.2	239.3	-205.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	813	0.0	10.8	-10.8	
2	HVDC	RAIGARH-PUGALUR	2	0	1489	0.0	8.3	-8.3	
3	765 kV	SOLAPUR-RAICHUR	2	0	2353	0.0	28.4	-28.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2065	0.0	24.6	-24.6	
5	400 kV	KOLHAPUR-KUDGI	2	491	0	5.3	0.0	5.3	
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	6.2	72.2	-66.0
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)	164	164	164	4.0			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	288	248	273	6.6			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	69	0	6	0.2			
	NER	132KV-GEYLEGPHU - SALAKATI	-19	17	-3	-0.1			
	NER	132kV Motanga-Rangia	-24	-3	-10	-0.3			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-52	0	-40	-1.0			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-174	0	-67	-1.6			
	ER	132KV-BIHAR - NEPAL	-109	-1	-19	-0.4			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-408	-403	-407	-9.8			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	49	0	-39	-0.9			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	48	0	-39	-0.9			