



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: 14th Jan 2021

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 13.01.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-जनवरी -2021 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 13th January 2021, 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: 14-Jan-2021

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)	50419	51872	38049	18762	2534	161636
Peak Shortage (MW)	680	0	0	0	25	705
Energy Met (MU)	1009	1238	899	386	44	3575
Hydro Gen (MU)	103	48	68	36	12	266
Wind Gen (MU)	3	39	67	-	-	109
Solar Gen (MU)*	40.46	35.99	77.05	4.82	0.03	158
Energy Shortage (MU)	13.07	0.07	0.00	0.00	0.44	13.58
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53021	59825	45814	18920	2545	176521
Time Of Maximum Demand Met (From NLDC SCADA)	10:36	10:14	10:14	19:03	17:28	10:14

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	0.23	5.59	5.82	73.65	20.53

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	6522	0	121.4	61.2	-0.8	91	0.00
	Haryana	6630	0	128.9	92.9	0.6	151	0.00
	Rajasthan	13441	0	246.6	91.0	0.3	175	0.00
	Delhi	4756	0	76.6	66.7	-0.9	288	0.00
	UP	17246	80	300.3	84.7	0.6	419	0.59
	Uttarakhand	2289	0	42.3	24.9	0.4	187	0.08
	HP	1911	0	34.1	27.5	1.0	393	0.00
	J&K(UT) & Ladakh(UT)	2711	600	54.6	49.0	-0.8	194	12.40
	Chandigarh	273	0	4.5	4.3	0.2	49	0.00
	Chhattisgarh	4235	24	90.2	44.3	0.1	345	0.07
WR	Gujarat	16568	0	344.5	102.3	3.4	585	0.00
	MP	14179	0	273.9	160.6	-2.0	795	0.00
	Maharashtra	23435	0	472.0	161.5	-4.0	586	0.00
	Goa	485	0	11.3	10.3	0.4	21	0.00
	DD	344	0	7.7	7.4	0.3	27	0.00
	DNH	837	0	19.6	19.5	0.1	58	0.00
	AMNSIL	836	0	18.3	11.6	-0.1	257	0.00
	Andhra Pradesh	8762	0	167.3	57.4	-0.2	884	0.00
	Telangana	12035	0	220.7	102.1	0.0	833	0.00
	Karnataka	10401	0	193.1	67.8	-2.4	542	0.00
SR	Kerala	3422	0	68.0	51.8	0.1	307	0.00
	Tamil Nadu	12093	0	242.4	157.0	0.4	753	0.00
	Puducherry	352	0	7.1	7.5	-0.4	48	0.00
	Bihar	4927	0	87.8	79.5	2.2	523	0.00
	DVC	3213	0	68.6	-45.7	1.0	386	0.00
	Jharkhand	1396	0	25.3	18.6	-1.9	187	0.00
	Odisha	3809	0	75.4	-1.6	1.0	480	0.00
	West Bengal	6535	0	126.4	15.9	-0.5	296	0.00
	Sikkim	147	0	2.4	2.0	0.5	40	0.00
	Arunachal Pradesh	132	2	2.4	2.7	-0.4	40	0.01
NER	Assam	1401	12	24.5	19.3	0.3	133	0.40
	Manipur	238	3	2.9	3.3	-0.4	47	0.01
	Meghalaya	382	0	7.1	5.1	0.0	59	0.00
	Mizoram	115	2	1.6	1.5	-0.3	20	0.01
	Nagaland	126	2	2.4	2.0	0.2	18	0.01
	Tripura	221	1	3.7	2.5	-0.3	24	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.0	-12.7	-17.9
Day Peak (MW)	219.0	-645.1	-946.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	260.7	-241.6	81.1	-100.1	-0.2	0.0
Actual(MU)	258.7	-246.8	67.3	-89.0	0.4	-9.4
O/D/U/D(MU)	-2.1	-5.3	-13.7	11.2	0.5	-9.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6629	12313	6412	3755	599	29707
State Sector	11644	16380	11577	5402	11	45014
Total	18273	28693	17989	9157	610	74721

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	534	1313	494	473	7	2821
Lignite	24	10	22	0	0	56
Hydro	103	48	68	36	12	266
Nuclear	18	21	64	0	0	104
Gas, Naptha & Diesel	23	29	11	0	30	93
RES (Wind, Solar, Biomass & Others)	72	76	182	5	0	335
Total	775	1498	841	513	49	3676
Share of RES in total generation (%)	9.29	5.10	21.65	0.94	0.06	9.12
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	24.99	9.70	37.34	7.90	25.01	19.20

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.056

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: 14-Jan-2021

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	251	0.0	6.2	-6.2	
3	765 kV	GAYA-VARANASI	2	0	989	0.0	12.9	-12.9	
4	765 kV	SASARAM-EATEHPUR	1	75	333	0.0	3.1	-3.1	
5	765 kV	GAYA-BALIA	1	0	598	0.0	9.2	-9.2	
6	400 kV	PUSAULI-VARANASI	1	0	219	0.0	4.6	-4.6	
7	400 kV	PUSAULI-ALLAHABAD	1	0	109	0.0	1.4	-1.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	696	0.0	8.4	-8.4	
9	400 kV	PATNA-BALIA	4	0	1163	0.0	18.6	-18.6	
10	400 kV	BIHARSHARIFF-BALIA	2	0	498	0.0	6.1	-6.1	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	374	0.0	6.0	-6.0	
12	400 kV	BIHARSHARIFF-VARANASI	2	112	253	0.0	1.2	-1.2	
13	220 kV	PUSAULI-SAHUPURI	1	78	61	0.1	0.0	0.1	
14	132 kV	SONENAGAR-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-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	77.8	-77.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	778	0	9.2	0.0	9.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	908	211	7.3	0.0	7.3	
3	765 kV	JHARSUGUDA-DURG	2	138	170	0.0	1.5	-1.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	80	415	0.0	4.1	-4.1	
5	400 kV	RANCHI-SIPAT	2	314	69	2.8	0.0	2.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	152	0.0	2.0	-2.0	
7	220 kV	BUDHIPADAR-KORBA	2	117	33	1.2	0.0	1.2	
						ER-WR	20.5	7.6	12.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	435	0.0	10.0	-10.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1647	0.0	35.2	-35.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2266	0.0	38.3	-38.3	
4	400 kV	TALCHER-JC	2	1218	641	6.2	0.0	6.2	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	83.4	-83.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	264	2	3.6	0.0	3.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	440	0	6.2	0.0	6.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	77	23	1.0	0.0	1.0	
						ER-NER	10.9	0.0	10.9
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALL-AGRA	2	474	0	11.8	0.0	11.8	
						NER-NR	11.8	0.0	11.8
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1715	0.0	47.4	-47.4	
2	HVDC	VINDHYACHAL B/B	-	240	0	5.7	0.0	5.7	
3	HVDC	MUNDA-MOHINDERGARH	2	0	1742	0.0	43.5	-43.5	
4	765 kV	GWALIOR-AGRA	2	0	2921	0.0	43.7	-43.7	
5	765 kV	PHAGI-GWALIOR	2	0	1513	0.0	24.8	-24.8	
6	765 kV	JABALPUR-ORAI	2	0	1269	0.0	37.8	-37.8	
7	765 kV	GWALIOR-ORAI	1	828	0	15.3	0.0	15.3	
8	765 kV	SATNA-ORAI	1	0	1532	0.0	28.0	-28.0	
9	765 kV	CHITORGARH-BANASKANTHA	2	385	861	0.0	1.4	-1.4	
10	400 kV	ZERDA-KANKROLI	1	127	126	0.9	0.0	0.9	
11	400 kV	ZERDA -BHINMAL	1	41	346	0.0	3.3	-3.3	
12	400 kV	VINDHYACHAL -RIHAND	1	491	0	11.3	0.0	11.3	
13	400 kV	RAPP-SHUALPUR	2	38	656	0.0	6.2	-6.2	
14	220 kV	BHANPURA-RANPUR	1	0	140	0.0	1.8	-1.8	
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	1.1	-1.0	
16	220 kV	MEHGAON-AURAIYA	1	117	0	0.5	0.0	0.5	
17	220 kV	MALANPUR-AURAIYA	1	68	21	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	35.2	239.0	-203.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	414	0.0	9.8	-9.8	
2	HVDC	RAIGARH-PUGALUR	2	956	498	0.0	3.5	-3.5	
3	765 kV	SOLAPIR-RAICHUR	2	657	1312	0.0	9.5	-9.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	2287	0.0	32.3	-32.3	
5	400 kV	KOLHAPUR-KUDGI	2	1566	0	25.5	0.0	25.5	
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	NELDEM-AMBEWADI	1	0	43	0.0	0.8	0.8	
						WR-SR	26.4	55.1	-28.7

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)	123	113	116	2.8
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	127	0	112	2.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	13	0	-20	-0.5
	NER	132kV-GEYLEGPHU - SALAKATI	-29	-9	17	0.4
	NER	132kV Motanga-Rangia	-15	0	5	0.1
NEPAL	NR	132kV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-83	0	-72	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-267	-208	-263	-6.3
	ER	132KV-BIHAR - NEPAL	-295	-77	-196	-4.7
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-843	-457	-657	-15.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	52	0	-44	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	51	0	-44	-1.1