



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: 20th 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 19.01.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19th 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:

20-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)	51086	53646	40215	19368	2523	166838
Peak Shortage (MW)	1579	0	0	0	54	1633
Energy Met (MU)	1030	1276	959	396	44	3706
Hydro Gen (MU)	101	56	87	39	10	293
Wind Gen (MU)	10	47	29	-	-	86
Solar Gen (MU)*	28.87	30.65	103.47	4.27	0.03	167
Energy Shortage (MU)	12.53	0.00	0.00	0.00	0.44	12.97
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52524	61683	48507	19455	2753	180117
Time Of Maximum Demand Met (From NLDC SCADA)	10:15	11:20	09:49	18:12	18:02	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	0.044	0.00	0.78	7.67	8.45	73.51	18.04

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	6748	0	128.4	51.2	-1.2	70	0.00
	Haryana	6830	0	134.8	85.2	0.1	120	0.00
	Rajasthan	13837	0	257.3	96.3	1.9	463	0.00
	Delhi	4633	0	75.6	64.9	-1.5	211	0.00
	UP	16909	0	300.7	83.5	-0.8	408	0.00
	Uttarakhand	2164	0	40.7	23.9	-0.1	146	0.13
	HP	1823	0	32.5	27.0	-0.3	270	0.00
	J&K(UT) & Ladakh(UT)	2997	600	56.2	50.4	0.4	477	12.40
WR	Chandigarh	247	0	3.9	3.9	0.0	38	0.00
	Chhattisgarh	4346	0	92.9	45.3	0.2	338	0.00
	Gujarat	16977	0	353.0	99.7	4.8	1257	0.00
	MP	14738	0	289.2	171.1	-0.2	544	0.00
	Maharashtra	23841	0	485.9	156.4	-3.5	741	0.00
	Goa	572	0	10.9	10.9	-0.2	46	0.00
	DD	341	0	7.6	7.4	0.2	25	0.00
	DNH	844	0	19.6	19.5	0.1	32	0.00
SR	AMNSIL	805	0	17.1	8.7	-1.2	270	0.00
	Andhra Pradesh	8927	0	179.7	79.5	1.0	558	0.00
	Telangana	11952	0	226.5	108.7	-0.2	1022	0.00
	Karnataka	12072	0	220.3	78.2	0.4	712	0.00
	Kerala	3611	0	71.5	49.0	-0.1	314	0.00
	Tamil Nadu	12531	0	254.1	153.6	1.9	1198	0.00
	Puducherry	353	0	7.1	7.1	-0.1	34	0.00
ER	Bihar	4954	0	86.1	78.8	0.5	350	0.00
	DVC	3236	0	68.7	-42.1	1.1	236	0.00
	Jharkhand	1507	0	25.9	19.9	-2.7	83	0.00
	Odisha	4248	0	86.1	9.9	-0.6	407	0.00
	West Bengal	6626	0	127.9	8.5	0.2	411	0.00
	Sikkim	125	0	1.7	2.0	-0.3	27	0.00
NER	Arunachal Pradesh	145	3	2.3	2.3	-0.1	32	0.01
	Assam	1430	12	24.0	18.5	0.6	113	0.40
	Manipur	227	2	3.0	3.3	-0.3	25	0.01
	Meghalaya	400	3	7.0	4.4	0.3	67	0.00
	Mizoram	127	2	1.7	1.5	-0.2	30	0.01
	Nagaland	132	1	2.6	1.9	0.6	18	0.01
	Tripura	219	1	3.6	2.3	-0.1	40	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.7	-12.2	-19.0
Day Peak (MW)	275.0	-682.0	-1000.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	252.1	-243.1	96.9	-107.6	1.7	0.0
Actual(MU)	249.3	-253.9	103.0	-106.7	3.7	-4.5
O/D/U/D(MU)	-2.8	-10.8	6.1	1.0	2.0	-4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6436	13513	7002	3115	599	30664	43
State Sector	10019	14913	10927	4842	11	40711	57
Total	16455	28425	17929	7957	610	71376	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	590	1352	524	495	8	2968	78
Lignite	14	7	34	0	0	55	1
Hydro	101	56	87	39	10	293	8
Nuclear	13	21	40	0	0	74	2
Gas, Naptha & Diesel	23	29	13	0	27	92	2
RES (Wind, Solar, Biomass & Others)	66	79	169	4	0	319	8
Total	807	1545	866	538	45	3802	100

Share of RES in total generation (%)	8.24	5.12	19.53	0.79	0.07	8.39
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	22.36	10.11	34.13	8.12	23.09	18.06

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.063

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: 20-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	249	0.0	5.9	-5.9	
3	765 kV	GAYA-VARANASI	2	0	983	0.0	11.3	-11.3	
4	765 kV	SASARAM-FATEHPUR	1	4	363	0.0	4.6	-4.6	
5	765 kV	GAYA-BALIA	1	0	605	0.0	9.0	-9.0	
6	400 kV	PUSAULI-VARANASI	1	0	214	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	101	0.0	1.6	-1.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	744	0.0	8.3	-8.3	
9	400 kV	PATNA-BALIA	4	0	961	0.0	14.1	-14.1	
10	400 kV	BIHARSHARIFF-BALIA	2	0	614	0.0	8.8	-8.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	269	0.0	3.7	-3.7	
12	400 kV	BIHARSHARIFF-VARANASI	2	57	299	0.0	1.5	-1.5	
13	220 kV	PUSAULI-SAHUPURI	1	48	60	0.1	0.0	0.1	
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-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	73.1	-72.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	822	192	8.1	0.0	8.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	631	302	4.5	0.0	4.5	
3	765 kV	JHARSUGUDA-DURG	2	68	233	0.0	1.8	-1.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	275	378	0.0	2.6	-2.6	
5	400 kV	RANCHI-SIPAT	2	283	62	2.5	0.0	2.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	136	0.0	1.7	-1.7	
7	220 kV	BUDHIPADAR-KORBA	2	71	12	1.3	0.0	1.3	
						ER-WR	16.4	6.0	10.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	379	0.0	8.6	-8.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1983	0.0	37.6	-37.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2366	0.0	44.3	-44.3	
4	400 kV	TALCHER-I/C	2	251	683	0.0	4.0	-4.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	90.6	-90.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	227	44	2.2	0.0	2.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	389	17	3.6	0.0	3.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	71	21	0.5	0.0	0.5	
						ER-NER	6.3	0.0	6.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	487	0	10.5	0.0	10.5	
						NER-NR	10.5	0.0	10.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2025	0.0	55.0	-55.0	
2	HVDC	VINDHYACHAL B/B	-	239	0	6.2	0.0	6.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1459	0.0	35.7	-35.7	
4	765 kV	GWALIOR-AGRA	2	0	2600	0.0	41.9	-41.9	
5	765 kV	PHAGI-GWALIOR	2	0	1447	0.0	20.9	-20.9	
6	765 kV	JABALPUR-ORAI	2	0	1235	0.0	37.9	-37.9	
7	765 kV	GWALIOR-ORAI	1	795	0	13.3	0.0	13.3	
8	765 kV	SATNA-ORAI	1	0	1463	0.0	21.7	-21.7	
9	765 kV	CHITORGARH-BANASKANTHA	2	424	706	0.0	3.0	-3.0	
10	400 kV	ZERDA-KANKROLI	1	104	172	0.3	0.0	0.3	
11	400 kV	ZERDA-BHINMAL	1	97	520	0.0	5.5	-5.5	
12	400 kV	VINDHYACHAL-RIHAND	1	495	0	11.3	0.0	11.3	
13	400 kV	RAPP-SHUJALPUR	2	135	615	0.2	5.7	-5.5	
14	220 kV	BHANPURA-RANPUR	1	46	150	0.2	1.4	-1.2	
15	220 kV	BHANPURA-MORAK	1	0	30	0.3	1.0	-0.7	
16	220 kV	MEHGAON-AURAIYA	1	117	0	0.6	0.0	0.6	
17	220 kV	MALANPUR-AURAIYA	1	69	17	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	33.9	229.7	-195.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	300	1006	2.5	8.7	-6.3	
2	HVDC	RAIGARH-PUGALUR	2	958	998	0.0	4.1	-4.1	
3	765 kV	SOLAPUR-RAICHUR	2	571	2007	0.0	18.5	-18.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	2539	0.0	41.3	-41.3	
5	400 kV	KOLHAPUR-KUDGI	2	1370	0	22.3	0.0	22.3	
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	1	48	0.5	0.0	0.5	
						WR-SR	25.2	72.7	-47.4
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)	126	0	115	2.8			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	115	0	101	2.4			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.5			
	NER	132KV-GEYLEGPHU - SALAKATI	23	2	10	0.3			
	NER	132kV Motanga-Rangia	10	0	3	0.1			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-82	0	-70	-1.7			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-312	-140	-257	-6.2			
	ER	132KV-BIHAR - NEPAL	-288	-70	-182	-4.4			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-891	-455	-702	-16.9			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	54	0	-44	-1.1			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	55	0	-44	-1.1			