



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: 24thJan 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 23.01.2021.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23rdJanuary 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: 24-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)	52356	53769	43381	19094	2551	171151
Peak Shortage (MW)	680	0	0	0	38	718
Energy Met (MU)	1042	1285	1037	388	43	3795
Hydro Gen (MU)	100	54	81	35	12	282
Wind Gen (MU)	20	33	28	-	-	81
Solar Gen (MU)*	30.74	33.33	97.31	4.64	0.15	166
Energy Shortage (MU)	12.69	0.00	0.00	0.00	0.55	13.24
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54732	61894	52294	19324	2616	186509
Time Of Maximum Demand Met (From NLDC SCADA)	09:42	10:35	11:53	18:46	17:54	09:42

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	0.030	0.00	0.00	2.52	2.52	75.81	21.67

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	6882	0	130.2	51.8	-1.0	78	0.00	
	Haryana	6726	0	135.0	83.0	1.0	202	0.00	
	Rajasthan	14020	0	266.2	82.0	1.1	504	0.00	
	Delhi	4410	0	72.4	59.8	-0.5	348	0.00	
	UP	17583	0	306.5	92.1	-0.5	455	0.14	
	Uttarakhand	2251	0	41.6	24.6	0.4	401	0.15	
	HP	1932	0	33.0	27.7	0.0	304	0.00	
	J&K(UT) & Ladakh(UT)	2773	600	53.4	47.8	0.9	327	12.40	
	Chandigarh	229	0	3.8	3.9	-0.1	28	0.00	
WR	Chhattisgarh	4393	0	94.1	43.9	1.0	257	0.00	
	Gujarat	16980	0	353.5	112.5	3.8	613	0.00	
	MP	14946	0	293.0	180.3	-1.4	585	0.00	
	Maharashtra	23956	0	489.4	148.8	-2.3	665	0.00	
	Goa	513	0	10.3	10.0	-0.1	121	0.00	
	DD	348	0	7.8	7.3	0.5	37	0.00	
	DNH	854	0	19.6	19.4	0.2	41	0.00	
	AMNSIL	777	0	17.1	10.4	0.1	323	0.00	
	SR	Andhra Pradesh	9698	0	183.9	74.4	0.1	510	0.00
Telangana		13059	0	252.7	137.1	0.4	792	0.00	
Karnataka		12471	0	228.5	90.0	0.1	628	0.00	
Kerala		3703	0	75.5	50.5	1.1	203	0.00	
Tamil Nadu		13709	0	288.7	168.0	-0.8	512	0.00	
Puducherry		365	0	7.6	7.6	-0.1	25	0.00	
Bihar		5107	0	89.3	81.5	-0.2	295	0.00	
DVC		3086	0	68.1	-40.7	0.6	278	0.00	
Jharkhand		1445	0	25.6	19.3	-2.4	107	0.00	
ER	Odisha	3922	0	74.2	-2.9	0.1	346	0.00	
	West Bengal	6648	0	128.8	4.8	-1.0	313	0.00	
	Sikkim	125	0	1.6	2.0	-0.4	27	0.00	
	NER	Arunachal Pradesh	146	2	2.3	2.5	-0.3	34	0.01
		Assam	1426	17	23.9	19.0	0.3	118	0.50
		Manipur	232	3	2.8	3.4	-0.5	24	0.01
		Meghalaya	384	0	6.6	4.4	0.1	57	0.00
		Mizoram	127	2	1.7	1.6	-0.3	27	0.02
		Nagaland	131	1	2.2	2.0	0.1	16	0.01
Tripura		219	2	3.9	2.5	-0.2	29	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.2	-11.7	-18.3
Day Peak (MW)	276.0	-620.4	-979.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	231.3	-241.6	143.2	-132.4	-0.6	0.0
Actual(MU)	230.1	-243.7	146.6	-138.3	-0.5	-5.8
O/D/U/D(MU)	-1.2	-2.1	3.3	-5.9	0.1	-5.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6306	12434	7082	2455	564	28841	44
State Sector	8865	13558	9347	4342	11	36122	56
Total	15171	25992	16429	6797	575	64963	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	588	1355	568	515	7	3034	78
Lignite	23	9	37	0	0	69	2
Hydro	100	54	81	35	12	282	7
Nuclear	18	24	46	0	0	88	2
Gas, Naptha & Diesel	24	34	10	0	29	97	3
RES (Wind, Solar, Biomass & Others)	79	67	163	5	0	313	8
Total	831	1544	903	555	49	3882	100

Share of RES in total generation (%)	9.48	4.34	18.01	0.84	0.31	8.07
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	23.60	9.38	32.00	7.16	25.42	17.58

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.049

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: 24-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	6.2	-6.2	
3	765 kV	GAYA-VARANASI	2	0	982	0.0	13.7	-13.7	
4	765 kV	SASARAM-EATEHPUR	2	0	428	0.0	5.7	-5.7	
5	765 kV	GAYA-BALIA	1	0	535	0.0	7.6	-7.6	
6	400 kV	PUSAULI-VARANASI	1	0	210	0.0	4.1	-4.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	113	0.0	1.9	-1.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	725	0.0	9.4	-9.4	
9	400 kV	PATNA-BALIA	4	0	1050	0.0	17.6	-17.6	
10	400 kV	BIHARSHARIFF-BALIA	2	0	433	0.0	6.0	-6.0	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	332	0.0	5.9	-5.9	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	245	0.0	2.3	-2.3	
13	220 kV	PUSAULI-SAHUPURI	1	53	45	0.1	0.0	0.1	
14	132 kV	SONWAR-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	0.5	80.2	-79.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	672	55	6.5	0.0	6.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	499	542	0.0	1.2	-1.2	
3	765 kV	JHARSUGUDA-DURG	2	54	272	0.0	3.5	-3.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	11	445	0.0	5.7	-5.7	
5	400 kV	RANCHI-SIPAT	2	205	155	0.2	0.0	0.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	151	0.0	2.2	-2.2	
7	220 kV	BUDHIPADAR-KORBA	2	101	36	0.8	0.0	0.8	
						ER-WR	7.5	12.6	-5.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	538	0.0	10.6	-10.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1996	0.0	42.4	-42.4	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2811	0.0	51.3	-51.3	
4	400 kV	TALCHER-I/C	2	92	663	0.0	8.7	-8.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	104.2	-104.2
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	258	43	3.5	0.0	3.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	424	19	5.8	0.0	5.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	69	11	0.9	0.0	0.9	
						ER-NER	10.2	0.0	10.2
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALL-AGRA	2	487	0	10.8	0.0	10.8	
						NER-NR	10.8	0.0	10.8
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1255	0.0	40.9	-40.9	
2	HVDC	VINDHYACHAL B/B	-	242	0	6.0	0.0	6.0	
3	HVDC	MUNDA-MOHINDERGARH	2	0	1735	0.0	40.5	-40.5	
4	765 kV	GWALIOR-AGRA	2	0	2531	0.0	39.7	-39.7	
5	765 kV	PHAGI-GWALIOR	2	0	1229	0.0	21.4	-21.4	
6	765 kV	JABALPUR-ORAI	2	0	1103	0.0	32.5	-32.5	
7	765 kV	GWALIOR-ORAI	1	692	0	12.8	0.0	12.8	
8	765 kV	SATNA-ORAI	1	0	1336	0.0	25.2	-25.2	
9	765 kV	CHITORGARH-BANASKANTHA	2	430	825	0.7	0.0	0.7	
10	400 kV	ZERDA-KANKROLI	1	202	108	1.6	0.0	1.6	
11	400 kV	ZERDA -BHINMAL	1	259	302	0.0	1.1	-1.1	
12	400 kV	VINDHYACHAL -RIHAND	1	495	0	11.2	0.0	11.2	
13	400 kV	RAPP-SHUALPUR	2	207	526	0.5	4.6	-4.1	
14	220 kV	BHANPURA-RANPUR	1	20	158	0.0	2.0	-2.0	
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7	
16	220 kV	MEHGAON-AURAIYA	1	137	0	2.0	0.2	1.8	
17	220 kV	MALANPUR-AURAIYA	1	81	10	1.2	0.4	0.8	
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	0.8	-0.8	
						WR-NR	36.0	208.9	-172.9
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	202	1016	0.6	11.2	-10.6	
2	HVDC	RAIGARH-PUGALUR	2	484	1500	0.0	11.1	-11.1	
3	765 kV	SOLAPIR-RAICHUR	2	707	2101	0.0	21.6	-21.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	3159	0.0	56.1	-56.1	
5	400 kV	KOLHAPUR-KUDGI	2	1440	0	21.8	0.0	21.8	
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	39	0.0	1.7	-1.7	
						WR-SR	24.2	100.0	-75.8
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	112	2.7			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	109	0	94	2.3			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.7			
	NER	132KV-GEVLEGPHU - SALAKATI	28	12	18	0.4			
	NER	132KV Motanga-Rangia	16	7	10	0.3			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-83	0	-72	-1.7			
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-276	-180	-261	-6.3			
	ER	132KV-BIHAR - NEPAL	-261	-63	-154	-3.7			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-883	-454	-679	-16.3			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	48	0	-42	-1.0			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	48	0	-42	-1.0			