National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर 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: 23rd 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., डोंगतिएह, 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 22.01.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-जनवरी -2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 22nd 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:** **23-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)	52871	53400	43530	19053	2582	171436
Peak Shortage (MW)	900	0	0	0	27	927
Energy Met (MU)	1054	1283	1035	394	45	3811
Hydro Gen (MU)	101	55	88	36	12	292
Wind Gen (MU)	24	28	17	-	-	69
Solar Gen (MU)*	37.19	34.15	89.14	4.66	0.17	165
Energy Shortage (MU)	12.77	0.00	0.00	0.00	0.85	13.62
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55125	62396	51519	19115	2620	187195
Time Of Maximum Demand Met (From NLDC SCADA)	10:39	11:26	11:33	18:30	17:36	10:28

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	0.02	5.07	5.09	78.03	16.88

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	6656	0	128.0	51.5	-1.3	41	0.00
	Haryana	6833	0	136.7	83.6	1.4	195	0.24
	Rajasthan	14054	0	265.6	71.7	0.7	598	0.00
	Delhi	4854	0	77.1	65.6	-1.0	272	0.03
	UP	17623	0	310.3	92.4	-0.4	349	0.00
	Uttarakhand	2372	0	42.8	25.3	1.3	234	0.10
	HP	1890	0	33.5	27.5	0.6	222	0.00
	J&K(UT) & Ladakh(UT)	2811	600	56.1	50.9	-0.1	245	12.40
	Chandigarh	263	0	4.1	3.9	0.2	53	0.00
WR	Chhattisgarh	4391	0	94.2	43.8	1.0	290	0.00
	Gujarat	16944	0	353.5	116.7	-0.3	520	0.00
	MP	15206	0	294.2	186.0	-0.5	768	0.00
	Maharashtra	23829	0	486.7	154.4	-2.5	535	0.00
	Goa	492	0	10.3	10.3	-0.3	41	0.00
	DD	343	0	7.8	7.4	0.4	27	0.00
	DNH	832	0	19.4	19.5	-0.1	53	0.00
	AMNSIL	769	0	16.9	10.5	-0.1	241	0.00
SR	Andhra Pradesh	9432	0	184.6	75.6	0.6	478	0.00
	Telangana	13157	0	251.0	124.8	0.7	717	0.00
	Karnataka	12009	0	228.0	88.6	0.1	662	0.00
	Kerala	3683	0	76.1	49.7	1.1	252	0.00
	Tamil Nadu	13795	0	287.5	169.6	1.0	804	0.00
	Puducherry	372	0	7.5	7.7	-0.2	27	0.00
ER	Bihar	4865	0	91.2	83.3	1.5	351	0.00
	DVC	3058	0	69.2	-41.3	1.3	321	0.00
	Jharkhand	1442	0	26.4	19.8	-2.2	205	0.00
	Odisha	4009	0	75.3	-0.6	0.4	398	0.00
	West Bengal	6583	0	130.3	7.5	-1.7	248	0.00
	Sikkim	122	0	1.9	1.9	0.0	24	0.00
NER	Arunachal Pradesh	144	2	2.3	2.8	-0.6	26	0.01
	Assam	1450	15	24.5	19.8	0.2	139	0.80
	Manipur	237	3	2.7	3.5	-0.8	35	0.01
	Meghalaya	393	0	6.7	4.6	0.0	49	0.00
	Mizoram	121	2	1.7	1.6	-0.3	27	0.02
	Nagaland	138	1	2.2	2.0	0.0	26	0.01
	Tripura	220	2	4.6	3.2	-0.4	22	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.8	-12.7	-13.8
Day Peak (MW)	299.0	-640.6	-829.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	242.2	-240.9	131.5	-132.2	-0.6	0.1
Actual(MU)	243.0	-254.3	137.4	-133.2	0.3	-6.8
O/D/U/D(MU)	0.8	-13.4	5.9	-1.0	0.9	-6.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6056	12863	5872	2455	564	27809	43
State Sector	9000	13728	9557	4452	11	36747	57
Total	15056	26590	15429	6907	575	64556	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	588	1372	591	514	7	3072	79
Lignite	21	9	36	0	0	66	2
Hydro	101	55	88	36	12	292	7
Nuclear	15	24	40	0	0	79	2
Gas, Naptha & Diesel	23	31	11	0	29	95	2
RES (Wind, Solar, Biomass & Others)	88	63	145	5	0	302	8
Total	836	1554	912	554	49	3906	100

Share of RES in total generation (%)	10.58	4.05	15.94	0.84	0.35	7.72
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.36	9.14	30.02	7.30	25.56	17.22

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.044

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: 23-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	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	883	0.0	12.5	-12.5
4	765 kV	SASARAM-FATEHPUR	1	0	303	0.0	4.6	-4.6
5	765 kV	GAYA-BALIA	1	0	536	0.0	8.4	-8.4
6	400 kV	PUSAULI-VARANASI	1	0	194	0.0	2.5	-2.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	261	0.0	3.6	-3.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	738	0.0	9.1	-9.1
9	400 kV	PATNA-BALIA	4	0	1069	0.0	18.5	-18.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	417	0.0	6.7	-6.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	345	0.0	5.8	-5.8
12	400 kV	BIHARSHARIFF-VARANASI	2	19	269	0.0	2.7	-2.7
13	220 kV	PUSAULI-SAHUPURI	1	71	49	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	0.4	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	0.4	80.3	-79.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	747	99	7.3	0.0	7.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	491	403	2.4	0.0	2.4
3	765 kV	JHARSUGUDA-DURG	2	30	247	0.0	3.3	-3.3
4	400 kV	JHARSUGUDA-RAIGARH	4	89	388	0.0	4.1	-4.1
5	400 kV	RANCHI-SIPAT	2	203	110	1.8	0.0	1.8
6	220 kV	BUDHIPADAR-RAIGARH	1	3	125	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	130	0	1.5	0.0	1.5
					ER-WR	13.1	9.3	3.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	537	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	45.0	-45.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2559	0.0	47.9	-47.9
4	400 kV	TALCHER-I/C	2	0	638	0.0	11.3	-11.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	105.2	-105.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	277	82	2.5	0.0	2.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	450	84	4.7	0.0	4.7
3	220 kV	ALIPURDUAR-SALAKATI	2	79	30	0.7	0.0	0.7
					ER-NER	7.9	0.0	7.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	483	0	8.8	0.0	8.8
					NER-NR	8.8	0.0	8.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1496	0.0	49.0	-49.0
2	HVDC	VINDHYACHAL B/B	-	240	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1738	0.0	43.5	-43.5
4	765 kV	GWALIOR-AGRA	2	0	2810	0.0	39.4	-39.4
5	765 kV	PHAGI-GWALIOR	2	0	1221	0.0	19.7	-19.7
6	765 kV	JABALPUR-ORAI	2	0	1129	0.0	34.1	-34.1
7	765 kV	GWALIOR-ORAI	1	707	0	13.6	0.0	13.6
8	765 kV	SATNA-ORAI	1	0	1487	0.0	28.7	-28.7
9	765 kV	CHITORGARH-BANASKANTHA	2	487	697	4.4	2.0	2.5
10	400 kV	ZERDA-KANKROLI	1	220	91	2.4	0.0	2.4
11	400 kV	ZERDA -BHINMAL	1	362	298	0.2	0.0	0.2
12	400 kV	VINDHYACHAL -RIHAND	1	492	0	11.3	0.0	11.3
13	400 kV	RAPP-SHUJALPUR	2	182	525	0.6	3.7	-3.1
14	220 kV	BHANPURA-RANPUR	1	43	146	0.0	0.3	-0.3
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
16	220 kV	MEHGAON-AURAIYA	1	143	0	1.3	1.8	-0.5
17	220 kV	MALANPUR-AURAIYA	1	95	14	0.9	0.2	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	40.7	223.1	-182.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	202	1016	0.0	10.0	-10.0
2	HVDC	RAIGARH-PUGALUR	2	144	992	0.0	8.6	-8.6
3	765 kV	SOLAPUR-RAICHUR	2	644	1928	0.0	21.1	-21.1
4	765 kV	WARDHA-NIZAMABAD	2	0	3015	0.0	49.7	-49.7
5	400 kV	KOLHAPUR-KUDGI	2	1475	0	21.2	0.0	21.2
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	0.8	0.0	0.8
					WR-SR	22.0	89.3	-67.3

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 MANGDECHU HEP 4*180MW)	118	0	113	2.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	119	0	102	2.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	15	0	-17	-0.4
	NER	132KV-GEYLEGPHU - SALAKATI	28	10	16	0.4
	NER	132kV Motanga-Rangia	19	1	8	0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-81	0	-72	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-300	-208	-275	-6.6
	ER	132KV-BIHAR - NEPAL	-260	-60	-185	-4.4
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-729	-356	-500	-12.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	50	0	-37	-0.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	50	0	-37	-0.9