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: 21st Jan 2022

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 20.01.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-जनवरी-2022 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 20th January 2022, 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:** **21-Jan-2022**

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)	55225	54176	41577	20912	2592	174482
Peak Shortage (MW)	747	0	0	183	0	930
Energy Met (MU)	1081	1246	995	421	46	3789
Hydro Gen (MU)	94	33	102	22	10	261
Wind Gen (MU)	10	86	25	-	-	121
Solar Gen (MU)*	63.41	43.12	110.45	4.84	0.20	222
Energy Shortage (MU)	6.86	0.00	0.00	3.86	0.00	10.72
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55625	62028	49838	20998	2676	188388
Time Of Maximum Demand Met (From NLDC SCADA)	18:56	10:27	10:30	18:21	17:28	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	0.034	0.00	0.12	3.77	3.89	77.91	18.20

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	6772	0	129.3	63.4	-1.1	123	1.40
	Haryana	6561	0	125.8	68.9	0.0	148	0.00
	Rajasthan	14874	0	269.2	81.0	1.4	550	0.35
	Delhi	4788	0	77.7	66.1	-0.7	274	0.00
	UP	19607	0	334.0	110.1	-1.2	393	0.00
	Uttarakhand	2356	0	43.8	33.5	1.3	322	0.46
	HP	1890	0	35.0	27.1	0.2	348	0.00
	J&K(UT) & Ladakh(UT)	2856	250	62.0	57.1	0.2	147	4.65
	Chandigarh	270	0	4.5	4.4	0.0	34	0.00
WR	Chhattisgarh	3926	0	82.9	31.9	-0.3	242	0.00
	Gujarat	17586	0	363.1	179.3	2.0	558	0.00
	MP	13306	0	249.7	144.8	-2.5	438	0.00
	Maharashtra	25067	0	496.2	150.6	-4.1	501	0.00
	Goa	579	0	11.9	11.2	0.4	49	0.00
	DD	325	0	7.3	7.1	0.2	49	0.00
	DNH	826	0	18.4	18.3	0.1	73	0.00
	AMNSIL	755	0	16.6	9.7	0.4	274	0.00
SR	Andhra Pradesh	9306	0	176.5	72.0	3.1	907	0.00
	Telangana	10958	0	203.1	100.9	1.4	681	0.00
	Karnataka	13112	0	233.1	78.6	0.2	734	0.00
	Kerala	3864	0	77.2	56.2	-0.3	343	0.00
	Tamil Nadu	14305	0	297.9	175.8	0.7	829	0.00
	Puducherry	368	0	7.4	7.5	-0.1	42	0.00
ER	Bihar	5342	0	95.7	85.1	-0.9	423	0.10
	DVC	3358	0	69.2	-48.6	-1.1	490	2.08
	Jharkhand	1711	0	30.9	22.9	-0.6	216	1.68
	Odisha	5593	0	101.3	48.3	-1.5	495	0.00
	West Bengal	6466	0	122.0	6.6	-0.1	504	0.00
	Sikkim	119	0	1.9	1.9	0.0	57	0.00
NER	Arunachal Pradesh	152	0	2.4	2.5	-0.3	32	0.00
	Assam	1421	0	25.0	21.2	0.2	82	0.00
	Manipur	249	0	3.4	3.5	-0.1	23	0.00
	Meghalaya	383	0	7.4	5.8	0.2	49	0.00
	Mizoram	141	0	1.8	1.6	-0.4	16	0.00
	Nagaland	149	0	2.3	2.1	0.1	22	0.00
	Tripura	221	0	3.8	1.8	-0.2	24	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.2	-10.3	-19.3
Day Peak (MW)	-265.0	-610.0	-845.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	244.9	-201.1	92.4	-141.4	5.2	0.0
Actual(MU)	232.4	-209.0	109.7	-144.2	5.4	-5.8
O/D/U/D(MU)	-12.5	-7.9	17.2	-2.9	0.3	-5.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6951	14178	5652	956	639	28375	41
State Sector	8955	17351	10503	3908	11	40727	59
Total	15906	31528	16155	4864	650	69102	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	614	1261	523	578	9	2984	77
Lignite	19	12	50	0	0	81	2
Hydro	94	33	102	22	10	261	7
Nuclear	28	21	67	0	0	117	3
Gas, Naptha & Diesel	15	10	8	0	27	60	2
RES (Wind, Solar, Biomass & Others)	101	130	149	5	0	385	10
Total	871	1467	899	605	46	3888	100

Share of RES in total generation (%)	11.63	8.88	16.54	0.80	0.44	9.91
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.69	12.55	35.40	4.47	21.58	19.63

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.059

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: 21-Jan-2022

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	-	4	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	54	825	0.0	10.2	-10.2
4	765 kV	SASARAM-FATEHPUR	1	0	556	0.0	9.2	-9.2
5	765 kV	GAYA-BALIA	1	0	581	0.0	10.0	-10.0
6	400 kV	PUSAULI-VARANASI	1	19	127	0.0	1.2	-1.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	153	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	889	0.0	10.4	-10.4
9	400 kV	PATNA-BALIA	4	0	1219	0.0	20.2	-20.2
10	400 kV	BIHARSHARIFF-BALIA	2	0	308	0.0	5.0	-5.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	554	0.0	7.8	-7.8
12	400 kV	BIHARSHARIFF-VARANASI	2	0	362	0.0	4.5	-4.5
13	220 kV	PUSAULI-SAHUPURI	1	0	149	0.0	1.9	-1.9
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	25	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	81.9	-81.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	844	506	3.6	0.0	3.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	354	472	1.0	0.0	1.0
3	765 kV	JHARSUGUDA-DURG	2	0	351	0.0	6.0	-6.0
4	400 kV	JHARSUGUDA-RAIGARH	4	108	419	0.0	3.9	-3.9
5	400 kV	RANCHI-SIPAT	2	83	201	0.0	0.0	0.0
6	220 kV	BUDHIPADAR-RAIGARH	1	14	143	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	107	0	1.2	0.0	1.2
					ER-WR	5.8	12.0	-6.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	448	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1645	0.0	38.0	-38.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2960	0.0	57.0	-57.0
4	400 kV	TALCHER-I/C	2	674	561	4.7	0.0	4.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	105.0	-105.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	244	48	1.6	0.0	1.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	346	1	3.5	0.0	3.5
3	220 kV	ALIPURDUAR-SALAKATI	2	51	6	0.6	0.0	0.6
					ER-NER	5.6	0.0	5.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	473	0	11.7	0.0	11.7
					NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3009	0.0	45.7	-45.7
2	HVDC	VINDHYACHAL B/B	-	338	344	3.8	4.8	-1.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	253	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	2102	0.0	34.1	-34.1
5	765 kV	GWALIOR-PHAGI	2	0	2204	0.0	32.5	-32.5
6	765 kV	JABALPUR-ORAI	2	0	1069	0.0	30.7	-30.7
7	765 kV	GWALIOR-ORAI	1	1055	0	16.0	0.0	16.0
8	765 kV	SATNA-ORAI	1	0	1094	0.0	20.5	-20.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1281	0	16.2	0.0	16.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2281	0.0	41.2	-41.2
11	400 kV	ZERDA-KANKROLI	1	232	0	3.4	0.0	3.4
12	400 kV	ZERDA -BHINMAL	1	251	96	1.7	0.0	1.7
13	400 kV	VINDHYACHAL -RIHAND	1	647	0	10.9	0.0	10.9
14	400 kV	RAPP-SHUJALPUR	2	131	456	0.0	3.3	-3.3
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0
17	220 kV	MEHGAON-AURAIYA	1	99	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	61	0	1.3	0.0	1.3
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	53.8	219.9	-166.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	319	0.0	7.4	-7.4
2	HVDC	RAIGARH-PUGALUR	2	581	0	13.9	0.0	13.9
3	765 kV	SOLAPUR-RAICHUR	2	961	2286	0.0	24.3	-24.3
4	765 kV	WARDHA-NIZAMABAD	2	0	3075	0.0	46.8	-46.8
5	400 kV	KOLHAPUR-KUDGI	2	1272	0	14.3	0.0	14.3
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	76	1.4	0.0	1.4
					WR-SR	29.5	78.5	-48.9

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	164	0	15	0.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	0	0	0	-1.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.5
	NER	132kV GELEPHU-SALAKATI	15	3	8	0.2
	NER	132kV MOTANGA-RANGIA	12	1	2	0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-79	0	-70	-1.7
	ER	NEPAL IMPORT (FROM BIHAR)	-208	0	-132	-3.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-323	0	-229	-5.5
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-740	-643	-714	-17.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-105	0	-89	-2.1