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: 23nd 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 22.01.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22st 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:** **23-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)	51937	52984	42741	20418	2686	170766
Peak Shortage (MW)	250	0	0	196	0	446
Energy Met (MU)	996	1219	1016	408	46	3686
Hydro Gen (MU)	93	26	86	24	10	237
Wind Gen (MU)	26	165	52	-	-	243
Solar Gen (MU)*	22.50	34.64	110.33	4.84	0.30	173
Energy Shortage (MU)	4.65	0.00	0.00	3.30	0.00	7.95
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52700	60441	51533	20680	2723	181585
Time Of Maximum Demand Met (From NLDC SCADA)	18:35	10:14	09:40	19:48	18:01	09:38

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	0.036	0.00	0.07	7.16	7.23	75.62	17.15

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	6784	0	122.2	54.4	-3.0	50	0.00
	Haryana	6272	0	115.3	62.1	0.0	642	0.00
	Rajasthan	13035	0	231.7	44.4	-2.8	397	0.00
	Delhi	3912	0	67.6	55.4	0.0	317	0.00
	UP	18530	0	318.5	95.9	-1.4	363	0.00
	Uttarakhand	2341	0	43.5	34.3	0.3	174	0.00
	HP	1919	0	35.3	27.4	-0.1	146	0.00
	J&K(UT) & Ladakh(UT)	2687	250	58.1	55.5	-2.3	216	4.65
	Chandigarh	235	0	4.1	4.3	-0.2	37	0.00
WR	Chhattisgarh	3952	0	84.7	32.6	0.1	212	0.00
	Gujarat	16621	0	347.0	151.1	-0.2	665	0.00
	MP	13188	0	238.3	134.4	-5.5	449	0.00
	Maharashtra	24843	0	492.0	141.0	-4.4	710	0.00
	Goa	573	0	11.9	11.2	0.2	37	0.00
	DD	335	0	7.5	7.2	0.3	38	0.00
	DNH	846	0	19.5	19.3	0.2	63	0.00
	AMNSIL	872	0	18.3	10.1	0.4	256	0.00
SR	Andhra Pradesh	9816	0	188.0	71.6	0.9	558	0.00
	Telangana	11308	0	204.8	100.5	-0.4	672	0.00
	Karnataka	13088	0	231.9	80.5	-0.3	832	0.00
	Kerala	3739	0	76.5	57.0	-0.4	207	0.00
	Tamil Nadu	14862	0	307.9	186.6	-1.3	404	0.00
	Puducherry	366	0	7.5	7.7	-0.2	28	0.00
ER	Bihar	4887	0	86.8	79.5	-1.6	380	0.28
	DVC	3231	244	70.1	-46.7	1.3	315	2.25
	Jharkhand	1731	175	31.5	23.1	-0.7	156	0.77
	Odisha	5398	0	99.4	48.3	0.4	370	0.00
	West Bengal	6231	0	118.3	3.2	-0.8	312	0.00
	Sikkim	116	0	1.9	2.0	-0.1	53	0.00
NER	Arunachal Pradesh	154	0	2.4	2.5	-0.2	27	0.00
	Assam	1462	0	25.1	20.8	0.0	180	0.00
	Manipur	245	0	3.4	3.6	-0.2	43	0.00
	Meghalaya	413	0	7.5	5.7	0.2	45	0.00
	Mizoram	144	0	1.9	1.7	-0.4	13	0.00
	Nagaland	158	0	2.6	2.2	0.3	13	0.00
	Tripura	216	0	3.6	2.2	-0.3	33	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.6	-8.3	-18.6
Day Peak (MW)	-305.0	-548.0	-842.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	191.5	-194.3	134.7	-137.3	5.4	0.0
Actual(MU)	192.3	-205.0	152.3	-150.2	5.8	-4.7
O/D/U/D(MU)	0.9	-10.7	17.5	-12.9	0.5	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6326	14378	5902	956	639	28200	41
State Sector	7005	18271	10978	3620	11	39885	59
Total	13331	32648	16880	4576	650	68085	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	606	1163	479	564	8	2820	75
Lignite	20	12	47	0	0	80	2
Hydro	93	26	86	24	10	237	6
Nuclear	28	21	61	0	0	110	3
Gas, Naptha & Diesel	15	11	9	0	28	62	2
RES (Wind, Solar, Biomass & Others)	74	201	191	5	0	472	12
Total	836	1434	874	593	45	3781	100

Share of RES in total generation (%)	8.88	14.04	21.88	0.82	0.66	12.48
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.35	17.32	38.66	4.79	21.64	21.67

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.071

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-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	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	0	803	0.0	8.7	-8.7
4	765 kV	SASARAM-FATEHPUR	1	0	543	0.0	8.2	-8.2
5	765 kV	GAYA-BALIA	1	0	516	0.0	8.1	-8.1
6	400 kV	PUSAULI-VARANASI	1	12	121	0.0	1.4	-1.4
7	400 kV	PUSAULI -ALLAHABAD	1	35	133	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	778	0.0	9.5	-9.5
9	400 kV	PATNA-BALIA	4	0	1002	0.0	16.7	-16.7
10	400 kV	BIHARSHARIFF-BALIA	2	86	215	0.0	3.5	-3.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	490	0.0	7.7	-7.7
12	400 kV	BIHARSHARIFF-VARANASI	2	0	387	0.0	5.6	-5.6
13	220 kV	PUSAULI-SAHUPURI	1	2	0	0.0	0.0	0.0
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.1	0.0	0.1
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	0.6	70.6	-70.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	855	379	5.4	0.0	5.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	281	772	0.0	3.8	-3.8
3	765 kV	JHARSUGUDA-DURG	2	0	531	0.0	7.7	-7.7
4	400 kV	JHARSUGUDA-RAIGARH	4	100	361	0.0	3.4	-3.4
5	400 kV	RANCHI-SIPAT	2	75	250	0.0	1.5	-1.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	123	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	107	0	1.7	0.0	1.7
					ER-WR	7.1	17.8	-10.6
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	2376	0.0	47.9	-47.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	3349	0.0	57.9	-57.9
4	400 kV	TALCHER-I/C	2	359	989	0.0	7.3	-7.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	115.8	-115.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	203	23	1.5	0.0	1.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	302	0	3.4	0.0	3.4
3	220 kV	ALIPURDUAR-SALAKATI	2	47	3	0.6	0.0	0.6
					ER-NER	5.5	0.0	5.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	489	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	1515	0.0	32.7	-32.7
2	HVDC	VINDHYACHAL B/B	-	185	0	4.8	0.0	4.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	252	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	2143	0.0	30.7	-30.7
5	765 kV	GWALIOR-PHAGI	2	0	1866	0.0	22.3	-22.3
6	765 kV	JABALPUR-ORAI	2	0	930	0.0	23.7	-23.7
7	765 kV	GWALIOR-ORAI	1	907	0	13.1	0.0	13.1
8	765 kV	SATNA-ORAI	1	0	1101	0.0	18.9	-18.9
9	765 kV	BANASKANTHA-CHITORGARH	2	966	500	5.9	0.0	5.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2557	0.0	40.1	-40.1
11	400 kV	ZERDA-KANKROLI	1	208	70	2.5	0.0	2.5
12	400 kV	ZERDA -BHINMAL	1	266	182	1.3	0.0	1.3
13	400 kV	VINDHYACHAL -RIHAND	1	486	0	10.4	0.0	10.4
14	400 kV	RAPP-SHUJALPUR	2	278	369	1.4	2.2	-0.8
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
17	220 kV	MEHGAON-AURAIYA	1	95	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	65	7	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	41.2	177.7	-136.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	304	0	7.4	0.0	7.4
2	HVDC	RAIGARH-PUGALUR	2	0	3005	0.0	35.7	-35.7
3	765 kV	SOLAPUR-RAICHUR	2	897	2546	2.3	23.7	-21.5
4	765 kV	WARDHA-NIZAMABAD	2	0	3122	0.0	45.7	-45.7
5	400 kV	KOLHAPUR-KUDGI	2	1167	0	14.9	0.0	14.9
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	82	1.5	0.0	1.5
					WR-SR	25.9	105.1	-79.2

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)	136	0	24	0.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	0	0	0	0.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0.0
	NER	132kV GELEPHU-SALAKATI	-10	-3	-8	-0.2
	NER	132kV MOTANGA-RANGIA	-4	0	0	0.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-79	0	-69	-1.7
	ER	NEPAL IMPORT (FROM BIHAR)	-144	0	-44	-1.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-325	-14	-234	-5.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-729	0	-692	-16.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-113	0	-83	-2.0