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: 27th 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 26.01.2022.

महोदय/Dear Sir,

sss

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-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 26th 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:** **27-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)	49791	49942	39610	19423	2517	161283
Peak Shortage (MW)	250	0	0	294	0	544
Energy Met (MU)	1019	1185	978	391	45	3619
Hydro Gen (MU)	95	32	93	23	9	252
Wind Gen (MU)	1	42	17	-	-	60
Solar Gen (MU)*	78.59	44.63	88.77	4.74	0.28	217
Energy Shortage (MU)	4.70	0.00	0.00	3.66	0.00	8.36
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53506	58507	49946	19884	2573	181462
Time Of Maximum Demand Met (From NLDC SCADA)	09:28	10:33	10:26	18:37	18:00	09:57

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	0.24	6.91	7.15	80.28	12.57

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	6222	0	114.7	45.8	-1.9	130	0.00
	Haryana	5268	0	105.8	54.2	0.1	231	0.00
	Rajasthan	14742	0	260.5	62.4	0.0	320	0.00
	Delhi	4187	0	69.2	57.1	-0.4	274	0.05
	UP	17873	0	332.5	99.5	-2.2	512	0.00
	Uttarakhand	1989	0	38.0	26.8	0.7	90	0.00
	HP	1705	0	31.1	22.4	-0.4	194	0.00
	J&K(UT) & Ladakh(UT)	3274	150	63.2	57.4	0.1	513	4.65
	Chandigarh	217	0	3.8	3.9	-0.2	28	0.00
WR	Chhattisgarh	3942	0	85.5	30.3	0.1	232	0.00
	Gujarat	15976	0	333.4	171.9	-1.6	512	0.00
	MP	14280	0	268.7	160.3	0.1	604	0.00
	Maharashtra	22270	0	448.5	137.2	-5.1	488	0.00
	Goa	481	0	9.8	9.4	0.1	46	0.00
	DD	305	0	5.2	5.0	0.2	23	0.00
	DNH	798	0	16.3	16.2	0.1	63	0.00
	AMNSIL	829	0	17.8	10.6	0.0	279	0.00
SR	Andhra Pradesh	9826	0	185.4	81.3	0.6	482	0.00
	Telangana	11160	0	201.6	80.3	-0.6	647	0.00
	Karnataka	12482	0	224.3	89.1	-1.6	703	0.00
	Kerala	3447	0	69.4	46.2	-0.2	303	0.00
	Tamil Nadu	13692	0	290.4	176.0	-1.4	550	0.00
	Puducherry	339	0	7.0	7.1	-0.1	28	0.00
ER	Bihar	4995	0	85.9	77.0	0.1	225	0.11
	DVC	3414	0	69.0	-48.0	-0.6	268	1.91
	Jharkhand	1599	0	29.8	25.3	-1.0	216	1.64
	Odisha	5121	0	92.4	36.4	-1.0	338	0.00
	West Bengal	5712	0	112.4	-6.6	-0.4	356	0.00
	Sikkim	100	0	1.5	1.9	-0.4	13	0.00
NER	Arunachal Pradesh	157	0	2.6	2.5	-0.1	49	0.00
	Assam	1372	0	24.0	17.8	-0.1	90	0.00
	Manipur	245	0	3.5	3.6	-0.1	26	0.00
	Meghalaya	383	0	7.4	6.2	0.1	39	0.00
	Mizoram	135	0	1.9	1.7	-0.3	17	0.00
	Nagaland	147	0	2.5	2.1	0.2	28	0.00
	Tripura	215	0	3.5	1.8	-0.2	34	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.3	-10.3	-19.9
Day Peak (MW)	-292.0	-683.5	-866.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	167.0	-115.7	115.1	-170.1	3.7	0.0
Actual(MU)	149.7	-112.7	132.8	-176.1	3.7	-2.6
O/D/U/D(MU)	-17.3	3.0	17.7	-6.0	0.0	-2.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5283	17118	5772	296	639	29107	44
State Sector	7060	17506	9838	2960	11	37375	56
Total	12343	34623	15610	3256	650	66482	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	620	1146	515	582	8	2871	77
Lignite	30	14	37	0	0	81	2
Hydro	95	32	93	23	9	252	7
Nuclear	28	21	70	0	0	119	3
Gas, Naptha & Diesel	15	11	9	0	29	63	2
RES (Wind, Solar, Biomass & Others)	105	88	134	5	0	333	9
Total	892	1313	858	610	46	3720	100

Share of RES in total generation (%)	11.80	6.73	15.63	0.78	0.60	8.95
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.57	10.80	34.58	4.57	19.98	18.92

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.041

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: 27-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	988	0.0	13.1	-13.1
4	765 kV	SASARAM-FATEHPUR	1	0	503	0.0	8.7	-8.7
5	765 kV	GAYA-BALIA	1	0	546	0.0	9.1	-9.1
6	400 kV	PUSAULI-VARANASI	1	0	128	0.0	1.6	-1.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	178	0.0	2.0	-2.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	859	0.0	10.3	-10.3
9	400 kV	PATNA-BALIA	4	0	1425	0.0	20.8	-20.8
10	400 kV	BIHARSHARIFF-BALIA	2	159	351	0.0	4.7	-4.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	539	0.0	8.1	-8.1
12	400 kV	BIHARSHARIFF-VARANASI	2	0	454	0.0	6.6	-6.6
13	220 kV	SAHUPURI-KARAMNASA	1	0	123	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	0.0	0.0	0.0
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	0.0	86.9	-86.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	228	787	0.0	6.7	-6.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	27	835	0.0	8.4	-8.4
3	765 kV	JHARSUGUDA-DURG	2	0	378	0.0	5.5	-5.5
4	400 kV	JHARSUGUDA-RAIGARH	4	35	442	0.0	5.5	-5.5
5	400 kV	RANCHI-SIPAT	2	28	245	0.0	1.8	-1.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	145	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	99	0	1.3	0.0	1.3
					ER-WR	1.3	29.8	-28.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	447	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1987	0.0	43.1	-43.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2813	0.0	57.2	-57.2
4	400 kV	TALCHER-I/C	2	427	640	0.0	1.5	-1.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	110.2	-110.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	297	15	2.3	0.0	2.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	411	23	4.6	0.0	4.6
3	220 kV	ALIPURDUAR-SALAKATI	2	68	0	0.8	0.0	0.8
					ER-NER	7.7	0.0	7.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	492	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	1504	0.0	25.9	-25.9
2	HVDC	VINDHYACHAL B/B	-	448	0	11.8	0.0	11.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	255	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1888	0.0	26.8	-26.8
5	765 kV	GWALIOR-PHAGI	2	0	1696	0.0	27.6	-27.6
6	765 kV	JABALPUR-ORAI	2	0	871	0.0	22.0	-22.0
7	765 kV	GWALIOR-ORAI	1	957	0	16.3	0.0	16.3
8	765 kV	SATNA-ORAI	1	0	977	0.0	17.9	-17.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1652	0	29.0	0.0	29.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	1728	0.0	29.0	-29.0
11	400 kV	ZERDA-KANKROLI	1	298	0	5.1	0.0	5.1
12	400 kV	ZERDA -BHINMAL	1	386	37	5.3	0.0	5.3
13	400 kV	VINDHYACHAL -RIHAND	1	486	0	11.0	0.0	11.0
14	400 kV	RAPP-SHUJALPUR	2	361	349	1.8	2.0	-0.3
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
17	220 kV	MEHGAON-AURAIYA	1	132	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	89	0	1.9	0.0	1.9
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	83.1	158.3	-75.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	297	0	7.3	0.0	7.3
2	HVDC	RAIGARH-PUGALUR	2	0	2501	0.0	24.9	-24.9
3	765 kV	SOLAPUR-RAICHUR	2	380	1795	0.1	19.6	-19.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2453	0.0	42.5	-42.5
5	400 kV	KOLHAPUR-KUDGI	2	948	0	12.7	0.0	12.7
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	71	1.3	0.0	1.3
					WR-SR	21.3	87.0	-65.7

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)	141	0	11	0.3
	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	-14	-8	-8	-0.2
	NER	132kV MOTANGA-RANGIA	-14	-3	-3	-0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-80	0	-68	-1.6
	ER	NEPAL IMPORT (FROM BIHAR)	-243	0	-97	-2.3
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-361	-5	-265	-6.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-750	-693	-730	-17.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-116	0	-98	-2.3