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: 25th 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 24.01.2022.

महोदय/Dear Sir,

sss

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-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 24th 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:** **25-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)	54427	55317	42968	20138	2689	175539
Peak Shortage (MW)	250	0	0	334	0	584
Energy Met (MU)	1030	1237	1022	398	47	3734
Hydro Gen (MU)	96	36	99	23	9	263
Wind Gen (MU)	1	14	29	-	-	44
Solar Gen (MU)*	72.28	40.80	106.65	4.25	0.30	224
Energy Shortage (MU)	4.75	0.00	0.00	6.09	0.00	10.84
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54432	61220	51812	20314	2717	187245
Time Of Maximum Demand Met (From NLDC SCADA)	18:38	10:50	09:43	18:38	18:03	10:50

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	0.033	0.00	0.74	4.29	5.03	76.03	18.93

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	6960	0	126.1	47.3	-0.9	117	0.10
	Haryana	6351	0	117.9	59.9	0.6	286	0.00
	Rajasthan	14366	0	254.2	66.7	-1.8	181	0.00
	Delhi	4828	0	78.1	66.1	-0.4	343	0.00
	UP	18863	0	309.6	80.0	-1.9	961	0.00
	Uttarakhand	2299	0	43.8	31.9	1.2	202	0.00
	HP	1879	0	34.3	25.7	-0.4	125	0.00
	J&K(UT) & Ladakh(UT)	2910	250	61.4	57.1	-1.1	161	4.65
	Chandigarh	270	0	4.5	4.3	0.2	32	0.00
WR	Chhattisgarh	3908	0	84.5	32.0	0.0	286	0.00
	Gujarat	16999	0	353.1	207.6	2.8	733	0.00
	MP	13559	0	254.9	153.4	-0.6	734	0.00
	Maharashtra	24906	0	487.6	143.8	-1.0	867	0.00
	Goa	562	0	11.4	10.7	0.2	39	0.00
	DD	321	0	7.2	7.0	0.2	25	0.00
	DNH	835	0	19.3	19.1	0.2	40	0.00
	AMNSIL	864	0	19.3	9.8	0.1	315	0.00
SR	Andhra Pradesh	10025	0	188.7	76.4	1.5	529	0.00
	Telangana	11349	0	206.4	86.0	-0.6	626	0.00
	Karnataka	13581	0	244.6	89.8	0.1	837	0.00
	Kerala	3667	0	72.9	51.0	-0.6	165	0.00
	Tamil Nadu	14406	0	301.9	179.7	0.3	564	0.00
	Puducherry	372	0	7.4	7.6	-0.1	50	0.00
ER	Bihar	5057	0	83.4	77.6	-0.7	637	2.10
	DVC	3292	0	69.2	-44.7	0.0	401	1.88
	Jharkhand	1668	0	30.5	20.7	0.4	189	2.11
	Odisha	5341	0	94.5	31.9	-0.4	409	0.00
	West Bengal	6662	0	118.3	0.3	0.6	287	0.00
	Sikkim	121	0	1.8	1.9	-0.1	47	0.00
NER	Arunachal Pradesh	155	0	2.7	2.5	0.0	29	0.00
	Assam	1473	0	25.5	19.7	0.3	174	0.00
	Manipur	252	0	3.6	3.7	-0.1	36	0.00
	Meghalaya	402	0	7.5	5.9	0.2	42	0.00
	Mizoram	131	0	1.9	1.7	-0.1	20	0.00
	Nagaland	157	0	2.3	2.1	0.0	26	0.00
	Tripura	218	0	3.4	1.9	-0.2	28	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.3	-9.8	-19.3
Day Peak (MW)	-294.0	-654.8	-844.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	175.5	-119.6	112.9	-173.1	4.3	0.0
Actual(MU)	149.8	-102.2	116.6	-172.5	3.6	-4.7
O/D/U/D(MU)	-25.8	17.4	3.7	0.6	-0.7	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5933	15228	5612	956	639	28367	42
State Sector	7510	18174	10828	3290	11	39813	58
Total	13443	33401	16440	4246	650	68180	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	635	1218	525	580	9	2967	77
Lignite	28	14	41	0	0	82	2
Hydro	96	36	99	23	9	263	7
Nuclear	28	22	69	0	0	119	3
Gas, Naptha & Diesel	15	10	8	0	29	62	2
RES (Wind, Solar, Biomass & Others)	99	57	175	4	0	335	9
Total	901	1356	918	607	48	3829	100

Share of RES in total generation (%)	10.95	4.18	19.08	0.70	0.63	8.75
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.79	8.45	37.40	4.48	19.87	18.74

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.063

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: 25-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	867	0.0	11.6	-11.6
4	765 kV	SASARAM-FATEHPUR	1	0	585	0.0	9.3	-9.3
5	765 kV	GAYA-BALIA	1	0	525	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	1	0	126	0.0	2.2	-2.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	140	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	784	0.0	9.3	-9.3
9	400 kV	PATNA-BALIA	4	0	1017	0.0	17.9	-17.9
10	400 kV	BIHARSHARIFF-BALIA	2	49	266	0.0	4.0	-4.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	479	0.0	7.5	-7.5
12	400 kV	BIHARSHARIFF-VARANASI	2	0	409	0.0	6.2	-6.2
13	220 kV	KARAMNASA-SAHUPURI*	1	2	111	0.0	0.3	-0.3
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3
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	0.3	78.2	-77.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	323	793	0.0	7.8	-7.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	260	735	0.0	5.9	-5.9
3	765 kV	JHARSUGUDA-DURG	2	0	509	0.0	8.3	-8.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	488	0.0	6.2	-6.2
5	400 kV	RANCHI-SIPAT	2	48	257	0.0	1.9	-1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	154	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	81	13	0.9	0.0	0.9
					ER-WR	0.9	32.4	-31.5
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	1983	0.0	43.3	-43.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	3241	0.0	56.5	-56.5
4	400 kV	TALCHER-I/C	2	563	639	0.0	2.8	-2.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	109.8	-109.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	276	57	1.8	0.0	1.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	362	2	3.8	0.0	3.8
3	220 kV	ALIPURDUAR-SALAKATI	2	61	5	0.7	0.0	0.7
					ER-NER	6.3	0.0	6.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	491	0	10.1	0.0	10.1
					NER-NR	10.1	0.0	10.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1510	0.0	31.8	-31.8
2	HVDC	VINDHYACHAL B/B	-	185	0	4.9	0.0	4.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	255	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1883	0.0	24.2	-24.2
5	765 kV	GWALIOR-PHAGI	2	0	1903	0.0	30.3	-30.3
6	765 kV	JABALPUR-ORAI	2	0	911	0.0	24.6	-24.6
7	765 kV	GWALIOR-ORAI	1	1069	0	16.5	0.0	16.5
8	765 kV	SATNA-ORAI	1	0	996	0.0	18.9	-18.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1897	0	34.4	0.0	34.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2070	0.0	30.5	-30.5
11	400 kV	ZERDA-KANKROLI	1	344	0	6.3	0.0	6.3
12	400 kV	ZERDA -BHINMAL	1	421	0	6.6	0.0	6.6
13	400 kV	VINDHYACHAL -RIHAND	1	485	0	10.8	0.0	10.8
14	400 kV	RAPP-SHUJALPUR	2	294	344	1.8	1.8	0.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
17	220 kV	MEHGAON-AURAIYA	1	124	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	85	0	1.7	0.0	1.7
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	84.1	168.8	-84.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	293	309	7.3	0.0	7.3
2	HVDC	RAIGARH-PUGALUR	2	0	2002	0.0	20.4	-20.4
3	765 kV	SOLAPUR-RAICHUR	2	604	2073	0.8	16.1	-15.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2801	0.0	38.7	-38.7
5	400 kV	KOLHAPUR-KUDGI	2	1113	0	16.5	0.0	16.5
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	78	1.3	0.0	1.3
					WR-SR	25.9	75.2	-49.3

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)	143	0	21	0.5
	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	2	8	0.2
	NER	132kV MOTANGA-RANGIA	-16	0	-2	0.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-63	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-249	-49	-108	-2.6
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-329	0	-238	-5.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-734	-686	-724	-17.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-110	0	-82	-2.0

*220kV Pusauli- Sahupuri line LILOed at 220kV Karamnasa(Bihar) at 17:50 hrs of 24.01.2022.