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: 29th 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 28.01.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th 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:** **29-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)	54213	55677	42757	20576	2741	175964
Peak Shortage (MW)	670	0	0	387	0	1057
Energy Met (MU)	1075	1282	1018	413	47	3834
Hydro Gen (MU)	95	36	83	21	9	244
Wind Gen (MU)	3	70	79	-	-	152
Solar Gen (MU)*	82.52	47.50	121.06	4.76	0.36	256
Energy Shortage (MU)	6.03	0.00	0.00	5.49	0.00	11.52
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56706	63942	52236	20850	2767	191790
Time Of Maximum Demand Met (From NLDC SCADA)	10:41	11:30	09:24	18:44	18:43	10:22

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	0.19	6.43	6.62	77.63	15.75

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	7015	0	122.7	52.9	-1.4	126	0.88
	Haryana	6300	170	122.9	70.6	1.2	210	0.31
	Rajasthan	15527	0	275.9	74.4	2.2	431	0.00
	Delhi	4997	0	78.4	66.9	-1.0	287	0.00
	UP	19084	0	328.3	82.8	-0.7	364	0.00
	Uttarakhand	2468	0	44.9	33.2	1.3	287	0.19
	HP	1957	0	35.0	26.9	0.0	159	0.00
	J&K(UT) & Ladakh(UT)	2958	250	63.1	56.4	1.4	229	4.65
	Chandigarh	247	0	4.1	4.0	0.1	39	0.00
WR	Chhattisgarh	4108	0	88.9	36.1	0.8	216	0.00
	Gujarat	17382	0	359.1	177.8	4.5	1121	0.00
	MP	15149	0	284.6	177.9	-0.8	722	0.00
	Maharashtra	24933	0	492.9	143.5	-4.7	725	0.00
	Goa	585	0	11.6	11.0	0.4	78	0.00
	DD	340	0	7.6	7.3	0.3	29	0.00
	DNH	835	0	19.4	19.3	0.1	50	0.00
	AMNSIL	843	0	18.2	10.0	-1.0	296	0.00
SR	Andhra Pradesh	9679	0	186.8	68.0	-0.1	552	0.00
	Telangana	11580	0	208.9	72.3	-0.6	666	0.00
	Karnataka	13482	0	234.4	80.1	-1.7	1111	0.00
	Kerala	3772	0	74.6	50.9	-0.7	220	0.00
	Tamil Nadu	14541	0	305.5	169.3	-1.6	389	0.00
	Puducherry	377	0	7.7	7.8	-0.1	45	0.00
ER	Bihar	6418	0	90.4	78.1	0.3	389	0.82
	DVC	3479	0	70.3	-48.8	-1.1	609	2.08
	Jharkhand	1635	0	30.3	25.1	-1.0	213	2.58
	Odisha	5342	0	94.2	30.2	-1.5	558	0.00
	West Bengal	6635	0	125.4	7.0	-0.1	517	0.00
	Sikkim	119	0	1.9	2.2	-0.2	30	0.00
NER	Arunachal Pradesh	158	0	2.3	2.5	-0.3	35	0.00
	Assam	1488	0	25.0	19.4	-0.3	98	0.00
	Manipur	241	0	3.6	3.6	0.1	39	0.00
	Meghalaya	407	0	7.7	6.3	0.2	337	0.00
	Mizoram	145	0	1.9	1.8	-0.4	22	0.00
	Nagaland	148	0	2.6	2.1	0.4	27	0.00
	Tripura	231	0	3.6	1.8	-0.4	39	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.7	-11.5	-19.2
Day Peak (MW)	-255.0	-748.8	-849.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	191.5	-115.3	87.3	-168.4	4.9	0.0
Actual(MU)	182.0	-105.9	87.5	-170.7	4.2	-2.9
O/D/U/D(MU)	-9.5	9.4	0.2	-2.3	-0.7	-2.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6133	16258	7572	1196	639	31797	47
State Sector	8500	16701	8198	2960	11	36370	53
Total	14633	32958	15770	4156	650	68167	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	634	1207	529	591	9	2970	75
Lignite	27	15	40	0	0	82	2
Hydro	95	36	83	21	9	244	6
Nuclear	31	21	69	0	0	122	3
Gas, Naptha & Diesel	15	10	7	0	28	61	2
RES (Wind, Solar, Biomass & Others)	111	119	232	5	0	467	12
Total	913	1408	961	617	47	3946	100

Share of RES in total generation (%)	12.21	8.43	24.14	0.77	0.76	11.84
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.98	12.51	39.96	4.20	20.43	21.11

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.067

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: 29-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	997	0.0	13.4	-13.4
4	765 kV	SASARAM-FATEHPUR	1	0	603	0.0	9.1	-9.1
5	765 kV	GAYA-BALIA	1	0	583	0.0	8.7	-8.7
6	400 kV	PUSAULI-VARANASI	1	31	90	0.0	1.0	-1.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	132	0.0	1.7	-1.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	828	0.0	8.5	-8.5
9	400 kV	PATNA-BALIA	4	0	1242	0.0	20.6	-20.6
10	400 kV	BIHARSHARIFF-BALIA	2	53	256	0.0	3.9	-3.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	543	0.0	8.9	-8.9
12	400 kV	BIHARSHARIFF-VARANASI	2	0	426	0.0	6.7	-6.7
13	220 kV	SAHUPURI-KARAMNASA *	1	0	136	0.0	2.0	-2.0
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	84.4	-84.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	988	0.0	13.2	-13.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	267	809	0.0	5.7	-5.7
3	765 kV	JHARSUGUDA-DURG	2	0	438	0.0	5.7	-5.7
4	400 kV	JHARSUGUDA-RAIGARH	4	8	553	0.0	7.0	-7.0
5	400 kV	RANCHI-SIPAT	2	75	265	0.0	1.9	-1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	153	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	106	8	1.1	0.0	1.1
					ER-WR	1.1	36.0	-34.9
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	1985	0.0	44.8	-44.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2523	0.0	45.1	-45.1
4	400 kV	TALCHER-I/C	2	272	631	0.0	4.1	-4.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	99.9	-99.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	264	12	2.2	0.0	2.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	419	0	4.2	0.0	4.2
3	220 kV	ALIPURDUAR-SALAKATI	2	108	0	1.0	0.0	1.0
					ER-NER	7.4	0.0	7.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	493	0	11.8	0.0	11.8
					NER-NR	11.8	0.0	11.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2499	0.0	39.1	-39.1
2	HVDC	VINDHYACHAL B/B	-	447	0	7.9	0.0	7.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	256	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	2080	0.0	29.8	-29.8
5	765 kV	GWALIOR-PHAGI	2	0	2008	0.0	31.3	-31.3
6	765 kV	JABALPUR-ORAI	2	0	1033	0.0	27.0	-27.0
7	765 kV	GWALIOR-ORAI	1	929	0	17.6	0.0	17.6
8	765 kV	SATNA-ORAI	1	0	1029	0.0	19.3	-19.3
9	765 kV	BANASKANTHA-CHITORGARH	2	2039	0	29.1	0.0	29.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2173	0.0	33.4	-33.4
11	400 kV	ZERDA-KANKROLI	1	355	0	5.1	0.0	5.1
12	400 kV	ZERDA -BHINMAL	1	474	30	4.9	0.0	4.9
13	400 kV	VINDHYACHAL -RIHAND	1	488	0	11.1	0.0	11.1
14	400 kV	RAPP-SHUJALPUR	2	321	480	0.0	1.2	-1.2
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
17	220 kV	MEHGAON-AURAIYA	1	122	3	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	119	0	1.2	0.0	1.2
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	77.9	188.7	-110.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	331	316	3.3	3.9	-0.6
2	HVDC	RAIGARH-PUGALUR	2	0	1502	0.0	21.6	-21.6
3	765 kV	SOLAPUR-RAICHUR	2	1466	1717	0.1	0.0	0.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2345	0.0	30.7	-30.7
5	400 kV	KOLHAPUR-KUDGI	2	1323	0	21.9	0.0	21.9
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	1	75	1.1	0.0	1.1
					WR-SR	26.3	56.2	-29.9

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)	176	0	26	0.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	0	0	0	-2.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	37	0	-84	-2.0
	NER	132kV GELEPHU-SALAKATI	-11	-2	-5	-0.1
	NER	132kV MOTANGA-RANGIA	19	0	2	0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-79	0	-70	-1.7
	ER	NEPAL IMPORT (FROM BIHAR)	-348	0	-140	-3.4
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-322	0	-267	-6.4
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-750	-607	-712	-17.1
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-99	0	-87	-2.1

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