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: 12th 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 11.01.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th 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:** **12-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)	51021	51456	42986	18205	2602	166270
Peak Shortage (MW)	450	0	0	177	0	627
Energy Met (MU)	983	1160	995	380	47	3565
Hydro Gen (MU)	102	28	94	21	10	256
Wind Gen (MU)	8	102	27	-	-	137
Solar Gen (MU)*	60.76	34.11	92.48	3.97	0.16	191
Energy Shortage (MU)	5.60	0.00	0.00	1.67	0.00	7.27
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51440	57351	50036	18713	2692	176759
Time Of Maximum Demand Met (From NLDC SCADA)	18:25	10:26	09:35	17:46	17:41	09:56

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	0.08	5.31	5.39	78.60	16.01

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	6535	100	122.2	57.2	-1.2	223	0.95
	Haryana	6315	0	117.8	63.5	0.3	148	0.00
	Rajasthan	12887	0	230.6	58.5	1.2	548	0.00
	Delhi	4505	0	73.6	62.2	-0.9	220	0.00
	UP	17234	0	298.6	88.3	-0.3	570	0.00
	Uttarakhand	2248	0	41.6	29.7	0.3	161	0.00
	HP	1903	0	34.6	26.3	0.1	248	0.00
	J&K(UT) & Ladakh(UT)	3216	100	60.2	53.9	0.8	911	4.65
	Chandigarh	245	0	4.0	4.1	-0.1	26	0.00
WR	Chhattisgarh	3408	0	74.9	23.4	0.0	218	0.00
	Gujarat	16697	0	346.0	163.2	-1.1	630	0.00
	MP	10705	0	205.8	117.5	-3.2	473	0.00
	Maharashtra	24024	0	478.8	138.5	-4.8	745	0.00
	Goa	565	0	11.5	11.0	-0.1	28	0.00
	DD	319	0	7.1	6.8	0.3	30	0.00
	DNH	838	0	19.3	19.1	0.2	58	0.00
	AMNSIL	769	0	16.5	9.7	0.2	243	0.00
SR	Andhra Pradesh	10116	0	188.9	86.8	0.9	403	0.00
	Telangana	10060	0	190.7	87.4	-1.9	484	0.00
	Karnataka	12531	0	223.9	77.0	0.9	1237	0.00
	Kerala	3870	0	77.5	54.5	-0.1	261	0.00
	Tamil Nadu	14671	0	306.7	178.4	0.1	670	0.00
	Puducherry	385	0	7.8	8.0	-0.2	38	0.00
ER	Bihar	4754	0	82.2	71.8	-0.5	259	0.00
	DVC	3126	0	66.4	-38.3	-1.9	214	1.21
	Jharkhand	1603	0	29.2	21.2	-1.1	127	0.46
	Odisha	5137	0	87.7	39.2	-0.2	525	0.00
	West Bengal	6076	0	112.7	-3.8	-0.2	298	0.00
	Sikkim	114	0	1.8	1.9	-0.1	60	0.00
NER	Arunachal Pradesh	139	0	2.4	2.6	-0.3	30	0.00
	Assam	1473	0	25.5	20.7	-0.3	95	0.00
	Manipur	242	0	3.4	3.5	-0.1	20	0.00
	Meghalaya	392	0	7.2	5.9	0.1	43	0.00
	Mizoram	128	0	2.0	1.5	-0.1	11	0.00
	Nagaland	134	0	2.3	2.1	0.1	29	0.00
	Tripura	216	0	3.8	2.2	-0.3	16	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.3	-7.9	-13.9
Day Peak (MW)	93.0	108.4	-596.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	194.9	-194.4	143.7	-149.7	5.4	0.0
Actual(MU)	185.9	-207.8	156.6	-146.7	5.0	-7.0
O/D/U/D(MU)	-9.0	-13.5	12.9	3.1	-0.4	-7.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8153	13813	6272	1960	759	30956	43
State Sector	9925	17894	9816	4158	11	41803	57
Total	18078	31706	16088	6118	770	72760	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	552	1176	498	534	8	2768	76
Lignite	22	13	33	0	0	69	2
Hydro	102	28	94	22	10	256	7
Nuclear	28	21	68	0	0	118	3
Gas, Naptha & Diesel	16	8	9	0	28	61	2
RES (Wind, Solar, Biomass & Others)	96	137	150	4	0	387	11
Total	816	1384	853	559	46	3659	100

Share of RES in total generation (%)	11.73	9.91	17.60	0.72	0.34	10.58
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.70	13.50	36.62	4.56	22.59	20.81

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.061

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: 12-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	26	1009	0.0	8.4	-8.4
4	765 kV	SASARAM-FATEHPUR	1	0	517	0.0	7.9	-7.9
5	765 kV	GAYA-BALIA	1	0	600	0.0	6.4	-6.4
6	400 kV	PUSAULI-VARANASI	1	35	138	0.0	1.4	-1.4
7	400 kV	PUSAULI -ALLAHABAD	1	36	122	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1029	0.0	10.7	-10.7
9	400 kV	PATNA-BALIA	4	0	1361	0.0	19.8	-19.8
10	400 kV	BIHARSHARIFF-BALIA	2	63	398	0.0	4.2	-4.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	595	0.0	8.6	-8.6
12	400 kV	BIHARSHARIFF-VARANASI	2	0	376	0.0	3.5	-3.5
13	220 kV	PUSAULI-SAHUPURI	1	0	148	0.0	1.7	-1.7
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	73.4	-73.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	880	0	10.9	0.0	10.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	112	898	0.0	6.8	-6.8
3	765 kV	JHARSUGUDA-DURG	2	0	558	0.0	8.0	-8.0
4	400 kV	JHARSUGUDA-RAIGARH	4	128	381	0.0	2.7	-2.7
5	400 kV	RANCHI-SIPAT	2	62	259	0.0	1.5	-1.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	139	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	222	0	3.1	0.0	3.1
					ER-WR	14.0	20.8	-6.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	444	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2484	0.0	35.6	-35.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2930	0.0	56.2	-56.2
4	400 kV	TALCHER-I/C	2	934	637	4.5	0.0	4.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	101.8	-101.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	69	179	0.0	2.4	-2.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	87	270	0.0	2.4	-2.4
3	220 kV	ALIPURDUAR-SALAKATI	2	7	56	0.0	0.5	-0.5
					ER-NER	0.0	5.3	-5.2
Import/Export of <null> (With <null>)								
No Records Found								
					NER-NR	0.0	0.0	0.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2004	0.0	33.4	-33.4
2	HVDC	VINDHYACHAL B/B	-	449	0	5.6	0.0	5.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	254	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1914	0.0	31.0	-31.0
5	765 kV	GWALIOR-PHAGI	2	0	1554	0.0	22.8	-22.8
6	765 kV	JABALPUR-ORAI	2	0	814	0.0	22.7	-22.7
7	765 kV	GWALIOR-ORAI	1	844	0	13.7	0.0	13.7
8	765 kV	SATNA-ORAI	1	0	1035	0.0	19.4	-19.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1085	0	12.4	0.0	12.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2112	0.0	38.8	-38.8
11	400 kV	ZERDA-KANKROLI	1	212	0	3.1	0.0	3.1
12	400 kV	ZERDA -BHINMAL	1	315	130	2.4	0.0	2.4
13	400 kV	VINDHYACHAL -RIHAND	1	1000	0	20.9	0.0	20.9
14	400 kV	RAPP-SHUJALPUR	2	270	259	1.0	1.9	-0.9
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	107	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	68	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	60.9	177.1	-116.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	22.2	-22.2
2	HVDC	RAIGARH-PUGALUR	2	0	3005	0.0	29.8	-29.8
3	765 kV	SOLAPUR-RAICHUR	2	656	1947	0.5	24.2	-23.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2754	0.0	42.6	-42.6
5	400 kV	KOLHAPUR-KUDGI	2	1396	0	19.0	0.0	19.0
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	68	1.3	0.0	1.3
					WR-SR	20.8	118.7	-98.0

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)	158	0	25	0.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	0	0	0	-1.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.1
	NER	132kV GELEPHU-SALAKATI	-13	0	-4	-0.1
	NER	132kV MOTANGA-RANGIA	14	0	3	0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-65	-1.6
	ER	NEPAL IMPORT (FROM BIHAR)	-125	0	-44	-1.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	310	41	-220	-5.3
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-497	-492	-493	-11.8
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-99	0	-87	-2.1