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: 9th 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 08.01.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 8th 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:** **09-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)	47042	52599	41830	19939	2591	164001
Peak Shortage (MW)	250	0	0	139	0	389
Energy Met (MU)	841	1183	999	386	45	3454
Hydro Gen (MU)	107	23	93	22	10	255
Wind Gen (MU)	3	35	41	-	-	79
Solar Gen (MU)*	48.52	36.74	78.78	4.62	0.27	169
Energy Shortage (MU)	5.51	0.00	0.00	2.65	0.00	8.16
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47608	57753	49852	20171	2650	165501
Time Of Maximum Demand Met (From NLDC SCADA)	18:47	10:45	09:28	18:00	18:13	18:47

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	0.031	0.00	0.00	2.11	2.11	71.40	26.49

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	5699	0	103.0	48.4	-4.0	220	0.85
	Haryana	5642	0	97.3	56.1	-4.4	245	0.00
	Rajasthan	10256	0	192.0	43.8	-4.1	446	0.00
	Delhi	3345	0	58.0	48.5	-2.5	176	0.01
	UP	16921	0	274.2	73.6	-1.2	409	0.00
	Uttarakhand	2014	0	40.1	29.8	0.8	283	0.00
	HP	1758	0	33.6	27.6	-0.8	254	0.00
	J&K(UT) & Ladakh(UT)	2373	300	38.8	34.1	0.3	469	4.65
	Chandigarh	225	0	3.7	3.9	-0.2	23	0.00
WR	Chhattisgarh	3823	0	83.7	28.3	-0.7	272	0.00
	Gujarat	16310	0	339.8	194.3	-3.6	782	0.00
	MP	10550	0	208.3	138.5	-4.1	616	0.00
	Maharashtra	24416	0	493.9	144.0	-3.8	598	0.00
	Goa	578	0	12.1	11.5	0.3	68	0.00
	DD	314	0	7.2	6.8	0.4	37	0.00
	DNH	847	0	19.7	19.6	0.1	53	0.00
	AMNSIL	849	0	18.0	10.2	0.0	296	0.00
SR	Andhra Pradesh	9398	0	180.8	74.5	0.2	555	0.00
	Telangana	11585	0	210.1	95.2	1.2	880	0.00
	Karnataka	12759	0	225.5	68.5	1.6	991	0.00
	Kerala	3724	0	77.0	55.3	0.2	348	0.00
	Tamil Nadu	14606	0	298.4	174.4	2.7	798	0.00
	Puducherry	376	0	7.4	7.4	0.1	69	0.00
ER	Bihar	6144	0	83.7	75.0	-0.7	243	0.00
	DVC	3190	0	66.2	-35.7	-2.6	427	1.69
	Jharkhand	1654	0	30.5	21.8	-0.8	169	0.96
	Odisha	5187	0	88.5	35.5	-0.1	421	0.00
	West Bengal	6485	0	115.2	4.0	-0.7	458	0.00
	Sikkim	111	0	1.8	1.9	-0.1	37	0.00
NER	Arunachal Pradesh	142	0	2.4	2.4	-0.1	18	0.00
	Assam	1467	0	24.6	21.5	-0.6	101	0.00
	Manipur	245	0	3.5	3.6	-0.1	25	0.00
	Meghalaya	390	0	7.0	6.0	0.0	38	0.00
	Mizoram	131	0	1.9	1.6	-0.1	19	0.00
	Nagaland	140	0	2.3	2.2	0.1	13	0.00
	Tripura	218	0	3.6	2.5	-0.3	40	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.9	-6.2	-16.4
Day Peak (MW)	72.0	-546.4	-813.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	118.2	-117.1	130.0	-137.7	6.6	0.0
Actual(MU)	94.4	-123.7	161.5	-141.3	6.7	-2.4
O/D/U/D(MU)	-23.8	-6.6	31.4	-3.5	0.1	-2.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8153	13643	6022	700	659	29176	41
State Sector	10185	17734	10173	3538	47	41676	59
Total	18338	31376	16195	4238	705	70852	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	519	1190	518	541	7	2775	78
Lignite	18	11	38	0	0	66	2
Hydro	107	23	93	22	10	255	7
Nuclear	33	21	49	0	0	103	3
Gas, Naptha & Diesel	14	8	9	0	26	57	2
RES (Wind, Solar, Biomass & Others)	78	73	147	5	0	303	9
Total	769	1326	853	567	43	3558	100

Share of RES in total generation (%)	10.18	5.50	17.18	0.82	0.63	8.50
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.37	8.85	33.77	4.62	23.21	18.54

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.076
Based on State Max Demands	1.111

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: 09-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	-	2	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	366	628	0.0	4.6	-4.6
4	765 kV	SASARAM-FATEHPUR	1	0	454	0.0	6.2	-6.2
5	765 kV	GAYA-BALIA	1	0	590	0.0	7.3	-7.3
6	400 kV	PUSAULI-VARANASI	1	53	98	0.0	1.2	-1.2
7	400 kV	PUSAULI -ALLAHABAD	1	99	89	0.0	0.1	-0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	801	0.0	8.2	-8.2
9	400 kV	PATNA-BALIA	4	0	1357	0.0	19.1	-19.1
10	400 kV	BIHARSHARIFF-BALIA	2	118	308	0.0	3.0	-3.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	567	0.0	7.7	-7.7
12	400 kV	BIHARSHARIFF-VARANASI	2	115	274	0.0	2.2	-2.2
13	220 kV	PUSAULI-SAHUPURI	1	0	127	0.0	1.4	-1.4
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	28	0	0.2	0.0	0.2
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.6	60.9	-60.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1063	796	2.6	0.0	2.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	7	1261	0.0	11.9	-11.9
3	765 kV	JHARSUGUDA-DURG	2	0	671	0.0	8.4	-8.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	763	0.0	9.4	-9.4
5	400 kV	RANCHI-SIPAT	2	0	371	0.0	3.3	-3.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	190	0.0	2.8	-2.8
7	220 kV	BUDHIPADAR-KORBA	2	202	0	2.4	0.0	2.4
					ER-WR	5.0	35.8	-30.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	549	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	14	992	0.0	8.2	-8.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	3614	0.0	64.5	-64.5
4	400 kV	TALCHER-I/C	2	1917	0	31.3	0.0	31.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	82.6	-82.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	21	251	0.0	3.1	-3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	363	0.0	3.4	-3.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	66	0.0	0.6	-0.6
					ER-NER	0.0	7.1	-7.1
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	2051	0.0	39.6	-39.6
2	HVDC	VINDHYACHAL B/B	-	229	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	254	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	806	1797	1.3	15.1	-13.8
5	765 kV	GWALIOR-PHAGI	2	94	1559	0.1	17.8	-17.7
6	765 kV	JABALPUR-ORAI	2	259	620	0.0	8.3	-8.3
7	765 kV	GWALIOR-ORAI	1	927	0	14.8	0.0	14.8
8	765 kV	SATNA-ORAI	1	0	870	0.0	14.6	-14.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1800	0	29.4	0.0	29.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2150	0.0	30.1	-30.1
11	400 kV	ZERDA-KANKROLI	1	379	0	6.9	0.0	6.9
12	400 kV	ZERDA -BHINMAL	1	452	0	7.9	0.0	7.9
13	400 kV	VINDHYACHAL -RIHAND	1	964	0	20.9	0.0	20.9
14	400 kV	RAPP-SHUJALPUR	2	431	248	5.2	0.6	4.6
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.3	-0.1
17	220 kV	MEHGAON-AURAIYA	1	139	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	106	0	1.5	0.0	1.5
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	95.2	132.5	-37.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	19.4	-19.4
2	HVDC	RAIGARH-PUGALUR	2	0	4009	0.0	45.7	-45.7
3	765 kV	SOLAPUR-RAICHUR	2	556	2635	0.6	24.7	-24.1
4	765 kV	WARDHA-NIZAMABAD	2	0	3509	0.0	49.0	-49.0
5	400 kV	KOLHAPUR-KUDGI	2	1398	0	19.7	0.0	19.7
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	78	1.4	0.0	1.4
					WR-SR	21.7	138.8	-117.1

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)	144	0	42	1.0
	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	-11	0	-2	-0.1
	NER	132kV MOTANGA-RANGIA	-11	0	-2	0.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-79	0	-63	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-119	-11	-18	-0.4
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-348	-5	-175	-4.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-715	-434	-606	-14.5
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-98	0	-78	-1.9