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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report   दिनांक: 07th 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 06.01.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-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 06th 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: 07-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)	49725	53457	41992	19555	2659	167388
Peak Shortage (MW)	817	0	0	592	0	1409
Energy Met (MU)	923	1230	984	397	46	3581
Hydro Gen (MU)	104	33	97	23	10	267
Wind Gen (MU)	7	20	45	-	-	72
Solar Gen (MU)*	26.80	21.48	101.18	4.80	0.28	155
Energy Shortage (MU)	10.69	0.02	0.00	5.38	0.00	16.09
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50320	59547	49885	20029	2703	173845
Time Of Maximum Demand Met (From NLDC SCADA)	18:48	11:14	09:43	17:59	17:55	10:55

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	0.044	0.00	0.66	9.24	9.89	70.99	19.12

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	6500	0	113.9	40.0	-1.0	218	4.60
	Haryana	5690	567	113.7	63.8	2.1	441	1.44
	Rajasthan	11440	0	207.0	43.4	-0.4	459	0.00
	Delhi	4269	0	71.2	60.7	-2.2	276	0.00
	UP	16705	0	280.9	66.4	-4.8	400	0.00
	Uttarakhand	2041	0	38.9	27.5	-0.1	120	0.00
	HP	1828	0	34.2	26.5	0.1	426	0.00
	J&K(UT) & Ladakh(UT)	2828	250	58.7	51.8	1.9	488	4.65
	Chandigarh	241	0	3.9	4.2	-0.3	19	0.00
WR	Chhattisgarh	3823	0	83.6	31.3	0.1	257	0.00
	Gujarat	15649	0	337.6	205.9	-0.7	831	0.00
	MP	12928	0	243.7	165.0	-3.1	513	0.00
	Maharashtra	24964	0	508.3	139.2	-3.2	612	0.00
	Goa	576	20	12.4	11.7	0.6	78	0.02
	DD	319	0	7.2	6.9	0.3	56	0.00
	DNH	859	0	19.7	19.6	0.1	160	0.00
	AMNSIL	862	0	17.3	7.5	0.1	282	0.00
SR	Andhra Pradesh	9617	0	182.9	86.3	0.7	636	0.00
	Telangana	11371	0	205.8	80.1	0.1	521	0.00
	Karnataka	12455	0	219.8	55.5	0.5	746	0.00
	Kerala	3813	0	76.8	53.5	0.1	181	0.00
	Tamil Nadu	14127	0	291.7	165.6	0.6	683	0.00
	Puducherry	352	0	7.0	7.2	-0.2	43	0.00
ER	Bihar	5001	445	86.1	76.3	-0.3	421	0.59
	DVC	3210	97	67.0	-40.1	-1.4	319	1.81
	Jharkhand	1575	54	29.9	20.7	-0.1	258	2.98
	Odisha	5348	0	99.6	52.7	-0.7	366	0.00
	West Bengal	6251	0	112.8	-6.2	0.1	187	0.00
	Sikkim	113	0	1.8	1.8	0.0	50	0.00
NER	Arunachal Pradesh	146	0	2.3	2.2	0.0	77	0.00
	Assam	1481	0	25.3	19.9	-0.1	107	0.00
	Manipur	246	0	3.5	3.5	-0.1	25	0.00
	Meghalaya	401	0	7.5	5.8	0.2	44	0.00
	Mizoram	144	0	1.9	1.6	-0.2	12	0.00
	Nagaland	147	0	2.4	2.1	0.3	23	0.00
	Tripura	229	0	3.6	3.4	-0.3	26	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.1	-7.5	-17.1
Day Peak (MW)	-98.0	-545.5	-815.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	140.8	-118.9	90.6	-118.9	6.4	0.0
Actual(MU)	127.8	-113.7	93.7	-117.9	6.0	-4.1
O/D/U/D(MU)	-13.0	5.2	3.1	1.0	-0.4	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8463	13803	7022	2750	659	32696	45
State Sector	9270	16396	10683	4298	47	40693	55
Total	17733	30199	17705	7048	705	73389	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	590	1251	529	535	9	2914	79
Lignite	21	11	35	0	0	67	2
Hydro	104	33	97	23	10	267	7
Nuclear	33	21	57	0	0	111	3
Gas, Naptha & Diesel	15	8	9	0	25	57	2
RES (Wind, Solar, Biomass & Others)	60	42	175	5	0	282	8
Total	822	1367	901	563	45	3698	100

	NR	WR	SR	ER	NER	All India
Share of RES in total generation (%)	7.25	3.10	19.44	0.86	0.63	7.63
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.83	7.07	36.51	4.98	23.39	17.85

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.050
Based on State Max Demands	1.079

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: 07-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	110	848	0.0	10.4	-10.4
4	765 kV	SASARAM-FATEHPUR	1	356	532	0.0	8.2	-8.2
5	765 kV	GAYA-BALIA	1	0	433	0.0	5.9	-5.9
6	400 kV	PUSAULI-VARANASI	1	44	118	0.0	0.6	-0.6
7	400 kV	PUSAULI -ALLAHABAD	1	46	87	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	893	0.0	8.5	-8.5
9	400 kV	PATNA-BALIA	4	0	1022	0.0	17.2	-17.2
10	400 kV	BIHARSHARIFF-BALIA	2	199	235	0.0	1.4	-1.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	573	0.0	8.9	-8.9
12	400 kV	BIHARSHARIFF-VARANASI	2	28	370	0.0	4.4	-4.4
13	220 kV	PUSAULI-SAHUPURI	1	0	120	0.0	1.3	-1.3
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.1	0.0	0.1
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	0.5	67.0	-66.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	2014	0	26.5	0.0	26.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1	1230	0.0	11.9	-11.9
3	765 kV	JHARSUGUDA-DURG	2	27	327	0.0	3.1	-3.1
4	400 kV	JHARSUGUDA-RAIGARH	4	71	404	0.0	3.1	-3.1
5	400 kV	RANCHI-SIPAT	2	10	372	0.0	3.1	-3.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	147	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	231	0	3.7	0.0	3.7
					ER-WR	30.2	23.0	7.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	445	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1987	0.0	38.8	-38.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2932	0.0	45.2	-45.2
4	400 kV	TALCHER-I/C	2	959	986	2.7	0.0	2.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	94.0	-94.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	37	285	0.0	2.8	-2.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	20	333	0.0	2.8	-2.8
3	220 kV	ALIPURDUAR-SALAKATI	2	3	59	0.0	0.5	-0.5
					ER-NER	0.0	6.1	-6.1
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	1509	0.0	36.7	-36.7
2	HVDC	VINDHYACHAL B/B	-	207	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	253	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	124	1855	0.1	22.1	-22.1
5	765 kV	GWALIOR-PHAGI	2	0	1718	0.0	29.1	-29.1
6	765 kV	JABALPUR-ORAI	2	0	798	0.0	20.3	-20.3
7	765 kV	GWALIOR-ORAI	1	842	0	15.2	0.0	15.2
8	765 kV	SATNA-ORAI	1	0	979	0.0	18.2	-18.2
9	765 kV	BANASKANTHA-CHITORGARH	2	2051	0	33.2	0.0	33.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	1902	0.0	25.9	-25.9
11	400 kV	ZERDA-KANKROLI	1	460	0	7.4	0.0	7.4
12	400 kV	ZERDA -BHINMAL	1	585	0	8.5	0.0	8.5
13	400 kV	VINDHYACHAL -RIHAND	1	975	0	22.3	0.0	22.3
14	400 kV	RAPP-SHUJALPUR	2	350	295	2.4	1.2	1.1
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.2	0.2	-0.1
17	220 kV	MEHGAON-AURAIYA	1	131	0	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	100	9	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	97.5	160.0	-62.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	820	0.0	11.7	-11.7
2	HVDC	RAIGARH-PUGALUR	2	668	2004	0.0	15.4	-15.4
3	765 kV	SOLAPUR-RAICHUR	2	1208	2223	3.8	12.9	-9.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2962	0.0	34.5	-34.5
5	400 kV	KOLHAPUR-KUDGI	2	1488	0	25.2	0.0	25.2
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	75	1.4	0.0	1.4
					WR-SR	30.5	74.5	-44.0

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)	155	0	30	0.7
	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	-9	3	-3	-0.1
	NER	132kV MOTANGA-RANGIA	-21	13	0	0.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-80	0	-63	-1.5
	ER	NEPAL IMPORT (FROM BIHAR)	-132	0	-33	-0.8
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-334	0	-215	-5.2
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-723	-490	-632	-15.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-92	0	-82	-2.0