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: 06th 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 05.01.2022.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 05th 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:** **06-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)	47835	55332	41530	19624	2636	166957
Peak Shortage (MW)	261	0	0	154	0	415
Energy Met (MU)	977	1270	969	394	46	3656
Hydro Gen (MU)	107	31	95	22	10	264
Wind Gen (MU)	14	27	36	-	-	76
Solar Gen (MU)*	12.99	25.05	101.81	4.81	0.26	145
Energy Shortage (MU)	4.92	0.00	0.00	4.99	0.00	9.91
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50617	60632	48657	20063	2717	177114
Time Of Maximum Demand Met (From NLDC SCADA)	09:51	11:14	09:27	18:18	17:24	09:52

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	0.08	5.66	5.74	81.95	12.31

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	6282	0	114.3	51.4	-2.3	117	0.00
	Haryana	5853	0	118.2	65.4	-0.8	286	0.00
	Rajasthan	12990	0	215.9	44.2	-3.7	454	0.00
	Delhi	4322	0	73.4	60.4	-1.3	332	0.00
	UP	17231	0	313.9	81.6	-1.9	435	0.00
	Uttarakhand	2298	0	41.6	30.8	0.1	171	0.25
	HP	2027	0	36.6	28.7	0.7	550	0.02
	J&K(UT) & Ladakh(UT)	2689	250	59.2	55.1	-0.7	126	4.65
	Chandigarh	252	0	4.2	4.2	0.0	54	0.00
WR	Chhattisgarh	3744	0	79.8	32.5	-0.4	262	0.00
	Gujarat	16319	0	354.4	209.0	3.4	723	0.00
	MP	14306	0	272.4	174.8	-2.3	668	0.00
	Maharashtra	24974	0	505.5	139.1	-1.2	542	0.00
	Goa	599	0	13.0	11.7	0.8	29	0.00
	DD	327	0	7.3	7.0	0.3	31	0.00
	DNH	861	0	19.9	19.8	0.1	52	0.00
	AMNSIL	832	0	17.5	8.5	-0.2	275	0.00
SR	Andhra Pradesh	9360	0	179.3	76.1	-0.4	387	0.00
	Telangana	11240	0	202.9	81.7	-0.8	357	0.00
	Karnataka	11711	0	216.6	59.7	-0.2	906	0.00
	Kerala	3775	0	76.6	50.4	-0.3	205	0.00
	Tamil Nadu	14042	0	286.7	162.6	-0.9	318	0.00
	Puducherry	358	0	7.0	7.2	-0.3	34	0.00
ER	Bihar	5281	0	86.2	76.0	-0.5	312	0.85
	DVC	3055	0	65.8	-42.9	-1.6	208	1.89
	Jharkhand	1592	0	27.2	22.2	-0.6	393	2.18
	Odisha	5253	0	98.4	47.2	1.0	768	0.08
	West Bengal	6191	0	114.2	-4.0	-0.5	284	0.00
	Sikkim	124	0	2.0	1.9	0.1	70	0.00
NER	Arunachal Pradesh	137	0	2.3	2.4	-0.3	25	0.00
	Assam	1487	0	25.0	19.6	-0.7	93	0.00
	Manipur	244	0	3.6	3.5	0.0	37	0.00
	Meghalaya	397	0	7.3	6.3	-0.2	59	0.00
	Mizoram	136	0	1.9	1.5	0.0	19	0.00
	Nagaland	144	0	2.4	2.1	0.3	21	0.00
	Tripura	230	0	3.5	3.8	-0.1	51	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.9	-7.5	-17.4
Day Peak (MW)	143.0	-594.9	-831.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	181.6	-133.0	70.3	-125.7	6.8	0.0
Actual(MU)	177.1	-128.2	61.4	-121.3	6.2	-4.9
O/D/U/D(MU)	-4.5	4.8	-8.9	4.4	-0.6	-4.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8463	13803	6272	2695	634	31866	44
State Sector	7950	17356	10743	4298	112	40459	56
Total	16413	31159	17015	6993	746	72325	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	603	1294	541	532	10	2980	79
Lignite	24	12	35	0	0	71	2
Hydro	107	31	95	22	10	264	7
Nuclear	33	21	70	0	0	124	3
Gas, Naptha & Diesel	16	8	9	0	25	59	2
RES (Wind, Solar, Biomass & Others)	52	53	167	5	0	278	7
Total	835	1420	917	559	44	3775	100

Share of RES in total generation (%)	6.23	3.76	18.25	0.87	0.59	7.36
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	22.97	7.43	36.16	4.80	22.05	17.63

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.076

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: 06-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	41	816	0.0	9.2	-9.2
4	765 kV	SASARAM-FATEHPUR	1	0	546	0.0	8.7	-8.7
5	765 kV	GAYA-BALIA	1	0	618	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	1	14	103	0.0	1.2	-1.2
7	400 kV	PUSAULI -ALLAHABAD	1	17	126	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	742	0.0	10.1	-10.1
9	400 kV	PATNA-BALIA	4	0	1308	0.0	21.8	-21.8
10	400 kV	BIHARSHARIFF-BALIA	2	118	245	0.0	3.3	-3.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	616	0.0	9.7	-9.7
12	400 kV	BIHARSHARIFF-VARANASI	2	0	369	0.0	3.2	-3.2
13	220 kV	PUSAULI-SAHUPURI	1	0	128	0.0	1.7	-1.7
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	0.4	78.0	-77.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1538	0	18.0	0.0	18.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	210	796	0.0	6.2	-6.2
3	765 kV	JHARSUGUDA-DURG	2	217	133	1.2	0.0	1.2
4	400 kV	JHARSUGUDA-RAIGARH	4	156	117	1.4	0.0	1.4
5	400 kV	RANCHI-SIPAT	2	91	184	0.0	0.8	-0.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	115	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	239	0	3.8	0.0	3.8
					ER-WR	24.4	8.8	15.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	465	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	36.8	-36.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2660	0.0	46.8	-46.8
4	400 kV	TALCHER-I/C	2	1229	495	4.0	0.0	4.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
					ER-SR	0.0	93.7	-93.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	53	281	0.0	2.9	-2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	54	319	0.0	2.9	-2.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	67	0.0	0.7	-0.7
					ER-NER	0.0	6.4	-6.4
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	2711	0.0	51.9	-51.9
2	HVDC	VINDHYACHAL B/B	-	204	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	250	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	1735	0.0	24.5	-24.5
5	765 kV	GWALIOR-PHAGI	2	0	2416	0.0	32.6	-32.6
6	765 kV	JABALPUR-ORAI	2	0	944	0.0	25.1	-25.1
7	765 kV	GWALIOR-ORAI	1	898	0	16.8	0.0	16.8
8	765 kV	SATNA-ORAI	1	0	1084	0.0	19.3	-19.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1744	0	32.3	0.0	32.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	2157	0.0	38.4	-38.4
11	400 kV	ZERDA-KANKROLI	1	396	0	7.6	0.0	7.6
12	400 kV	ZERDA -BHINMAL	1	567	0	9.3	0.0	9.3
13	400 kV	VINDHYACHAL -RIHAND	1	980	0	22.5	0.0	22.5
14	400 kV	RAPP-SHUJALPUR	2	244	410	0.2	0.5	-0.3
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.5	-0.5
17	220 kV	MEHGAON-AURAIYA	1	124	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	80	0	1.9	0.0	1.9
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	97.6	198.9	-101.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	987	515	9.7	3.1	6.7
2	HVDC	RAIGARH-PUGALUR	2	1452	1599	13.2	0.0	13.2
3	765 kV	SOLAPUR-RAICHUR	2	852	1988	0.0	13.7	-13.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2921	0.0	43.2	-43.2
5	400 kV	KOLHAPUR-KUDGI	2	1545	0	24.4	0.0	24.4
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	80	1.5	0.0	1.5
					WR-SR	48.8	59.9	-11.2

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)	140	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	-1.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	20	0	-40	-1.0
	NER	132kV GELEPHU-SALAKATI	-12	0	-5	-0.1
	NER	132kV MOTANGA-RANGIA	21	5	5	0.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-65	-1.6
	ER	NEPAL IMPORT (FROM BIHAR)	-201	0	-50	-1.2
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-317	0	-197	-4.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-732	-499	-639	-15.3
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-99	0	-88	-2.1