



**National Load Despatch Centre**  
**राष्ट्रीय भार प्रेषण केंद्र**  
**POWER SYSTEM OPERATION CORPORATION LIMITED**  
**पावर 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: 05<sup>th</sup> 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., डोंगतेह, 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 04.01.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-जनवरी-2022 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध 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 04<sup>th</sup> January 2022, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड  
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 05-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)	53117	56274	41124	19541	2618	172674
Peak Shortage (MW)	976	1441	0	375	0	2792
Energy Met (MU)	1042	1288	955	395	46	3726
Hydro Gen (MU)	107	34	86	22	10	260
Wind Gen (MU)	12	28	56	-	-	96
Solar Gen (MU)*	37.73	33.98	102.27	4.88	0.25	179
Energy Shortage (MU)	9.36	12.89	0.00	6.23	0.00	28.48
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53390	61243	47032	20114	2663	179404
Time Of Maximum Demand Met (From NLDC SCADA)	18:16	11:01	10:59	17:52	17:48	10:58

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	0.041	0.00	1.27	6.55	7.82	76.55	15.62

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	6348	0	120.7	54.1	-0.4	163	2.45
	Haryana	6999	0	129.8	74.8	0.9	224	0.73
	Rajasthan	14861	0	267.2	75.6	1.4	620	0.97
	Delhi	4441	0	70.0	60.6	-2.0	333	0.00
	UP	18495	0	312.2	84.2	-1.5	468	0.00
	Uttarakhand	2349	0	42.9	30.8	1.0	207	0.06
	HP	1947	0	36.4	27.0	2.5	660	0.50
	J&K(UT) & Ladakh(UT)	2905	250	59.0	53.8	0.7	389	4.65
WR	Chandigarh	247	0	4.2	4.1	0.1	59	0.00
	Chhattisgarh	3682	0	80.4	33.5	0.9	408	0.15
	Gujarat	16947	86	375.8	208.4	4.4	849	12.74
	MP	14284	0	273.7	177.5	-2.2	606	0.00
	Maharashtra	24563	0	500.1	131.5	-4.3	693	0.00
	Goa	609	0	11.9	11.6	-0.3	39	0.00
	DD	327	0	7.1	6.8	0.3	33	0.00
	DNH	857	0	19.6	19.6	0.1	127	0.00
SR	AMNSIL	900	0	19.4	9.8	-0.3	284	0.00
	Andhra Pradesh	9235	0	177.5	71.2	0.2	436	0.00
	Telangana	11219	0	202.5	82.9	-0.1	513	0.00
	Karnataka	12048	0	214.9	56.0	-0.8	976	0.00
	Kerala	3766	0	77.1	53.2	-0.3	265	0.00
	Tamil Nadu	13707	0	275.8	151.2	-1.1	600	0.00
ER	Puducherry	361	0	7.3	7.6	-0.4	40	0.00
	Bihar	5058	0	85.4	75.2	-1.0	461	0.00
	DVC	3117	0	67.0	46.3	-1.2	173	2.08
	Jharkhand	1477	0	27.3	21.6	0.3	295	4.16
	Odisha	5325	0	99.8	48.1	-0.6	437	0.00
	West Bengal	6145	0	113.5	6.4	-0.5	235	0.00
NER	Sikkim	109	0	1.8	2.0	-0.3	20	0.00
	Arunachal Pradesh	144	0	2.3	2.8	-0.6	9	0.00
	Assam	1456	0	24.8	20.0	-0.1	98	0.00
	Manipur	247	0	3.6	3.5	0.1	29	0.00
	Meghalaya	388	0	7.4	5.9	0.0	45	0.00
	Mizoram	137	0	1.9	1.4	0.1	41	0.00
	Nagaland	139	0	2.4	2.1	0.2	15	0.00
	Tripura	218	0	3.5	3.7	-0.1	26	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.7	-7.6	-17.4
Day Peak (MW)	72.0	53.3	-835.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	211.1	-128.2	50.8	-140.5	6.8	0.0
Actual(MU)	220.3	-132.1	39.3	-138.2	6.1	-4.7
O/D/U/D(MU)	9.1	-3.9	-11.5	2.4	-0.7	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8386	13843	6062	3025	634	31949	46
State Sector	7575	16887	9963	3108	112	37645	54
Total	15961	30730	16025	6133	746	69594	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	596	1295	539	550	9	2990	78
Lignite	25	14	40	0	0	79	2
Hydro	107	34	86	22	10	260	7
Nuclear	33	21	70	0	0	123	3
Gas, Naptha & Diesel	13	9	9	0	24	56	1
RES (Wind, Solar, Biomass & Others)	76	63	187	5	0	331	9
Total	850	1437	931	577	44	3839	100

Share of RES in total generation (%)	8.89	4.39	20.08	0.84	0.56	8.61
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.38	8.23	36.80	4.67	24.08	18.60

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.087

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: 05-Jan-2022

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
<b>Import/Export of ER (With NR)</b>									
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	50	856	0.0	11.3	-11.3	
4	765 kV	SASARAM-FATEHPUR	1	0	578	0.0	9.5	-9.5	
5	765 kV	GAYA-BALIA	1	0	598	0.0	10.9	-10.9	
6	400 kV	PUSAULI-VARANASI	1	9	109	0.0	1.4	-1.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	146	0.0	2.0	-2.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	880	0.0	12.4	-12.4	
9	400 kV	PATNA-BALIA	4	0	1357	0.0	25.1	-25.1	
10	400 kV	BIHARSHARIFF-BALIA	2	0	288	0.0	5.0	-5.0	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	599	0.0	10.5	-10.5	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	394	0.0	5.8	-5.8	
13	220 kV	PUSAULI-SAHUPURI	1	0	137	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	95.4	-95.1
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	922	295	10.0	0.0	10.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	173	766	0.0	4.9	-4.9	
3	765 kV	JHARSUGUDA-DURG	2	223	122	1.4	0.0	1.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	237	229	1.8	0.0	1.8	
5	400 kV	RANCHI-SIPAT	2	114	172	0.2	0.0	0.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	5	104	0.0	1.2	-1.2	
7	220 kV	BUDHIPADAR-KORBA	2	235	50	3.6	0.0	3.6	
						ER-WR	17.1	6.1	11.0
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	552	0.0	11.0	-11.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1973	0.0	38.3	-38.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2255	0.0	40.9	-40.9	
4	400 kV	TALCHER/JC	2	703	628	3.9	0.0	3.9	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	90.2	-90.2
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	33	247	0.0	2.7	-2.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	30	276	0.0	2.8	-2.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	60	0.0	0.7	-0.7	
						ER-NER	0.0	6.1	-6.1
<b>Import/Export of &lt;null&gt; (With &lt;null&gt;)</b>									
No Records Found									
						NER-NR	0.0	0.0	0.0
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2710	0.0	44.6	-44.6	
2	HVDC	VINDHYACHAL B/B	-	202	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	0	2027	0.0	29.8	-29.8	
5	765 kV	GWALIOR-PIHAGI	2	0	2351	0.0	37.4	-37.4	
6	765 kV	JABALPUR-ORAI	2	0	931	0.0	30.2	-30.2	
7	765 kV	GWALIOR-ORAI	1	967	0	17.8	0.0	17.8	
8	765 kV	SATNA-ORAI	1	0	1114	0.0	20.8	-20.8	
9	765 kV	BANASKANTHA-CHITORGARH	2	1627	0	27.7	0.0	27.7	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2407	0.0	42.2	-42.2	
11	400 kV	ZERDA-KANKROLI	1	320	0	5.7	0.0	5.7	
12	400 kV	ZERDA-BHINMAL	1	381	37	5.0	0.0	5.0	
13	400 kV	VINDHYACHAL-RIHAND	1	982	0	22.1	0.0	22.1	
14	400 kV	RAPP-SHUGALPUR	2	107	459	0.0	3.9	-3.9	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7	
17	220 kV	MEHGAON-AURAIYA	1	123	0	0.9	0.0	0.9	
18	220 kV	MALANPUR-AURAIYA	1	75	0	1.9	0.0	1.9	
19	132 kV	GWALIOR-SAWALMADHOPUR	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	87.1	215.8	-128.7
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	990	0	12.3	0.0	12.3	
2	HVDC	RAIGARH-PUGALUR	2	1929	1800	10.9	0.0	10.9	
3	765 kV	SOLAPUR-RAICHUR	2	1954	1200	0.0	4.9	-4.9	
4	765 kV	WARDHA-NIZAMABAD	2	0	2488	0.0	38.0	-38.0	
5	400 kV	KOLHAPUR-KUDGI	2	1520	0	26.2	0.0	26.2	
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	82	1.5	0.0	1.5	
						WR-SR	50.8	42.9	7.9
<b>INTERNATIONAL EXCHANGES</b>									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)			
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	125	0	38	0.9			
	ER	400kV TALA-BINAGURI 1,2,3 (& 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)	0	0	0	-1.0			
	NER	132kV GELEPHU-SALAKATI	9	1	-4	-0.1			
NEPAL	NER	132kV MOTANGA-RANGIA	17	0	1	0.0			
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-79	0	-67	-1.6			
	ER	NEPAL IMPORT (FROM BIHAR)	-175	0	-63	-1.5			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	307	0	-185	-4.4			
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-734	-499	-639	-15.3			
		132kV COMILLA-SURAJMANI NAGAR 1&2	-101	0	-85	-2.0			