



**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: 11<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 10.01.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10<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:

11-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)	50860	51105	41947	19597	2628	166137
Peak Shortage (MW)	300	0	0	150	0	450
Energy Met (MU)	949	1146	991	381	46	3513
Hydro Gen (MU)	105	32	93	21	9	260
Wind Gen (MU)	3	55	27	-	-	85
Solar Gen (MU)*	61.10	37.07	96.27	4.29	0.23	199
Energy Shortage (MU)	4.95	0.00	0.00	2.48	0.00	7.43
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51426	56066	50217	19819	2719	174724
Time Of Maximum Demand Met (From NLDC SCADA)	18:42	10:30	10:10	18:01	17:34	10:20

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	0.032	0.00	0.00	1.42	1.42	69.85	28.72

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	6517	100	119.2	53.9	-1.1	183	0.30
	Haryana	6129	0	111.3	59.1	-0.7	252	0.00
	Rajasthan	12305	0	219.3	57.8	-0.5	416	0.00
	Delhi	4573	0	72.4	60.2	-0.5	250	0.00
	UP	17368	0	292.3	84.2	-1.0	372	0.00
	Uttarakhand	2193	0	39.6	26.8	1.0	200	0.00
	HP	1790	0	32.1	23.9	-0.3	269	0.00
	J&K(UT) & Ladakh(UT)	2839	250	58.4	52.9	0.0	167	4.65
WR	Chandigarh	238	0	3.9	4.1	-0.2	22	0.00
	Chhattisgarh	3570	0	77.7	21.9	-0.2	231	0.00
	Gujarat	16937	0	342.8	181.9	0.7	797	0.00
	MP	10235	0	199.1	108.9	-4.3	565	0.00
	Maharashtra	23606	0	471.8	137.7	-4.0	689	0.00
	Goa	581	0	11.7	11.2	-0.1	12	0.00
	DD	305	0	6.9	6.8	0.1	38	0.00
	DNH	833	0	19.0	19.1	-0.1	58	0.00
SR	AMNSIL	773	0	16.9	10.7	-0.4	250	0.00
	Andhra Pradesh	10038	0	185.9	84.2	0.9	540	0.00
	Telangana	10970	0	205.2	101.8	-0.6	508	0.00
	Karnataka	12171	0	220.4	69.2	1.5	700	0.00
	Kerala	3825	0	76.5	54.1	0.4	334	0.00
	Tamil Nadu	14298	0	295.6	168.0	0.6	417	0.00
	Puducherry	360	0	7.4	7.5	-0.1	56	0.00
	ER	Bihar	4824	0	82.7	71.7	0.0	175
DVC		3140	0	67.0	-37.0	-0.7	281	1.62
Jharkhand		1656	0	28.7	21.4	-2.0	176	0.82
Odisha		4991	0	86.7	32.9	-0.1	470	0.00
West Bengal		6324	0	114.7	1.2	0.2	336	0.00
Sikkim		115	0	1.6	1.7	-0.1	42	0.00
NER	Arunachal Pradesh	146	0	2.4	2.4	-0.1	96	0.00
	Assam	1474	0	25.2	21.0	0.0	100	0.00
	Manipur	237	0	3.4	3.5	-0.1	35	0.00
	Meghalaya	398	0	7.1	5.8	0.2	45	0.00
	Mizoram	133	0	1.9	1.6	-0.1	22	0.00
	Nagaland	141	0	2.3	2.1	0.1	26	0.00
	Tripura	219	0	3.6	2.4	-0.4	39	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.8	-7.5	-13.8
Day Peak (MW)	67.0	-541.8	-595.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	175.9	-176.4	145.9	-153.2	7.8	0.0
Actual(MU)	162.9	-183.7	160.6	-153.7	8.3	-6.7
O/D/U/D(MU)	-13.0	-8.3	14.7	-0.5	0.5	-6.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8471	13813	7022	1300	759	31365	43
State Sector	9915	17354	10026	3498	11	40803	57
Total	18387	31166	17048	4798	770	72168	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	532	1177	492	552	8	2761	77
Lignite	18	14	38	0	0	70	2
Hvdro	105	32	93	21	9	260	7
Nuclear	31	21	67	0	0	119	3
Gas, Naptha & Diesel	15	8	9	0	25	56	2
RES (Wind, Solar, Biomass & Others)	92	93	151	4	0	341	9
Total	792	1345	849	578	42	3606	100

Share of RES in total generation (%)	11.57	6.93	17.81	0.75	0.54	9.44
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.67	10.90	36.60	4.36	22.34	19.94

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.066

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: 11-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	135	638	0.0	7.5	-7.5	
4	765 kV	SASARAM-FATEHPUR	1	0	520	0.0	7.5	-7.5	
5	765 kV	GAYA-BALIA	1	0	614	0.0	9.0	-9.0	
6	400 kV	PUSAULI-VARANASI	1	16	106	0.0	1.3	-1.3	
7	400 kV	PUSAULI-ALLAHABAD	1	20	113	0.0	0.6	-0.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	890	0.0	9.4	-9.4	
9	400 kV	PATNA-BALIA	4	0	1428	0.0	21.9	-21.9	
10	400 kV	BIHARSHARIF-BALIA	2	37	343	0.0	3.3	-3.3	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	591	0.0	8.4	-8.4	
12	400 kV	BIHARSHARIF-VARANASI	2	0	339	0.0	3.8	-3.8	
13	220 kV	PUSAULI-SAHUPURI	1	0	129	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-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.3	74.4	-74.0
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	586	341	3.0	0.0	3.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	280	976	0.0	8.1	-8.1	
3	765 kV	JHARSUGUDA-DURG	2	0	650	0.0	10.4	-10.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	96	424	0.0	4.3	-4.3	
5	400 kV	RANCHI-SIPAT	2	117	280	0.0	1.7	-1.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	155	0.0	2.5	-2.5	
7	220 kV	BUDHIPADAR-KORBA	2	209	0	3.1	0.0	3.1	
						ER-WR	6.1	27.0	-20.9
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	661	0.0	11.1	-11.1	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1198	0.0	25.0	-25.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3054	0.0	55.0	-55.0	
4	400 kV	TALCHER/JC	2	1745	178	15.9	0.0	15.9	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	91.0	-91.0
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	11	287	0.0	3.6	-3.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	360	0.0	4.3	-4.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	67	0.0	0.8	-0.8	
						ER-NER	0.0	8.7	-8.7
<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	2008	0.0	32.0	-32.0	
2	HVDC	VINDHYACHAL B/B	-	230	0	6.1	0.0	6.1	
3	HVDC	MUNDRAMOHINDERGARH	2	0	254	0.0	6.2	-6.2	
4	765 kV	GWALIOR-AGRA	2	0	2006	0.0	25.8	-25.8	
5	765 kV	GWALIOR-PHAGI	2	0	1636	0.0	33.0	-33.0	
6	765 kV	JABALPUR-ORAI	2	0	849	0.0	23.4	-23.4	
7	765 kV	GWALIOR-ORAI	1	734	0	12.9	0.0	12.9	
8	765 kV	SATNA-ORAI	1	0	1057	0.0	18.7	-18.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	1397	0	20.0	0.0	20.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2281	0.0	34.6	-34.6	
11	400 kV	ZERDA-KANKROLI	1	274	0	4.7	0.0	4.7	
12	400 kV	ZERDA-BHINMAL	1	371	8	4.2	0.0	4.2	
13	400 kV	VINDHYACHAL-RIHAND	1	973	0	19.8	0.0	19.8	
14	400 kV	RAPP-SHUGALPUR	2	300	350	1.6	2.0	-0.4	
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	119	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	84	0	1.4	0.0	1.4	
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	71.3	163.4	-92.1
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	20.9	-20.9	
2	HVDC	RAIGARH-PUGALUR	2	0	4008	0.0	56.1	-56.1	
3	765 kV	SOLAPUR-RAICHUR	2	897	1924	1.8	17.3	-15.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	3203	0.0	43.3	-43.3	
5	400 kV	KOLHAPUR-KUDGI	2	1409	0	21.3	0.0	21.3	
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	1.3	0.0	1.3	
						WR-SR	24.4	137.6	-113.2
<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)	142	0	47	0.0	1.1	1.1	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	0	0	0	0.0	-1.8	-1.8	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0.0	-1.2	-1.2	
	NER	132kV GELEPHU-SALAKATI	-11	5	-2	0.0	0.0	-0.1	
	NER	132kV MOTANGA-RANGIA	-9	6	0	0.0	0.0	0.0	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-65	0.0	0.0	-1.6	
	ER	NEPAL IMPORT (FROM BIHAR)	-109	0	44	0.0	0.0	-1.1	
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-356	-3	-204	0.0	0.0	-4.9	
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-494	-488	-491	0.0	0.0	-11.8	
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-101	0	-85	0.0	0.0	-2.0	