



**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: 15<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 14.01.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14<sup>th</sup> 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: 15-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)	52383	45415	37465	19972	2456	157691
Peak Shortage (MW)	0	0	0	100	0	100
Energy Met (MU)	1034	1096	910	391	43	3474
Hydro Gen (MU)	96	29	84	23	10	241
Wind Gen (MU)	16	95	18	-	-	129
Solar Gen (MU)*	62.37	39.27	97.21	4.26	0.16	203
Energy Shortage (MU)	4.77	0.00	0.00	3.91	0.00	8.68
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53528	54394	46610	20501	2505	174456
Time Of Maximum Demand Met (From NLDC SCADA)	10:22	10:23	09:44	17:59	18:11	10:22

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	0.046	0.00	0.43	8.85	9.28	73.24	17.47

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	6848	0	124.4	70.4	-2.0	135	0.10
	Haryana	6256	0	121.0	66.3	0.8	270	0.00
	Rajasthan	13750	0	243.7	68.3	-1.0	501	0.00
	Delhi	5087	0	79.5	67.0	-0.2	299	0.02
	UP	18085	0	315.6	96.6	-0.5	522	0.00
	Uttarakhand	2377	0	44.1	33.2	1.0	202	0.00
	HP	1998	0	35.7	27.9	0.5	255	0.00
	J&K(UT) & Ladakh(UT)	3064	0	65.9	56.0	4.4	470	4.65
WR	Chhattisgarh	247	0	4.2	4.2	0.0	20	0.00
	Chhattisgarh	3796	0	78.0	29.4	-0.1	296	0.00
	Gujarat	12857	0	269.8	130.1	-1.7	794	0.00
	MP	11840	0	219.0	131.6	-1.2	402	0.00
	Maharashtra	24782	0	477.7	141.1	-3.3	724	0.00
	Goa	562	0	11.6	10.5	0.5	38	0.00
	DD	294	0	6.4	6.3	0.1	32	0.00
	DNH	808	0	18.4	18.4	0.0	87	0.00
SR	AMNSIL	676	0	15.1	8.7	-0.3	259	0.00
	Andhra Pradesh	8732	0	166.7	72.5	-0.4	456	0.00
	Telangana	9507	0	175.1	79.7	0.5	454	0.00
	Karnataka	13080	0	227.1	80.8	-0.7	1060	0.00
	Kerala	3725	0	75.0	51.8	-0.3	215	0.00
	Tamil Nadu	12319	0	260.0	149.9	-1.2	473	0.00
	Puducherry	314	0	6.6	6.9	-0.3	38	0.00
ER	Bihar	4701	0	83.7	79.3	-0.8	253	0.09
	DVC	3218	120	66.4	-41.9	-3.0	253	2.29
	Jharkhand	1621	0	30.7	22.0	0.0	154	1.53
	Odisha	5289	0	92.1	39.2	-1.3	357	0.00
	West Bengal	6503	0	116.1	-0.9	-0.3	246	0.00
	Sikkim	116	0	1.8	1.8	0.0	58	0.00
NER	Arunachal Pradesh	144	0	2.3	2.6	-0.4	29	0.00
	Assam	1319	0	23.0	18.2	-0.5	50	0.00
	Manipur	240	0	3.2	3.6	-0.4	44	0.00
	Meghalaya	377	0	7.2	5.6	0.1	40	0.00
	Mizoram	135	0	1.8	1.6	-0.4	9	0.00
	Nagaland	141	0	2.2	2.0	0.0	24	0.00
	Tripura	202	0	3.7	1.8	-0.4	19	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.6	-8.9	-16.4
Day Peak (MW)	-108.0	-546.3	-818.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	242.6	-194.2	84.7	-136.1	3.0	0.0
Actual(MU)	244.6	-212.8	89.3	-128.5	3.0	-4.3
O/D/U/D(MU)	2.0	-18.6	4.6	7.7	0.1	-4.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8110	13928	5062	1500	734	29334	40
State Sector	10460	19536	10586	3538	11	44130	60
Total	18571	33463	15648	5038	745	73464	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	545	1110	493	531	8	2688	75
Lignite	19	14	32	0	0	65	2
Hydro	96	29	84	23	10	241	7
Nuclear	28	21	70	0	0	119	3
Gas, Naptha & Diesel	15	10	9	0	27	62	2
RES (Wind, Solar, Biomass & Others)	107	136	145	4	0	392	11
Total	810	1320	832	559	45	3566	100
Share of RES in total generation (%)	13.16	10.28	17.42	0.77	0.36	10.99	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.49	14.07	35.86	4.93	21.90	21.10	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.060

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: 15-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	108	748	0.0	6.5	-6.5	
4	765 kV	SASARAM-FATEHPUR	1	0	467	0.0	6.4	-6.4	
5	765 kV	GAYA-BALIA	1	0	592	0.0	10.3	-10.3	
6	400 kV	PUSAULI-VARANASI	1	58	82	0.0	0.1	-0.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	123	0.0	0.1	-0.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	988	0.0	9.2	-9.2	
9	400 kV	PATNA-BALIA	4	0	1457	0.0	20.8	-20.8	
10	400 kV	BIHARSHARIFF-BALIA	2	86	347	0.0	3.0	-3.0	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	642	0.0	8.6	-8.6	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	334	0.0	3.1	-3.1	
13	220 kV	PUSAULI-SAHUPURI	1	18	126	0.0	1.5	-1.5	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.2	0.0	0.2	
15	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4	
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	69.5	-69.0
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	607	334	6.3	0.0	6.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	420	421	0.8	0.0	0.8	
3	765 kV	JHARSUGUDA-DURG	2	0	554	0.0	8.0	-8.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	219	417	0.0	2.0	-2.0	
5	400 kV	RANCHI-SIPAT	2	122	149	0.4	0.0	0.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	119	0.0	1.4	-1.4	
7	220 kV	BUDHIPADAR-KORBA	2	189	0	2.7	0.0	2.7	
						ER-WR	10.2	11.3	-1.1
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	552	0.0	12.4	-12.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1639	0.0	32.0	-32.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2476	0.0	44.7	-44.7	
4	400 kV	TALCHER-I/C	2	858	629	4.8	0.0	4.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	89.2	-89.2
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BNAGURI-BONGAIGAON	2	222	299	0.0	3.3	-3.3	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	318	396	0.0	2.4	-2.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	57	74	0.0	0.4	-0.4	
						ER-NER	0.0	6.1	-6.1
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	486	503	0.0	2.0	-2.0	
						NER-NR	0.0	2.0	-2.0
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2999	0.0	50.3	-50.3	
2	HVDC	VINDHYACHAL B/B	-	92	488	1.0	5.3	-4.3	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	254	0.0	6.2	-6.2	
4	765 kV	GWALIOR-AGRA	2	0	2360	0.0	39.0	-39.0	
5	765 kV	GWALIOR-PHAGI	2	0	1974	0.0	25.4	-25.4	
6	765 kV	JABALPUR-ORAI	2	0	812	0.0	26.4	-26.4	
7	765 kV	GWALIOR-ORAI	1	963	0	14.3	0.0	14.3	
8	765 kV	SATNA-ORAI	1	0	1013	0.0	18.6	-18.6	
9	765 kV	BANASKANTHA-CHITORGARH	2	634	334	6.3	1.0	5.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2317	0.0	45.1	-45.1	
11	400 kV	ZERDA-KANKROLI	1	186	15	1.8	0.0	1.8	
12	400 kV	ZERDA-BHINMAL	1	198	155	0.1	0.0	0.1	
13	400 kV	VINDHYACHAL-RIHAND	1	959	0	20.8	0.0	20.8	
14	400 kV	RAPP-SHUALPUR	2	142	407	0.5	3.0	-2.5	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9	
17	220 kV	MEHGAON-AURAIYA	1	98	0	0.4	0.0	0.4	
18	220 kV	MALANPUR-AURAIYA	1	60	9	1.1	0.0	1.1	
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	46.2	221.0	-174.7
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	496	820	7.4	3.9	3.5	
2	HVDC	RAIGARH-PUGALUR	2	0	1500	0.0	18.2	-18.2	
3	765 kV	SOLAPUR-RAICHUR	2	1396	1285	2.7	14.6	-11.9	
4	765 kV	WARDHA-NIZAMABAD	2	0	2321	0.0	33.2	-33.2	
5	400 kV	KOLHAPUR-KUDGI	2	1413	0	19.5	0.0	19.5	
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	74	1.4	0.0	1.4	
						WR-SR	31.0	69.8	-38.8

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 MANGDECHHU HEP 4*180MW)	135	0	25	0.6	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	0	0	0	-1.6	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	10	0	-23	-0.5	
	NER	132kV GELEPHU-SALAKATI	-14	3	-4	-0.1	
	NER	132kV MOTANGA-RANGIA	-16	6	-2	-0.1	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-67	-1.6	
	ER	NEPAL IMPORT (FROM BIHAR)	-146	0	-75	-1.8	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-325	-52	-230	-5.5	
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-723	-537	-609	-14.6	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-95	0	-74	-1.8	