



**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

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Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 04<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 03.01.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 03<sup>rd</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: 04-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)	53366	55348	40896	19698	2617	171925
Peak Shortage (MW)	450	1379	0	310	0	2139
Energy Met (MU)	1038	1255	935	392	46	3665
Hydro Gen (MU)	106	34	93	23	11	267
Wind Gen (MU)	16	43	53	-	-	112
Solar Gen (MU)*	61.01	35.71	97.28	4.80	0.26	199
Energy Shortage (MU)	5.64	11.68	0.00	5.31	0.00	22.63
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54030	60695	46944	20301	2649	179592
Time Of Maximum Demand Met (From NLDC SCADA)	09:58	11:10	09:52	17:45	17:29	10:56

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	0.042	0.00	0.94	10.08	11.02	79.68	9.30

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	6484	0	123.4	59.5	-0.2	196	0.40	
	Haryana	6970	0	128.0	69.4	2.3	197	0.00	
	Rajasthan	14689	0	262.5	67.9	-1.7	431	0.08	
	Delhi	4467	0	71.8	60.0	-0.6	239	0.00	
	UP	18832	0	310.9	87.1	0.1	428	0.00	
	Uttarakhand	2235	0	40.9	28.4	1.3	195	0.00	
	HP	1940	0	35.0	27.3	0.6	197	0.51	
	J&K(UT) & Ladakh(UT)	2944	250	61.4	56.6	-0.1	285	4.65	
WR	Chandigarh	242	0	4.0	4.0	0.0	49	0.00	
	Chhattisgarh	3557	0	78.5	30.3	1.0	258	0.00	
	Gujarat	16955	156	358.1	195.0	7.0	834	11.68	
	MP	14060	0	271.4	166.4	-0.3	598	0.00	
	Maharashtra	24111	0	490.0	130.1	-4.2	599	0.00	
	Goa	609	0	12.4	11.6	0.2	39	0.00	
	DD	310	0	7.0	6.7	0.3	34	0.00	
	DNH	843	0	19.2	19.0	0.2	47	0.00	
SR	AMNSIL	863	0	18.0	8.6	-0.2	295	0.00	
	Andhra Pradesh	9259	0	177.0	73.7	0.5	350	0.00	
	Telangana	11125	0	201.0	81.9	-1.5	585	0.00	
	Karnataka	11539	0	209.3	48.6	-1.0	1162	0.00	
	Kerala	3806	0	76.3	53.7	-0.3	277	0.00	
	Tamil Nadu	13130	0	264.7	149.8	-2.9	939	0.00	
	Puducherry	384	0	6.8	7.4	-0.5	24	0.00	
	ER	Bihar	4907	0	82.9	70.8	0.8	438	0.00
DVC		3131	0	66.2	-39.0	-1.3	435	2.14	
Jharkhand		1533	0	27.4	22.5	-0.4	234	3.17	
Odisha		5551	0	103.2	54.0	0.2	751	0.00	
West Bengal		6065	0	110.4	-6.1	0.0	760	0.00	
Sikkim		111	0	1.8	2.0	-0.2	18	0.00	
NER		Arunachal Pradesh	141	0	2.4	2.4	-0.1	40	0.00
		Assam	1462	0	24.6	18.9	0.3	120	0.00
	Manipur	231	0	3.5	3.5	0.0	42	0.00	
	Meghalaya	398	0	7.3	6.3	0.0	45	0.00	
	Mizoram	133	0	1.9	1.5	-0.1	15	0.00	
	Nagaland	140	0	2.4	2.1	0.2	20	0.00	
	Tripura	218	0	3.6	4.0	-0.3	32	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.6	-6.7	-16.5
Day Peak (MW)	72.0	-569.5	-830.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	211.8	-130.6	57.8	-144.0	5.0	0.0
Actual(MU)	209.1	-121.2	44.5	-141.5	4.6	-4.5
O/D/U/D(MU)	-2.7	9.4	-13.3	2.5	-0.5	-4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8602	14543	6062	2425	664	32295	46
State Sector	9330	15623	9583	3318	112	37966	54
Total	17932	30166	15645	5743	776	70261	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	574	1227	515	540	9	2867	76
Lignite	24	14	40	0	0	78	2
Hvdro	106	34	93	23	11	267	7
Nuclear	33	20	70	0	0	123	3
Gas, Naptha & Diesel	15	11	9	0	25	60	2
RES (Wind, Solar, Biomass & Others)	103	79	179	5	0	367	10
Total	854	1386	907	569	46	3761	100

Share of RES in total generation (%)	12.03	5.73	19.79	0.85	0.57	9.75
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.27	9.66	37.77	4.94	23.82	20.12

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.077

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: 04-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	0	722	0.0	10.3	-10.3	
4	765 kV	SASARAMI-FATEHPUR	1	0	551	0.0	8.9	-8.9	
5	765 kV	GAYA-BALIA	1	0	574	0.0	10.3	-10.3	
6	400 kV	PUSAULI-VARANASI	1	0	96	0.0	1.4	-1.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	153	0.0	2.1	-2.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	913	0.0	12.4	-12.4	
9	400 kV	PATNA-BALIA	4	0	1339	0.0	24.9	-24.9	
10	400 kV	BIHARSHARIFF-BALIA	2	0	304	0.0	5.0	-5.0	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	603	0.0	10.6	-10.6	
12	400 kV	BIHARSHARIFF-VARANASI	2	0	310	0.0	4.9	-4.9	
13	220 kV	PUSAULI-SAHUPURI	1	0	141	0.0	1.9	-1.9	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4	
16	132 kV	KARMANASA-SAHUPURI	1	18	2	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.2	-0.2	
						ER-NR	0.4	93.0	-92.7
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1311	116	11.8	0.0	11.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	575	750	0.0	0.6	-0.6	
3	765 kV	JHARSUGUDA-DURG	2	279	145	0.9	0.0	0.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	278	164	1.7	0.0	1.7	
5	400 kV	RANCHI-SIPAT	2	187	167	0.4	0.0	0.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	86	104	0.0	1.1	-1.1	
7	220 kV	BUDHIPADAR-KORBA	2	246	0	4.0	0.0	4.0	
						ER-WR	18.8	1.7	17.1
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZIYAKA B/B	2	0	557	0.0	11.4	-11.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1992	0.0	35.8	-35.8	
3	765 kV	ANGUL-SIRSAKULAM	2	0	2801	0.0	44.6	-44.6	
4	400 kV	TALCHER-IC	2	437	746	0.0	5.4	-5.4	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	91.7	-91.7
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	40	207	0.0	2.1	-2.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	50	237	0.0	2.1	-2.1	
3	220 kV	ALIPURDUAR-SALAKATI	2	3	46	0.0	0.5	-0.5	
						ER-NER	0.0	4.7	-4.7
<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	2514	0.0	37.9	-37.9	
2	HVDC	VINDHYACHAL B/B	-	203	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	1890	0.0	29.9	-29.9	
5	765 kV	GWALIOR-PHAGI	2	0	2004	0.0	32.1	-32.1	
6	765 kV	JABALPUR-ORAI	2	0	907	0.0	28.8	-28.8	
7	765 kV	GWALIOR-ORAI	1	936	0	15.8	0.0	15.8	
8	765 kV	SATNA-ORAI	1	0	1010	0.0	20.0	-20.0	
9	765 kV	BANASKANTHA-CHITORGARH	1	1606	0	0	0.0	33.4	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2488	0.0	41.1	-41.1	
11	400 kV	ZERDA-KANKROLI	1	377	0	5.7	0.0	5.7	
12	400 kV	ZERDA-BHINMAL	1	487	0	6.1	0.0	6.1	
13	400 kV	VINDHYACHAL-RIHAND	1	969	0	20.5	0.0	20.5	
14	400 kV	RAPP-SHUJALPUR	2	110	376	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	0.7	-0.7	
17	220 kV	MEHGAON-AURAIYA	1	119	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	74	0	1.6	0.0	1.6	
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	80.5	199.6	-119.1
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI BB	-	496	515	7.9	1.5	6.4	
2	HVDC	RAIGARH-PUGAULUR	2	1932	0	28.6	0.0	28.6	
3	765 kV	SOLAPUR-RAICHUR	2	972	1576	2.6	9.7	-7.1	
4	765 kV	WARDHA-NIZAMABAD	2	0	2798	0.0	39.4	-39.4	
5	400 kV	KOLHAPUR-KUDGI	2	1436	0	24.6	0.0	24.6	
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	92	1.5	0.0	1.5	
						WR-SR	65.1	50.6	14.5

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)	133	0	40	1.0
	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)	0	0	0	-0.9
	NER	132kV GELEPHU-SALAKATI	-9	0	-3	-0.1
	NER	132kV MOTANGA-RANGIA	11	1	2	0.0
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-65	-1.6
	ER	NEPAL IMPORT (FROM BIHAR)	-134	0	-27	-0.7
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-360	5	-187	-4.5
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-736	-389	-609	-14.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-94	0	-77	-1.8