



**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: 30<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 29.01.2022.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-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 29<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: 30-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)	53849	55414	41996	20453	2720	174432
Peak Shortage (MW)	400	0	0	195	0	595
Energy Met (MU)	1059	1281	1019	411	47	3817
Hydro Gen (MU)	95	36	104	23	9	267
Wind Gen (MU)	3	35	64	-	-	102
Solar Gen (MU)*	81.70	42.66	104.80	5.06	0.29	235
Energy Shortage (MU)	5.23	0.00	0.00	2.96	0.00	8.19
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55347	63207	52918	21014	2775	190453
Time Of Maximum Demand Met (From NLDC SCADA)	10:42	10:45	09:39	18:49	18:02	10:42

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	0.059	0.39	1.37	13.53	15.29	68.77	15.95

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	6810	0	121.0	45.1	0.1	264	0.40
	Haryana	6364	0	124.6	72.2	0.9	212	0.00
	Rajasthan	15535	0	278.1	71.4	1.2	548	0.00
	Delhi	4330	0	71.8	60.0	-0.9	210	0.00
	UP	18946	0	322.7	78.9	-2.2	236	0.00
	Uttarakhand	2356	0	44.0	32.7	1.3	365	0.18
	HP	1905	0	33.9	25.9	-1.1	150	0.00
	J&K(UT) & Ladakh(UT)	2984	250	59.7	56.5	-1.8	485	4.65
	Chandigarh	229	0	3.8	3.9	0.0	20	0.00
	WR	Chhattisgarh	4242	0	89.8	35.3	0.6	160
Gujarat		16919	0	358.4	202.1	4.5	967	0.00
MP		15043	0	287.2	173.4	-1.4	451	0.00
Maharashtra		24258	0	489.5	144.2	-3.8	451	0.00
Goa		586	0	11.9	11.3	0.6	45	0.00
DD		335	0	7.6	7.3	0.3	35	0.00
DNH		845	0	19.3	19.3	0.0	52	0.00
AMNSIL		817	0	17.7	10.6	0.1	263	0.00
SR	Andhra Pradesh	10004	0	186.9	65.5	1.7	955	0.00
	Telangana	11579	0	207.1	66.3	0.0	480	0.00
	Karnataka	13223	0	234.6	69.6	0.5	822	0.00
	Kerala	3752	0	76.0	48.3	-0.4	186	0.00
	Tamil Nadu	14972	0	306.4	167.2	0.1	595	0.00
	Puducherry	375	0	7.7	7.8	-0.1	41	0.00
ER	Bihar	5268	0	86.9	76.8	-0.5	400	0.54
	DVC	3431	0	71.3	-42.8	-1.0	470	0.00
	Jharkhand	1549	0	30.2	22.6	-0.5	289	2.42
	Odisha	5368	0	96.6	35.0	-0.3	501	0.00
	West Bengal	6539	0	124.1	5.4	0.3	365	0.00
NER	Sikkim	122	0	1.9	2.1	-0.2	33	0.00
	Arunachal Pradesh	160	0	2.3	2.5	-0.3	36	0.00
	Assam	1488	0	25.5	20.0	-0.2	90	0.00
	Manipur	253	0	3.6	3.6	0.0	54	0.00
	Meghalaya	398	0	7.3	6.0	0.1	38	0.00
	Mizoram	147	0	1.8	1.8	-0.4	16	0.00
	Nagaland	151	0	2.6	2.1	0.4	26	0.00
	Tripura	222	0	3.6	1.9	-0.2	32	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.6	-9.5	-19.4
Day Peak (MW)	-309.0	-695.0	-866.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	174.8	-97.2	71.5	-154.5	5.4	0.0
Actual(MU)	154.8	-83.0	77.9	-157.5	4.5	-3.3
O/D/U/D(MU)	-20.1	14.2	6.4	-3.0	-0.9	-3.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5633	16318	7712	1996	639	32297	47
State Sector	7265	17531	9248	2750	11	36805	53
Total	12898	33848	16960	4746	650	69102	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	648	1226	528	570	10	2982	76
Lignite	27	14	43	0	0	84	2
Hydro	95	36	104	23	9	267	7
Nuclear	28	21	70	0	0	119	3
Gas, Naptha & Diesel	15	12	7	0	28	63	2
RES (Wind, Solar, Biomass & Others)	111	79	200	5	0	395	10
Total	924	1389	951	598	47	3909	100
Share of RES in total generation (%)	11.97	5.72	21.03	0.84	0.61	10.11	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.26	9.86	39.24	4.64	19.88	19.97	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.058

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: 30-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	-	2	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	0	979	0.0	13.8	-13.8
4	765 kV	SASARAM-FATEHPUR	1	0	604	0.0	9.6	-9.6
5	765 kV	GAYA-BALIA	1	0	540	0.0	8.8	-8.8
6	400 kV	PUSAULI-VARANASI	1	29	68	0.0	0.6	-0.6
7	400 kV	PUSAULI-ALLAHABAD	1	0	138	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	854	0.0	9.2	-9.2
9	400 kV	PATNA-BALIA	4	0	1284	0.0	20.7	-20.7
10	400 kV	BIHARSHARIFF-BALIA	2	43	292	0.0	4.4	-4.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	550	0.0	9.1	-9.1
12	400 kV	BIHARSHARIFF-VARANASI	2	0	433	0.0	4.4	-4.4
13	220 kV	SAHUPURI-KARMANASA	1	0	215	0.0	2.0	-2.0
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	25	0	0.0	0.0	0.0
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	83.7	-83.3
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	156	666	0.0	5.3	-5.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	187	835	0.0	5.7	-5.7
3	765 kV	JHARSUGUDA-DURG	2	0	282	0.0	2.9	-2.9
4	400 kV	JHARSUGUDA-RAIGARH	4	19	473	0.0	5.3	-5.3
5	400 kV	RANCHI-SIPAT	2	68	265	0.0	1.9	-1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	139	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	142	0	1.8	0.0	1.8
						ER-WR	23.2	-21.5
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	447	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1645	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2272	0.0	41.5	-41.5
4	400 kV	TALCHER-I/C	2	0	865	0.0	8.2	-8.2
5	220 kV	BALMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
						ER-SR	91.2	-91.2
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	268	44	2.1	0.0	2.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	442	19	4.2	0.0	4.2
3	220 kV	ALIPURDUAR-SALAKATI	2	74	0	0.8	0.0	0.8
						ER-NER	7.1	7.1
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	491	0	11.7	0.0	11.7
						NER-NR	11.7	11.7
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2007	0.0	26.8	-26.8
2	HVDC	VINDHYACHAL B/B	-	362	0	7.7	0.0	7.7
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	254	0.0	5.4	-5.4
4	765 kV	GWALIOR-AGRA	2	0	1917	0.0	26.0	-26.0
5	765 kV	GWALIOR-PHAGI	2	0	2132	0.0	34.8	-34.8
6	765 kV	JABALPUR-ORAI	2	0	1046	0.0	27.1	-27.1
7	765 kV	GWALIOR-ORAI	1	949	0	18.0	0.0	18.0
8	765 kV	SATNA-ORAI	1	0	998	0.0	18.7	-18.7
9	765 kV	BANASKANTHA-CHITORGARH	2	2269	0	36.1	0.0	36.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2057	0.0	30.7	-30.7
11	400 kV	ZERDA-KANKROLI	1	428	0	6.2	0.0	6.2
12	400 kV	ZERDA -BHINMAL	1	589	30	6.5	0.0	6.5
13	400 kV	VINDHYACHAL -RIHAND	1	488	0	11.0	0.0	11.0
14	400 kV	RAPP-SHUALPUR	2	340	463	0.0	2.0	-2.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
17	220 kV	MEHGAON-AURAIYA	1	129	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	88	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	172.9	-84.5
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	297	0	7.3	0.0	7.3
2	HVDC	RAIGARH-PUGALUR	2	0	1201	0.0	18.8	-18.8
3	765 kV	SOLAPUR-RAICHUR	2	1644	721	2.3	0.0	2.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2073	0.0	31.6	-31.6
5	400 kV	KOLHAPUR-KUDGI	2	1227	0	19.6	0.0	19.6
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	77	0.0	1.4	1.4
						WR-SR	30.5	-19.9

INTERNATIONAL EXCHANGES			Import(+ve)/Export(-ve) Energy Exchange (MU)			
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)	160	21	45	1.1
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	0	0	0	-2.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-2.0
	NER	132kV GELEPHU-SALAKATI	12	1	6	0.1
	NER	132kV MOTANGA-RANGIA	-17	0	-7	-0.2
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-79	0	-70	-1.7
	ER	NEPAL IMPORT (FROM BIHAR)	-320	0	-125	-3.0
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-296	0	-204	-4.9
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-748	-607	-715	-17.2
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-118	0	-93	-2.2