



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: 01st Feb 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 31.01.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-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 31th 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: 01-Feb-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)	54163	56392	42713	21184	2706	177158
Peak Shortage (MW)	1175	0	0	218	0	1393
Energy Met (MU)	1059	1298	1034	416	48	3855
Hydro Gen (MU)	100	42	114	26	9	291
Wind Gen (MU)	6	48	18	-	-	72
Solar Gen (MU)*	72.61	45.08	108.26	5.46	0.34	232
Energy Shortage (MU)	10.51	0.00	0.62	2.02	0.00	13.15
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54547	64358	53043	21213	2738	192078
Time Of Maximum Demand Met (From NLDC SCADA)	18:46	11:52	11:53	18:20	17:57	11:27

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	0.037	0.00	0.94	5.21	6.15	79.12	14.73

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	6758	0	118.1	42.2	-2.4	46	0.45
	Haryana	6215	0	120.9	71.5	2.0	236	2.61
	Rajasthan	14824	83	276.6	63.6	0.4	388	2.51
	Delhi	4489	0	71.6	61.8	-3.0	390	0.00
	UP	19327	0	329.3	74.6	2.5	397	0.00
	Uttarakhand	2419	0	42.2	31.8	0.7	240	0.29
	HP	1869	0	33.0	25.6	-0.2	179	0.00
	J&K(UT) & Ladakh(UT)	3159	250	63.0	56.9	0.9	377	4.65
WR	Chhattisgarh	242	0	4.0	4.1	-0.1	22	0.00
	Gujarat	4215	0	84.7	31.7	0.3	206	0.00
	Maharashtra	17096	0	357.8	208.6	1.4	842	0.00
	MP	15517	0	294.4	180.3	-1.2	508	0.00
	Maharashtra	25542	0	504.4	145.2	-3.3	537	0.00
	Goa	587	0	11.7	11.2	0.2	40	0.00
	DD	323	0	7.2	7.0	0.2	67	0.00
	DNH	840	0	19.3	19.3	0.0	44	0.00
SR	AMNSIL	860	0	18.4	10.1	-0.9	293	0.00
	Andhra Pradesh	10043	0	188.1	82.9	2.0	642	0.62
	Telangana	11637	0	210.0	66.8	0.6	762	0.00
	Karnataka	13368	0	240.7	85.4	4.5	1204	0.00
	Kerala	3944	0	79.6	53.6	-0.6	251	0.00
	Tamil Nadu	15290	0	308.7	172.9	2.1	758	0.00
	Puducherry	370	0	7.2	7.4	-0.2	36	0.00
	ER	Bihar	5186	0	90.0	77.5	0.0	278
DVC		4029	0	71.8	-36.5	0.0	329	0.00
Jharkhand		1553	108	31.2	21.2	0.2	111	2.02
Odisha		5390	0	96.7	37.4	-1.0	509	0.00
West Bengal		6535	0	124.9	6.9	-0.2	194	0.00
Sikkim		120	0	1.9	2.0	-0.1	27	0.00
NER	Arunachal Pradesh	162	0	2.8	2.6	0.1	54	0.00
	Assam	1473	0	25.7	20.0	0.0	148	0.00
	Manipur	258	0	3.7	3.6	0.1	54	0.00
	Meghalaya	413	0	7.8	6.4	0.1	43	0.00
	Mizoram	140	0	1.9	1.7	-0.2	22	0.00
	Nagaland	152	0	2.4	2.1	0.2	23	0.00
	Tripura	220	0	3.7	2.5	-0.2	29	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.7	-11.4	-20.2
Day Peak (MW)	-325.0	-708.0	-903.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	147.5	-115.8	94.1	-132.7	6.9	0.0
Actual(MU)	126.5	-110.7	110.5	-138.4	6.3	-5.8
OD/UD(MU)	-21.1	5.1	16.4	-5.7	-0.6	-5.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4903	14898	7712	1556	639	29707	44
State Sector	6765	17371	9388	4360	11	37895	56
Total	11668	32268	17100	5916	650	67602	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	683	1249	544	569	8	3053	77
Lignite	22	9	42	0	0	73	2
Hydro	100	42	114	26	9	291	7
Nuclear	28	21	70	0	0	119	3
Gas, Naptha & Diesel	15	12	9	0	30	66	2
RES (Wind, Solar, Biomass & Others)	104	95	157	5	0	362	9
Total	953	1429	935	601	47	3964	100

Share of RES in total generation (%)	10.94	6.63	16.77	0.91	0.73	9.12
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.37	11.07	36.41	5.28	19.61	19.47

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.065

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: 01-Feb-2022

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
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	58	576	0.0	6.6	-6.6	
4	765 kV	SASARAM-FATEHPUR	1	0	459	0.0	7.6	-7.6	
5	765 kV	GAYA-BALIA	1	0	595	0.0	8.7	-8.7	
6	400 kV	PUSAULI-VARANASI	1	43	44	0.0	0.0	0.0	
7	400 kV	PUSAULI-ALLAHABAD	1	43	90	0.0	0.2	-0.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	738	0.0	7.7	-7.7	
9	400 kV	PATNA-BALIA	4	0	1231	0.0	20.9	-20.9	
10	400 kV	BIHARSHARIF-BALIA	2	102	353	0.0	4.8	-4.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	418	0.0	6.1	-6.1	
12	400 kV	BIHARSHARIF-VARANASI	2	0	276	0.0	3.6	-3.6	
13	220 kV	SAHPURI-KARMANASA	1	11	112	0.0	1.3	-1.3	
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5	
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	0.5	67.6	-67.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	414	812	0.0	5.0	-5.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	200	854	0.0	7.2	-7.2	
3	765 kV	JHARSUGUDA-DURG	2	74	281	0.0	2.9	-2.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	96	335	0.0	3.8	-3.8	
5	400 kV	RANCHI-SIPAT	2	72	218	0.0	1.8	-1.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	127	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	2	185	0	2.3	0.0	2.3	
						ER-WR	2.3	22.7	-20.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	469	0.0	9.8	-9.8	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	44.3	-44.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2500	0.0	44.7	-44.7	
4	400 kV	TALCHER/JC	2	914	996	0.0	1.4	-1.4	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	98.8	-98.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	221	30	1.2	0.0	1.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	321	55	3.0	0.0	3.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	56	18	0.5	0.0	0.5	
						ER-NER	4.8	0.0	4.8
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	491	0	11.8	0.0	11.8	
						NER-NR	11.8	0.0	11.8
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2019	0.0	35.3	-35.3	
2	HVDC	VINDHYACHAL B/B	-	451	0	12.2	0.0	12.2	
3	HVDC	MUNDRU-MOHENDERGARH	2	0	128	0.0	3.0	-3.0	
4	765 kV	GWALIOR-AGRA	2	0	1745	0.0	23.4	-23.4	
5	765 kV	GWALIOR-PHAGI	2	0	1865	0.0	29.3	-29.3	
6	765 kV	JABALPUR-ORAI	2	0	957	0.0	22.2	-22.2	
7	765 kV	GWALIOR-ORAI	1	1013	0	17.0	0.0	17.0	
8	765 kV	SATNA-ORAI	1	0	970	0.0	18.4	-18.4	
9	765 kV	BANASKANTHA-CHITORGARH	2	2014	0	34.7	0.0	34.7	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2377	0.0	32.4	-32.4	
11	400 kV	ZERDA-KANKROLI	1	396	0	6.6	0.0	6.6	
12	400 kV	ZERDA-BHINMAL	1	489	0	6.2	0.0	6.2	
13	400 kV	VINDHYACHAL-RIHAND	1	497	0	11.0	0.0	11.0	
14	400 kV	RAPP-SHUJALPUR	2	377	369	2.0	1.9	0.1	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5	
17	220 kV	MEHGAON-AURAIYA	1	166	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	88	0	2.4	0.0	2.4	
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	92.9	166.3	-73.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	307	1016	1.6	0.0	1.6	
2	HVDC	RAIGARH-PUGALUR	2	0	2505	0.0	26.0	-26.0	
3	765 kV	SOLAPUR-RAICHUR	2	914	1573	2.5	14.0	-11.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	2408	0.0	36.7	-36.7	
5	400 kV	KOLHAPUR-KUDGI	2	1002	0	14.6	0.0	14.6	
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	80	1.3	0.0	1.3	
						WR-SR	20.0	76.7	-56.8

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Import(+ve)/Export(-ve)	
					Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	139	0	18	0.4
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW) 220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	0.0
	NER	132kV GELEPHU-SALAKATI	20	1	10	0.2
	NER	132kV MOTANGA-RANGIA	-11	10	0	0.0
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-81	0	-71	-1.7
NEPAL	ER	NEPAL IMPORT (FROM BIHAR)	-307	-17	-165	-4.0
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-320	0	-237	-5.7
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-781	-699	-745	-17.9
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-122	0	-96	-2.3