



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रीड कंट्रोलर ऑफ इंडिया 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 January 2023

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 31.12.2022.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31- दिसंबर -2022 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 31st December 2022, is available at the NLDC website.

धन्यवाद,

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 01-Jan-2023

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)	53215	56633	43226	20332	2648	176054
Peak Shortage (MW)	619	0	0	381	0	1000
Energy Met (MU)	1153	1419	1046	415	48	4081
Hydro Gen (MU)	106	40	93	28	11	277
Wind Gen (MU)	13	98	21	-	-	132
Solar Gen (MU)*	100.15	54.00	115.45	2.62	0.65	273
Energy Shortage (MU)	4.31	0.00	0.47	1.94	0.00	6.72
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59306	70056	54503	21269	2749	205031
Time Of Maximum Demand Met (From NLDC SCADA)	10:52	10:33	10:43	18:27	17:20	10:43

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	0.065	0.00	1.00	6.79	7.79	65.39	26.83

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	7734	0	144.4	47.6	-1.5	125	0.00
	Haryana	7223	0	138.4	70.1	-0.5	175	0.00
	Rajasthan	16398	0	311.8	116.8	-0.5	210	3.03
	Delhi	4455	0	73.9	66.9	-1.9	227	0.00
	UP	18878	0	340.6	78.7	-1.4	304	0.00
	Uttarakhand	2203	0	42.5	31.3	-0.2	172	0.90
	HP	1967	38	35.7	28.0	0.0	165	0.24
	J&K(UT) & Ladakh(UT)	2826	0	62.0	59.9	-1.7	73	0.14
	Chandigarh	247	0	4.0	4.3	-0.3	29	0.00
	Chhattisgarh	4741	0	103.4	48.9	-1.8	219	0.00
WR	Gujarat	19491	0	382.5	194.6	-6.0	974	0.00
	MP	16956	0	325.6	191.9	0.0	309	0.00
	Maharashtra	26531	0	537.4	187.7	0.3	657	0.00
	Goa	652	0	14.0	13.5	0.0	37	0.00
	DNHDDPDCL	1161	0	26.8	27.3	-0.5	56	0.00
	AMNSIL	783	0	16.8	10.5	-0.2	299	0.00
SR	BALCO	519	0	12.4	12.4	0.0	4	0.00
	Andhra Pradesh	10268	0	199.7	89.7	-0.9	384	0.00
	Telangana	13723	0	232.1	110.0	-0.7	372	0.00
	Karnataka	13135	0	227.7	95.5	0.1	754	0.47
	Kerala	3844	0	76.6	55.7	0.1	181	0.00
	Tamil Nadu	14738	0	301.6	164.4	-1.6	604	0.00
	Puducherry	385	0	8.6	8.2	-0.4	29	0.00
ER	Bihar	5089	0	90.6	80.6	-1.8	174	0.00
	DVC	3517	0	72.8	-42.5	0.2	381	0.00
	Jharkhand	1522	0	30.3	22.5	-1.0	77	1.94
	Odisha	4753	0	96.3	30.0	-4.3	284	0.00
	West Bengal	6691	0	122.6	-8.7	-2.0	506	0.00
NER	Sikkim	112	0	1.9	1.9	0.0	12	0.00
	Arunachal Pradesh	141	0	2.6	2.6	-0.1	25	0.00
	Assam	1508	0	26.2	19.5	-0.1	92	0.00
	Manipur	236	0	3.6	3.6	0.0	28	0.00
	Meghalaya	396	0	7.7	6.3	-0.1	34	0.00
	Mizoram	136	0	2.2	1.9	-0.3	11	0.00
	Nagaland	152	0	2.3	2.3	-0.1	12	0.00
	Tripura	226	0	3.8	1.8	-0.1	25	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-0.7	-6.8	-20.2
Day Peak (MW)	-122.9	-419.4	-1051.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	162.7	-122.9	153.5	-192.0	-1.3	0.0
Actual(MU)	152.9	-131.8	172.6	-199.8	-0.9	-7.0
O/D/U/D(MU)	-9.8	-8.9	19.1	-7.8	0.5	-7.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5993	12541	6858	2110	459	27961	49
State Sector	5300	14726	8043	1410	98	29577	51
Total	11293	27267	14901	3520	557	57537	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	796	1409	575	652	15	3448	78
Lignite	22	11	31	0	0	64	1
Hvdro	106	36	94	28	11	276	6
Nuclear	25	37	66	0	0	128	3
Gas, Naptha & Diesel	14	9	6	0	29	58	1
RES (Wind, Solar, Biomass & Others)	137	154	159	3	1	453	10
Total	1100	1656	932	683	55	4426	100
Share of RES in total generation (%)	12.41	9.30	17.11	0.39	1.79	10.23	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.37	13.71	34.32	4.54	21.81	19.35	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.014
Based on State Max Demands	1.041

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-Jan-2023

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	2	0	346	0.0	8.3	-8.3	
3	765 kV	GAYA-VARANASI	2	0	825	0.0	14.1	-14.1	
4	765 kV	SASARAM-FATEHPUR	1	0	493	0.0	7.8	-7.8	
5	765 kV	GAYA-BALIA	1	0	611	0.0	10.1	-10.1	
6	400 kV	PUSAULI-VARANASI	1	0	238	0.0	4.9	-4.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	187	0.0	3.4	-3.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	839	0.0	12.8	-12.8	
9	400 kV	PATNA-BALIA	2	0	567	0.0	10.4	-10.4	
10	400 kV	NAUBATPUR-BALIA	2	0	609	0.0	11.4	-11.4	
11	400 kV	BIHARSHARIFF-BALIA	2	0	354	0.0	5.2	-5.2	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	571	0.0	10.1	-10.1	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	351	0.0	5.4	-5.4	
14	220 kV	SINPUR-BIKRAMNASHA	1	11	96	0.0	1.1	-1.1	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3	
17	132 kV	KARMANASA-SAHUPURI	1	4	47	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.3	105.0	-104.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	936	390	3.8	0.0	3.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	275	1014	0.0	7.9	-7.9	
3	765 kV	JHARSUGUDA-DURG	2	0	573	0.0	9.4	-9.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	630	0.0	9.8	-9.8	
5	400 kV	RANCHI-SIPAT	2	42	324	0.0	3.2	-3.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	159	0.0	2.4	-2.4	
7	220 kV	BUDHIPADAR-KORBA	2	75	88	0.0	0.2	-0.2	
						ER-WR	3.8	32.9	-29.1
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	550	0.0	12.6	-12.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2467	0.0	45.3	-45.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3283	0.0	60.7	-60.7	
4	400 kV	TALCHER-I/C	2	0	1177	0.0	12.8	-12.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	118.6	-118.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	197	75	2.5	0.0	2.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	642	102	8.5	0.0	8.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	48	18	0.6	0.0	0.6	
						ER-NER	11.6	0.0	11.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	483	0	11.5	0.0	11.5	
						NER-NR	11.5	0.0	11.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1519	0.0	37.2	-37.2	
2	HVDC	VINDHYACHAL B/B	2	226	0	6.1	0.0	6.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	977	0	23.3	0.0	23.3	
4	765 kV	GWALIOR-AGRA	2	178	1573	0.2	17.7	-17.6	
5	765 kV	GWALIOR-PHAGI	2	0	2046	0.0	30.3	-30.3	
6	765 kV	JABALPUR-ORAI	2	0	901	0.0	22.5	-22.5	
7	765 kV	GWALIOR-ORAI	1	995	0	16.6	0.0	16.6	
8	765 kV	SATNA-ORAI	1	0	957	0.0	18.0	-18.0	
9	765 kV	BANASKANTHA-CHITORGARH	2	1581	262	12.0	0.0	12.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1958	0.0	26.3	-26.3	
11	400 kV	ZERDA-KANKROLI	1	207	108	1.0	0.0	1.0	
12	400 kV	ZERDA-BHINMAL	1	325	342	0.9	0.0	0.9	
13	400 kV	VINDHYACHAL-RIHAND	1	955	0	21.6	0.0	21.6	
14	400 kV	RAPP-SHULIAPUR	2	410	513	0.0	1.2	-1.2	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7	
17	220 kV	MEHGAON-AURAIYA	1	129	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	88	0	1.7	0.0	1.7	
19	132 kV	GWALIOR-SAWAIMADHOPUR	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	84.5	154.9	-70.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	297	1009	0.0	14.5	-14.5	
2	HVDC	RAIGARH-PUGALUR	2	713	4004	0.0	23.8	-23.8	
3	765 kV	SOLAPUR-RAICHUR	2	210	1835	0.0	19.8	-19.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	3598	0.0	53.2	-53.2	
5	400 kV	KOLHAPUR-KUDCI	2	1290	0	19.1	0.0	19.1	
6	220 kV	KOLHAPUR-CHIKODI	1	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	123	2.5	0.0	2.5	
						WR-SR	21.6	111.2	-89.6
INTERNATIONAL EXCHANGES									
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)	0	0	0	-1.35			
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	195	28	101	2.42			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.59			
	NER	132kV GELEPHU-SALAKATI	-20	-7	-13	-0.32			
	NER	132kV MOTANGA-RANGIA	21	5	7	0.16			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-52	-1.24			
	ER	NEPAL IMPORT (FROM BIHAR)	-86	-56	-57	-1.38			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-266	-20	-173	-4.14			
	NER	BHERAMARA B/B HVDC (BANGLADESH)	-939	-586	-749	-17.99			
	NER	132kV COMILLA-SURAJMANJANAGAR 1&2	-112	0	-93	-2.22			