



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: 23rd 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 22.01.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22- जनवरी -2023 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 22nd January 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 23-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)	50720	55575	39584	20251	2629	168759
Peak Shortage (MW)	83	0	0	255	0	338
Energy Met (MU)	1128	1383	1024	423	47	4005
Hydro Gen (MU)	107	47	67	27	9	255
Wind Gen (MU)	31	79	62	-	-	172
Solar Gen (MU)*	86.95	53.27	114.37	2.32	0.79	258
Energy Shortage (MU)	0.41	0.00	0.00	2.05	0.00	2.46
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59017	67578	54499	20919	2707	201944
Time Of Maximum Demand Met (From NLDC SCADA)	10:13	10:49	09:53	18:24	17:48	10:13

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	0.075	0.00	0.84	6.20	7.05	64.89	28.06

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	7610	0	148.4	44.4	-1.5	82	0.00
	Haryana	6599	0	129.0	69.9	-0.9	172	0.00
	Rajasthan	17070	0	307.3	109.8	-1.3	202	0.00
	Delhi	4541	0	73.0	65.8	-2.0	242	0.00
	UP	17560	0	328.9	84.1	-0.1	311	0.00
	Uttarakhand	2235	0	40.5	29.7	-0.4	96	0.21
	HP	1880	0	33.0	26.8	-0.1	107	0.00
	J&K(UT) & Ladakh(UT)	2974	0	63.9	62.8	-2.9	142	0.20
	Chandigarh	245	0	3.9	4.1	-0.2	36	0.00
	Chhattisgarh	4911	0	106.7	53.9	0.2	202	0.00
WR	Gujarat	17984	0	368.3	186.2	-5.8	471	0.00
	MP	16234	0	308.3	186.9	0.0	396	0.00
	Maharashtra	26356	0	530.1	167.7	-4.3	670	0.00
	Goa	575	0	12.6	11.1	1.1	40	0.00
	DNHDDPDCL	1153	0	27.0	27.1	-0.1	47	0.00
	AMNSIL	752	0	17.2	9.9	0.3	247	0.00
	BALCO	516	0	12.3	12.4	-0.1	8	0.00
	Andhra Pradesh	11158	0	200.4	73.9	-1.3	333	0.00
	Telangana	13019	0	228.9	113.5	-0.4	383	0.00
	Karnataka	13361	0	228.8	77.9	-2.1	731	0.00
SR	Kerala	3460	0	68.2	55.9	0.0	200	0.00
	Tamil Nadu	14558	0	290.3	154.9	0.1	807	0.00
	Puducherry	344	0	7.8	7.8	-0.7	13	0.00
	Bihar	5208	0	93.4	83.1	-1.7	165	0.39
	DVC	3628	0	74.3	-38.4	-0.2	264	0.00
	Jharkhand	1571	56	28.5	21.9	-2.2	43	1.66
	Odisha	4952	0	97.3	34.9	-1.5	119	0.00
	West Bengal	6675	0	127.5	-0.8	-2.7	221	0.00
	Sikkim	109	0	1.7	1.9	-0.2	2	0.00
	NER	Arunachal Pradesh	158	0	2.4	2.7	-0.4	34
Assam		1499	0	26.1	18.9	0.7	125	0.00
Manipur		237	0	3.4	3.4	0.0	44	0.00
Meghalaya		373	0	7.1	6.4	-0.1	26	0.00
Mizoram		129	0	2.2	1.7	-0.1	12	0.00
Nagaland		151	0	2.2	2.1	-0.1	23	0.00
Tripura		227	0	3.8	2.4	-0.1	45	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-3.0	-10.4	-23.6
Day Peak (MW)	-288.5	-538.8	-1042.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	147.5	-112.4	120.1	-154.5	-0.7	0.0
Actual(MU)	142.1	-103.7	119.0	-163.9	-0.2	-6.7
O/D/U/D(MU)	-5.4	8.7	-1.0	-9.4	0.5	-6.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6628	14051	7348	1595	519	30140	51
State Sector	7235	12903	7068	1790	119	29115	49
Total	13863	26954	14416	3385	638	59255	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	754	1354	575	649	13	3345	77
Lignite	28	14	50	0	0	92	2
Hydro	107	47	67	27	9	255	6
Nuclear	26	37	77	0	0	140	3
Gas, Naptha & Diesel	12	6	5	0	31	54	1
RES (Wind, Solar, Biomass & Others)	145	135	199	2	1	482	11
Total	1070	1592	972	678	53	4366	100

Share of RES in total generation (%)	13.50	8.46	20.50	0.34	1.49	11.03
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.90	13.72	35.21	4.32	17.51	20.07

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.014
Based on State Max Demands	1.040

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.

**Note: All generation MU figures are gross

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve)/Export=(-ve) for NET (MU)
Date of Reporting: 23-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	-	0	296	0.0	7.3	-7.3	
3	765 kV	GAYA-VARANASI	2	0	644	0.0	10.5	-10.5	
4	765 kV	SASARAM-FAITEHPUR	1	0	440	0.0	8.3	-8.3	
5	765 kV	GAYA-BALIA	1	0	655	0.0	10.5	-10.5	
6	400 kV	PUSAULI-VARANASI	1	0	201	0.0	4.1	-4.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	173	0.0	3.1	-3.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	633	0.0	8.4	-8.4	
9	400 kV	PATNA-BALIA	2	0	624	0.0	12.4	-12.4	
10	400 kV	NAUBATTI-BALIA	2	0	673	0.0	13.4	-13.4	
11	400 kV	BIHARSHARIFE-BALIA	2	0	391	0.0	6.5	-6.5	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	471	0.0	7.9	-7.9	
13	400 kV	BIHARSHARIFE-VARANASI	2	0	308	0.0	4.7	-4.7	
14	220 kV	SAHUPUR-CHAMANASA	1	0	117	0.0	1.3	-1.3	
15	132 kV	NAGAR-UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4	
17	132 kV	KARMANASA-SAHUPURI	1	3	0	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	98.3	-97.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	633	496	0.6	0.0	0.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	450	788	0.0	4.6	-4.6	
3	765 kV	JHARSUGUDA-DURG	2	0	458	0.0	9.0	-9.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	616	0.0	10.4	-10.4	
5	400 kV	RANCHI-SIPAT	2	88	266	0.0	2.2	-2.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	187	0.0	3.1	-3.1	
7	220 kV	BUDHIPADAR-KORBA	2	40	121	0.0	1.1	-1.1	
						ER-WR	0.6	30.4	-29.8
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	651	0.0	15.0	-15.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1983	0.0	37.4	-37.4	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2620	0.0	46.2	-46.2	
4	400 kV	TALCHER-UC	2	651	266	6.5	0.0	6.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	98.6	-98.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	214	17	1.9	0.0	1.9	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	761	0	8.0	0.0	8.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	68	0	0.8	0.0	0.8	
						ER-NER	10.8	0.0	10.8
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	466	0	11.2	0.0	11.2	
						NER-NR	11.2	0.0	11.2
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1009	0.0	23.2	-23.2	
2	HVDC	VINDHYACHAL B/B	-	445	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	0	0.0	0.0	0.0	
4	765 kV	GWALIOR-AGRA	2	48	1911	0.0	19.8	-19.8	
5	765 kV	GWALIOR-PHAGI	2	0	1878	0.0	31.9	-31.9	
6	765 kV	JABALPUR-ORAI	2	0	830	0.0	23.0	-23.0	
7	765 kV	GWALIOR-ORAI	1	963	0	17.4	0.0	17.4	
8	765 kV	SATNA-ORAI	1	0	911	0.0	17.9	-17.9	
9	765 kV	BANASKANTHA-CHITORGARH	2	1846	0	22.0	0.0	22.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2124	0.0	32.1	-32.1	
11	400 kV	ZERDA-KANKROLI	1	226	0	2.7	0.0	2.7	
12	400 kV	ZERDA-BHINMAL	1	386	26	3.2	0.0	3.2	
13	400 kV	VINDHYACHAL -RIHAND	1	960	0	21.8	0.0	21.8	
14	400 kV	RAPP-SHUJALPUR	2	267	371	1.1	1.8	-0.7	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6	
17	220 kV	MEHGAON-AURAIYA	1	118	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	87	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	83.1	151.3	-68.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	304	1012	0.0	10.5	-10.5	
2	HVDC	RAIGARH-PUGALUR	2	0	3503	0.0	44.3	-44.3	
3	765 kV	SOLAPUR-RAICHUR	2	1202	1293	5.5	8.6	-3.1	
4	765 kV	WARDHA-NIZAMABAD	2	0	2685	0.0	31.8	-31.8	
5	400 kV	KOLHAPUR-KUDGI	2	1399	0	22.9	0.0	22.9	
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	82	1.5	0.0	1.5	
						WR-SR	29.9	95.2	-65.3

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)	0	0	0	-2.10	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*120MW)	175	0	50	0.56	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*90MW)	0	0	0	-1.99	
	NER	132kV GELEPHU-SALAKATI	22	12	17	0.42	
	NER	132kV MOTANGA-RANGIA	4	-20	3	0.08	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-65	-1.55	
	ER	NEPAL IMPORT (FROM BIHAR)	-95	-18	-76	-1.81	
	ER	400kV DHALKHEBAR-MUZAFFARPUR 1&2	-371	-221	-293	-7.03	
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-928	-786	-889	-21.34	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-114	0	-96	-2.30	