



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: 29th 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 28.01.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28- 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 28th January 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 29-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)	50762	57485	43434	20467	2682	174830
Peak Shortage (MW)	1038	0	0	339	0	1377
Energy Met (MU)	1118	1380	1081	430	48	4057
Hydro Gen (MU)	110	31	78	31	9	258
Wind Gen (MU)	28	110	63	-	-	201
Solar Gen (MU)*	124.36	51.24	134.49	2.88	0.69	314
Energy Shortage (MU)	3.05	0.00	0.00	1.87	0.00	4.92
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58743	67491	57024	21429	2778	204140
Time Of Maximum Demand Met (From NLDC SCADA)	10:45	10:24	10:26	18:26	18:02	10:20

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	0.073	0.16	1.38	9.25	10.79	63.07	26.14

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	7759	0	144.2	45.5	-0.5	179	1.60
	Haryana	7430	0	143.5	67.7	0.4	542	0.84
	Rajasthan	16910	0	301.1	75.0	-1.6	167	0.00
	Delhi	4358	0	74.0	61.3	-0.3	173	0.00
	UP	17844	0	311.1	74.6	1.2	557	0.58
	Uttarakhand	2270	30	42.5	33.4	0.2	157	0.03
	HP	1955	0	34.4	27.9	-0.1	58	0.00
	J&K(UT) & Ladakh(UT)	2939	0	63.5	61.2	-2.2	27	0.00
	Chandigarh	239	0	3.9	4.0	-0.1	19	0.00
	Chhattisgarh	5034	0	111.3	60.0	-0.2	310	0.00
WR	Gujarat	18026	0	373.9	22.2	1.8	864	0.00
	MP	14852	0	281.1	168.0	-4.3	287	0.00
	Maharashtra	26872	0	545.6	177.9	-0.3	776	0.00
	Goa	647	0	12.8	12.5	-0.2	44	0.00
	DNHDDPDCL	1221	0	28.0	28.2	-0.2	44	0.00
	AMNSIL	716	0	14.9	8.5	0.1	329	0.00
	BALCO	519	0	12.3	12.4	-0.1	11	0.00
	Andhra Pradesh	11278	0	205.3	70.7	0.0	602	0.00
	Telangana	13296	0	232.7	92.6	1.5	738	0.00
	Karnataka	14031	0	242.8	81.5	-1.1	710	0.00
SR	Kerala	3803	0	75.8	59.0	0.2	256	0.00
	Tamil Nadu	16001	0	316.0	176.6	0.2	762	0.00
	Puducherry	385	0	8.4	8.2	-0.5	67	0.00
	Bihar	4933	199	86.4	76.8	-2.0	249	0.23
	DVC	3561	47	74.4	44.2	-0.3	280	0.00
	Jharkhand	1589	0	28.3	22.1	-2.8	76	1.64
	Odisha	4801	0	104.1	35.0	-3.4	73	0.00
	West Bengal	7448	0	135.4	5.8	-2.9	840	0.00
	Sikkim	131	0	1.9	2.0	-0.1	35	0.00
	NER	Arunachal Pradesh	165	0	2.6	2.9	-0.4	28
Assam		1545	0	26.6	20.3	-0.1	115	0.00
Manipur		229	0	3.3	3.3	0.0	22	0.00
Meghalaya		378	0	7.1	6.4	-0.2	24	0.00
Mizoram		140	0	2.1	1.7	-0.1	10	0.00
Nagaland		142	0	2.1	2.1	-0.1	25	0.00
Tripura		231	0	3.8	2.4	-0.1	17	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	0.1	-10.3	-23.2
Day Peak (MW)	-239.0	-372.7	-1061.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	102.6	-76.2	123.7	-147.6	-2.5	0.0
Actual(MU)	84.2	-68.6	132.4	-154.3	-1.8	-8.1
O/D/U/D(MU)	-18.4	7.7	8.6	-6.7	0.7	-8.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7038	13556	7398	2505	680	31176	48
State Sector	6635	17121	7595	2730	98	34179	52
Total	13673	30677	14993	5235	778	65355	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	753	1300	589	628	14	3284	75
Lignite	30	22	50	0	0	102	2
Hydro	110	31	78	31	9	258	6
Nuclear	26	36	76	0	0	138	3
Gas, Naptha & Diesel	15	3	7	0	32	57	1
RES (Wind, Solar, Biomass & Others)	179	163	218	4	1	565	13
Total	1114	1555	1018	663	56	4405	100

Share of RES in total generation (%)	16.11	10.51	21.44	0.55	1.24	12.84
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.32	14.79	36.61	5.23	16.52	21.83

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.047

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: 29-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	299	0.0	6.9	-6.9	
3	765 kV	GAYA-VARANASI	2	0	905	0.0	14.1	-14.1	
4	765 kV	SASARAM-FAITEHPUR	1	0	462	0.0	7.1	-7.1	
5	765 kV	GAYA-BALIA	1	0	614	0.0	8.5	-8.5	
6	400 kV	PUSAULI-VARANASI	1	0	232	0.0	4.0	-4.0	
7	400 kV	PUSAULI-ALLAHABAD	1	0	163	0.0	2.9	-2.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	813	0.0	8.5	-8.5	
9	400 kV	PATNA-BALIA	2	0	523	0.0	7.6	-7.6	
10	400 kV	NAIBATTI-R-BALIA	2	0	559	0.0	7.9	-7.9	
11	400 kV	BIHARSHARIFE-BALIA	2	111	317	0.0	1.9	-1.9	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	492	0.0	7.0	-7.0	
13	400 kV	BIHARSHARIFE-VARANASI	2	10	379	0.0	3.9	-3.9	
14	220 kV	SAHUPUR-BAKAMANASA	1	24	120	0.0	0.9	-0.9	
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	0	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	81.2	-80.8
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1202	0	17.7	0.0	17.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	171	3	0.0	0.5	-0.5	
3	765 kV	JHARSUGUDA-DURG	2	0	481	0.0	8.5	-8.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	771	0.0	12.2	-12.2	
5	400 kV	RANCHI-SIPAT	2	45	253	0.0	1.4	-1.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	202	0.0	3.5	-3.5	
7	220 kV	BUDHIPADAR-KORBA	2	50	83	0.0	0.6	-0.6	
						ER-WR	17.7	26.6	-9.0
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	817	275	0.0	6.0	-6.0	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1900	0.0	48.0	-48.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3062	0.0	62.0	-62.0	
4	400 kV	TALCHER-I/C	2	0	743	0.0	15.4	-15.4	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	116.1	-116.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	178	50	2.0	0.0	2.0	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	642	60	8.8	0.0	8.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	55	9	0.8	0.0	0.8	
						ER-NER	11.6	0.0	11.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	481	0	10.8	0.0	10.8	
						NER-NR	10.8	0.0	10.8
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	503	0.0	11.3	-11.3	
2	HVDC	VINDHYACHAL B/B	-	203	0	6.6	0.0	6.6	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	0	0.0	0.0	0.0	
4	765 kV	GWALIOR-AGRA	4	119	1963	0.0	23.9	-23.9	
5	765 kV	GWALIOR-PHAGI	2	0	1721	0.0	27.3	-27.3	
6	765 kV	JABALPUR-ORAI	2	0	965	0.0	22.5	-22.5	
7	765 kV	GWALIOR-ORAI	1	1072	0	17.1	0.0	17.1	
8	765 kV	SATNA-ORAI	1	0	951	0.0	17.0	-17.0	
9	765 kV	BANASKANTHA-CHITORGARH	2	2972	0	35.8	0.0	35.8	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1665	0.0	21.3	-21.3	
11	400 kV	ZERDA-KANKROLI	1	504	0	5.7	0.0	5.7	
12	400 kV	ZERDA-BHINMAL	1	690	33	7.6	0.0	7.6	
13	400 kV	VINDHYACHAL-RIHAND	1	967	0	22.0	0.0	22.0	
14	400 kV	RAPP-SHUJALPUR	2	446	408	2.7	1.6	1.1	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6	
17	220 kV	MEHGAON-AURAIYA	1	110	0	1.0	0.0	1.0	
18	220 kV	MALANPUR-AURAIYA	1	87	0	1.5	0.0	1.5	
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	99.9	126.5	-26.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	8.2	-8.2	
2	HVDC	RAIGARH-PUGALUR	-	577	2001	0.0	1.6	-1.6	
3	765 kV	SOLAPUR-RAICHUR	2	442	2089	0.4	19.3	-18.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2341	0.0	42.8	-42.8	
5	400 kV	KOLHAPUR-KUDGI	2	1346	0	20.1	0.0	20.1	
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	1	98	1.4	0.0	1.4	
						WR-SR	21.9	71.9	-50.0

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)	0	0	0	-1.97
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*120MW)	171	0	69	1.65
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*90MW)	0	0	0	0.00
	NER	132kV GELEPHU-SALAKATI	22	0	18	0.43
	NER	132kV MOTANGA-RANGIA	-14	0	-2	-0.04
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-56	-1.34
	ER	NEPAL IMPORT (FROM BIHAR)	84	43	-70	-1.68
	ER	400kV DHALKHEBAR-MUZAFFARPUR 1&2	-382	-86	-304	-7.29
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-928	-745	-854	-20.50
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-133	0	-111	-2.66