



National Load Despatch Centre

राष्ट्रीय भार प्रेषण केंद्र

GRID CONTROLLER OF INDIA LIMITED

ग्रिड 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: 12th 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 11.01.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11- जनवरी -2023 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 11th January 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 12-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)	55718	59237	43563	20490	2658	181666
Peak Shortage (MW)	1737	25	0	735	62	2559
Energy Met (MU)	1236	1426	1055	430	46	4193
Hydro Gen (MU)	113	45	101	34	11	304
Wind Gen (MU)	20	60	31	-	-	110
Solar Gen (MU)*	103.88	55.58	131.70	3.67	0.49	295
Energy Shortage (MU)	29.62	1.04	0.00	4.70	1.65	37.01
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63098	69581	55811	21698	2749	206839
Time Of Maximum Demand Met (From NLDC SCADA)	12:45	10:21	10:20	18:15	17:18	10:19

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	0.086	0.94	3.33	7.59	11.86	64.07	24.07

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	8456	0	158.0	44.2	-0.1	123	3.61	
	Haryana	8204	0	152.4	86.2	-0.4	204	4.80	
	Rajasthan	16380	0	309.8	106.1	0.7	216	12.26	
	Delhi	5376	0	89.0	75.2	-1.2	310	0.00	
	UP	20033	0	378.6	118.1	0.8	355	4.26	
	Uttarakhand	2294	110	42.7	30.5	0.6	176	4.65	
	HP	2046	0	36.9	30.2	0.4	211	0.04	
	J&K(UT) & Ladakh(UT)	2918	0	63.3	60.7	-1.5	252	0.00	
	Chandigarh	317	0	5.4	4.9	0.5	93	0.00	
	Chhattisgarh	4743	50	102.7	52.7	-0.8	593	0.91	
WR	Gujarat	18192	0	386.1	187.8	-7.6	419	0.00	
	MP	17236	0	326.1	192.1	-3.5	280	0.00	
	Maharashtra	26888	0	544.1	171.0	-0.4	602	0.00	
	Goa	586	25	12.8	11.7	0.5	56	0.13	
	DNHDDPDCL	1230	0	28.2	28.3	-0.1	69	0.00	
	AMNSIL	620	0	13.8	9.0	-0.3	217	0.00	
	BALCO	520	0	12.4	12.4	0.0	9	0.00	
	Andhra Pradesh	10889	0	196.3	85.3	-0.4	620	0.00	
	Telangana	13045	0	227.2	91.0	0.2	622	0.00	
	Karnataka	13448	0	236.4	70.1	2.0	717	0.00	
SR	Kerala	3870	0	75.6	57.9	-0.1	186	0.00	
	Tamil Nadu	15407	0	311.1	182.9	-1.5	593	0.00	
	Puducherry	399	0	8.5	8.9	-0.7	27	0.00	
	Bihar	5589	511	101.5	89.6	-0.2	216	1.20	
	DVC	3544	0	75.4	46.0	0.8	284	0.00	
	Jharkhand	1614	162	30.1	22.2	-1.2	69	3.50	
	Odisha	4587	0	89.0	29.9	-4.6	220	0.00	
	West Bengal	6954	0	131.5	0.4	-2.3	184	0.00	
	Sikkim	129	0	2.0	2.0	0.0	36	0.00	
	NER	Arunachal Pradesh	164	0	2.7	2.7	-0.1	37	0.00
Assam		1538	0	25.2	18.9	0.0	160	1.27	
Manipur		214	7	3.1	2.9	0.2	59	0.23	
Meghalaya		398	0	7.2	5.2	0.0	39	0.15	
Mizoram		137	0	2.1	1.4	-0.1	31	0.00	
Nagaland		140	0	1.9	1.5	0.3	65	0.00	
Tripura		226	0	4.0	1.5	0.5	83	0.00	
ER		Bihar	5589	511	101.5	89.6	-0.2	216	1.20
		DVC	3544	0	75.4	46.0	0.8	284	0.00
		Jharkhand	1614	162	30.1	22.2	-1.2	69	3.50
	Odisha	4587	0	89.0	29.9	-4.6	220	0.00	
NER	West Bengal	6954	0	131.5	0.4	-2.3	184	0.00	
	Sikkim	129	0	2.0	2.0	0.0	36	0.00	
	Arunachal Pradesh	164	0	2.7	2.7	-0.1	37	0.00	
	Assam	1538	0	25.2	18.9	0.0	160	1.27	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.3	-7.4	-22.5
Day Peak (MW)	-184.7	-411.6	-1048.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	192.3	-169.6	134.7	-160.9	3.5	0.0
Actual(MU)	194.9	-174.5	132.9	-166.1	5.3	-7.5
O/D/U/D(MU)	2.6	-5.0	-1.8	-5.2	1.8	-7.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6630	11981	9048	2870	634	31163	52
State Sector	7460	11801	6848	2488	98	28694	48
Total	14090	23781	15896	5358	732	59856	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	799	1490	574	634	16	3514	77
Lignite	31	12	52	0	0	95	2
Hydro	113	45	101	34	11	304	7
Nuclear	26	37	71	0	0	134	3
Gas, Naptha & Diesel	21	14	5	0	20	60	1
RES (Wind, Solar, Biomass & Others)	150	117	187	4	0	458	10
Total	1140	1716	990	672	47	4565	100

Share of RES in total generation (%)	13.13	6.84	18.86	0.54	1.04	10.03
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.34	11.61	36.25	5.66	23.77	19.63

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.056

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: 12-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	5.2	-5.2
3	765 kV	GAYA-VARANASI	2	0	851	0.0	12.9	-12.9
4	765 kV	SASARAM-FAITEHPUR	1	0	444	0.0	7.8	-7.8
5	765 kV	GAYA-BALIA	1	0	768	0.0	13.7	-13.7
6	400 kV	PUSAULI-VARANASI	1	17	204	0.0	2.5	-2.5
7	400 kV	PUSAULI-ALLAHABAD	1	4	196	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	675	0.0	9.4	-9.4
9	400 kV	PATNA-BALIA	2	0	507	0.0	9.9	-9.9
10	400 kV	NAIBATTI-R-BALIA	2	0	539	0.0	10.4	-10.4
11	400 kV	BIHARSHARIFE-BALIA	2	0	311	0.0	5.8	-5.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	459	0.0	7.5	-7.5
13	400 kV	BIHARSHARIFE-VARANASI	2	0	361	0.0	4.5	-4.5
14	220 kV	SAHUPUR-BAKAMANASA	1	6	131	0.0	1.8	-1.8
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	4	34	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.4	94.4	-94.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	21	984	0.0	9.9	-9.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	442	969	0.0	6.0	-6.0
3	765 kV	JHARSUGUDA-DURG	2	0	766	0.0	9.6	-9.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	820	0.0	13.1	-13.1
5	400 kV	RANCHI-SIPAT	2	70	359	0.0	3.0	-3.0
6	220 kV	BUDHIPADAR-RAIGARH	1	1	127	0.0	3.2	-3.2
7	220 kV	BUDHIPADAR-KORBA	2	17	75	0.0	1.1	-1.1
ER-WR						0.0	45.8	-45.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	643	0.0	14.8	-14.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	12	4	0.0	0.0	0.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	3373	0.0	54.3	-54.3
4	400 kV	TALCHER-IC	2	1430	0	32.5	0.0	32.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	69.1	-69.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAOON	2	104	33	0.8	0.0	0.8
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	383	0	4.3	0.0	4.3
3	220 kV	ALIPURDUAR-SALAKATI	2	34	5	0.4	0.0	0.4
ER-NER						5.5	0.0	5.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	472	0	11.3	0.0	11.3
NER-NR						11.3	0.0	11.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1993	0.0	32.3	-32.3
2	HVDC	VINDHYACHAL B/B	-	61	101	0.8	0.8	0.1
3	HVDC	MUNDRA-MOHENDERGARH	2	250	0	1.8	0.0	1.8
4	765 kV	GWALIOR-AGRA	2	0	2118	0.0	28.3	-28.3
5	765 kV	GWALIOR-PHAGI	2	0	1998	0.0	32.8	-32.8
6	765 kV	JABALPUR-ORAI	2	0	1164	0.0	32.6	-32.6
7	765 kV	GWALIOR-ORAI	1	997	0	16.7	0.0	16.7
8	765 kV	SATNA-ORAI	1	0	1084	0.0	19.6	-19.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1512	305	17.9	0.4	17.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2853	0.0	38.1	-38.1
11	400 kV	ZERDA-KANKROLI	1	225	62	2.5	0.0	2.5
12	400 kV	ZERDA-BHINMAL	1	506	217	2.9	0.0	2.9
13	400 kV	VINDHYACHAL -RIHAND	1	964	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	304	577	1.4	3.9	-2.5
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	120	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	89	13	1.4	0.0	1.4
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						68.1	190.5	-122.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	15.8	-15.8
2	HVDC	RAIGARH-PUGALUR	-	0	4006	0.0	55.4	-55.4
3	765 kV	SOLAPUR-RAICHUR	2	675	2173	1.3	12.2	-10.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2965	0.0	36.5	-36.5
5	400 kV	KOLHAPUR-KUDGI	2	1215	0	19.9	0.0	19.9
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	1	72	0.9	0.0	0.9
WR-SR						22.2	120.0	-97.8

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	0	0	0	-1.59
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	180	0	83	2.00
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*90MW)	0	0	0	-1.45
	NER	132kV GELEPHU-SALAKATI	-19	-1	-13	-0.31
	NER	132kV MOTANGA-RANGIA	18	-13	3	0.07
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-61	-1.46
	ER	NEPAL IMPORT (FROM BIHAR)	-16	-3	-11	-0.26
	ER	400kV DHALKHEBAR-MUZAFFARPUR 1&2	-320	-162	-236	-5.67
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-934	-648	-842	-20.22
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-114	0	-95	-2.29