



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: 14th 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 13.01.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13- 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 13th January 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 14-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)	51774	58313	43200	21269	2648	177204
Peak Shortage (MW)	1158	0	0	593	44	1795
Energy Met (MU)	1153	1442	1077	442	48	4162
Hydro Gen (MU)	111	40	105	33	9	299
Wind Gen (MU)	6	51	26	-	-	84
Solar Gen (MU)*	85.45	55.23	122.43	2.33	0.54	266
Energy Shortage (MU)	41.15	0.00	0.92	5.83	0.51	48.41
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57578	70284	57453	21891	2785	204646
Time Of Maximum Demand Met (From NLDC SCADA)	12:42	10:23	10:29	18:44	18:03	10:29

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	0.127	2.30	4.04	11.12	17.46	58.36	24.18

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	7851	0	146.7	41.8	-0.7	221	0.90
	Haryana	7855	0	148.3	74.0	-0.8	184	1.20
	Rajasthan	15450	900	282.8	110.8	0.7	209	28.70
	Delhi	5050	0	83.2	72.4	-2.8	277	0.00
	UP	18505	0	350.9	126.2	-0.3	1032	8.81
	Uttarakhand	2324	0	43.0	32.0	-0.4	189	1.31
	HP	1955	0	34.8	28.4	-0.1	142	0.07
	J&K(UT) & Ladakh(UT)	2740	0	59.0	59.1	-4.3	96	0.16
WR	Chhattisgarh	279	0	4.5	4.6	-0.1	26	0.00
	Chhattisgarh	4963	0	106.7	53.7	0.0	204	0.00
	Gujarat	19154	0	391.3	190.8	-3.2	969	0.00
	MP	17238	0	328.0	190.4	0.0	423	0.00
	Maharashtra	27269	0	547.0	163.4	0.9	566	0.00
	Goa	637	0	13.6	11.9	1.3	54	0.00
	DNHDDPDCL	1230	0	28.2	28.5	-0.3	49	0.00
	AMNSIL	671	0	15.2	5.9	0.1	251	0.00
SR	BALCO	520	0	12.4	12.4	0.0	18	0.00
	Andhra Pradesh	11000	0	199.3	92.0	-0.7	476	0.00
	Telangana	13601	0	234.5	98.6	-0.9	834	0.00
	Karnataka	14303	0	249.2	79.3	0.8	903	0.92
	Kerala	3776	0	74.0	15.6	-1.5	153	0.00
	Tamil Nadu	15823	0	311.2	171.3	-0.4	908	0.00
	Puducherry	399	0	8.6	8.5	-0.4	32	0.00
	Bihar	5493	255	101.8	91.2	-2.3	255	1.10
ER	DVC	3575	0	75.0	46.6	-0.5	400	0.00
	Jharkhand	1497	330	28.2	20.5	-1.8	129	4.73
	Odisha	5384	0	101.1	39.0	-2.2	479	0.00
	West Bengal	6895	0	133.9	2.2	-2.0	443	0.00
	Sikkim	124	0	2.0	2.0	0.0	14	0.00
NER	Arunachal Pradesh	158	0	2.6	2.7	-0.2	34	0.00
	Assam	1526	0	26.4	20.6	0.2	114	0.51
	Manipur	236	0	3.4	3.3	0.0	32	0.00
	Meghalaya	401	0	7.3	6.3	-0.1	28	0.00
	Mizoram	144	0	2.1	1.8	-0.2	12	0.00
	Nagaland	142	0	2.1	2.0	-0.1	40	0.00
Tripura	233	0	3.9	1.8	-0.2	16	0.00	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-0.5	-9.8	-17.8
Day Peak (MW)	-166.2	-508.6	-883.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	191.8	-180.0	153.8	-164.7	-0.9	0.0
Actual(MU)	192.7	-183.4	158.2	-172.5	-1.2	-6.3
O/D/U/D(MU)	0.9	-3.4	4.4	-7.9	-0.3	-6.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6004	13181	8548	2460	484	30677	48
State Sector	8835	13561	7678	3088	119	33280	52
Total	14839	26741	16226	5548	603	63956	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	763	1512	581	646	16	3519	78
Lignite	21	12	48	0	0	81	2
Hvdro	111	40	105	33	9	299	7
Nuclear	26	37	69	0	0	132	3
Gas, Naptha & Diesel	20	15	5	0	29	69	2
RES (Wind, Solar, Biomass & Others)	119	109	176	2	1	406	9
Total	1060	1724	985	682	55	4506	100

Share of RES in total generation (%)	11.19	6.31	17.85	0.34	1.01	9.01
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.15	10.76	35.56	5.19	17.30	18.57

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.067

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: 14-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-BR	-	0	206	0.0	7.3	-7.3	
3	765 kV	GAYA-VARANASI	2	0	843	0.0	14.8	-14.8	
4	765 kV	SASARAM-FAHEHPUR	1	0	318	0.0	5.1	-5.1	
5	765 kV	GAYA-BALIA	1	0	697	0.0	11.7	-11.7	
6	400 kV	PUSAULI-VARANASI	1	0	100	0.0	3.0	-3.0	
7	400 kV	PUSAULI-ALLAHABAD	1	0	207	0.0	4.8	-4.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	612	0.0	9.7	-9.7	
9	400 kV	PATNA-BALIA	2	0	574	0.0	11.9	-11.9	
10	400 kV	NAUBATPUR-BALIA	2	0	611	0.0	12.5	-12.5	
11	400 kV	BIHARSHARIFF-BALIA	2	0	291	0.0	4.3	-4.3	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	430	0.0	7.7	-7.7	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	354	0.0	5.9	-5.9	
14	220 kV	SAHUPURI-KARMANASA	1	15	92	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	4	35	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	99.3	-98.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	838	143	9.5	0.0	9.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	765	810	0.0	2.3	-2.3	
3	765 kV	JHARSUGUDA-DURG	2	0	462	0.0	7.9	-7.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	594	0.0	8.9	-8.9	
5	400 kV	RANCHI-SIPAT	2	139	309	0.0	2.4	-2.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	1	159	0.0	2.9	-2.9	
7	220 kV	BUDHIPADAR-KORBA	2	57	75	0.4	0.0	0.4	
						ER-WR	9.9	24.4	-14.4
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	0	1990	0.0	39.3	-39.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3121	0.0	55.7	-55.7	
4	400 kV	TALCHER-I/C	2	684	688	0.0	6.7	-6.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	109.8	-109.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	155	71	1.9	0.1	1.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	545	83	7.6	0.0	7.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	54	14	0.7	0.0	0.7	
						ER-NER	10.2	0.1	10.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARALI-AGRA	2	473	0	9.1	0.0	9.1	
						NER-NR	9.1	0.0	9.1
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2004	0.0	24.2	-24.2	
2	HVDC	VINDHYACHAL B/B	-	46	0	1.2	0.0	1.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1014	0.0	15.2	-15.2	
4	765 kV	GWALIOR-AGRA	2	7	1957	0.0	23.6	-23.6	
5	765 kV	GWALIOR-PHAGI	2	0	2073	0.0	36.4	-36.4	
6	765 kV	JABALPUR-ORAI	2	0	1108	0.0	31.2	-31.2	
7	765 kV	GWALIOR-ORAI	1	1013	0	17.3	0.0	17.3	
8	765 kV	SATNA-ORAI	1	0	1051	0.0	19.8	-19.8	
9	765 kV	BANASKANTHA-CHITORGARH	2	2029	0	27.6	0.0	27.6	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2741	0.0	37.4	-37.4	
11	400 kV	ZERDA-KANKROLI	1	344	33	3.2	0.0	3.2	
12	400 kV	ZERDA-BHINMAL	1	411	180	1.9	0.0	1.9	
13	400 kV	VINDHYACHAL-RIHAND	1	957	0	22.2	0.0	22.2	
14	400 kV	RAPP-SHUJALPUR	2	279	585	0.7	3.6	-2.9	
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	132	0	1.0	0.0	1.0	
18	220 kV	MALANPUR-AURAIYA	1	104	5	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	76.6	193.0	-116.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	11.2	-11.2	
2	HVDC	RAIGARH-PUGALUR	2	0	4004	0.0	38.4	-38.4	
3	765 kV	SOLAPUR-RAICHUR	2	879	1659	1.3	14.1	-12.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	2935	0.0	42.2	-42.2	
5	400 kV	KOLHAPUR-KUDGI	2	1398	0	21.6	0.0	21.6	
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	81	1.5	0.0	1.5	
						WR-SR	24.4	105.9	-81.6
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 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	0	0	0	-1.69			
	ER	400kV TALA-BINAGURI 1,2,4 I.e. 400kV MALBASE - BINAGURI I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	206	0	92	2.20			
	ER	220kV CHUKHA-BIRPARA 1&2 I.e. 220kV MALBASE - BIRPARA I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.51			
	NER	132kV GELEPHU-SALAKATI	24	6	16	0.39			
	NER	132kV MOTANGA-RANGIA	16	-11	4	0.09			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-52	-1.24			
	ER	NEPAL IMPORT (FROM BIHAR)	-115	-33	-88	-2.10			
	ER	400kV DHAIKEBAR-MUZAFFARPUR 1&2	-322	-37	-269	-6.46			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-785	-499	-660	-15.84			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-98	0	-82	-1.96			