



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: 18th 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 17.01.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17- 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 17th January 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 18-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)	55662	59641	40263	20655	2705	178926
Peak Shortage (MW)	77	0	0	447	21	545
Energy Met (MU)	1212	1428	1001	428	48	4118
Hydro Gen (MU)	109	54	82	28	9	282
Wind Gen (MU)	12	79	44	-	-	135
Solar Gen (MU)*	118.29	56.62	131.50	4.82	0.54	312
Energy Shortage (MU)	8.97	0.00	0.00	3.34	0.04	12.35
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62095	69857	53879	21559	2796	206611
Time Of Maximum Demand Met (From NLDC SCADA)	10:42	09:56	10:24	19:05	17:37	10:15

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	0.069	0.07	1.10	9.84	11.01	58.42	30.58

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	9022	0	163.0	44.8	-0.9	92	0.20
	Haryana	7958	0	150.8	74.5	0.1	136	0.00
	Rajasthan	16713	38	301.0	108.8	-1.4	143	6.83
	Delhi	5001	0	84.7	73.9	-2.3	225	0.00
	UP	20290	76	363.1	104.2	-0.2	425	1.79
	Uttarakhand	2443	0	45.4	33.3	0.6	247	0.15
	HP	1957	0	35.3	28.4	0.2	144	0.00
	J&K(UT) & Ladakh(UT)	2969	0	64.0	61.7	-1.9	148	0.00
	Chandigarh	285	0	4.7	4.8	-0.1	53	0.00
	Chhattisgarh	5015	0	105.3	58.2	-0.6	305	0.00
WR	Gujarat	18460	0	382.9	186.1	-1.0	513	0.00
	MP	16792	0	324.2	189.4	0.0	459	0.00
	Maharashtra	27238	0	545.8	180.5	0.9	728	0.00
	Goa	626	0	14.0	12.0	1.5	43	0.00
	DHDDPDCL	1223	0	28.0	28.4	-0.4	134	0.00
	AMNSIL	710	0	15.9	10.1	-0.5	247	0.00
	BALCO	516	0	12.3	12.4	-0.1	26	0.00
	Andhra Pradesh	10562	0	190.6	69.8	-1.0	440	0.00
	Telangana	13376	0	230.7	94.9	-0.6	773	0.00
	Karnataka	13682	0	244.9	89.1	-1.8	688	0.00
SR	Kerala	3954	0	76.8	58.3	0.3	190	0.00
	Tamil Nadu	13185	0	251.1	132.2	-2.7	505	0.00
	Puducherry	291	0	6.6	6.4	-0.5	64	0.00
	Bihar	5474	69	96.4	85.2	-1.1	304	0.64
	DVC	3568	0	74.4	47.0	0.5	262	0.00
	Jharkhand	1584	0	28.4	21.8	-1.7	159	2.70
	Odisha	4841	0	92.0	32.9	-3.9	357	0.00
	West Bengal	6889	0	135.1	3.1	-2.1	437	0.00
	Sikkim	130	0	2.1	1.9	-0.2	20	0.00
	NER	Arunachal Pradesh	166	0	2.8	2.8	-0.1	18
Assam		1517	0	26.2	20.3	0.0	97	0.00
Manipur		247	0	3.5	3.4	0.2	45	0.00
Meghalaya		394	0	7.3	6.2	-0.2	47	0.04
Mizoram		152	0	2.3	1.9	-0.2	18	0.00
Nagaland		149	0	2.1	2.1	-0.1	28	0.00
Tripura		232	0	3.9	2.0	0.0	36	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.6	-10.2	-23.6
Day Peak (MW)	-329.7	-511.0	-1052.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	185.4	-100.4	89.1	-174.5	0.4	0.0
Actual(MU)	170.9	-80.6	78.7	-172.1	0.5	-2.6
O/D/U/D(MU)	-14.5	19.8	-10.3	2.4	0.1	-2.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6679	14011	6548	2505	514	30257	51
State Sector	5855	13633	6898	2000	118	28504	49
Total	12534	27644	13446	4505	632	58761	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	783	1360	577	652	15	3387	76
Lignite	31	9	49	0	0	90	2
Hydro	109	54	82	28	9	282	6
Nuclear	26	37	76	0	0	140	3
Gas, Naptha & Diesel	17	6	6	0	29	58	1
RES (Wind, Solar, Biomass & Others)	158	138	194	5	1	495	11
Total	1124	1605	984	684	54	4451	100

Share of RES in total generation (%)	14.04	8.60	19.72	0.71	1.00	11.12
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.08	14.26	35.82	4.80	18.28	20.61

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.053

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: 18-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	7.4	-7.4	
3	765 kV	GAYA-VARANASI	2	0	962	0.0	15.2	-15.2	
4	765 kV	SASARAM-FAITEHPUR	1	0	495	0.0	7.6	-7.6	
5	765 kV	GAYA-BALIA	1	0	770	0.0	11.6	-11.6	
6	400 kV	PUSAULI-VARANASI	1	0	187	0.0	3.6	-3.6	
7	400 kV	PUSAULI-ALLAHABAD	1	0	196	0.0	3.6	-3.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	712	0.0	10.7	-10.7	
9	400 kV	PATNA-BALIA	2	0	632	0.0	12.2	-12.2	
10	400 kV	NAIBATTI-BALIA	2	0	685	0.0	13.0	-13.0	
11	400 kV	BIHARSHARIFF-BALIA	2	0	371	0.0	5.3	-5.3	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	492	0.0	8.6	-8.6	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	365	0.0	5.5	-5.5	
14	220 kV	SAHUPUR-BKRAMANASA	1	12	116	0.0	0.8	-0.8	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5	
17	132 kV	KARMANASA-SAHUPURI	1	4	49	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	105.1	-104.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	780	593	4.6	0.0	4.6	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	462	687	0.0	1.3	-1.3	
3	765 kV	JHARSUGUDA-DURG	2	0	538	0.0	9.0	-9.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	834	0.0	11.7	-11.7	
5	400 kV	RANCHI-SIPAT	2	57	323	0.0	2.6	-2.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	186	0.0	3.4	-3.4	
7	220 kV	BUDHIPADAR-KORBA	2	74	187	0.0	2.0	-2.0	
						ER-WR	4.6	30.0	-25.5
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	336	0.0	7.4	-7.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	39.1	-39.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3043	0.0	51.6	-51.6	
4	400 kV	TALCHER-IC	2	479	884	0.0	1.5	-1.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	98.1	-98.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	172	36	1.9	0.0	1.9	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	604	0	7.9	0.0	7.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	60	1	0.8	0.0	0.8	
						ER-NER	10.6	0.0	10.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	464	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	2004	0.0	24.3	-24.3	
2	HVDC	VINDHYACHAL B/B	-	438	0	4.3	0.0	4.3	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	762	0.0	3.6	-3.6	
4	765 kV	GWALIOR-AGRA	2	0	1912	0.0	27.9	-27.9	
5	765 kV	GWALIOR-PHAGI	2	0	1955	0.0	32.2	-32.2	
6	765 kV	JABALPUR-ORAI	2	0	1134	0.0	31.8	-31.8	
7	765 kV	GWALIOR-ORAI	1	992	0	16.3	0.0	16.3	
8	765 kV	SATNA-ORAI	1	0	1046	0.0	18.7	-18.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	2031	0	22.8	0.0	22.8	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2507	0.0	31.7	-31.7	
11	400 kV	ZERDA-KANKROLI	1	355	0	3.0	0.0	3.0	
12	400 kV	ZERDA-BHINMAL	1	462	133	3.1	0.0	3.1	
13	400 kV	VINDHYACHAL -RIHAND	1	975	0	21.8	0.0	21.8	
14	400 kV	RAPP-SHUJALPUR	2	419	511	2.4	3.0	-0.6	
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	119	0	1.0	0.0	1.0	
18	220 kV	MALANPUR-AURAIYA	1	88	4	1.7	0.0	1.7	
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	76.3	169.7	-93.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	980	999	2.5	0.0	2.5	
2	HVDC	RAIGARH-PUGALUR	2	577	1499	0.0	8.8	-8.8	
3	765 kV	SOLAPUR-RAICHUR	2	726	1363	2.8	5.5	-2.7	
4	765 kV	WARDHA-NIZAMABAD	2	0	2802	0.0	37.5	-37.5	
5	400 kV	KOLHAPUR-KUDGI	2	1374	0	25.3	0.0	25.3	
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	83	1.5	0.0	1.5	
						WR-SR	32.1	51.8	-19.7

INTERNATIONAL EXCHANGES					Import(+ve)/Export(-ve)		
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)	
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR L&S 1&2 (i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW))	0	0	0	-1.92	
	ER	400kV TALA-BINAGURI L2,3 (i.e. 400kV MALBASE - BINAGURI) (i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)))	187	0	69	1.71	
	ER	220kV CHUKHA-BIRPARA 1&2 (i.e. 220kV MALBASE - BIRPARA) (i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*80MW))	0	0	0	-1.86	
	NER	132kV GELEPHU-SALAKATI	-22	-9	-17	-0.42	
	NER	132kV MOTANGA-RANGIA	-16	0	-6	-0.14	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-65	-1.56	
	ER	NEPAL IMPORT (FROM BIHAR)	-97	-63	-80	-1.92	
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-338	-94	-282	-6.77	
	ER	BHERAMARA B/B HVDC (BANGLADESH)	-930	-791	-883	-21.19	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-122	0	-100	-2.41	