



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: 24th 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 23.01.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23- 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 23rd January 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 24-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)	52005	58114	43403	21400	2743	177665
Peak Shortage (MW)	0	0	0	302	0	302
Energy Met (MU)	1135	1405	1077	432	48	4096
Hydro Gen (MU)	106	39	82	29	9	265
Wind Gen (MU)	55	116	62	-	-	234
Solar Gen (MU)*	78.49	49.45	103.54	2.32	0.77	235
Energy Shortage (MU)	1.78	0.00	0.00	2.08	0.00	3.86
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59440	67945	56502	21518	2796	203600
Time Of Maximum Demand Met (From NLDC SCADA)	10:41	11:06	09:56	19:22	17:54	10:39

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	0.081	0.00	0.00	4.27	4.27	63.50	32.23

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	8016	0	151.9	49.1	-1.3	170	0.30
	Haryana	7032	0	136.8	76.6	0.8	300	0.00
	Rajasthan	17097	0	306.3	97.7	-4.3	212	0.42
	Delhi	4396	0	74.6	68.4	-2.9	138	0.00
	UP	18212	0	319.6	86.5	-2.1	394	0.05
	Uttarakhand	2358	0	42.7	32.2	0.2	138	0.50
	HP	1940	0	33.9	27.2	0.1	98	0.33
	J&K(UT) & Ladakh(UT)	3013	0	64.6	62.2	-1.7	78	0.18
	Chandigarh	283	0	4.2	4.8	-0.6	25	0.00
	Chhattisgarh	5003	0	106.4	55.3	-1.1	121	0.00
WR	Gujarat	18650	0	379.5	171.3	-2.9	624	0.00
	MP	15935	0	304.9	187.9	0.0	150	0.00
	Maharashtra	27110	0	544.5	166.8	-0.2	422	0.00
	Goa	636	0	12.6	12.1	0.1	38	0.00
	DNHDDPDCL	1203	0	27.4	27.7	-0.3	45	0.00
	AMNSIL	741	0	17.0	10.1	-0.1	311	0.00
	BALCO	513	0	12.3	12.3	0.0	0	0.00
	Andhra Pradesh	11081	0	201.0	70.2	-0.2	645	0.00
	Telangana	13657	0	240.4	114.2	0.4	753	0.00
	Karnataka	13952	0	247.1	79.3	-0.3	645	0.00
SR	Kerala	3910	0	75.8	58.8	0.0	203	0.00
	Tamil Nadu	15212	0	304.9	179.4	1.8	1291	0.00
	Puducherry	382	0	7.5	8.5	-1.0	10	0.00
	Bihar	5239	0	90.3	82.3	-3.2	163	0.13
	DVC	3478	0	74.1	-39.3	0.3	228	0.00
ER	Jharkhand	1470	0	29.2	22.2	-2.4	61	1.94
	Odisha	5201	0	103.0	30.0	-2.0	162	0.00
	West Bengal	7073	0	133.7	4.8	-2.8	394	0.00
	Sikkim	128	0	2.0	2.1	-0.2	20	0.00
	Assam	154	0	2.4	2.6	-0.3	30	0.00
NER	Assam	1550	0	26.5	20.7	-0.4	82	0.00
	Manipur	241	0	3.5	3.6	-0.1	18	0.00
	Meghalaya	392	0	7.3	6.4	-0.2	36	0.00
	Mizoram	148	0	2.0	1.8	-0.4	11	0.00
	Nagaland	133	0	2.2	2.2	-0.1	29	0.00
	Tripura	233	0	3.8	2.5	-0.1	31	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.1	-10.5	-23.6
Day Peak (MW)	-294.0	-563.3	-1070.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	158.9	-140.8	146.0	-163.9	-0.3	0.0
Actual(MU)	149.0	-138.7	154.9	-170.9	-1.2	-6.9
O/D/U/D(MU)	-10.0	2.1	8.9	-7.0	-0.9	-6.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6738	13551	7508	2255	654	30705	50
State Sector	8180	12926	6053	2890	98	30147	50
Total	14918	26477	13561	5145	752	60852	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	738	1381	587	662	15	3383	76
Lignite	27	21	50	0	0	98	2
Hydro	106	39	82	29	9	265	6
Nuclear	26	10	77	0	0	140	3
Gas, Naptha & Diesel	14	10	5	0	31	59	1
RES (Wind, Solar, Biomass & Others)	161	168	188	2	1	519	12
Total	1072	1656	988	693	55	4465	100

Share of RES in total generation (%)	15.02	10.13	18.98	0.34	1.39	11.63
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.31	14.75	35.06	4.52	17.14	20.70

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.060

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: 24-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	297	0.0	7.9	-7.9	
3	765 kV	GAYA-VARANASI	2	37	789	0.0	11.5	-11.5	
4	765 kV	SASARAM-FAITEHPUR	1	0	537	0.0	7.7	-7.7	
5	765 kV	GAYA-BALIA	1	0	719	0.0	10.9	-10.9	
6	400 kV	PUSAULI-VARANASI	1	15	199	0.0	3.8	-3.8	
7	400 kV	PUSAULI-ALLAHABAD	1	0	184	0.0	3.2	-3.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	666	0.0	8.4	-8.4	
9	400 kV	PATNA-BALIA	2	0	655	0.0	12.7	-12.7	
10	400 kV	NAUBATTI-BALIA	2	0	714	0.0	13.6	-13.6	
11	400 kV	BIHARSHARIFE-BALIA	2	0	391	0.0	6.3	-6.3	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	469	0.0	7.6	-7.6	
13	400 kV	BIHARSHARIFE-VARANASI	2	33	339	0.0	4.7	-4.7	
14	220 kV	SAHUPUR-BAHMANASA	1	22	92	0.0	1.1	-1.1	
15	132 kV	NAGARUNTARI-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	16	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	98.4	-98.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	470	857	0.7	0.0	0.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	337	840	0.0	3.6	-3.6	
3	765 kV	JHARSUGUDA-DURG	2	0	552	0.0	9.7	-9.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	762	0.0	10.0	-10.0	
5	400 kV	RANCHI-SIPAT	2	50	285	0.0	1.9	-1.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	222	0.0	3.4	-3.4	
7	220 kV	BUDHIPADAR-KORBA	2	81	134	0.0	0.8	-0.8	
						ER-WR	0.7	29.4	-28.7
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	651	0.0	9.8	-9.8	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1977	0.0	37.8	-37.8	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3160	0.0	57.7	-57.7	
4	400 kV	TALCHER-I/C	2	364	463	4.1	0.0	4.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	105.2	-105.2
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	158	26	2.1	0.0	2.1	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	584	0	8.6	0.0	8.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	56	0	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	466	0	11.1	0.0	11.1	
						NER-NR	11.1	0.0	11.1
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2004	0.0	23.5	-23.5	
2	HVDC	VINDHYACHAL B/B	-	447	0	8.5	0.0	8.5	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	0	0.0	0.0	0.0	
4	765 kV	GWALIOR-AGRA	2	0	1887	0.0	20.8	-20.8	
5	765 kV	GWALIOR-PHAGI	2	0	1988	0.0	30.1	-30.1	
6	765 kV	JABALPUR-ORAI	2	0	859	0.0	22.4	-22.4	
7	765 kV	GWALIOR-ORAI	1	996	0	17.7	0.0	17.7	
8	765 kV	SATNA-ORAI	1	0	936	0.0	17.6	-17.6	
9	765 kV	BANASKANTHA-CHITORGARH	2	1527	0	17.5	0.0	17.5	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2310	0.0	32.9	-32.9	
11	400 kV	ZERDA-KANKROLI	1	313	0	2.7	0.0	2.7	
12	400 kV	ZERDA-BHINMAL	1	538	0	4.8	0.0	4.8	
13	400 kV	VINDHYACHAL -RIHAND	1	959	0	21.8	0.0	21.8	
14	400 kV	RAPP-SHUJALPUR	2	375	374	0.7	0.0	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	147	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	116	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	76.4	149.0	-72.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	984	1016	3.7	9.4	-5.7	
2	HVDC	RAIGARH-PUGALUR	2	0	5880	0.0	41.5	-41.5	
3	765 kV	SOLAPUR-RAICHUR	2	1131	2062	0.0	20.0	-20.0	
4	765 kV	WARDHA-NIZAMABAD	2	0	3394	0.0	46.0	-46.0	
5	400 kV	KOLHAPUR-KUDGI	2	1274	0	18.7	0.0	18.7	
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	84	0.0	0.0	0.0	
						WR-SR	22.4	117.0	-94.6
INTERNATIONAL EXCHANGES									
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	-1.77			
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*120MW)	180	16	78	1.96			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*90MW)	0	0	0	-1.83			
	NER	132kV GELEPHU-SALAKATI	21	10	-17	-0.40			
	NER	132kV MOTANGA-RANGIA	13	0	-3	-0.08			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-64	-1.54			
	ER	NEPAL IMPORT (FROM BIHAR)	-112	-67	-87	-2.09			
	ER	400kV DHALKHEBAR-MUZAFFARPUR 1&2	-376	-136	-285	-6.85			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-935	-785	-876	-21.03			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-135	0	-108	-2.58			