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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 30th January 2023

To,

1. कार्यकारी निदेशक, पू.क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. 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
3. 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
4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
   Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. 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 29.01.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29- जनवरी -2023 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 29th January 2023, is available at the NLDC website.

धन्यवाद,

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day **Date of Reporting:** **30-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)	46171	53998	40506	18713	2545	161933
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1023	1354	1040	423	46	3886
Hydro Gen (MU)	112	28	61	28	8	237
Wind Gen (MU)	13	84	74	-	-	170
Solar Gen (MU)*	89.70	47.55	128.45	2.73	0.68	269
Energy Shortage (MU)	0.66	0.00	0.00	1.66	0.00	2.32
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53037	65446	54085	20659	2620	191687
Time Of Maximum Demand Met (From NLDC SCADA)	11:30	10:26	12:30	18:21	18:02	10:43

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	0.128	0.00	3.39	15.31	18.70	52.57	28.72

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	7201	0	137.4	43.1	0.2	125	0.00
	Haryana	6351	0	119.0	54.1	-2.4	154	0.00
	Rajasthan	12881	0	252.1	65.5	-7.0	95	0.53
	Delhi	4433	0	70.9	61.4	-2.0	316	0.00
	UP	16180	0	301.1	77.2	-1.9	245	0.00
	Uttarakhand	2126	0	41.0	32.8	-0.6	145	0.13
	HP	1839	0	33.1	27.1	-0.5	70	0.00
	J&K(UT) & Ladakh(UT)	2930	0	64.3	62.2	-2.4	28	0.00
	Chandigarh	231	0	4.0	4.0	0.0	39	0.00
WR	Chhattisgarh	4944	0	110.3	59.3	-0.6	283	0.00
	Gujarat	16685	0	346.8	229.2	-3.2	585	0.00
	MP	14808	0	286.3	165.3	0.0	396	0.00
	Maharashtra	26835	0	540.4	172.4	-0.9	604	0.00
	Goa	604	0	14.4	11.2	2.8	55	0.00
	DNHDDPDCL	1175	0	27.5	27.6	-0.1	96	0.00
	AMNSIL	724	0	15.5	7.9	0.5	249	0.00
	BALCO	518	0	12.3	12.4	-0.1	3	0.00
SR	Andhra Pradesh	11433	0	204.7	65.6	-0.4	480	0.00
	Telangana	13497	0	235.6	99.0	0.8	975	0.00
	Karnataka	12985	0	229.3	84.5	-2.0	497	0.00
	Kerala	3501	0	69.1	57.2	0.0	125	0.00
	Tamil Nadu	14592	0	293.6	168.7	-0.9	494	0.00
	Puducherry	353	0	8.0	7.7	-0.5	31	0.00
ER	Bihar	4882	0	86.9	76.5	-2.0	245	0.82
	DVC	3582	0	73.7	-44.1	0.3	300	0.84
	Jharkhand	1604	0	28.5	21.6	-2.1	147	0.00
	Odisha	4678	0	104.4	39.6	0.5	120	0.00
	West Bengal	6366	0	127.6	-0.4	-2.7	209	0.00
	Sikkim	101	0	1.5	1.6	-0.1	21	0.00
NER	Arunachal Pradesh	142	0	2.5	2.6	-0.2	26	0.00
	Assam	1462	0	25.9	19.3	0.1	102	0.00
	Manipur	216	0	3.1	3.3	-0.2	15	0.00
	Meghalaya	350	0	6.9	6.4	-0.2	16	0.00
	Mizoram	119	0	2.1	1.7	-0.2	6	0.00
	Nagaland	137	0	2.1	2.1	-0.2	23	0.00
	Tripura	228	0	3.7	2.2	-0.2	21	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.7	-10.9	-24.3
Day Peak (MW)	-209.6	-319.7	-1071.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	112.4	-62.5	112.2	-159.6	-2.6	0.0
Actual(MU)	107.9	-63.2	116.4	-166.2	-1.4	-6.3
O/D/U/D(MU)	-4.5	-0.7	4.3	-6.6	1.2	-6.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8038	14266	7148	1845	629	31925	48
State Sector	7420	17536	7203	2730	98	34987	52
Total	15458	31802	14351	4575	727	66912	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	696	1298	574	633	14	3215	76
Lignite	30	21	56	0	0	108	3
Hydro	112	28	61	28	8	237	6
Nuclear	26	36	76	0	0	139	3
Gas, Naptha & Diesel	15	3	7	0	32	57	1
RES (Wind, Solar, Biomass & Others)	128	133	225	3	1	490	12
Total	1009	1520	999	664	55	4246	100

Share of RES in total generation (%)	12.74	8.77	22.50	0.41	1.25	11.54
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.46	12.99	36.21	4.64	16.23	20.39

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
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: 30-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	7.3	-7.3
3	765 kV	GAYA-VARANASI	2	0	1035	0.0	16.7	-16.7
4	765 kV	SASARAM-FATEHPUR	1	0	452	0.0	7.3	-7.3
5	765 kV	GAYA-BALIA	1	0	577	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	1	0	219	0.0	4.3	-4.3
7	400 kV	PUSAULI - ALLAHABAD	1	0	163	0.0	2.9	-2.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	824	0.0	10.3	-10.3
9	400 kV	PATNA-BALIA	2	0	604	0.0	10.3	-10.3
10	400 kV	NAUBATPUR-BALIA	2	0	644	0.0	11.0	-11.0
11	400 kV	BIHARSHARIFF-BALIA	2	20	313	0.0	3.5	-3.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	554	0.0	8.8	-8.8
13	400 kV	BIHARSHARIFF-VARANASI	2	0	375	0.0	6.1	-6.1
14	220 kV	SAHUPURI-KARAMNASA	1	0	102	0.0	1.3	-1.3
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	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	99.1	-98.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1287	0	18.5	0.0	18.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	135	0	0.0	2.6	-2.6
3	765 kV	JHARSUGUDA-DURG	2	0	461	0.0	7.8	-7.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	760	0.0	12.2	-12.2
5	400 kV	RANCHI-SIPAT	2	0	240	0.0	2.6	-2.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	218	0.0	3.4	-3.4
7	220 kV	BUDHIPADAR-KORBA	2	35	91	0.0	0.6	-0.6
					ER-WR	18.5	29.2	-10.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	274	0.0	6.1	-6.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	42.4	-42.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	3118	0.0	61.1	-61.1
4	400 kV	TALCHER-I/C	2	164	727	0.0	10.0	-10.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	109.6	-109.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	192	34	2.3	0.0	2.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	675	18	9.3	0.0	9.3
3	220 kV	ALIPURDUAR-SALAKATI	2	60	5	0.9	0.0	0.9
					ER-NER	12.5	0.0	12.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	485	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	12.0	-12.0
2	HVDC	VINDHYACHAL B/B	-	200	0	4.7	0.0	4.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	0	2135	0.0	25.1	-25.1
5	765 kV	GWALIOR-PHAGI	2	0	1867	0.0	26.4	-26.4
6	765 kV	JABALPUR-ORAI	2	0	777	0.0	22.1	-22.1
7	765 kV	GWALIOR-ORAI	1	1081	0	18.1	0.0	18.1
8	765 kV	SATNA-ORAI	1	0	869	0.0	15.7	-15.7
9	765 kV	BANASKANTHA-CHITORGARH	2	2352	0	37.9	0.0	37.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	1318	0.0	17.1	-17.1
11	400 kV	ZERDA-KANKROLI	1	401	0	5.9	0.0	5.9
12	400 kV	ZERDA -BHINMAL	1	636	0	7.8	0.0	7.8
13	400 kV	VINDHYACHAL -RIHAND	1	941	0	11.9	0.0	11.9
14	400 kV	RAPP-SHUJALPUR	2	375	410	1.8	1.6	0.2
15	220 kV	BHANPURA-RANPUR	1	0	166	0.0	1.5	-1.5
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6
17	220 kV	MEHGAON-AURAIYA	1	113	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	84	0	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	90.6	123.1	-32.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	999	0.0	10.3	-10.3
2	HVDC	RAIGARH-PUGALUR	2	1449	1502	10.3	9.1	1.3
3	765 kV	SOLAPUR-RAICHUR	2	301	1501	0.1	15.4	-15.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2528	0.0	41.1	-41.1
5	400 kV	KOLHAPUR-KUDGI	2	1447	0	23.6	0.0	23.6
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	84	1.1	0.0	1.1
					WR-SR	35.2	75.9	-40.7

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	0	0	0	-1.85
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	171	0	56	1.48
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.78
	NER	132kV GELEPHU-SALAKATI	23	7	18	0.43
	NER	132kV MOTANGA-RANGIA	11	1	2	0.05
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-60	-1.43
	ER	NEPAL IMPORT (FROM BIHAR)	92	19	-59	-1.41
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-339	-218	-338	-8.11
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-935	-834	-902	-21.66
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-136	0	-112	-2.68