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: 01st February 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 31.01.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31- 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 31st 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: 01-Feb-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)	51786	57797	44073	20693	2629	176978
Peak Shortage (MW)	0	170	340	321	0	831
Energy Met (MU)	1054	1388	1111	438	47	4037
Hydro Gen (MU)	116	32	97	31	9	284
Wind Gen (MU)	30	147	38	-	-	214
Solar Gen (MU)*	104.70	54.00	108.54	4.87	0.82	273
Energy Shortage (MU)	0.44	0.28	0.70	2.25	0.00	3.67
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53488	66727	57725	21444	2830	198168
Time Of Maximum Demand Met (From NLDC SCADA)	11:35	09:44	12:30	18:29	17:43	10:25

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	0.100	0.23	1.96	12.83	15.02	53.51	31.47

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	7294	0	140.0	48.2	-0.6	133	0.04
	Haryana	6755	0	133.0	62.1	-1.6	122	0.00
	Rajasthan	13635	0	261.0	65.0	-4.5	108	0.00
	Delhi	4611	0	77.1	66.3	-2.2	147	0.00
	UP	17345	0	304.2	91.2	-0.6	425	0.00
	Uttarakhand	2224	45	41.8	31.3	-0.2	145	0.40
	HP	1883	0	33.2	26.1	-0.3	36	0.00
	J&K(UT) & Ladakh(UT)	2931	0	59.7	57.7	-2.8	252	0.00
	Chandigarh	241	0	3.9	4.4	-0.5	36	0.00
WR	Chhattisgarh	5130	0	108.9	75.6	0.2	491	0.28
	Gujarat	17167	0	364.7	181.3	-2.6	969	0.00
	MP	14392	0	277.7	163.7	-5.2	428	0.00
	Maharashtra	27860	0	565.1	187.1	0.8	633	0.00
	Goa	659	0	13.3	12.9	0.0	41	0.00
	DNHDDPDCL	1225	0	28.2	28.4	-0.2	42	0.00
	AMNSIL	762	0	17.3	9.8	0.4	287	0.00
	BALCO	517	0	12.3	12.4	-0.1	26	0.00
SR	Andhra Pradesh	11316	0	210.5	87.5	0.3	513	0.00
	Telangana	13518	0	240.1	105.4	3.1	1587	0.00
	Karnataka	14972	0	257.7	98.5	1.9	788	0.70
	Kerala	3993	0	78.5	58.0	0.3	230	0.00
	Tamil Nadu	15493	0	315.6	185.1	-0.8	557	0.00
	Puducherry	387	0	8.5	8.3	-0.4	51	0.00
ER	Bihar	4875	225	86.9	74.5	0.0	217	0.59
	DVC	3714	0	76.2	-43.1	0.1	431	0.00
	Jharkhand	1578	0	29.2	22.5	-2.2	117	1.67
	Odisha	5003	0	103.0	38.6	-0.6	351	0.00
	West Bengal	7283	0	140.5	10.6	-2.6	305	0.00
	Sikkim	119	0	1.9	2.1	-0.2	7	0.00
NER	Arunachal Pradesh	125	0	2.3	2.4	-0.2	58	0.00
	Assam	1525	0	27.0	20.3	-0.1	105	0.00
	Manipur	228	0	3.2	3.2	0.0	25	0.00
	Meghalaya	377	0	6.8	6.0	-0.2	38	0.00
	Mizoram	132	0	2.0	1.6	-0.1	12	0.00
	Nagaland	130	0	2.1	2.1	-0.1	14	0.00
	Tripura	230	0	3.9	2.2	-0.3	17	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.9	-10.4	-23.9
Day Peak (MW)	-248.2	-504.1	-1047.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	116.4	-121.6	152.0	-143.7	-3.2	0.0
Actual(MU)	95.4	-124.1	179.9	-155.4	-1.4	-5.5
O/D/U/D(MU)	-21.0	-2.4	27.9	-11.8	1.8	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7136	12700	6988	2925	615	30363	47
State Sector	7910	16518	6893	2300	98	33719	53
Total	15046	29218	13881	5225	713	64082	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	689	1317	600	628	14	3248	74
Lignite	32	23	55	0	0	109	2
Hydro	116	32	97	31	9	284	6
Nuclear	26	37	75	0	0	138	3
Gas, Naptha & Diesel	18	8	6	0	32	63	1
RES (Wind, Solar, Biomass & Others)	162	203	170	5	1	540	12
Total	1043	1619	1001	664	55	4382	100

Share of RES in total generation (%)	15.50	12.52	16.95	0.73	1.48	12.26
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.11	16.80	34.06	5.42	16.90	21.90

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.058

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: 01-Feb-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	7.3	-7.3
3	765 kV	GAYA-VARANASI	2	0	869	0.0	13.2	-13.2
4	765 kV	SASARAM-FATEHPUR	1	0	497	0.0	7.7	-7.7
5	765 kV	GAYA-BALIA	1	0	659	0.0	7.9	-7.9
6	400 kV	PUSAULI-VARANASI	1	0	223	0.0	4.3	-4.3
7	400 kV	PUSAULI - ALLAHABAD	1	0	167	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	25	847	0.0	8.0	-8.0
9	400 kV	PATNA-BALIA	2	0	586	0.0	8.9	-8.9
10	400 kV	NAUBATPUR-BALIA	2	0	631	0.0	9.4	-9.4
11	400 kV	BIHARSHARIFF-BALIA	2	106	362	0.0	3.3	-3.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	420	0.0	5.9	-5.9
13	400 kV	BIHARSHARIFF-VARANASI	2	0	377	0.0	5.2	-5.2
14	220 kV	SAHUPURI-KARAMNASA	1	0	137	0.0	1.5	-1.5
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	0	36	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	85.2	-84.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1625	0	22.6	0.0	22.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	420	841	0.0	5.0	-5.0
3	765 kV	JHARSUGUDA-DURG	2	0	501	0.0	7.6	-7.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	833	0.0	12.7	-12.7
5	400 kV	RANCHI-SIPAT	2	63	291	0.0	2.6	-2.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	222	0.0	3.4	-3.4
7	220 kV	BUDHIPADAR-KORBA	2	23	94	0.0	0.7	-0.7
					ER-WR	22.6	32.0	-9.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	552	0.0	8.9	-8.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1995	0.0	40.8	-40.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2979	0.0	60.5	-60.5
4	400 kV	TALCHER-I/C	2	0	747	0.0	8.3	-8.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	110.2	-110.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	149	83	1.6	0.0	1.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	528	157	6.8	0.0	6.8
3	220 kV	ALIPURDUAR-SALAKATI	2	53	25	0.5	0.0	0.5
					ER-NER	8.9	0.0	8.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	484	0	8.0	0.0	8.0
					NER-NR	8.0	0.0	8.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	493	0.0	11.9	-11.9
2	HVDC	VINDHYACHAL B/B	-	200	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	495	0	11.8	0.0	11.8
4	765 kV	GWALIOR-AGRA	2	0	2050	0.0	20.8	-20.8
5	765 kV	GWALIOR-PHAGI	2	478	1769	0.0	20.8	-20.8
6	765 kV	JABALPUR-ORAI	2	49	952	0.0	17.8	-17.8
7	765 kV	GWALIOR-ORAI	1	1014	0	14.4	0.0	14.4
8	765 kV	SATNA-ORAI	1	0	943	0.0	15.9	-15.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1431	148	22.3	0.0	22.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	1928	0.0	19.8	-19.8
11	400 kV	ZERDA-KANKROLI	1	268	8	3.8	0.0	3.8
12	400 kV	ZERDA -BHINMAL	1	470	53	5.8	0.0	5.8
13	400 kV	VINDHYACHAL -RIHAND	1	474	0	10.7	0.0	10.7
14	400 kV	RAPP-SHUJALPUR	2	739	342	3.9	0.0	3.9
15	220 kV	BHANPURA-RANPUR	1	0	133	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0
17	220 kV	MEHGAON-AURAIYA	1	118	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	92	0	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	81.0	110.3	-29.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	12.8	-12.8
2	HVDC	RAIGARH-PUGALUR	2	0	4510	0.0	38.3	-38.3
3	765 kV	SOLAPUR-RAICHUR	2	261	2043	0.0	26.9	-26.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2917	0.0	48.5	-48.5
5	400 kV	KOLHAPUR-KUDGI	2	1427	0	22.5	0.0	22.5
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	99	0.0	0.0	0.0
					WR-SR	22.5	126.6	-104.1

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR I,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	0	0	0	-1.69
	ER	400kV TALA-BINAGURI I,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	181	0	68	1.69
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.66
	NER	132kV GELEPHU-SALAKATI	-24	-4	-16	-0.39
	NER	132kV MOTANGA-RANGIA	30	0	6	0.14
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-60	-1.43
	ER	NEPAL IMPORT (FROM BIHAR)	-103	-51	-80	-1.92
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-328	-206	-295	-7.07
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-929	-782	-895	-21.48
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-118	0	-99	-2.38