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: 10th 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 09.02.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09- फ़रवरी-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 09th February 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:** **10-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)	52002	60720	46430	21413	2675	183240
Peak Shortage (MW)	0	271	0	430	0	701
Energy Met (MU)	1139	1456	1134	453	47	4229
Hydro Gen (MU)	129	65	92	27	9	323
Wind Gen (MU)	48	43	28	-	-	118
Solar Gen (MU)*	105.53	63.82	128.95	5.18	0.48	304
Energy Shortage (MU)	3.17	0.44	1.10	2.59	0.37	7.67
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59274	69047	56874	21912	2760	206007
Time Of Maximum Demand Met (From NLDC SCADA)	11:29	10:17	11:53	18:19	18:03	10:16

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	0.45	1.32	4.55	6.32	59.91	33.77

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	8193	0	153.2	60.8	0.4	219	0.00
	Haryana	8271	0	148.4	73.6	-0.7	268	0.37
	Rajasthan	16310	115	301.4	77.2	-3.0	166	1.69
	Delhi	3967	0	67.6	61.2	-2.1	543	0.00
	UP	17741	0	328.8	94.7	-0.3	278	0.71
	Uttarakhand	2241	0	41.8	29.9	0.5	134	0.07
	HP	1915	0	33.5	27.0	0.2	107	0.33
	J&K(UT) & Ladakh(UT)	2798	0	60.9	56.9	-1.8	35	0.00
	Chandigarh	230	0	3.6	3.8	-0.2	26	0.00
WR	Chhattisgarh	5248	0	112.6	56.5	1.6	592	0.44
	Gujarat	18015	0	389.9	226.3	-1.7	528	0.00
	MP	15592	0	307.5	185.6	-2.5	759	0.00
	Maharashtra	27789	0	573.4	181.0	0.4	832	0.00
	Goa	685	0	13.6	12.9	0.5	62	0.00
	DNHDDPDCL	1240	0	28.8	28.8	0.0	67	0.00
	AMNSIL	812	0	17.8	11.1	0.0	285	0.00
	BALCO	517	0	12.3	12.4	-0.1	8	0.00
SR	Andhra Pradesh	11696	0	219.7	86.7	-0.1	493	0.00
	Telangana	13180	0	235.1	115.0	6.4	1426	0.00
	Karnataka	14956	0	271.9	94.6	1.0	992	0.00
	Kerala	4156	0	81.3	61.3	0.1	355	1.10
	Tamil Nadu	15471	0	317.3	191.1	0.6	1078	0.00
	Puducherry	399	0	8.7	8.3	-0.3	42	0.00
ER	Bihar	4931	0	88.1	78.2	-1.0	433	0.66
	DVC	3495	0	75.0	-53.4	-0.2	314	0.00
	Jharkhand	1505	143	28.0	21.0	-1.1	67	1.93
	Odisha	5330	0	110.8	33.8	-1.8	236	0.00
	West Bengal	7248	0	148.9	22.2	-3.2	260	0.00
	Sikkim	119	0	1.8	1.4	0.4	62	0.00
NER	Arunachal Pradesh	163	0	2.8	2.8	-0.2	23	0.00
	Assam	1526	0	26.5	19.7	0.3	80	0.25
	Manipur	224	0	3.1	3.0	0.1	46	0.12
	Meghalaya	386	0	7.3	6.0	0.0	28	0.00
	Mizoram	133	0	2.0	1.7	-0.2	14	0.00
	Nagaland	142	0	2.0	2.0	-0.1	18	0.00
	Tripura	233	0	3.9	2.7	0.2	47	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-2.8	-11.5	-23.9
Day Peak (MW)	-252.3	-546.9	-1065.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	132.4	-97.1	139.4	-172.7	-2.1	0.0
Actual(MU)	113.5	-91.9	151.7	-176.0	-2.1	-4.9
O/D/U/D(MU)	-18.9	5.1	12.3	-3.3	-0.1	-4.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7449	13546	6078	1325	574	28971	46
State Sector	8565	15866	6811	2672	99	34012	54
Total	16013	29411	12889	3997	673	62983	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	737	1419	642	686	17	3500	76
Lignite	28	20	57	0	0	106	2
Hydro	129	65	92	27	9	323	7
Nuclear	26	37	76	0	0	139	3
Gas, Naptha & Diesel	12	18	7	0	30	67	1
RES (Wind, Solar, Biomass & Others)	179	108	181	5	0	473	10
Total	1111	1667	1055	718	57	4608	100
Share of RES in total generation (%)	16.08	6.49	17.14	0.72	0.85	10.27	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.06	12.61	33.08	4.54	16.59	20.29	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
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: 10-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	296	0.0	5.3	-5.3
3	765 kV	GAYA-VARANASI	2	0	782	0.0	14.4	-14.4
4	765 kV	SASARAM-FATEHPUR	1	0	376	0.0	6.4	-6.4
5	765 kV	GAYA-BALIA	1	0	626	0.0	11.2	-11.2
6	400 kV	PUSAULI-VARANASI	1	0	200	0.0	4.1	-4.1
7	400 kV	PUSAULI - ALLAHABAD	1	0	165	0.0	3.2	-3.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	631	0.0	8.1	-8.1
9	400 kV	PATNA-BALIA	2	0	687	0.0	13.8	-13.8
10	400 kV	NAUBATPUR-BALIA	2	0	744	0.0	14.4	-14.4
11	400 kV	BIHARSHARIFF-BALIA	2	0	414	0.0	6.2	-6.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	587	0.0	8.4	-8.4
13	400 kV	BIHARSHARIFF-VARANASI	2	0	338	0.0	5.4	-5.4
14	220 kV	SAHUPURI-KARAMNASA	1	0	167	0.0	2.4	-2.4
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	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	103.2	-102.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	900	333	8.2	0.0	8.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	260	720	0.0	5.4	-5.4
3	765 kV	JHARSUGUDA-DURG	2	0	460	0.0	8.2	-8.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	784	0.0	14.1	-14.1
5	400 kV	RANCHI-SIPAT	2	0	241	0.0	3.3	-3.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	196	0.0	3.5	-3.5
7	220 kV	BUDHIPADAR-KORBA	2	59	37	0.2	0.0	0.2
					ER-WR	8.3	34.5	-26.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	542	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1646	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3085	0.0	57.2	-57.2
4	400 kV	TALCHER-I/C	2	248	0	4.0	0.0	4.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	109.2	-109.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	184	0	2.4	0.0	2.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	662	0	9.4	0.0	9.4
3	220 kV	ALIPURDUAR-SALAKATI	2	74	0	1.1	0.0	1.1
					ER-NER	12.9	0.0	12.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	483	0	11.6	0.0	11.6
					NER-NR	11.6	0.0	11.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1512	0.0	28.8	-28.8
2	HVDC	VINDHYACHAL B/B	-	247	0	6.7	0.0	6.7
3	HVDC	MUNDRA-MOHINDERGARH	2	1444	0	26.3	0.0	26.3
4	765 kV	GWALIOR-AGRA	2	0	1742	0.0	19.2	-19.2
5	765 kV	GWALIOR-PHAGI	2	0	1672	0.0	27.6	-27.6
6	765 kV	JABALPUR-ORAI	2	0	862	0.0	22.8	-22.8
7	765 kV	GWALIOR-ORAI	1	973	0	16.7	0.0	16.7
8	765 kV	SATNA-ORAI	1	0	871	0.0	16.4	-16.4
9	765 kV	BANASKANTHA-CHITORGARH	2	2331	0	33.2	0.0	33.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	1796	0.0	23.2	-23.2
11	400 kV	ZERDA-KANKROLI	1	529	0	6.2	0.0	6.2
12	400 kV	ZERDA -BHINMAL	1	609	7	6.5	0.0	6.5
13	400 kV	VINDHYACHAL -RIHAND	1	487	0	10.8	0.0	10.8
14	400 kV	RAPP-SHUJALPUR	2	444	202	3.1	0.6	2.5
15	220 kV	BHANPURA-RANPUR	1	0	158	0.0	2.8	-2.8
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	110	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	81	0	1.9	0.0	1.9
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	112.5	142.2	-29.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	12.0	-12.0
2	HVDC	RAIGARH-PUGALUR	2	0	3004	0.0	40.7	-40.7
3	765 kV	SOLAPUR-RAICHUR	2	791	1840	1.0	15.4	-14.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2944	0.0	44.2	-44.2
5	400 kV	KOLHAPUR-KUDGI	2	1381	0	20.7	0.0	20.7
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	126	2.2	0.0	2.2
					WR-SR	23.9	112.3	-88.4

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	-2.07
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	192	0	57	1.65
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.98
	NER	132kV GELEPHU-SALAKATI	-24	-3	-10	-0.25
	NER	132kV MOTANGA-RANGIA	-16	0	-5	-0.11
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.55
	ER	NEPAL IMPORT (FROM BIHAR)	-122	-45	-86	-2.06
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-349	-175	-329	-7.90
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-926	-727	-878	-21.07
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	139	0	-116	-2.78