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 March 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 28.02.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28- 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 28th 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:** **01-Mar-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)	50110	62509	47320	21272	2639	183850
Peak Shortage (MW)	774	82	0	601	13	1470
Energy Met (MU)	1116	1477	1236	456	46	4333
Hydro Gen (MU)	132	74	85	28	8	326
Wind Gen (MU)	12	54	82	-	-	149
Solar Gen (MU)*	116.84	62.74	127.24	3.15	0.97	311
Energy Shortage (MU)	15.03	2.76	0.00	6.38	0.15	24.32
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55829	69170	60982	21777	2793	206503
Time Of Maximum Demand Met (From NLDC SCADA)	11:17	10:29	12:33	18:15	18:02	11:15

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	0.098	1.08	4.66	7.87	13.61	64.44	21.95

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	6285	0	143.8	33.9	-1.3	104	3.29
	Haryana	7166	0	134.9	81.4	-3.1	73	0.00
	Rajasthan	15815	0	299.9	120.0	-1.9	122	10.13
	Delhi	3684	0	68.8	61.1	-1.9	90	0.00
	UP	17116	0	334.7	101.3	1.5	486	0.03
	Uttarakhand	2111	0	38.9	27.3	0.8	146	1.53
	HP	1868	0	33.9	25.6	0.5	145	0.05
	J&K(UT) & Ladakh(UT)	2704	0	57.8	50.1	-0.7	83	0.00
	Chandigarh	201	0	3.4	3.4	0.0	20	0.00
WR	Chhattisgarh	5245	5	118.2	65.8	0.5	252	1.03
	Gujarat	18870	0	412.6	188.8	0.0	719	0.00
	MP	14244	0	295.9	165.7	-1.3	750	1.73
	Maharashtra	28059	0	577.9	168.2	4.9	988	0.00
	Goa	686	0	14.6	13.6	0.5	41	0.00
	DNHDDPDCL	1230	0	28.6	29.1	-0.5	17	0.00
	AMNSIL	779	0	17.2	7.8	-0.3	215	0.00
	BALCO	517	0	12.3	12.4	-0.1	11	0.00
SR	Andhra Pradesh	11805	0	230.0	80.8	-0.7	414	0.00
	Telangana	14794	0	292.2	159.7	-0.1	760	0.00
	Karnataka	15543	0	280.3	83.0	-0.1	1074	0.00
	Kerala	4120	0	82.2	61.6	-0.3	195	0.00
	Tamil Nadu	16603	0	342.7	194.1	0.4	949	0.00
	Puducherry	399	0	9.0	9.0	-0.7	22	0.00
ER	Bihar	4844	0	88.5	78.9	-2.6	349	0.28
	DVC	3472	0	72.6	-48.2	0.9	203	0.00
	Jharkhand	1383	94	26.9	19.7	-1.0	144	6.11
	Odisha	5172	0	109.1	29.7	-0.4	621	0.00
	West Bengal	7380	0	157.7	26.1	-3.0	244	0.00
	Sikkim	114	0	1.8	1.5	0.3	47	0.00
NER	Arunachal Pradesh	151	0	2.7	2.5	0.1	25	0.00
	Assam	1580	0	26.3	20.7	0.0	135	0.15
	Manipur	203	0	2.9	2.9	-0.1	27	0.00
	Meghalaya	376	0	6.6	6.4	-0.2	42	0.00
	Mizoram	119	0	1.8	1.5	-0.2	17	0.00
	Nagaland	149	0	2.3	2.3	-0.1	4	0.00
	Tripura	249	0	4.1	3.2	-0.2	15	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-1.5	-9.1	-23.9	0.3
Day Peak (MW)	-211.7	-558.6	-1069.0	21.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	144.8	-135.2	141.5	-147.5	-3.5	0.0
Actual(MU)	137.4	-122.1	135.5	-149.5	-4.9	-3.7
O/D/U/D(MU)	-7.4	13.1	-6.0	-2.0	-1.4	-3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7452	16409	4158	2355	630	31004	51
State Sector	10880	10911	4326	3530	162	29808	49
Total	18332	27320	8484	5885	792	60812	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	717	1459	721	653	17	3568	77
Lignite	27	12	60	0	0	99	2
Hydro	132	74	85	28	8	326	7
Nuclear	20	37	70	0	0	127	3
Gas, Naptha & Diesel	9	19	6	0	33	67	1
RES (Wind, Solar, Biomass & Others)	122	118	231	4	1	476	10
Total	1028	1719	1173	685	58	4663	100

Share of RES in total generation (%)	11.90	6.89	19.66	0.56	1.67	10.21
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.70	13.32	32.86	4.63	14.75	19.92

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.041

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**

*****Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)**

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 01-Mar-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	6.6	-6.6
3	765 kV	GAYA-VARANASI	2	0	757	0.0	13.4	-13.4
4	765 kV	SASARAM-FATEHPUR	1	0	320	0.0	5.9	-5.9
5	765 kV	GAYA-BALIA	1	0	632	0.0	10.1	-10.1
6	400 kV	PUSAULI-VARANASI	1	0	196	0.0	4.0	-4.0
7	400 kV	PUSAULI - ALLAHABAD	1	0	166	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	640	0.0	8.5	-8.5
9	400 kV	PATNA-BALIA	2	0	573	0.0	10.5	-10.5
10	400 kV	NAUBATPUR-BALIA	2	0	510	0.0	8.1	-8.1
11	400 kV	BIHARSHARIFF-BALIA	2	0	375	0.0	5.9	-5.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	399	0.0	6.9	-6.9
13	400 kV	BIHARSHARIFF-VARANASI	2	0	306	0.0	5.0	-5.0
14	220 kV	SAHUPURI-KARAMNASA	1	0	152	0.0	2.5	-2.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	26	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	90.4	-89.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1051	312	8.9	0.0	8.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	611	648	0.0	3.1	-3.1
3	765 kV	JHARSUGUDA-DURG	2	0	887	0.0	14.9	-14.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	733	0.0	14.7	-14.7
5	400 kV	RANCHI-SIPAT	2	30	271	0.0	3.8	-3.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	212	0.0	3.9	-3.9
7	220 kV	BUDHIPADAR-KORBA	2	0	114	0.0	1.6	-1.6
					ER-WR	8.9	42.0	-33.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	550	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1246	0.0	30.1	-30.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2763	0.0	50.5	-50.5
4	400 kV	TALCHER-I/C	2	669	0	14.3	0.0	14.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	93.2	-93.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	207	0	3.1	0.0	3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	701	0	11.2	0.0	11.2
3	220 kV	ALIPURDUAR-SALAKATI	2	69	0	1.1	0.0	1.1
					ER-NER	15.4	0.0	15.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	483	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	313	0.0	7.8	-7.8
2	HVDC	VINDHYACHAL B/B	-	452	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	785	0.0	13.8	-13.8
4	765 kV	GWALIOR-AGRA	2	0	1874	0.0	22.6	-22.6
5	765 kV	GWALIOR-PHAGI	2	0	1946	0.0	34.6	-34.6
6	765 kV	JABALPUR-ORAI	2	0	1080	0.0	28.4	-28.4
7	765 kV	GWALIOR-ORAI	1	1032	0	19.4	0.0	19.4
8	765 kV	SATNA-ORAI	1	0	954	0.0	17.6	-17.6
9	765 kV	BANASKANTHA-CHITORGARH	2	2215	0	36.3	0.0	36.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	2198	0.0	28.1	-28.1
11	400 kV	ZERDA-KANKROLI	1	311	0	4.9	0.0	4.9
12	400 kV	ZERDA -BHINMAL	1	536	45	5.3	0.0	5.3
13	400 kV	VINDHYACHAL -RIHAND	1	477	0	10.8	0.0	10.8
14	400 kV	RAPP-SHUJALPUR	2	342	513	1.3	3.5	-2.1
15	220 kV	BHANPURA-RANPUR	1	0	149	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
17	220 kV	MEHGAON-AURAIYA	1	111	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	84	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	93.4	160.0	-66.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	312	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	4008	0.0	50.7	-50.7
3	765 kV	SOLAPUR-RAICHUR	2	636	1380	2.1	8.6	-6.6
4	765 kV	WARDHA-NIZAMABAD	2	0	3142	0.0	52.0	-52.0
5	400 kV	KOLHAPUR-KUDGI	2	1367	0	25.4	0.0	25.4
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	130	2.4	0.0	2.4
					WR-SR	29.9	118.5	-88.7

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	-1.58
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	157	0	58	1.57
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.91
	NER	132kV GELEPHU-SALAKATI	27	12	19	0.46
	NER	132kV MOTANGA-RANGIA	-10	5	-3	-0.08
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-53	0	-30	-0.72
	ER	NEPAL IMPORT (FROM BIHAR)	-141	-37	-63	-1.50
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-365	-36	-288	-6.91
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-930	-764	-889	-21.33
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	22	0	13	0.32
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-139	0	-109	-2.62