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: 22 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 21.02.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21- 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 21st 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: 22-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)	48202	62703	48000	21386	2563	182854
Peak Shortage (MW)	2060	0	0	620	0	2680
Energy Met (MU)	1110	1477	1215	470	46	4318
Hydro Gen (MU)	141	77	105	33	8	364
Wind Gen (MU)	13	72	25	-	-	111
Solar Gen (MU)*	120.57	70.25	134.54	5.68	0.26	331
Energy Shortage (MU)	28.28	0.79	4.00	4.65	0.02	37.74
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55185	69666	59756	22230	2684	206587
Time Of Maximum Demand Met (From NLDC SCADA)	10:37	10:46	10:56	18:40	17:59	10:45

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	0.058	0.02	1.56	12.70	14.28	73.52	12.20

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	6879	0	147.7	68.9	-0.5	132	2.74
	Haryana	7718	0	143.9	70.0	-0.6	117	0.00
	Rajasthan	15976	5	292.1	98.6	-0.6	121	23.31
	Delhi	3748	0	68.1	57.2	-1.7	91	0.00
	UP	16650	0	329.5	88.8	1.6	746	0.00
	Uttarakhand	2060	150	39.0	26.9	0.1	141	1.05
	HP	1753	0	30.1	22.6	-0.2	50	1.18
	J&K(UT) & Ladakh(UT)	2665	0	56.2	50.7	-1.8	98	0.00
	Chandigarh	210	0	3.4	3.7	-0.2	23	0.00
WR	Chhattisgarh	5205	0	114.6	61.4	0.1	534	0.54
	Gujarat	18565	0	409.4	197.7	-2.7	706	0.00
	MP	14777	0	302.9	180.4	-3.4	487	0.00
	Maharashtra	28451	0	577.0	178.5	3.8	684	0.25
	Goa	686	0	14.2	13.8	0.3	245	0.00
	DNHDDPDCL	1255	0	28.9	29.1	-0.2	131	0.00
	AMNSIL	833	0	17.8	9.6	0.0	261	0.00
	BALCO	516	0	12.3	12.4	-0.1	514	0.00
SR	Andhra Pradesh	11748	0	227.7	99.5	0.6	531	0.00
	Telangana	14332	0	280.0	167.5	-0.2	906	0.00
	Karnataka	15404	0	281.2	90.4	6.2	1205	4.00
	Kerala	4210	0	85.3	60.1	0.2	221	0.00
	Tamil Nadu	16196	0	331.6	192.5	0.3	577	0.00
	Puducherry	401	0	8.9	8.9	-0.7	29	0.00
ER	Bihar	4768	0	90.0	78.4	0.5	204	0.93
	DVC	3671	0	76.3	-38.7	-0.3	219	0.00
	Jharkhand	1487	146	27.7	20.7	-1.1	97	3.72
	Odisha	5525	0	120.2	34.4	-0.9	375	0.00
	West Bengal	7238	0	153.2	18.2	-2.5	233	0.00
	Sikkim	109	0	2.2	1.4	0.7	57	0.00
NER	Arunachal Pradesh	146	0	2.4	2.2	0.1	58	0.00
	Assam	1505	0	26.5	20.7	0.2	107	0.02
	Manipur	209	0	2.9	2.9	0.0	31	0.00
	Meghalaya	385	0	6.9	5.6	0.0	39	0.00
	Mizoram	121	0	1.8	1.6	-0.3	7	0.00
	Nagaland	132	0	2.1	2.0	-0.1	24	0.00
	Tripura	243	0	4.0	3.1	-0.3	10	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-2.8	-9.4	-21.7	0.1
Day Peak (MW)	-272.1	-216.1	-1050.0	6.1

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	130.5	-151.8	199.2	-175.5	-2.4	0.0
Actual(MU)	113.9	-142.9	206.1	-178.7	-3.8	-5.3
O/D/U/D(MU)	-16.6	8.9	6.9	-3.2	-1.3	-5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7064	15536	5008	1100	699	29406	47
State Sector	10965	13954	5726	2302	99	33045	53
Total	18028	29489	10734	3402	798	62451	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	713	1449	649	686	17	3513	75
Lignite	30	14	64	0	0	108	2
Hydro	141	77	105	33	8	364	8
Nuclear	20	37	71	0	0	128	3
Gas, Naptha & Diesel	15	18	6	0	32	71	2
RES (Wind, Solar, Biomass & Others)	158	145	184	5	0	492	11
Total	1077	1739	1079	724	57	4677	100

Share of RES in total generation (%)	14.70	8.31	17.08	0.68	0.45	10.53
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.65	14.85	33.38	5.29	14.75	21.05

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.014
Based on State Max Demands	1.044

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: 22-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	7.4	-7.4
3	765 kV	GAYA-VARANASI	2	0	661	0.0	13.9	-13.9
4	765 kV	SASARAM-FATEHPUR	1	0	488	0.0	9.9	-9.9
5	765 kV	GAYA-BALIA	1	0	586	0.0	9.9	-9.9
6	400 kV	PUSAULI-VARANASI	1	0	186	0.0	4.0	-4.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	168	0.0	3.4	-3.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	586	0.0	8.1	-8.1
9	400 kV	PATNA-BALIA	2	0	544	0.0	10.9	-10.9
10	400 kV	NAUBATPUR-BALIA	2	0	578	0.0	11.1	-11.1
11	400 kV	BIHARSHARIFF-BALIA	2	0	283	0.0	2.9	-2.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	460	0.0	7.8	-7.8
13	400 kV	BIHARSHARIFF-VARANASI	2	0	409	0.0	7.8	-7.8
14	220 kV	SAHUPURI-KARAMNASA	1	0	112	0.0	1.7	-1.7
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	46	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	98.6	-98.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1337	0	21.7	0.0	21.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	86	1038	0.0	14.8	-14.8
3	765 kV	JHARSUGUDA-DURG	2	0	619	0.0	11.6	-11.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	801	0.0	12.9	-12.9
5	400 kV	RANCHI-SIPAT	2	0	378	0.0	6.6	-6.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	198	0.0	3.7	-3.7
7	220 kV	BUDHIPADAR-KORBA	2	21	92	0.0	0.9	-0.9
					ER-WR	21.7	50.5	-28.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	435	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	43.2	-43.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	3191	0.0	63.5	-63.5
4	400 kV	TALCHER-I/C	2	406	647	0.0	1.2	-1.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	116.5	-116.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	214	0	2.9	0.0	2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	725	0	10.9	0.0	10.9
3	220 kV	ALIPURDUAR-SALAKATI	2	75	0	1.1	0.0	1.1
					ER-NER	14.8	0.0	14.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	481	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	1010	0.0	23.8	-23.8
2	HVDC	VINDHYACHAL B/B	-	253	0	6.7	0.0	6.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	310	0.0	3.4	-3.4
4	765 kV	GWALIOR-AGRA	2	166	1511	0.0	15.3	-15.3
5	765 kV	GWALIOR-PHAGI	2	0	1760	0.0	27.9	-27.9
6	765 kV	JABALPUR-ORAI	2	0	928	0.0	20.8	-20.8
7	765 kV	GWALIOR-ORAI	1	925	0	17.0	0.0	17.0
8	765 kV	SATNA-ORAI	1	0	857	0.0	16.2	-16.2
9	765 kV	BANASKANTHA-CHITORGARH	2	2019	0	37.0	0.0	37.0
10	765 kV	VINDHYACHAL-VARANASI	2	130	1561	0.0	14.5	-14.5
11	400 kV	ZERDA-KANKROLI	1	308	0	5.3	0.0	5.3
12	400 kV	ZERDA -BHINMAL	1	516	11	7.0	0.0	7.0
13	400 kV	VINDHYACHAL -RIHAND	1	504	0	11.0	0.0	11.0
14	400 kV	RAPP-SHUJALPUR	2	324	414	2.6	1.5	1.1
15	220 kV	BHANPURA-RANPUR	1	0	165	0.0	2.6	-2.6
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
17	220 kV	MEHGAON-AURAIYA	1	116	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	85	0	2.1	0.0	2.1
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	90.2	127.5	-37.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	689	1012	1.1	13.8	-12.7
2	HVDC	RAIGARH-PUGALUR	2	0	4007	0.0	55.4	-55.4
3	765 kV	SOLAPUR-RAICHUR	2	178	2000	0.0	26.9	-26.8
4	765 kV	WARDHA-NIZAMABAD	2	0	3371	0.0	61.3	-61.3
5	400 kV	KOLHAPUR-KUDGI	2	1248	0	19.6	0.0	19.6
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	132	2.5	0.0	2.5
					WR-SR	23.2	157.3	-134.2

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	-1.69
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	160	0	54	1.45
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-2.11
	NER	132kV GELEPHU-SALAKATI	-27	-10	-18	-0.44
	NER	132kV MOTANGA-RANGIA	-10	8	-1	-0.03
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.00
	ER	NEPAL IMPORT (FROM BIHAR)	138	95	-121	-2.92
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-354	0	-270	-6.48
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-923	-634	-795	-19.09
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	6	0	4	0.10
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-127	0	-109	-2.62