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: 21 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 20.02.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20- 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 20th 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: 21-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)	49353	62287	47004	21426	2641	182711
Peak Shortage (MW)	356	0	0	404	0	760
Energy Met (MU)	1113	1462	1200	459	47	4281
Hydro Gen (MU)	144	66	94	30	8	342
Wind Gen (MU)	38	61	28	-	-	127
Solar Gen (MU)*	126.42	66.06	130.87	2.73	0.51	327
Energy Shortage (MU)	2.99	0.41	2.00	3.63	0.62	9.65
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57390	69445	58568	22251	2763	205523
Time Of Maximum Demand Met (From NLDC SCADA)	09:49	10:50	15:35	18:29	18:07	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	0.061	0.00	1.12	7.33	8.45	65.29	26.26

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	7392	0	154.6	65.5	-1.1	152	0.69
	Haryana	7725	0	140.3	67.6	-0.6	123	0.00
	Rajasthan	15283	0	297.0	79.5	-1.3	227	1.66
	Delhi	3660	0	66.4	56.6	-2.6	162	0.00
	UP	17009	0	325.4	96.0	-1.8	450	0.00
	Uttarakhand	2041	0	39.2	26.7	0.3	173	0.64
	HP	1734	0	30.1	22.0	-0.1	85	0.00
	J&K(UT) & Ladakh(UT)	2733	0	56.8	49.6	-2.1	13	0.00
	Chandigarh	210	0	3.4	3.7	-0.3	12	0.00
WR	Chhattisgarh	5184	0	112.9	60.4	-1.2	453	0.41
	Gujarat	19185	0	408.7	197.4	-3.6	810	0.00
	MP	14717	0	299.6	185.9	-2.6	522	0.00
	Maharashtra	27944	0	568.1	181.3	-1.1	789	0.00
	Goa	675	0	13.5	13.3	0.0	76	0.00
	DNHDDPDCL	1245	0	28.4	28.6	-0.2	60	0.00
	AMNSIL	838	0	18.4	10.7	0.5	292	0.00
	BALCO	517	0	12.3	12.4	-0.1	8	0.00
SR	Andhra Pradesh	11809	0	224.3	101.2	-0.1	667	0.00
	Telangana	14162	0	282.1	159.4	-0.2	798	0.00
	Karnataka	15244	0	274.8	90.1	2.8	1148	2.00
	Kerala	4135	0	82.4	60.2	0.0	276	0.00
	Tamil Nadu	15739	0	328.1	190.0	0.6	511	0.00
	Puducherry	393	0	8.6	8.7	-0.8	18	0.00
ER	Bihar	4916	0	87.4	77.5	-2.2	187	0.19
	DVC	3648	0	75.7	-36.3	0.2	190	0.00
	Jharkhand	1462	0	28.3	21.0	-1.4	83	3.44
	Odisha	5646	0	119.5	36.4	-0.5	476	0.00
	West Bengal	7223	0	145.7	11.8	-3.9	230	0.00
	Sikkim	105	0	2.1	1.4	0.7	52	0.00
NER	Arunachal Pradesh	144	0	2.4	2.2	0.0	39	0.00
	Assam	1580	0	27.0	20.3	0.6	114	0.62
	Manipur	210	0	2.9	2.9	0.0	28	0.00
	Meghalaya	368	0	6.8	6.0	-0.1	33	0.00
	Mizoram	125	0	1.9	1.6	-0.2	17	0.00
	Nagaland	142	0	2.1	2.2	-0.1	21	0.00
	Tripura	239	0	3.9	3.5	-0.1	22	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-1.8	-9.4	-23.0
Day Peak (MW)	-217.4	-488.3	-1058.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	102.2	-135.8	201.2	-168.0	0.5	0.0
Actual(MU)	80.8	-127.4	209.0	-171.7	-0.5	-9.8
O/D/U/D(MU)	-21.3	8.5	7.8	-3.7	-1.0	-9.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6773	15226	5888	1900	644	30430	48
State Sector	10915	13164	6146	3112	146	33482	52
Total	17688	28389	12034	5012	790	63912	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	713	1455	637	669	14	3487	75
Lignite	30	14	64	0	0	108	2
Hydro	144	66	94	30	8	342	7
Nuclear	20	37	76	0	0	133	3
Gas, Naptha & Diesel	14	16	7	0	32	69	1
RES (Wind, Solar, Biomass & Others)	189	129	185	3	1	508	11
Total	1111	1717	1064	702	54	4647	100

Share of RES in total generation (%)	17.04	7.54	17.42	0.49	0.94	10.93
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.84	13.52	33.46	4.74	15.83	21.16

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.048

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: 21-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	586	0.0	11.8	-11.8
4	765 kV	SASARAM-FATEHPUR	1	0	427	0.0	7.4	-7.4
5	765 kV	GAYA-BALIA	1	0	537	0.0	9.1	-9.1
6	400 kV	PUSAULI-VARANASI	1	0	197	0.0	4.1	-4.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	168	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	648	0.0	8.1	-8.1
9	400 kV	PATNA-BALIA	2	0	492	0.0	9.6	-9.6
10	400 kV	NAUBATPUR-BALIA	2	0	527	0.0	10.2	-10.2
11	400 kV	BIHARSHARIFF-BALIA	2	39	231	0.0	2.3	-2.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	437	0.0	7.4	-7.4
13	400 kV	BIHARSHARIFF-VARANASI	2	0	377	0.0	6.6	-6.6
14	220 kV	SAHUPURI-KARAMNASA	1	0	104	0.0	1.4	-1.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	45	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	88.3	-87.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1572	0	24.0	0.0	24.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	981	0.0	13.5	-13.5
3	765 kV	JHARSUGUDA-DURG	2	0	643	0.0	11.3	-11.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	702	0.0	12.6	-12.6
5	400 kV	RANCHI-SIPAT	2	0	367	0.0	5.0	-5.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	170	0.0	3.1	-3.1
7	220 kV	BUDHIPADAR-KORBA	2	30	70	0.0	0.5	-0.5
					ER-WR	24.0	46.0	-22.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	456	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	41.3	-41.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	3115	0.0	61.2	-61.2
4	400 kV	TALCHER-I/C	2	0	716	0.0	8.7	-8.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	112.4	-112.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	148	0	2.1	0.0	2.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	547	0	8.3	0.0	8.3
3	220 kV	ALIPURDUAR-SALAKATI	2	54	0	0.8	0.0	0.8
					ER-NER	11.1	0.0	11.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	482	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	1008	0.0	24.0	-24.0
2	HVDC	VINDHYACHAL B/B	-	250	0	6.7	0.0	6.7
3	HVDC	MUNDRA-MOHINDERGARH	2	301	314	0.0	1.0	-1.0
4	765 kV	GWALIOR-AGRA	2	118	1497	0.0	14.7	-14.6
5	765 kV	GWALIOR-PHAGI	2	0	1656	0.0	23.8	-23.8
6	765 kV	JABALPUR-ORAI	2	0	687	0.0	17.2	-17.2
7	765 kV	GWALIOR-ORAI	1	949	0	17.4	0.0	17.4
8	765 kV	SATNA-ORAI	1	0	757	0.0	15.2	-15.2
9	765 kV	BANASKANTHA-CHITORGARH	2	2222	0	38.7	0.0	38.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	1407	0.0	14.9	-14.9
11	400 kV	ZERDA-KANKROLI	1	362	0	6.4	0.0	6.4
12	400 kV	ZERDA -BHINMAL	1	681	0	10.4	0.0	10.4
13	400 kV	VINDHYACHAL -RIHAND	1	479	0	10.6	0.0	10.6
14	400 kV	RAPP-SHUJALPUR	2	575	275	5.0	0.8	4.2
15	220 kV	BHANPURA-RANPUR	1	0	154	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	125	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	94	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	98.9	115.6	-16.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	12.9	-12.9
2	HVDC	RAIGARH-PUGALUR	2	0	4013	0.0	65.4	-65.4
3	765 kV	SOLAPUR-RAICHUR	2	456	1890	0.1	20.4	-20.3
4	765 kV	WARDHA-NIZAMABAD	2	0	3377	0.0	57.5	-57.5
5	400 kV	KOLHAPUR-KUDGI	2	1245	0	21.3	0.0	21.3
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	123	2.4	0.0	2.4
					WR-SR	23.8	156.2	-132.4

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	-1.93
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	226	0	62	1.61
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-2.01
	NER	132kV GELEPHU-SALAKATI	24	0	17	0.41
	NER	132kV MOTANGA-RANGIA	14	-3	3	0.08
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.00
	ER	NEPAL IMPORT (FROM BIHAR)	-155	-66	-113	-2.72
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-333	-35	-279	-6.70
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-920	-730	-839	-20.14
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-138	0	-120	-2.88