



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रीड कंट्रोलर ऑफ इंडिया लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 23rd February 2023

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 22.02.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22- फ़रवरी-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध 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 22nd February 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 23-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)	49403	61751	47676	21726	2579	183135
Peak Shortage (MW)	1540	0	0	764	0	2304
Energy Met (MU)	1124	1473	1230	458	44	4330
Hydro Gen (MU)	136	81	89	30	8	343
Wind Gen (MU)	9	55	44	-	-	109
Solar Gen (MU)*	114.48	69.48	134.25	2.64	0.44	321
Energy Shortage (MU)	20.31	0.30	1.42	4.09	0.40	26.52
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56573	68865	60857	22002	2725	207215
Time Of Maximum Demand Met (From NLDC SCADA)	10:31	10:52	10:28	18:55	18:07	10:28

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	0.057	0.00	0.38	7.95	8.33	69.09	22.58

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	6755	0	147.3	65.5	-0.3	111	4.87
	Haryana	7702	0	143.2	68.3	-1.1	183	0.00
	Rajasthan	15843	2	304.1	104.7	-0.3	223	14.31
	Delhi	3855	0	67.9	58.1	-2.2	105	0.00
	UP	16401	0	328.1	93.0	-1.6	404	0.00
	Uttarakhand	2034	0	39.1	26.8	0.2	87	0.57
	HP	1850	0	32.8	24.7	0.3	105	0.00
	J&K(UT) & Ladakh(UT)	2723	0	58.5	52.4	0.0	121	0.56
	Chandigarh	210	0	3.4	3.5	-0.1	11	0.00
	Chhattisgarh	5251	0	115.5	62.3	0.3	319	0.00
WR	Gujarat	18214	0	403.2	193.9	-1.9	590	0.00
	MP	14824	0	302.0	180.3	-2.9	844	0.30
	Maharashtra	28499	0	578.5	178.9	0.8	1245	0.00
	Goa	687	0	14.4	13.7	0.5	44	0.00
	DNHDDPDCL	1261	0	29.2	29.2	0.0	200	0.00
	AMNSIL	861	0	18.0	11.2	0.1	301	0.00
	BALCO	516	0	12.3	12.4	-0.1	13	0.00
	Andhra Pradesh	11960	0	228.3	90.9	-1.3	314	0.00
	Telangana	14457	0	287.1	166.6	1.1	1138	0.00
	Karnataka	15289	0	282.4	94.5	2.2	951	1.42
SR	Kerala	4154	0	84.9	62.2	0.4	311	0.00
	Tamil Nadu	16140	0	339.1	196.6	-1.0	520	0.00
	Puducherry	392	0	8.2	8.5	-1.0	42	0.00
	Bihar	4991	0	88.2	80.7	-1.6	369	0.94
	DVC	3636	0	75.0	-39.7	-1.1	250	0.00
	Jharkhand	1400	69	28.3	21.3	-0.8	104	3.15
	Odisha	4928	0	110.0	23.4	-1.2	316	0.00
	West Bengal	7514	0	154.7	20.6	-3.1	86	0.00
	Sikkim	112	0	2.1	1.6	0.6	54	0.00
	NER	Arunachal Pradesh	124	0	2.3	2.4	-0.2	36
Assam		1553	0	24.7	19.8	-0.2	115	0.40
Manipur		204	0	2.9	2.9	0.0	35	0.00
Meghalaya		375	0	6.6	6.0	-0.2	39	0.00
Mizoram		124	0	1.8	1.6	-0.3	9	0.00
Nagaland		146	0	2.0	2.0	-0.1	21	0.00
Tripura		245	0	4.0	3.3	-0.1	19	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-1.6	-10.9	-23.3	0.1
Day Peak (MW)	-223.5	-182.0	-1074.0	6.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	141.1	-132.3	184.5	-191.2	-2.2	0.0
Actual(MU)	131.4	-124.8	186.3	-196.3	-4.8	-8.2
O/D/U/D(MU)	-9.7	7.5	1.7	-5.2	-2.5	-8.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7124	15251	4508	1100	699	28681	46
State Sector	10830	13864	5601	2552	162	33008	54
Total	17953	29114	10109	3652	860	61688	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	727	1439	684	704	16	3570	76
Lignite	33	14	65	0	0	112	2
Hydro	136	81	89	30	8	343	7
Nuclear	20	37	71	0	0	128	3
Gas, Naptha & Diesel	15	24	6	0	31	77	2
RES (Wind, Solar, Biomass & Others)	147	127	202	3	0	479	10
Total	1078	1721	1118	736	56	4709	100

Share of RES in total generation (%)	13.66	7.36	18.11	0.36	0.79	10.18
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.11	14.20	32.42	4.39	14.60	20.18

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.039

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: 23-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	704	0.0	14.8	-14.8
4	765 kV	SASARAM-FAITEHPUR	1	0	532	0.0	10.3	-10.3
5	765 kV	GAYA-BALIA	1	0	612	0.0	11.1	-11.1
6	400 kV	PUSAULI-VARANASI	1	0	181	0.0	3.8	-3.8
7	400 kV	PUSAULI-ALLAHABAD	1	0	170	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	590	0.0	8.0	-8.0
9	400 kV	PATNA-BALIA	2	0	516	0.0	11.2	-11.2
10	400 kV	NAIBATTI-BALIA	2	0	551	0.0	11.5	-11.5
11	400 kV	BIHARSHARIFE-BALIA	2	0	238	0.0	3.6	-3.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	395	0.0	7.6	-7.6
13	400 kV	BIHARSHARIFE-VARANASI	2	0	402	0.0	8.5	-8.5
14	220 kV	SAHUPUR-CHAKRAMANASA	1	0	117	0.0	1.6	-1.6
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	47	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	102.1	-101.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	638	634	1.8	0.0	1.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	225	903	0.0	10.4	-10.4
3	765 kV	JHARSUGUDA-DURG	2	0	856	0.0	15.0	-15.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	869	0.0	16.2	-16.2
5	400 kV	RANCHI-SIPAT	2	0	327	0.0	5.0	-5.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	219	0.0	3.9	-3.9
7	220 kV	BUDHIPADAR-KORBA	2	5	112	0.0	1.2	-1.2
ER-WR						1.8	51.8	-50.0
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	1985	0.0	41.2	-41.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	3205	0.0	60.5	-60.5
4	400 kV	TALCHER-I/C	2	269	240	3.1	0.0	3.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	111.6	-111.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAOON	2	222	0	2.9	0.0	2.9
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	750	0	10.8	0.0	10.8
3	220 kV	ALIPURDUAR-SALAKATI	2	76	0	1.1	0.0	1.1
ER-NER						14.7	0.0	14.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	482	0	10.9	0.0	10.9
NER-NR						10.9	0.0	10.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1010	0.0	24.1	-24.1
2	HVDC	VINDHYACHAL B/B	-	452	0	10.7	0.0	10.7
3	HVDC	MUNDRA-MOHENDERGARH	2	0	246	0.0	0.5	-0.5
4	765 kV	GWALIOR-AGRA	2	0	1881	0.0	19.5	-19.5
5	765 kV	GWALIOR-PHAGI	2	0	1812	0.0	31.0	-31.0
6	765 kV	JABALPUR-ORAI	2	0	1039	0.0	27.1	-27.1
7	765 kV	GWALIOR-ORAI	1	914	0	17.1	0.0	17.1
8	765 kV	SATNA-ORAI	1	0	896	0.0	16.2	-16.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1872	0	33.2	0.0	33.2
10	765 kV	VINDHYACHAL-VARANASI	2	119	1604	0.0	15.4	-15.4
11	400 kV	ZERDA-KANKROLI	1	264	0	4.3	0.0	4.3
12	400 kV	ZERDA-BHINMAL	1	450	0	5.6	0.0	5.6
13	400 kV	VINDHYACHAL -RIHAND	1	496	0	10.9	0.0	10.9
14	400 kV	RAPP-SHUJALPUR	2	339	457	1.4	2.1	-0.7
15	220 kV	BHANPURA-RANPUR	1	0	164	0.0	2.8	-2.8
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3
17	220 kV	MEHGANOON-AURAIYA	1	102	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	78	0	1.8	0.0	1.8
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						86.2	140.0	-53.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	14.1	-14.1
2	HVDC	RAIGARH-PUGALUR	2	0	5007	0.0	61.9	-61.9
3	765 kV	SOLAPUR-RAICHUR	2	375	1652	0.2	16.1	-15.8
4	765 kV	WARDHA-NIZAMABAD	2	0	3219	0.0	54.4	-54.4
5	400 kV	KOLHAPUR-KUDGI	2	1375	0	22.9	0.0	22.9
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						25.6	146.5	-120.9

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	0	0	0	-1.72
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	199	0	67	1.72
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*90MW)	0	0	0	-2.07
	NER	132kV GELEPHU-SALAKATI	26	14	21	0.50
	NER	132kV MOTANGA-RANGIA	12	-15	0	0.00
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.00
	ER	NEPAL IMPORT (FROM BIHAR)	160	113	-159	-3.81
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-342	2	-295	-7.09
	ER	BHERAMARA B/B HVDC (B'DESH)	-928	-738	-851	-20.41
	ER (Isolated from Indian Grid)	400kV GODDA, TPS-RAHANPUR (B'DESH) D/C	6	2	5	0.11
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-146	0	-121	-2.90