



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: 13th March 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 12.03.2023.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-मार्च -2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेंकें 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 12th March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 13-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)	48836	57683	43936	21636	2629	174720
Peak Shortage (MW)	0	80	0	321	0	401
Energy Met (MU)	1074	1387	1196	473	47	4176
Hydro Gen (MU)	142	28	51	25	8	254
Wind Gen (MU)	6	51	82	-	-	138
Solar Gen (MU)*	111.33	59.54	132.08	2.71	0.88	307
Energy Shortage (MU)	0.09	0.50	0.00	2.37	0.00	2.96
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51640	63947	57276	22494	2634	194916
Time Of Maximum Demand Met (From NLDC SCADA)	11:27	10:51	11:00	18:31	18:02	11:23

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	1.69	9.80	11.49	66.94	21.57

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	7330	0	152.7	39.2	-0.6	168	0.00
	Haryana	6770	0	132.4	94.0	-0.8	109	0.00
	Rajasthan	13463	0	265.7	83.7	-3.2	50	0.00
	Delhi	3363	0	65.5	64.9	-1.4	105	0.00
	UP	17911	0	334.7	70.7	-0.5	363	0.09
	Uttarakhand	1920	0	37.3	28.7	0.4	194	0.00
	HP	1641	0	29.7	22.0	-0.4	93	0.00
	J&K(UT) & Ladakh(UT)	2619	0	52.5	44.2	-1.4	125	0.00
	Chandigarh	170	0	3.1	3.1	0.0	11	0.00
	Chhattisgarh	5182	0	118.5	65.5	-0.7	189	0.00
WR	Gujarat	17667	0	391.7	245.1	3.5	1151	0.00
	MP	11925	0	246.2	130.4	-5.0	377	0.50
	Maharashtra	26697	0	560.3	183.1	-0.4	702	0.00
	Goa	615	0	12.1	12.7	-0.8	48	0.00
	DNHDDPDCL	1198	0	28.0	28.4	-0.4	36	0.00
	AMNSIL	811	0	17.6	11.4	-0.2	261	0.00
	BALCO	518	0	12.4	12.5	-0.1	6	0.00
	Andhra Pradesh	11653	0	223.2	76.9	-0.8	457	0.00
	Telangana	14200	0	290.8	157.2	-0.6	542	0.00
	Karnataka	13530	0	261.3	102.4	-3.2	566	0.00
SR	Kerala	4234	0	81.6	68.9	-0.4	192	0.00
	Tamil Nadu	15305	0	330.5	193.8	-5.7	439	0.00
	Puducherry	359	0	8.5	8.4	-0.6	21	0.00
	Bihar	5148	0	96.4	84.5	-0.2	181	0.37
	DVC	3553	0	71.8	51.2	-0.5	253	0.00
	Jharkhand	1464	0	27.1	24.5	-2.0	205	2.00
	Odisha	5759	0	122.6	41.9	-2.4	307	0.00
	West Bengal	7285	0	154.8	19.4	-3.3	430	0.00
	Sikkim	36	0	0.6	0.9	-0.3	10	0.00
	NER	Arunachal Pradesh	146	0	2.2	2.3	-0.2	39
Assam		1541	0	27.6	21.5	0.5	118	0.00
Manipur		184	0	2.6	2.7	0.0	18	0.00
Meghalaya		350	0	6.6	5.4	0.1	45	0.00
Mizoram		101	0	1.8	1.5	-0.1	19	0.00
Nagaland		136	0	2.3	2.3	-0.1	13	0.00
Tripura		247	0	3.9	3.6	0.1	38	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-2.7	-12.9	-24.1	0.1
Day Peak (MW)	-251.0	-602.4	-1068.0	78.3

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	100.5	-127.6	183.4	-159.1	2.8	0.0
Actual(MU)	132.1	-142.3	163.4	-163.0	3.4	-6.3
O/D/U/D(MU)	31.7	-14.7	-20.0	-3.9	0.6	-6.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7864	12224	3728	2257	825	26898	46
State Sector	8621	14883	5436	2760	283	31982	54
Total	16485	27107	9164	5017	1108	58880	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	709	1413	675	694	11	3502	77
Lignite	27	23	64	0	0	114	3
Hydro	142	28	51	25	8	254	6
Nuclear	25	35	76	0	0	136	3
Gas, Naptha & Diesel	4	4	6	0	31	46	1
RES (Wind, Solar, Biomass & Others)	141	112	237	4	1	495	11
Total	1049	1614	1110	723	50	4546	100

Share of RES in total generation (%)	13.48	6.91	21.33	0.57	1.75	10.88
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.40	10.81	32.82	4.03	17.11	19.46

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.046

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: 13-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	7.2	-7.2
3	765 kV	GAYA-VARANASI	2	0	865	0.0	14.7	-14.7
4	765 kV	SASARAM-FAZLKHUR	1	0	392	0.0	6.6	-6.6
5	765 kV	GAYA-BALIA	1	0	662	0.0	10.6	-10.6
6	400 kV	PUSAULI-VARANASI	1	0	202	0.0	4.0	-4.0
7	400 kV	PUSAULI-ALLAHABAD	1	0	185	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	41	660	0.0	6.4	-6.4
9	400 kV	PATNA-BALIA	2	0	506	0.0	8.1	-8.1
10	400 kV	NAUBATTI-R-BALIA	2	0	538	0.0	8.3	-8.3
11	400 kV	BIHARSHARIFE-BALIA	2	98	297	0.0	2.4	-2.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	413	0.0	5.6	-5.6
13	400 kV	BIHARSHARIFE-VARANASI	2	0	365	0.0	4.8	-4.8
14	220 kV	SAHUPUR-BAKRAMANASA	1	0	161	0.0	2.5	-2.5
15	132 kV	NAGARJUNTA-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	36	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0
ER-NR						0.4	84.5	-84.1
Import/Export of ER (With WR)								
1	765 kV	JHARSI-GUDA-DHARAMJIAGARH	4	912	166	10.7	0.0	10.7
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	307	965	0.0	5.3	-5.3
3	765 kV	JHARSI-GUDA-DURG	2	0	1045	0.0	18.3	-18.3
4	400 kV	JHARSI-GUDA-RAIGARH	4	0	763	0.0	12.9	-12.9
5	400 kV	RANCHI-SIPA	2	0	342	0.0	4.2	-4.2
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	208	0.0	3.9	-3.9
7	220 kV	BUDDHIPADAR-KORBA	2	0	105	0.0	1.1	-1.1
ER-WR						10.7	45.8	-35.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZI-WAKA B/B	2	0	325	0.0	7.3	-7.3
2	HVDC	TALCHER-KOLAR BIPPLE	2	0	1983	0.0	43.7	-43.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2944	0.0	52.1	-52.1
4	400 kV	TALCHER-I/C	2	259	242	0.7	0.0	0.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	103.1	-103.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAOON	2	109	29	1.2	0.1	1.2
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	444	0	5.6	0.0	5.6
3	220 kV	ALIPURDUAR-SALAKATI	2	68	0	0.7	0.0	0.7
ER-NER						7.5	0.1	7.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	484	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	1206	0.0	28.5	-28.5
2	HVDC	VINDHYACHAL B/B	-	183	0	4.9	0.0	4.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	601	0.0	14.2	-14.2
4	765 kV	GWALIOR-AGRA	2	311	1822	0.0	18.9	-18.9
5	765 kV	GWALIOR-PHAGI	2	0	2952	0.0	35.3	-35.3
6	765 kV	JABALPUR-ORAI	2	0	968	0.0	22.7	-22.7
7	765 kV	GWALIOR-ORAI	1	968	0	18.2	0.0	18.2
8	765 kV	SATNA-ORAI	1	0	971	0.0	17.1	-17.1
9	765 kV	BANASKANTHA-CHITORGARH	2	2455	0	45.6	0.0	45.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	1850	0.0	25.9	-25.9
11	400 kV	ZERDA-KANKROLI	1	420	0	7.3	0.0	7.3
12	400 kV	ZERDA-BHINMAL	1	651	0	8.9	0.0	8.9
13	400 kV	VINDHYACHAL-RIHAND	1	582	0	11.1	0.0	11.1
14	400 kV	RAPS-SHILAPUR	2	230	490	0.0	2.9	-2.9
15	220 kV	BHANPURA-BANPUR	1	0	138	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
17	220 kV	MEHGAON-AURAIYA	1	116	0	0.0	0.0	0.0
18	220 kV	MALANPUR-AURAIYA	1	0	87	0.0	1.5	-1.5
19	132 kV	GWALIOR-SAWALMADHOPUR	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						98.3	168.7	-70.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	11.5	-11.5
2	HVDC	BAHARH-PUGA LUR	2	0	6171	0.0	32.5	-32.5
3	765 kV	KOLHAPUR-RAICHUR	2	1426	1580	1.6	0.0	1.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2955	0.0	43.1	-43.1
5	400 kV	KOLHAPUR-KUDGI	2	1681	0	26.3	0.0	26.3
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	BONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	NELDEMI-AMBEWADI	1	0	122	2.3	0.0	2.3
WR-SR						30.2	137.1	-106.9
INTERNATIONAL EXCHANGES								
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 MANGDECHHU HEP 4180MW)	0	0	0	-1.89		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 66170MW)	160	0	51	1.22		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4584MW)	0	0	0	-1.75		
	NER	132kV GELEPHU-SALAKATI	-22	-7	-14	-0.34		
NEPAL	NER	132kV MOTANGA-RANGIA	15	-5	3	0.06		
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-65	-1.55		
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-376	-287	-338	-8.10		
	ER (Isolated from Indian Grid)	BHERAMARA B/B HVDC (B'DESH) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-902 78	-786 -44	-860 3	-20.65 0.07		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-166	0	-142	-3.41		