



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: 21th 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 20.03.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-मार्च -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 20th March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 21-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)	43151	56985	47223	19585	2602	169546
Peak Shortage (MW)	0	0	0	207	0	207
Energy Met (MU)	904	1261	1099	402	43	3709
Hydro Gen (MU)	126	36	53	25	10	250
Wind Gen (MU)	5	59	56	-	-	119
Solar Gen (MU)*	127.86	62.95	127.16	1.87	0.52	320
Energy Shortage (MU)	0.71	0.00	0.00	0.84	0.00	1.55
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	44950	58560	52817	20123	2686	174631
Time Of Maximum Demand Met (From NLDC SCADA)	19:22	10:55	11:58	18:31	18:08	10:55

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	0.068	0.00	0.60	7.71	8.31	60.69	31.00

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	6083	0	121.0	39.5	-1.1	136	0.00
	Haryana	6073	0	111.9	73.3	-0.9	215	0.00
	Rajasthan	10336	0	203.2	52.1	-2.7	193	0.00
	Delhi	3633	0	67.8	67.1	-1.1	192	0.00
	UP	14364	0	272.2	69.0	-1.6	407	0.00
	Uttarakhand	1961	0	38.1	29.9	0.1	99	0.11
	HP	1794	0	32.1	24.3	-0.2	67	0.60
	J&K(UT) & Ladakh(UT)	2732	0	54.2	46.4	-0.8	116	0.00
	Chandigarh	187	0	3.2	3.5	-0.2	28	0.00
	Chhattisgarh	4585	0	90.2	40.5	-1.1	604	0.00
WR	Gujarat	17552	0	375.3	209.0	-2.0	707	0.00
	MP	9973	0	191.0	85.1	-3.0	1359	0.00
	Maharashtra	25481	0	531.3	173.6	-3.4	681	0.00
	Goa	682	0	13.7	13.8	-0.4	52	0.00
	DNHDDPDCL	1255	0	28.7	29.0	-0.3	27	0.00
	AMNSIL	869	0	18.7	10.0	0.2	293	0.00
	BALCO	518	0	12.3	12.5	-0.2	4	0.00
	Andhra Pradesh	8540	0	183.4	58.4	-1.5	1039	0.00
	Telangana	11348	0	225.2	121.9	0.6	2170	0.00
	Karnataka	14078	0	267.7	117.7	-0.8	755	0.00
SR	Kerala	4339	0	88.2	75.1	-0.4	89	0.00
	Tamil Nadu	15769	0	326.4	204.0	-4.1	457	0.00
	Puducherry	342	0	8.2	8.8	-1.3	34	0.00
	Bihar	3952	0	75.1	67.2	-2.7	304	0.25
	DVC	3555	0	73.1	-38.7	0.6	364	0.00
	Jharkhand	1254	0	22.9	18.4	-3.3	93	0.59
	Odisha	4868	0	97.4	20.9	-2.0	349	0.00
	West Bengal	6750	0	132.2	10.7	-4.4	76	0.00
	Sikkim	110	0	1.7	1.6	0.1	74	0.00
	NER	Arunachal Pradesh	157	0	2.7	2.7	0.0	34
Assam		1537	0	23.8	17.7	-0.2	115	0.00
Manipur		197	0	2.6	2.7	-0.1	53	0.00
Meghalaya		361	0	6.4	4.9	0.0	57	0.00
Mizoram		115	0	1.8	1.6	-0.1	17	0.00
Nagaland		142	0	2.2	2.2	-0.1	10	0.00
Tripura		215	0	3.3	2.5	-0.4	51	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-0.3	-10.9	-22.6	-7.6
Day Peak (MW)	-20.8	-540.3	-1037.0	-562.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	58.0	-117.2	197.3	-137.7	-0.4	0.0
Actual(MU)	44.0	-108.2	197.3	-137.7	0.5	-4.0
O/D/U/D(MU)	-14.0	9.0	0.0	0.1	0.9	-4.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6618	15971	4638	2397	859	30483	50
State Sector	9871	12991	5663	2160	283	30967	50
Total	16489	28962	10301	4557	1142	61450	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	599	1261	560	602	8	3030	75
Lignite	27	19	55	0	0	101	2
Hydro	126	36	53	25	10	250	6
Nuclear	25	30	76	0	0	131	3
Gas, Naptha & Diesel	3	14	5	0	30	52	1
RES (Wind, Solar, Biomass & Others)	158	124	213	3	1	498	12
Total	937	1484	964	630	48	4062	100

Share of RES in total generation (%)	16.85	8.35	22.14	0.45	1.08	12.27
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.92	12.76	35.58	4.47	22.15	21.65

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.063

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: 21-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	297	0.0	7.3	-7.3
3	765 kV	GAYA-VARANASI	2	64	961	0.0	10.1	-10.1
4	765 kV	SASARAM-FAITEHPUR	1	76	474	0.0	4.8	-4.8
5	765 kV	GAYA-BALIA	1	0	514	0.0	5.7	-5.7
6	400 kV	PUSAULI-VARANASI	1	0	209	0.0	4.0	-4.0
7	400 kV	PUSAULI-ALLAHABAD	1	0	180	0.0	3.2	-3.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	63	673	0.0	6.5	-6.5
9	400 kV	PATNA-BALIA	2	46	420	0.0	5.9	-5.9
10	400 kV	NAIBATTI-R-BALIA	2	85	440	0.0	5.3	-5.3
11	400 kV	BIHARSHARIFE-BALIA	2	229	254	0.0	1.2	-1.2
12	400 kV	MOTIHARI-GORAKHPUR	2	3	400	0.0	4.8	-4.8
13	400 kV	BIHARSHARIFE-VARANASI	2	122	324	0.0	3.0	-3.0
14	220 kV	SAHUPUR-BAKRAMANASA	1	0	143	0.0	1.6	-1.6
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	24	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDLAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	63.4	-62.9
Import/Export of ER (With WR)								
1	765 kV	JHARSI-GUDA-DHARAMJAGARH	4	1486	156	13.9	0.0	13.9
2	765 kV	NEW RANCHI-DHARAMJAGARH	2	99	1447	0.0	6.1	-6.1
3	765 kV	JHARSUGUDA-DURG	2	0	1226	0.0	22.7	-22.7
4	400 kV	JHARSUGUDA-RAIGARH	4	68	565	0.0	6.3	-6.3
5	400 kV	RANCHI-SIPA	2	44	500	0.0	1.8	-1.8
6	220 kV	BUDDHPADAR-RAIGARH	1	0	184	0.0	2.9	-2.9
7	220 kV	BUDDHPADAR-KORBA	2	67	87	0.0	0.4	-0.4
ER-WR						13.9	40.2	-26.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZI-WAKA-B/B	2	0	540	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR-BIPPLE	2	0	1594	0.0	38.5	-38.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2677	0.0	53.2	-53.2
4	400 kV	TALCHER-I/C	2	299	614	0.0	0.1	-0.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	104.1	-104.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAOIN	2	169	0	1.9	0.0	1.9
2	400 kV	ALIPURDUAR-BONGAIGAOIN	2	595	0	7.3	0.0	7.3
3	220 kV	ALIPURDUAR-SALAKATI	2	59	0	0.8	0.0	0.8
ER-NER						9.9	0.0	9.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH-CHARIALLAGRA	2	481	0	11.4	0.0	11.4
NER-NR						11.4	0.0	11.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURKSHETRA	2	0	993	0.0	18.3	-18.3
2	HVDC	VINDHYACHAL-B/B	-	438	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	800	0.0	13.7	-13.7
4	765 kV	GWALIOR-AGRA	2	0	1203	0.1	19.9	-19.8
5	765 kV	GWALIOR-PHAGI	2	0	2021	0.2	28.9	-28.7
6	765 kV	JABALPUR-ORAI	2	93	665	0.0	14.4	-14.4
7	765 kV	GWALIOR-ORAI	1	1063	0	18.2	0.0	18.2
8	765 kV	SATNA-ORAI	1	0	850	0.0	16.6	-16.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1859	0	38.9	0.0	38.9
10	765 kV	VINDHYACHAL-VARANASI	2	225	1398	0.0	26.9	-26.9
11	400 kV	ZERDA-KANKROLI	1	279	0	7.2	0.0	7.2
12	400 kV	ZERDA-BHINMAL	1	745	0	10.9	0.0	10.9
13	400 kV	VINDHYACHAL-RIHAND	1	947	0	20.7	0.0	20.7
14	400 kV	RAPS-SHILAPUR	2	499	0	45.2	3.3	-41.9
15	220 kV	BHANPURA-BANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	119	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	109	0	1.1	0.0	1.1
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						126.7	129.2	-2.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI-B/B	-	0	1012	0.0	12.7	-12.7
2	HVDC	BAHARH-PUGAUR	2	0	6023	0.0	86.2	-86.2
3	765 kV	KOLHAPUR-KAICHULP	2	1032	1305	3.1	15.8	-12.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2540	0.0	44.5	-44.5
5	400 kV	KOLHAPUR-KUDGI	2	1310	0	21.9	0.0	21.9
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	126	2.4	0.0	2.4
WR-SR						27.4	159.2	-131.9
INTERNATIONAL EXCHANGES								
State	Region	Line Name		Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)	Import(+ve)/Export(-ve)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 Lc. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4180MW)		-172	57	-62	-1.62	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) Lc. BINAGURI RECEIPT (from TALA HEP 6170MW)		177	0	110	2.67	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) Lc. BIRPARA RECEIPT (from CHUKHA HEP 4384MW)		-76	13	-38	-0.91	
	NER	132kV GELEPHU-SALAKATI		-21	-8	-16	-0.39	
NEPAL	NER	132kV MOTANGA-RANGIA		0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)		-74	0	-58	-1.39	
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2		-315	-172	-283	-6.79	
	ER (Isolated from Indian Grid)	BHERAMARA B/B HVDC (B'DESH) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C		-931 -562	-633 31	-851 -318	-20.42 -7.64	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2		-106	0	-92	-2.20	