



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: 18th 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 17.03.2023.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 18-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)	45266	56873	48475	21226	2690	174530
Peak Shortage (MW)	165	0	0	349	9	523
Energy Met (MU)	981	1352	1146	454	47	3980
Hydro Gen (MU)	131	26	56	28	8	249
Wind Gen (MU)	26	58	33	-	-	117
Solar Gen (MU)*	85.17	53.24	101.12	1.84	0.65	242
Energy Shortage (MU)	1.65	0.00	0.00	1.89	0.34	3.88
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47182	63397	55692	21458	2789	186782
Time Of Maximum Demand Met (From NLDC SCADA)	10:17	11:37	11:49	19:44	18:18	11:34

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	0.00	0.91	8.98	9.89	68.57	21.54

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	6193	115	126.6	29.0	-1.4	208	0.23
	Haryana	6605	0	135.4	83.2	0.7	214	0.00
	Rajasthan	11615	0	226.3	48.4	-6.7	206	0.76
	Delhi	3884	0	75.7	75.2	-1.7	102	0.00
	UP	13740	0	285.6	74.9	-8.2	851	0.00
	Uttarakhand	1977	80	39.4	31.2	-0.1	161	0.39
	HP	1796	0	33.5	26.0	0.1	150	0.00
	J&K(UT) & Ladakh(UT)	2691	0	54.5	45.1	0.2	133	0.27
	Chandigarh	199	0	3.6	3.6	0.0	13	0.00
	Chhattisgarh	5271	0	116.8	66.3	-0.7	286	0.00
WR	Gujarat	18843	0	410.3	225.3	-0.3	1130	0.00
	MP	11285	0	221.6	116.6	-4.2	520	0.00
	Maharashtra	25674	0	528.6	170.9	-2.5	835	0.00
	Goa	673	0	13.4	14.5	-1.6	40	0.00
	DNHDDPDCL	1266	0	29.2	29.5	-0.3	29	0.00
	AMNSIL	883	0	19.7	11.0	-0.2	263	0.00
	BALCO	518	0	12.4	12.4	0.0	8	0.00
	Andhra Pradesh	9491	0	196.5	65.3	-2.2	594	0.00
	Telangana	11464	0	222.0	123.3	-1.8	1103	0.00
	Karnataka	14156	0	266.4	127.1	-1.2	1080	0.00
SR	Kerala	4304	0	89.1	72.2	-0.3	232	0.00
	Tamil Nadu	17658	0	362.9	230.4	-2.2	363	0.00
	Puducherry	413	0	9.5	9.2	-0.4	17	0.00
	Bihar	4996	227	93.9	83.0	-0.5	262	0.78
	DVC	3528	0	73.7	48.8	-1.1	304	0.00
	Jharkhand	1349	67	27.4	21.7	-2.2	88	1.11
	Odisha	5224	0	112.2	35.1	-0.5	325	0.00
	West Bengal	6959	0	144.8	16.6	-2.8	201	0.00
	Sikkim	107	0	1.7	1.1	0.6	86	0.00
	NER	Arunachal Pradesh	156	0	2.6	2.5	0.1	52
Assam		1628	0	27.7	21.5	0.4	118	0.00
Manipur		198	11	2.6	2.4	0.2	41	0.15
Meghalaya		364	0	6.3	4.4	0.2	45	0.19
Mizoram		117	0	1.8	1.6	-0.2	9	0.00
Nagaland		144	0	2.3	2.4	-0.2	4	0.00
Tripura		248	0	4.0	3.8	-0.3	92	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-1.6	-12.5	-24.2	0.5
Day Peak (MW)	-253.4	-624.7	-1069.0	33.1

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	65.9	-148.7	211.1	-129.2	0.9	0.0
Actual(MU)	62.4	-137.6	208.9	-143.6	4.1	-5.9
O/D/U/D(MU)	-3.5	11.1	-2.2	-14.5	3.3	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6481	12621	3728	4087	859	27775	49
State Sector	9436	11013	5823	2160	283	28714	51
Total	15916	23634	9551	6247	1142	56489	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	673	1403	641	644	10	3370	78
Lignite	31	23	63	0	0	116	3
Hydro	131	26	56	28	8	249	6
Nuclear	25	32	76	0	0	133	3
Gas, Naptha & Diesel	4	18	7	0	31	60	1
RES (Wind, Solar, Biomass & Others)	136	112	166	4	1	419	10
Total	1000	1614	1009	675	50	4347	100

Share of RES in total generation (%)	13.59	6.97	16.46	0.52	1.31	9.63
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.18	10.53	29.60	4.61	18.31	18.42

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.047

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: 18-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	-	2	296	0.0	6.9	-6.9
3	765 kV	GAYA-VARANASI	2	0	824	0.0	14.4	-14.4
4	765 kV	SASARAM-FAITEHPUR	1	0	465	0.0	6.9	-6.9
5	765 kV	GAYA-BALIA	1	0	518	0.0	9.2	-9.2
6	400 kV	PUSAULI-VARANASI	1	16	195	0.0	3.7	-3.7
7	400 kV	PUSAULI-ALLAHABAD	1	0	190	0.0	3.0	-3.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	113	437	0.0	4.1	-4.1
9	400 kV	PATNA-BALIA	2	0	403	0.0	7.5	-7.5
10	400 kV	NAIBATTI-R-BALIA	2	0	412	0.0	6.2	-6.2
11	400 kV	BIHARSHARIFE-BALIA	2	141	205	0.0	1.3	-1.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	280	0.0	4.7	-4.7
13	400 kV	BIHARSHARIFE-VARANASI	2	0	286	0.0	4.0	-4.0
14	220 kV	SAHUPUR-CKARAMANASA	1	0	120	0.0	2.2	-2.2
15	132 kV	NAGARUNTARI-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	8	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDLAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.4	73.9	-73.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJIAGARH	4	1862	0	25.9	0.0	25.9
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	0	814	0.0	9.8	-9.8
3	765 kV	JHARSUGUDA-DURG	2	0	529	0.0	10.4	-10.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	736	0.0	13.2	-13.2
5	400 kV	RANCHI-SIPA	2	0	311	0.0	4.0	-4.0
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	228	0.0	4.1	-4.1
7	220 kV	BUDDHIPADAR-KORBA	2	12	85	0.0	1.0	-1.0
ER-WR						25.9	42.4	-16.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	435	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPPLE	2	0	1993	0.0	48.0	-48.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2904	0.0	54.3	-54.3
4	400 kV	TALCHER-I/C	2	0	244	0.0	3.7	-3.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	112.2	-112.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAOON	2	109	38	1.1	0.1	1.1
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	411	15	5.5	0.0	5.5
3	220 kV	ALIPURDUAR-SALAKATI	2	44	7	0.6	0.0	0.6
ER-NER						7.2	0.1	7.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	483	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	1998	0.0	19.1	-19.1
2	HVDC	VINDHYACHAL-B/B	-	183	0	4.9	0.0	4.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1501	0.0	15.6	-15.6
4	765 kV	GWALIOR-AGRA	2	8	1801	0.0	22.1	-22.1
5	765 kV	GWALIOR-PHAGI	2	0	1828	0.0	31.0	-31.0
6	765 kV	JABALPUR-ORAI	2	0	685	0.0	19.3	-19.3
7	765 kV	GWALIOR-ORAI	1	967	0	18.2	0.0	18.2
8	765 kV	SATNA-ORAI	1	0	845	0.0	17.1	-17.1
9	765 kV	BANASKANTHA-CHITORGARH	2	2315	0	42.2	0.0	42.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	1783	0.0	24.7	-24.7
11	400 kV	ZERDA-KANKROLL	1	548	205	7.8	0.0	7.8
12	400 kV	ZERDA-BHINMAL	1	856	0	12.0	0.0	12.0
13	400 kV	VINDHYACHAL-RIHAND	1	965	0	22.2	0.0	22.2
14	400 kV	RAPS-SHILAPUR	2	547	19	1.9	2.2	-0.3
15	220 kV	BHANPURA-BANPUR	1	0	121	0.0	0.9	-0.9
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
17	220 kV	MEHGAON-AURAIYA	1	99	0	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	80	0	1.2	0.0	1.2
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	137.3	-10.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI-B/B	-	0	1012	0.0	22.3	-22.3
2	HVDC	BAHARH-PUGAUR	2	0	5015	0.0	79.9	-79.9
3	765 kV	KOLHAPUR-KAICHULP	2	461	1916	1.2	15.8	-14.7
4	765 kV	WARDHA-NIZAMABAD	2	0	3122	0.0	48.2	-48.2
5	400 kV	KOLHAPUR-KUDGI	2	1208	0	19.0	0.0	19.0
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	BONDA-AMBEWADI	1	0	182	0.0	0.0	0.0
8	220 kV	NELDEMI-AMBEWADI	1	0	117	2.4	0.0	2.4
WR-SR						22.6	166.2	-143.5
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 MANGDECHHU IEP 4180MW)	-148	30	-61	-1.68		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA IEP 6170MW)	183	-95	57	1.44		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA IEP 4584MW)	-99	-26	-67	-1.61		
	NER	132kV GELEPHU-SALAKATI	17	-8	11	0.27		
NEPAL	NER	132kV MOTANGA-RANGIA	-8	4	-1	-0.03		
	ER	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-64	-1.54		
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-401	-277	-344	-8.25		
	ER (Isolated from Indian Grid)	BHERAMARA B/B HVDC (B'DESH) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-927 33	-799 0	-888 22	-21.31 0.53		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-142	0	-122	-2.92		