



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: 19th 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 18.03.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-मार्च -2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 18th March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 19-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)	41726	55370	44941	20064	2699	164800
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	899	1281	1126	440	47	3794
Hydro Gen (MU)	126	25	58	20	8	236
Wind Gen (MU)	16	56	37	-	-	109
Solar Gen (MU)*	119.33	51.20	103.35	2.19	0.70	277
Energy Shortage (MU)	0.85	0.00	0.00	1.31	0.55	2.71
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	43311	60901	55848	20824	2799	181720
Time Of Maximum Demand Met (From NLDC SCADA)	10:12	10:52	10:58	09:55	18:20	10:20

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	0.078	0.00	0.57	9.96	10.53	61.98	27.49

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	5823	0	119.9	56.9	-0.4	127	0.00
	Haryana	5895	0	121.7	83.8	-1.2	283	0.01
	Rajasthan	11092	0	225.8	44.8	-5.0	180	0.00
	Delhi	3509	0	68.9	68.3	-1.8	69	0.00
	UP	11457	0	234.9	69.1	-14.7	516	0.00
	Uttarakhand	1961	0	38.1	30.1	-0.1	129	0.30
	HP	1813	0	33.7	25.7	0.3	66	0.00
	J&K(UT) & Ladakh(UT)	2666	0	52.2	45.0	-1.5	151	0.54
	Chandigarh	180	0	3.4	3.4	0.0	17	0.00
	Chhattisgarh	4957	0	96.0	53.9	-3.3	430	0.00
WR	Gujarat	18677	0	389.1	210.5	-1.7	970	0.00
	MP	10204	0	204.0	106.6	-4.3	415	0.00
	Maharashtra	25313	0	517.9	169.5	-3.7	772	0.00
	Goa	645	0	13.9	14.4	-0.9	51	0.00
	DNHDDPDCL	1255	0	29.2	29.4	-0.2	50	0.00
	AMNSIL	901	0	18.9	10.3	0.0	239	0.00
	BALCO	519	0	12.4	12.4	0.0	0	0.00
	Andhra Pradesh	9466	0	190.8	61.3	-0.2	544	0.00
	Telangana	12043	0	223.5	123.1	2.5	2732	0.00
	Karnataka	13894	0	260.6	118.1	-2.9	905	0.00
SR	Kerala	4203	0	88.4	73.0	0.4	176	0.00
	Tamil Nadu	17172	0	353.2	229.1	-0.8	482	0.00
	Puducherry	423	0	9.6	9.3	-0.4	13	0.00
	Bihar	5093	0	92.9	84.4	-2.2	201	0.14
	DVC	3505	0	71.6	47.6	-1.0	319	0.00
	Jharkhand	1337	128	24.9	20.5	-2.9	128	1.17
ER	Odisha	5515	0	101.3	30.9	-4.0	290	0.00
	West Bengal	7091	0	148.2	19.4	-2.9	225	0.00
	Sikkim	95	0	1.5	1.0	0.5	68	0.00
	Arunachal Pradesh	161	0	2.3	2.3	-0.1	53	0.00
	Assam	1653	0	27.1	20.7	0.5	180	0.08
NER	Manipur	201	0	2.8	2.6	0.2	41	0.10
	Meghalaya	367	0	6.1	4.4	0.2	43	0.37
	Mizoram	112	0	1.8	1.6	-0.2	9	0.00
	Nagaland	150	0	2.4	2.4	-0.1	24	0.00
	Tripura	252	0	4.9	3.9	-0.2	35	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-2.3	-12.6	-23.5	-0.4
Day Peak (MW)	-206.8	-576.5	-1067.0	-226.3

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	71.1	-151.3	190.3	-111.4	1.3	0.0
Actual(MU)	29.9	-145.5	220.7	-116.9	4.7	-7.2
O/D/U/D(MU)	-41.3	5.8	30.4	-5.5	3.3	-7.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6231	13671	3978	4957	859	29695	48
State Sector	10496	12874	6093	2050	283	31795	52
Total	16726	26544	10071	7007	1142	61489	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	604	1352	601	612	8	3177	76
Lignite	27	22	61	0	0	110	3
Hydro	126	25	58	20	8	236	6
Nuclear	25	32	76	0	0	133	3
Gas, Naptha & Diesel	4	17	7	0	31	59	1
RES (Wind, Solar, Biomass & Others)	160	109	173	3	1	446	11
Total	947	1557	975	635	48	4161	100

Share of RES in total generation (%)	16.93	7.01	17.75	0.53	1.45	10.73
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.83	10.65	31.48	3.63	18.61	19.60

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.011
Based on State Max Demands	1.050

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: 19-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	6.9	-6.9	
3	765 kV	GAYA-VARANASI	2	191	747	0.0	9.7	-9.7	
4	765 kV	SASARAM-FAITEHPUR	1	122	358	0.0	4.2	-4.2	
5	765 kV	GAYA-BALIA	1	0	479	0.0	8.2	-8.2	
6	400 kV	PUSAULI-VARANASI	1	0	207	0.0	3.6	-3.6	
7	400 kV	PUSAULI-ALLAHABAD	1	0	197	0.0	3.3	-3.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	299	433	0.0	1.5	-1.5	
9	400 kV	PATNA-BALIA	2	100	427	0.0	5.0	-5.0	
10	400 kV	NAUBATTI-R-BALIA	2	78	417	0.0	4.7	-4.7	
11	400 kV	BIHARSHARIFE-BALIA	2	281	178	0.0	0.6	-0.6	
12	400 kV	MOTIHARI-GORAKHPUR	2	134	316	0.0	2.7	-2.7	
13	400 kV	BIHARSHARIFE-VARANASI	2	146	286	0.0	2.5	-2.5	
14	220 kV	SAHUPUR-CKARAMANASA	1	0	96	0.0	1.7	-1.7	
15	132 kV	NAGARUNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3	
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.3	54.5	-54.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAGARH	4	1519	0	25.2	0.0	25.2	
2	765 kV	NEW RANCHI-DHARAMJAGARH	2	152	835	0.0	6.8	-6.8	
3	765 kV	JHARSUGUDA-DURG	2	0	459	0.0	8.9	-8.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	80	556	0.0	3.5	-3.5	
5	400 kV	RANCHI-SIPA	2	7	267	0.0	3.0	-3.0	
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	193	0.0	3.0	-3.0	
7	220 kV	BUDDHIPADAR-KORBA	2	58	96	0.0	0.8	-0.8	
						ER-WR	25.2	31.1	-5.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZI-WAKA B/B	2	0	544	0.0	10.4	-10.4	
2	HVDC	TALCHER-KOLAR-BIPPLE	2	0	1988	0.0	45.4	-45.4	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2969	0.0	56.3	-56.3	
4	400 kV	TALCHER-I/C	2	284	564	0.0	2.9	-2.9	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	112.1	-112.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	151	95	1.0	0.3	0.7	
2	400 kV	ALIPURDUAR-BONGAIGAOON	1	492	200	4.4	0.0	4.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	54	15	0.5	0.0	0.5	
						ER-NER	5.9	0.3	5.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	482	0	10.5	0.0	10.5	
						NER-NR	10.5	0.0	10.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	446	0.0	10.9	-10.9	
2	HVDC	VINDHYACHAL-B/B	-	442	0	8.6	0.0	8.6	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1000	0.0	14.7	-14.7	
4	765 kV	GWALIOR-AGRA	2	0	1254	0.0	21.0	-21.0	
5	765 kV	GWALIOR-PHAGI	2	302	1850	0.0	26.1	-25.7	
6	765 kV	JABALPUR-ORAI	2	98	616	0.0	14.6	-14.6	
7	765 kV	GWALIOR-ORAI	1	968	0	15.9	0.0	15.9	
8	765 kV	SATNA-ORAI	1	0	831	0.0	16.6	-16.6	
9	765 kV	BANASKANTHA-CHITORGARH	2	2656	0	39.9	0.0	39.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1770	0.0	29.4	-29.4	
11	400 kV	ZERDA-KANKROLLI	1	498	433	7.6	0.0	7.6	
12	400 kV	ZERDA-BHINMAL	1	848	0	10.5	0.0	10.5	
13	400 kV	VINDHYACHAL-RIHAND	1	958	0	21.5	0.0	21.5	
14	400 kV	RAPS-SHILAPUR	2	577	397	3.3	2.5	0.8	
15	220 kV	BHANPURA-BANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	-0.9	
17	220 kV	MEHGAON-AURAIYA	1	83	0	0.7	0.0	0.7	
18	220 kV	MALANPUR-AURAIYA	1	71	1	0.0	0.0	0.0	
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	123.9	121.8	2.1
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI-B/B	-	0	1012	0.0	18.5	-18.5	
2	HVDC	RAHARH-PUGAUR	2	0	5316	0.0	85.3	-85.3	
3	765 kV	KOLHAPUR-RAICHUR	2	286	1814	0.1	20.9	-20.8	
4	765 kV	WARDHA-NIZAMABAD	2	0	3082	0.0	49.6	-49.6	
5	400 kV	KOLHAPUR-KUDGI	2	1136	0	18.4	0.0	18.4	
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	2.4	0.0	2.4	
						WR-SR	20.8	174.3	-153.5
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 HEP 4180MW)	-144	64	-48	-1.23			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 66170MW)	116	-96	1	0.13			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4584MW)	-106	-28	-67	-1.61			
	NER	132kV GELEPHU-SALAKATI	21	-4	10	0.23			
NEPAL	NER	132kV MOTANGA-RANGIA	0	0	0	0.00			
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-60	-1.45			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-347	-235	-338	-8.12			
	ER (Isolated from Indian Grid)	BHERAMARA B/B HVDC (B'DESH) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-913 -226	-796 33	-886 -16	-21.26 -0.39			
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-154	0	-95	-2.27			