



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: 20th 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 19.03.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19th March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 20-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)	41893	51734	42755	19305	2463	158150
Peak Shortage (MW)	230	0	0	123	0	353
Energy Met (MU)	879	1209	990	393	44	3514
Hydro Gen (MU)	122	23	41	22	8	217
Wind Gen (MU)	14	66	74	-	-	154
Solar Gen (MU)**	99.23	59.48	115.50	2.07	0.26	277
Energy Shortage (MU)	0.81	0.00	0.00	1.31	0.12	2.24
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	42849	56590	45719	19560	2545	163002
Time Of Maximum Demand Met (From NLDC SCADA)	19:36	10:22	10:28	19:12	18:29	09:58

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	0.074	0.00	0.12	4.15	4.27	62.26	33.47

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	5966	0	117.5	31.2	0.0	158	0.59
	Haryana	5213	0	108.9	77.9	-0.2	169	0.00
	Rajasthan	11566	0	216.5	53.9	-3.0	284	0.00
	Delhi	3424	0	64.5	63.8	-1.2	228	0.00
	UP	14668	0	246.6	73.4	-11.5	184	0.00
	Uttarakhand	1936	0	36.8	28.2	-0.1	133	0.04
	HP	1744	0	31.2	24.0	0.2	116	0.08
	J&K(UT) & Ladakh(UT)	2615	0	53.9	46.8	-1.6	51	0.10
	Chandigarh	168	0	3.0	3.2	-0.2	4	0.00
WR	Chhattisgarh	4384	0	91.1	44.7	-2.8	404	0.00
	Gujarat	16189	0	354.5	199.8	-5.4	693	0.00
	MP	10314	0	193.3	103.3	-4.9	1398	0.00
	Maharashtra	23716	0	498.3	165.0	-6.8	793	0.00
	Goa	624	0	12.9	12.9	-0.5	53	0.00
	DNHDDPDCL	1207	0	28.2	28.5	-0.3	33	0.00
	AMNSIL	849	0	18.1	9.8	0.6	304	0.00
	BALCO	520	0	12.4	12.5	-0.1	0	0.00
	Andhra Pradesh	7997	0	167.5	46.2	-8.0	566	0.00
SR	Telangana	9468	0	187.8	94.3	1.0	1081	0.00
	Karnataka	12306	0	239.6	101.9	-3.9	721	0.00
	Kerala	4107	0	80.6	68.4	-0.1	228	0.00
	Tamil Nadu	14027	0	305.4	204.3	-14.0	166	0.00
	Puducherry	367	0	8.8	8.9	-0.8	11	0.00
ER	Bihar	4600	0	76.2	66.1	-1.5	412	0.60
	DVC	3411	0	70.6	40.8	0.8	345	0.00
	Jharkhand	1267	0	24.4	18.4	-1.9	86	0.71
	Odisha	4743	0	96.8	22.7	-1.6	258	0.00
	West Bengal	6386	0	123.4	10.4	-6.3	22	0.00
NER	Sikkim	86	0	1.3	0.9	0.4	61	0.00
	Arunachal Pradesh	152	0	2.7	2.5	0.1	46	0.00
	Assam	1439	0	24.9	19.3	0.3	118	0.00
	Manipur	181	0	2.7	2.8	0.0	33	0.00
	Meghalaya	364	0	6.2	5.0	0.0	59	0.12
	Mizoram	109	0	1.8	1.6	-0.2	18	0.00
	Nagaland	136	0	2.2	2.2	-0.1	7	0.00
	Tripura	210	0	3.3	2.7	-0.4	52	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-0.9	-10.2	-24.0	-3.1
Day Peak (MW)	-192.8	-547.9	-1064.0	-339.1

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	86.0	-134.8	160.6	-113.2	1.3	0.0
Actual(MU)	68.8	-112.8	144.1	-106.4	4.4	-1.9
O/D/U/D(MU)	-17.2	22.0	-16.5	6.8	3.1	-1.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5702	15166	3978	3857	859	29562	47
State Sector	11716	13164	7683	2050	313	34925	53
Total	17418	28329	11661	5907	1172	64486	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	568	1242	509	552	7	2876	74
Lignite	26	20	56	0	0	101	3
Hvdro	122	23	41	22	8	217	6
Nuclear	25	30	76	0	0	131	3
Gas, Naptha & Diesel	4	8	5	0	30	46	1
RES (Wind, Solar, Biomass & Others)	139	127	222	3	0	492	13
Total	883	1449	909	577	45	3863	100
Share of RES in total generation (%)	15.71	8.79	24.46	0.51	0.57	12.72	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.40	12.42	37.37	4.34	18.95	21.72	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.083

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: 20-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	299	0.0	7.3	-7.3	
3	765 kV	GAYA-VARANASI	2	198	748	0.0	7.0	-7.0	
4	765 kV	SASARAM-FATEHPUR	1	95	359	0.0	3.0	-3.0	
5	765 kV	GAYA-BALIA	1	0	605	0.0	8.1	-8.1	
6	400 kV	PUSAULI-VARANASI	1	0	194	0.0	3.7	-3.7	
7	400 kV	PUSAULI-ALLAHABAD	1	0	192	0.0	3.5	-3.5	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	164	617	0.0	5.4	-5.4	
9	400 kV	PATNA-BALIA	2	0	402	0.0	5.2	-5.2	
10	400 kV	NAUBATIPIR-BALIA	2	0	423	0.0	5.2	-5.2	
11	400 kV	BIHARSHARIFE-BALIA	2	139	258	0.0	1.2	-1.2	
12	400 kV	MOTIHARI-GORAKHPUR	2	63	359	0.0	4.1	-4.1	
13	400 kV	BIHARSHARIFE-VARANASI	2	115	279	0.0	2.3	-2.3	
14	220 kV	SAHUPUR-KARAMNANA	1	0	134	0.0	1.3	-1.3	
15	132 kV	NAGAR UNTARI-RHHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RHHAND	1	25	0	0.3	0.0	0.3	
17	132 kV	KARMANASA-SAHUPURI	1	0	26	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.3	57.2	-56.9
Import/Export of ER (With WR)									
1	765 kV	JHARSI/GIDA-DHARAMJAIGARH	4	1423	0	18.9	0.0	18.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	555	0	2.4	0.0	2.4	
3	765 kV	JHARSI/GIDA-DURG	2	0	899	0.0	8.0	-8.0	
4	400 kV	JHARSI/GIDA-RAIGARH	4	0	569	0.0	8.9	-8.9	
5	400 kV	RANCHI-SIPAT	2	129	251	0.0	0.3	-0.3	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	168	0.0	2.7	-2.7	
7	220 kV	BUDHIPADAR-KORBA	2	56	85	0.0	0.4	-0.4	
						ER-WR	21.6	20.2	1.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	546	0.0	12.5	-12.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1995	0.0	42.7	-42.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2724	0.0	46.3	-46.3	
4	400 kV	TALCHER-IC	2	461	1099	0.0	6.3	-6.3	
5	220 kV	BALMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	101.4	-101.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	94	14	1.0	0.0	1.0	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	417	0	5.0	0.0	5.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	39	0	0.6	0.0	0.6	
						ER-NER	6.6	0.0	6.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	481	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	7	529	0.0	8.6	-8.6	
2	HVDC	VINDHYACHAL B/B	-	442	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	401	0.0	3.5	-3.5	
4	765 kV	GWALIOR-AGRA	2	0	2092	0.0	26.8	-26.8	
5	765 kV	GWALIOR-PHAGI	2	98	1926	0.0	28.5	-28.5	
6	765 kV	JABALPUR-ORAI	2	0	826	0.0	19.3	-19.3	
7	765 kV	GWALIOR-ORAI	1	1000	0	18.2	0.0	18.2	
8	765 kV	SATNAGORA	1	0	913	0.0	16.2	-16.2	
9	765 kV	BANASKANTHA-CHITTOORGARH	2	2166	0	33.0	0.0	33.0	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2217	0.0	35.0	-35.0	
11	400 kV	ZERDA-KANKROLI	1	407	0	6.3	0.0	6.3	
12	400 kV	ZERDA-BHINMAL	1	648	0	8.7	0.0	8.7	
13	400 kV	VINDHYACHAL-RHHAND	1	957	0	19.2	0.0	19.2	
14	400 kV	RAPSBIJALPUR	2	379	456	1.6	3.3	-1.8	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7	
17	220 kV	MEHGAON-AURAIYA	1	89	0	0.7	0.0	0.7	
18	220 kV	MALANPUR-AURAIYA	1	73	0	0.0	0.0	0.0	
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	100.8	141.8	-41.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1099	0.0	14.6	-14.6	
2	HVDC	RAIGARH-PUGALUR	-	0	4518	0.0	49.3	-49.3	
3	765 kV	SOLAPUR-RAICHUR	2	1859	1426	9.7	13.4	-3.7	
4	765 kV	WARDHA-NIZAMABAD	2	0	2258	0.0	33.7	-33.7	
5	400 kV	KOLHAPUR-KUDGI	2	1596	0	0	22.8	22.8	
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	127	2.4	0.0	2.4	
						WR-SR	34.9	111.0	-76.0
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 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*300MW)		-215	43	-67	-1.86		
	ER	400kV TALA-BINAGURI 2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)		160	-83	74	1.14		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)		-107	-21	-51	-1.23		
	NER	132kV GELEPHU-SALAKATI		27	5	14	0.34		
	NER	132kV MOTANGA-RANGIA		0	0	0	0.00		
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)		-78	0	-60	-1.45		
	ER	NEPAL IMPORT (FROM BIHAR)		-152	0	-89	-2.12		
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2		-318	-185	-276	-6.62		
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)		-939	-821	-894	-21.46		
	ER	(Isolated from Indian Grid) 400kV GODDA, TPS-RAHANPUR (B'DESH) D/C		-339	36	-128	-3.07		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2		-125	0	-107	-2.56		