



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: 23rd 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 22.03.2023.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22nd March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 23-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)	46668	55716	46839	21624	2551	173398
Peak Shortage (MW)	35	0	0	206	0	241
Energy Met (MU)	955	1308	1175	432	45	3915
Hydro Gen (MU)	127	29	60	37	17	269
Wind Gen (MU)	20	47	31	-	-	98
Solar Gen (MU)*	117.45	64.44	136.75	5.66	0.74	325
Energy Shortage (MU)	0.34	0.00	0.00	1.36	0.00	1.70
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47747	60569	56724	21956	2593	183660
Time Of Maximum Demand Met (From NLDC SCADA)	19:26	11:04	10:41	18:37	18:19	10:12

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	0.070	0.09	0.95	9.47	10.51	66.33	23.16

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	6477	0	129.3	39.7	-1.0	128	0.00
	Haryana	5883	0	122.1	80.1	0.1	197	0.00
	Rajasthan	10675	0	209.7	59.5	-3.2	180	0.00
	Delhi	3845	0	69.1	69.7	-2.1	12	0.00
	UP	16289	0	287.9	62.5	0.7	821	0.12
	Uttarakhand	2185	0	39.7	29.8	0.1	170	0.12
	HP	1922	0	33.8	24.0	0.3	115	0.00
	J&K(UT) & Ladakh(UT)	2806	0	56.9	46.7	0.7	196	0.10
	Chandigarh	200	0	3.3	3.6	-0.3	18	0.00
	Railways NR ISTS	158	0	3.3	0.0	3.3	158	0.00
WR	Chhattisgarh	4532	0	99.6	47.9	-0.8	193	0.00
	Gujarat	17429	0	386.9	219.6	1.1	594	0.00
	MP	10936	0	212.1	103.8	-3.2	400	0.00
	Maharashtra	25974	0	536.5	174.0	0.5	716	0.00
	Goa	653	0	13.3	13.8	-0.7	34	0.00
	DNHDDPDCL	1249	0	29.2	29.5	-0.3	22	0.00
	AMNSIL	840	0	17.6	9.3	0.5	285	0.00
	BALCO	518	0	12.4	12.4	0.0	10	0.00
	Andhra Pradesh	9363	0	197.5	77.9	0.5	422	0.00
	Telangana	13539	0	258.1	125.0	1.0	684	0.00
SR	Karnataka	14512	0	268.9	118.8	-1.2	783	0.00
	Kerala	4288	0	88.6	74.0	-0.4	112	0.00
	Tamil Nadu	16602	0	353.0	210.8	-2.9	387	0.00
	Puducherry	412	0	9.3	9.1	-0.5	23	0.00
	Bihar	4860	0	76.7	68.5	-2.9	289	0.23
ER	DVC	3565	0	73.2	-42.1	-0.1	364	0.00
	Jharkhand	1375	0	27.0	20.5	-2.0	87	1.13
	Odisha	5245	0	105.9	32.4	-0.9	326	0.00
	West Bengal	7230	0	147.4	18.0	-3.4	67	0.00
	Sikkim	107	0	1.7	2.0	-0.3	40	0.00
NER	Arunachal Pradesh	147	0	2.7	3.2	-0.6	59	0.00
	Assam	1442	0	24.8	18.9	-0.4	207	0.00
	Manipur	199	0	2.9	2.9	0.0	30	0.00
	Meghalaya	379	0	6.6	4.9	-0.1	54	0.00
	Mizoram	120	0	1.8	1.7	-0.2	15	0.00
	Nagaland	147	0	2.4	2.3	-0.1	14	0.00
	Tripura	227	0	3.7	3.1	-0.2	43	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	1.9	-9.7	-20.0	-15.2
Day Peak (MW)	110.0	-543.1	-1061.0	-754.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	69.5	-106.2	211.5	-170.3	-4.6	0.0
Actual(MU)	62.1	-67.3	200.7	-188.3	-5.1	2.1
O/D/U/D(MU)	-7.4	38.9	-10.9	-18.0	-0.6	2.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6446	16271	4638	2147	859	30361	48
State Sector	13096	12131	5518	2200	346	33290	52
Total	19542	28402	10156	4347	1204	63650	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	617	1316	635	673	9	3249	76
Lignite	27	17	62	0	0	106	2
Hvdro	127	29	60	37	17	269	6
Nuclear	25	31	76	0	0	132	3
Gas, Naptha & Diesel	3	16	7	0	30	56	1
RES (Wind, Solar, Biomass & Others)	161	113	194	7	1	476	11
Total	959	1521	1034	717	57	4288	100
Share of RES in total generation (%)	16.76	7.43	18.77	1.00	1.31	11.09	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.55	11.33	31.99	6.16	30.85	20.45	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.069

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)

INTER-REGIONAL EXCHANGES

Import=(+ve)/Export =(-ve) for NET (MU)
Date of Reporting: 23-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-BB	-	0	299	0.0	7.3	-7.3	
3	765 kV	GAYA-VARANASI	2	0	1019	0.0	14.6	-14.6	
4	765 kV	SASARAM-FAITEHPUR	1	0	559	0.0	9.4	-9.4	
5	765 kV	GAYA-BALIA	1	0	658	0.0	9.8	-9.8	
6	400 kV	PUSAULI-VARANASI	1	0	192	0.0	3.8	-3.8	
7	400 kV	PUSAULI-ALLAHABAD	1	0	206	0.0	3.4	-3.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	831	0.0	10.9	-10.9	
9	400 kV	PATNA-BALIA	2	0	560	0.0	9.0	-9.0	
10	400 kV	NAUBATPUR-BALIA	2	0	603	0.0	9.5	-9.5	
11	400 kV	BIHARSHARIFF-BALIA	2	59	389	0.0	3.6	-3.6	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	599	0.0	8.0	-8.0	
13	400 kV	BIHARSHARIFF-VARANASI	2	28	399	0.0	4.9	-4.9	
14	220 kV	SAHUPUR-KARAMANASA	1	0	151	0.0	1.8	-1.8	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.6	0.0	0.6	
17	132 kV	KARMANASA-SAHUPURI	1	0	31	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	3	0.0	0.0	0.0	
						ER-NR	0.6	96.0	-95.4
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1118	237	9.5	0.0	9.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	99	1357	0.0	14.0	-14.0	
3	765 kV	JHARSUGUDA-RUR	2	0	1163	0.0	21.6	-21.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	747	0.0	11.5	-11.5	
5	400 kV	RANCHI-SIPAT	2	0	420	0.0	5.9	-5.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	143	0.0	2.4	-2.4	
7	220 kV	BUDHIPADAR-KORBA	2	84	34	0.4	0.4	0.4	
						ER-WR	9.9	55.4	-45.5
Import/Export of ER (With SR)									
1	HVDC	JHEKROBGA-ZUYAKA/B/B	2	0	540	0.0	12.4	-12.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1996	0.0	44.5	-44.5	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2992	0.0	58.9	-58.9	
4	400 kV	TALCHER-I/C	2	307	586	0.0	0.3	-0.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	115.8	-115.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	304	0	3.6	0.0	3.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	893	0	12.1	0.0	12.1	
3	220 kV	ALIPURDUAR-SALAKATI	2	92	1	0.9	0.0	0.9	
						ER-NER	16.5	0.0	16.5
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	485	0	11.4	0.0	11.4	
						NER-NR	11.4	0.0	11.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUSHETRA	2	0	997	0.0	24.0	-24.0	
2	HVDC	VINDHYACHAL-B/B	-	441	0	12.1	0.0	12.1	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1499	30.5	0.0	30.5	
4	765 kV	GWALIOR-AGRA	2	0	2097	0.0	20.5	-20.5	
5	765 kV	GWALIOR-PHAGI	2	45	2197	0.0	30.5	-30.5	
6	765 kV	JABALPUR-ORAI	2	0	855	0.0	15.4	-15.4	
7	765 kV	GWALIOR-ORAI	1	1052	0	19.2	0.0	19.2	
8	765 kV	SATNA-ORAI	1	0	948	0.0	17.8	-17.8	
9	765 kV	BANASKANTHA-CHITTORGARH	2	2190	0	37.9	0.0	37.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1718	0.0	19.4	-19.4	
11	400 kV	ZERDA-KANEROLI	1	390	0	6.7	0.0	6.7	
12	400 kV	ZERDA-BHIMMAL	1	745	0	10.1	0.0	10.1	
13	400 kV	VINDHYACHAL-RIHAND	1	968	0	21.9	0.0	21.9	
14	400 kV	BAPP-SHULALPUR	2	382	527	3.0	2.7	0.3	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8	
17	220 kV	NITHIGAN-AURAIYA	1	56	0	0.9	0.0	0.9	
18	220 kV	MALANPUR-AURAIYA	1	46	10	1.1	0.0	1.1	
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	143.3	131.0	12.3
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI/B/B	-	0	1016	0.0	14.5	-14.5	
2	HVDC	RAIGARH-PUGALUR	2	0	4524	0.0	82.2	-82.2	
3	765 kV	SOLAPUR-RAICHUR	2	359	1600	4.7	9.1	-4.4	
4	765 kV	WARDHA-NIZAMABAD	2	0	2616	0.0	48.2	-48.2	
5	400 kV	KOI HAPIR-KUDGI	2	1085	0	22.2	0.0	22.2	
6	220 kV	KOI HAPIR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	PINDA-AMBEWADI	1	0	0	0.0	0.0	0.0	
8	220 kV	NELDEM-AMBEWADI	1	0	129	2.5	0.0	2.5	
						WR-SR	29.4	154.0	-124.6

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 6*180MW)	141	0	1	0.02	
	ER	400KV TALEX-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	222	0	140	3.37	
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-1.12	
	NER	132KV GELEPHU-SALAKATI	-25	-3	-14	-0.33	
	NER	132KV MOTANGA-RANGIA	0	0	0	0.00	
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-60	-1.45	
	ER	NEPAL IMPORT (FROM BIHAR)	-142	-10	-93	-2.23	
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	-325	-172	-251	-6.02	
	ER	BHERAMARA B/B HVDC (B'DESH)	-919	-635	-722	-17.33	
	ER (Isolated from Indian Grid)	400KV GODDA_TPS-RAHANPUR (B'DESH) D/C	-754	-467	-632	-15.17	
	NER	132KV COMILLA-SURAJMANI NAGAR 1&2	-142	0	-112	-2.68	