



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: 04th 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 03.03.2023.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 03 March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 04-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)	51438	62450	46522	22684	2634	185728
Peak Shortage (MW)	1038	503	0	267	0	1808
Energy Met (MU)	1143	1490	1237	477	46	4393
Hydro Gen (MU)	124	60	66	28	7	285
Wind Gen (MU)	38	57	89	-	-	183
Solar Gen (MU)*	124.51	59.22	127.53	2.68	0.71	315
Energy Shortage (MU)	9.14	7.52	0.00	2.24	0.00	18.90
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57455	69472	60319	22954	2773	209017
Time Of Maximum Demand Met (From NLDC SCADA)	11:16	11:23	10:27	18:35	18:04	11:14

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	0.060	0.00	0.71	6.74	7.44	67.55	25.01

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	7619	0	144.2	33.1	-0.5	110	1.87
	Haryana	7661	0	144.1	101.2	-0.6	181	0.00
	Rajasthan	15462	196	303.3	92.8	-0.9	184	5.07
	Delhi	3797	0	70.5	63.1	-2.4	115	0.00
	UP	18034	28	347.9	110.9	0.4	688	0.22
	Uttarakhand	2021	0	38.6	29.7	0.3	105	1.46
	HP	1919	0	33.8	25.7	0.6	156	0.07
	J&K(UT) & Ladakh(UT)	2662	0	57.0	52.3	-1.0	81	0.45
WR	Chhattisgarh	204	0	3.4	3.5	-0.1	21	0.00
	Chhattisgarh	5373	0	120.2	63.6	-1.6	229	0.00
	Gujarat	19267	0	422.1	190.8	0.3	987	0.00
	MP	14228	0	290.5	157.7	-1.8	815	7.43
	Maharashtra	28520	89	583.5	175.6	3.8	898	0.09
	Goa	682	0	14.8	13.5	0.8	47	0.00
	DNHDDPDCL	1239	0	28.7	29.2	-0.5	24	0.00
	AMNSIL	804	0	17.3	10.6	0.0	283	0.00
SR	BALCO	519	0	12.4	12.4	0.0	13	0.00
	Andhra Pradesh	11756	0	228.6	77.2	-0.7	674	0.00
	Telangana	14856	0	303.4	172.0	-0.9	607	0.00
	Karnataka	15242	0	277.8	89.3	-3.0	554	0.00
	Kerala	4123	0	84.2	64.5	-0.3	361	0.00
	Tamil Nadu	16225	0	334.1	183.1	-2.9	458	0.00
	Puducherry	396	0	9.1	8.9	-0.5	45	0.00
	Bihar	5039	0	95.6	83.9	-0.8	183	0.25
ER	DVC	3437	0	73.5	42.9	3.3	649	0.00
	Jharkhand	1448	82	27.9	25.9	-3.4	67	1.99
	Odisha	5452	0	114.6	29.7	0.0	292	0.00
	West Bengal	7981	0	163.8	31.9	-1.9	422	0.00
	Sikkim	111	0	1.8	0.9	-0.9	82	0.00
NER	Arunachal Pradesh	149	0	2.2	2.1	0.1	44	0.00
	Assam	1594	0	27.8	21.9	0.6	219	0.00
	Manipur	209	0	2.8	2.8	0.0	40	0.00
	Meghalaya	335	0	5.8	4.6	0.0	35	0.00
	Mizoram	118	0	1.7	1.5	-0.2	15	0.00
	Nagaland	153	0	2.2	2.3	-0.1	13	0.00
Tripura	252	0	3.9	3.4	-0.3	90	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-3.7	-12.3	-24.3	0.3
Day Peak (MW)	-267.0	-554.7	-1061.0	29.3

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	157.3	-149.2	142.7	-152.1	1.4	0.0
Actual(MU)	146.3	-123.6	122.9	-153.4	0.8	-6.9
O/D/U/D(MU)	-11.0	25.6	-19.8	-1.2	-0.6	-6.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7992	16089	3588	1675	880	30224	53
State Sector	11415	9471	3056	3230	162	27333	47
Total	19406	25560	6644	4905	1042	57556	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	702	1494	745	677	12	3631	76
Lignite	31	16	52	0	0	99	2
Hvdro	124	60	66	28	7	285	6
Nuclear	20	37	75	0	0	132	3
Gas, Naptha & Diesel	11	16	6	0	32	65	1
RES (Wind, Solar, Biomass & Others)	187	118	242	3	1	551	12
Total	1075	1740	1187	708	52	4763	100
Share of RES in total generation (%)	17.42	6.77	20.42	0.39	1.36	11.58	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.84	12.33	32.32	4.30	15.40	20.34	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
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: 04-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	296	0.0	7.1	-7.1	
3	765 kV	GAYA-VARANASI	2	0	488	0.0	8.2	-8.2	
4	765 kV	SASARAM-FAITEHPUR	1	0	303	0.0	5.8	-5.8	
5	765 kV	GAYA-BALIA	1	0	665	0.0	11.0	-11.0	
6	400 kV	PUSAULI-VARANASI	1	0	195	0.0	4.0	-4.0	
7	400 kV	PUSAULI-ALLAHABAD	1	0	181	0.0	3.2	-3.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	563	0.0	6.3	-6.3	
9	400 kV	PATNA-BALIA	2	0	505	0.0	9.2	-9.2	
10	400 kV	NAUBATPUR-BALIA	2	0	531	0.0	9.7	-9.7	
11	400 kV	BIHARSHARIFF-BALIA	2	0	205	0.0	1.9	-1.9	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	344	0.0	5.7	-5.7	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	177	0.0	2.8	-2.8	
14	220 kV	SAHUPUR-KARAMANASA	1	0	201	0.0	2.7	-2.7	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5	
17	132 kV	KARMANASA-SAHUPURI	1	0	26	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	77.4	-76.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	381	679	0.0	0.4	-0.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	634	444	0.0	2.1	-2.1	
3	765 kV	JHARSUGUDA-RUR	2	0	661	0.0	13.2	-13.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	694	0.0	13.3	-13.3	
5	400 kV	RANCHI-SIPAT	2	51	234	0.0	3.6	-3.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	185	0.0	2.9	-2.9	
7	220 kV	BUDHIPADAR-KORBA	1	36	127	0.0	0.9	-0.9	
						ER-WR	0.0	36.3	-36.3
Import/Export of ER (With SR)									
1	HVDC	JHEKROBGA-ZUYAKA/B/B	2	0	653	0.0	13.3	-13.3	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	36.9	-36.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2748	0.0	51.3	-51.3	
4	400 kV	TALCHER-I/C	2	795	241	6.5	0.0	6.5	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	101.5	-101.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	147	2	1.7	0.0	1.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	563	0	7.8	0.0	7.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	56	0	0.7	0.0	0.7	
						ER-NER	10.3	0.0	10.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	483	0	11.7	0.0	11.7	
						NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUSHETRA	2	0	1321	0.0	26.6	-26.6	
2	HVDC	VINDHYACHAL-B/B	2	138	0	3.6	0.0	3.6	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1454	0.0	23.5	-23.5	
4	765 kV	GWALIOR-AGRA	2	0	1974	0.0	22.5	-22.5	
5	765 kV	GWALIOR-PHAGI	2	0	1692	0.0	29.5	-29.5	
6	765 kV	JABALPUR-ORAI	2	0	1078	0.0	25.8	-25.8	
7	765 kV	GWALIOR-ORAI	1	853	0	15.9	0.0	15.9	
8	765 kV	SATNA-ORAI	1	0	1010	0.0	18.4	-18.4	
9	765 kV	BANASKANTHA-CHITTORGARH	2	2163	0	35.1	0.0	35.1	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1898	0.0	23.3	-23.3	
11	400 kV	ZERDA-KANROLI	1	344	0	6.2	0.0	6.2	
12	400 kV	ZERDA-BHIMMAL	1	574	0	9.6	0.0	9.6	
13	400 kV	VINDHYACHAL-RIHAND	1	477	0	10.8	0.0	10.8	
14	400 kV	BAPP-SHULALPUR	2	257	464	1.1	2.2	-1.2	
15	220 kV	BHANPURA-RANPUR	1	148	0	2.7	0.0	2.7	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4	
17	220 kV	NITHIGORA-AURAIYA	1	96	0	0.9	0.0	0.9	
18	220 kV	MALANPUR-AURAIYA	1	67	6	1.4	0.0	1.4	
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	84.6	175.7	-91.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI/B/B	-	984	1009	10.1	4.8	5.3	
2	HVDC	RAIGARH-PUGAUR	2	0	3515	0.0	45.8	-45.8	
3	765 kV	SOLAPUR-RAICHUR	2	1158	1268	4.9	6.8	-1.9	
4	765 kV	WARDHA-NIZAMABAD	2	0	3106	0.0	54.3	-54.3	
5	400 kV	KOI HAPIR-KUDGI	2	1474	0	25.6	0.0	25.6	
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	126	2.4	0.0	2.4	
						WR-SR	43.0	111.7	-68.7
INTERNATIONAL EXCHANGES									
State	Region	Line Name		Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)		
BHUTAN	ER	400KV MANGDECHHU-ALIPURDUAR 1,2&3 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 6*180MW)		0	0	0	-2.41		
	ER	400KV TALEX-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)		161	0	5	0.47		
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)		0	0	0	-2.33		
	NER	132KV GELEPHU-SALAKATI		33	10	22	0.52		
	NER	132KV MOTANGA-RANGIA		17	-11	2	0.05		
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)		-74	0	-63	-1.52		
	ER	NEPAL IMPORT (FROM BIHAR)		-148	-76	-130	-3.13		
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2		-333	-188	-318	-7.62		
	ER	BHERAMARA B/B HVDC (B'DESH)		-921	-814	-891	-21.39		
	ER (Isolated from Indian Grid)	400KV GODDA_TPS-RAHANPUR (B'DESH) D/C		29	0	14	0.35		
	NER	132KV COMILLA-SURAJMANI NAGAR 1&2		-140	0	-120	-2.88		