



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: 25th 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 24.03.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-मार्च -2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेके 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 24th March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 25-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)	46458	58982	48416	22872	2709	179437
Peak Shortage (MW)	35	0	0	0	0	35
Energy Met (MU)	965	1357	1229	481	48	4080
Hydro Gen (MU)	109	28	83	33	13	265
Wind Gen (MU)	44	125	27	-	-	196
Solar Gen (MU)*	118.81	64.58	124.63	5.21	0.52	314
Energy Shortage (MU)	0.28	0.00	0.00	0.88	0.00	1.16
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47489	62239	59599	23130	2724	188337
Time Of Maximum Demand Met (From NLDC SCADA)	19:16	11:01	11:58	18:48	18:24	09:53

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	0.061	0.01	1.15	9.85	11.01	65.42	23.57

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	5950	0	121.4	35.0	0.0	200	0.23
	Haryana	5847	0	118.6	82.3	-1.3	239	0.00
	Rajasthan	11067	0	211.6	40.0	-5.6	231	0.00
	Delhi	3802	0	70.7	69.9	-0.8	159	0.00
	UP	16842	0	305.9	88.9	-2.2	279	0.00
	Uttarakhand	2081	0	39.0	30.9	-0.5	86	0.04
	HP	1885	0	34.3	25.8	0.0	98	0.01
	J&K(UT) & Ladakh(UT)	2768	0	56.7	48.1	-0.3	222	0.00
	Chandigarh	191	0	3.4	3.7	-0.3	17	0.00
	Railways NR ISTS	162	0	3.3	0.0	3.3	162	0.00
WR	Chhattisgarh	5011	0	112.9	59.6	-0.1	245	0.00
	Gujarat	18067	0	386.5	199.4	-4.7	658	0.00
	MP	11138	0	222.0	100.5	-2.8	316	0.00
	Maharashtra	27041	0	562.0	181.9	-1.8	593	0.00
	Goa	690	0	14.0	14.1	-0.6	42	0.00
	DNHDDPDCL	1272	0	29.5	29.8	-0.3	43	0.00
	AMNSIL	852	0	18.0	11.2	-0.2	269	0.00
	BALCO	517	0	12.3	12.4	-0.1	5	0.00
	Andhra Pradesh	10116	0	208.2	81.6	0.8	407	0.00
	Telangana	14165	0	277.8	145.1	2.7	867	0.00
SR	Karnataka	15105	0	289.0	128.4	1.6	1086	0.00
	Kerala	4212	0	90.8	69.2	-0.1	135	0.00
	Tamil Nadu	16907	0	353.8	211.3	-2.8	387	0.00
	Puducherry	433	0	9.9	9.4	-0.2	51	0.00
ER	Bihar	5091	0	93.2	81.3	0.7	169	0.24
	DVC	3572	0	75.2	45.1	0.0	289	0.00
	Jharkhand	1428	0	29.6	22.0	-1.1	77	0.64
	Odisha	5398	0	116.0	36.0	0.6	465	0.00
	West Bengal	8056	0	165.2	29.6	-2.2	179	0.00
	Sikkim	108	0	1.8	1.5	0.2	62	0.00
NER	Arunachal Pradesh	164	0	2.6	2.9	-0.4	27	0.00
	Assam	1596	0	27.5	22.5	0.1	127	0.00
	Manipur	196	0	2.8	2.8	0.0	13	0.00
	Meghalaya	379	0	6.9	4.6	0.1	32	0.00
	Mizoram	120	0	1.7	1.6	-0.3	9	0.00
	Nagaland	139	0	2.3	2.3	-0.1	24	0.00
	Tripura	230	0	3.9	3.1	-0.3	17	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-1.7	-11.4	-24.0	-11.9
Day Peak (MW)	-315.0	-641.5	-1064.0	-527.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	76.2	-138.8	217.9	-155.1	-0.1	0.0
Actual(MU)	61.0	-141.4	241.2	-165.8	-0.1	-5.1
O/D/U/D(MU)	-15.2	-2.5	23.3	-10.7	0.0	-5.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6446	16671	4228	2647	859	30851	49
State Sector	11551	12604	5158	2310	368	31990	51
Total	17997	29274	9386	4957	1227	62840	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	622	1340	653	696	10	3321	75
Lignite	79	18	64	0	0	112	3
Hydro	109	28	83	33	13	265	6
Nuclear	25	31	76	0	0	132	3
Gas, Naptha & Diesel	3	10	7	0	30	50	1
RES (Wind, Solar, Biomass & Others)	187	191	181	6	1	566	13
Total	976	1618	1064	734	54	4446	100

Share of RES in total generation (%)	19.18	11.83	17.01	0.78	0.97	12.73
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.89	15.47	31.95	5.22	25.25	21.66

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.076

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: 25-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	296	0.0	7.0	-7.0	
3	765 kV	GAYA-VARANASI	2	249	664	0.0	11.0	-11.0	
4	765 kV	SASARAM-FAITEHPUR	1	104	387	0.0	7.0	-7.0	
5	765 kV	GAYA-BALIA	1	0	563	0.0	8.9	-8.9	
6	400 kV	PUSAULI-VARANASI	1	0	210	0.0	4.2	-4.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	178	0.0	3.8	-3.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	220	589	0.0	6.9	-6.9	
9	400 kV	PATNA-BALIA	2	0	435	0.0	7.6	-7.6	
10	400 kV	NAIBATTI-R-BALIA	2	3	461	0.0	7.5	-7.5	
11	400 kV	BIHARSHARIFE-BALIA	2	215	238	0.0	2.2	-2.2	
12	400 kV	MOTIHARI-GORAKHPUR	2	57	379	0.0	5.4	-5.4	
13	400 kV	BIHARSHARIFE-VARANASI	2	156	257	0.0	3.6	-3.6	
14	220 kV	SAHUPUR-CKRAMANASA	1	0	159	0.0	2.5	-2.5	
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	21	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.6	77.4	-76.8
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJIAGARH	4	939	26	9.8	0.0	9.8	
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	211	1068	0.0	9.0	-9.0	
3	765 kV	JHARSUGUDA-DURG	2	0	901	0.0	17.5	-17.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	571	0.0	8.9	-8.9	
5	400 kV	RANCHI-SIPAT	2	100	291	0.0	2.6	-2.6	
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	164	0.0	2.7	-2.7	
7	220 kV	BUDDHIPADAR-KORBA	2	99	53	0.3	0.0	0.3	
						ER-WR	10.1	40.6	-30.5
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZI-WAKA B/B	2	0	542	0.0	12.5	-12.5	
2	HVDC	TALCHER-KOLAR-BIPPLE	2	0	1998	0.0	41.4	-41.4	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2926	0.0	56.1	-56.1	
4	400 kV	TALCHER-I/C	2	167	1132	0.0	8.8	-8.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	109.9	-109.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	184	25	2.1	0.0	2.1	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	698	0	8.5	0.0	8.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	65	1	0.9	0.0	0.9	
						ER-NER	11.4	0.0	11.4
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-KURUKSHETRA	2	0	1007	0.0	24.2	-24.2	
2	HVDC	VINDHYACHAL-B/B	-	447	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1000	19.8	0.0	19.8	
4	765 kV	GWALIOR-AGRA	2	75	1708	0.0	21.0	-21.0	
5	765 kV	GWALIOR-PHAGI	2	665	1674	1.6	22.8	-21.1	
6	765 kV	JABALPUR-ORAI	2	149	712	0.0	12.9	-12.9	
7	765 kV	GWALIOR-ORAI	1	906	0	15.9	0.0	15.9	
8	765 kV	SATNA-ORAI	1	0	864	0.0	17.6	-17.6	
9	765 kV	BANASKANTHA-CHITORGARH	2	1610	0	27.8	0.0	27.8	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2001	0.0	24.8	-24.8	
11	400 kV	ZERDA-KANKROLI	1	338	0	4.4	0.0	4.4	
12	400 kV	ZERDA-BHINMAL	1	735	0	11.1	0.0	11.1	
13	400 kV	VINDHYACHAL-RIHAND	1	963	0	21.7	0.0	21.7	
14	400 kV	RAPS-SHILAIPIR	2	681	334	4.0	1.8	2.3	
15	220 kV	BHANPURA-BANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9	
17	220 kV	MEHGAON-AURAIYA	1	117	0	0.9	0.0	0.9	
18	220 kV	MALANPUR-AURAIYA	1	99	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	120.5	125.9	-5.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI-B/B	-	0	1019	0.0	16.7	-16.7	
2	HVDC	BAHARH-PUGAUR	2	0	5015	0.0	94.2	-94.2	
3	765 kV	KOLHAPUR-KAICHULP	2	450	2157	0.8	21.9	-21.1	
4	765 kV	WARDHA-NIZAMABAD	2	0	3084	0.0	56.8	-56.8	
5	400 kV	KOLHAPUR-KUDGI	2	1329	0	19.9	0.0	19.9	
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	133	2.5	0.0	2.5	
						WR-SR	23.1	189.5	-166.4
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 4*180MW)	-148	47	-36	-1.26			
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	175	-91	77	1.85			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-77	-56	-88	-2.12			
	NER	132kV GELEPHU-SALAKATI	-19	-5	-14	-0.34			
NEPAL	NER	132kV MOTANGA-RANGIA	0	0	0	0.00			
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-65	-1.55			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-404	-185	-292	-7.00			
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-527	-490	-496	-11.91			
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-129	0	-107	-2.56			