



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: 14<sup>th</sup> 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 13.03.2023.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13<sup>th</sup> March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 14-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)	51442	60646	48697	22657	2813	186255
Peak Shortage (MW)	0	409	0	367	0	776
Energy Met (MU)	1112	1428	1262	490	49	4341
Hydro Gen (MU)	147	37	66	28	8	287
Wind Gen (MU)	6	53	64	-	-	123
Solar Gen (MU)*	119.11	55.90	123.37	2.69	0.99	302
Energy Shortage (MU)	1.50	1.72	0.00	5.23	0.06	8.51
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54631	66736	62582	23172	2909	206812
Time Of Maximum Demand Met (From NLDC SCADA)	11:32	11:11	10:53	18:27	18:09	11:12

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	0.060	0.23	1.39	7.21	8.83	65.06	26.11

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	8455	0	160.8	43.9	-0.4	83	0.00
	Haryana	7498	0	142.6	100.1	-0.5	151	0.00
	Rajasthan	13568	0	267.9	77.7	-2.7	128	0.00
	Delhi	3623	0	70.6	70.5	-1.1	171	0.00
	UP	18458	0	341.8	60.4	0.3	484	0.00
	Uttarakhand	2009	0	39.1	30.0	0.9	144	0.16
	HP	1749	0	31.2	22.7	0.0	147	0.28
	J&K(UT) & Ladakh(UT)	2663	0	54.1	45.3	-0.8	126	1.06
	Chandigarh	192	0	3.5	3.5	0.1	20	0.00
	Chhattisgarh	5229	0	119.9	66.0	-0.5	378	0.00
WR	Gujarat	19051	0	408.9	240.6	0.4	984	0.00
	MP	12338	0	249.2	134.7	-2.1	415	1.72
	Maharashtra	27691	0	577.3	195.8	0.6	940	0.00
	Goa	717	0	14.0	13.8	-0.2	39	0.00
	DNHDDPDCL	1256	0	28.8	29.2	-0.4	28	0.00
	AMNSIL	788	0	17.8	11.5	-0.1	225	0.00
	BALCO	517	0	12.4	12.5	-0.1	5	0.00
	Andhra Pradesh	12029	0	228.5	88.9	0.0	485	0.00
	Telangana	14597	0	292.8	158.1	-0.1	453	0.00
	Karnataka	15340	0	286.4	112.2	-2.1	979	0.00
SR	Kerala	4438	0	90.3	72.6	-0.3	201	0.00
	Tamil Nadu	17294	0	354.5	211.6	-2.5	543	0.00
	Puducherry	415	0	9.2	9.0	-0.6	38	0.00
	Bihar	5223	0	97.5	87.7	-0.7	271	0.47
	DVC	3504	0	73.8	52.3	-0.5	246	0.00
	Jharkhand	1393	167	28.3	23.0	-0.4	181	4.76
	Odisha	5694	0	118.9	36.2	-1.9	323	0.00
	West Bengal	8094	0	170.3	34.0	-2.2	161	0.00
	Sikkim	52	0	0.8	0.9	-0.2	26	0.00
	NER	Arunachal Pradesh	151	0	2.4	2.3	0.0	28
Assam		1712	0	29.0	22.4	0.4	126	0.06
Manipur		200	0	2.7	2.6	0.1	30	0.00
Meghalaya		369	0	6.6	5.3	0.1	32	0.00
Mizoram		119	0	1.8	1.6	-0.1	15	0.00
Nagaland		156	0	2.4	2.4	-0.1	16	0.00
Tripura		259	0	4.3	4.1	0.2	64	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-3.2	-13.1	-24.4	-2.8
Day Peak (MW)	-327.0	-596.8	-1077.0	-354.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	84.7	-132.4	200.4	-156.6	3.9	0.0
Actual(MU)	82.0	-123.8	189.1	-158.0	3.5	-7.2
O/D/U/D(MU)	-2.7	8.6	-11.3	-1.4	-0.4	-7.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6560	12902	3578	1987	825	25852	47
State Sector	8141	13481	4546	2160	325	28651	53
Total	14701	26383	8124	4147	1150	54503	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	759	1451	714	698	12	3634	77
Lignite	28	22	67	0	0	118	3
Hvdro	147	37	66	28	8	287	6
Nuclear	25	44	76	0	0	145	3
Gas, Naptha & Diesel	6	11	7	0	32	55	1
RES (Wind, Solar, Biomass & Others)	149	110	215	4	1	479	10
Total	1114	1676	1146	730	53	4718	100

Share of RES in total generation (%)	13.34	6.57	18.78	0.57	1.88	10.15
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.79	11.45	31.22	4.43	16.54	19.31

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.048

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: 14-Mar-2023

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0	
2	HVDC	PUSAULI-B/B	-	0	296	0.0	7.2	-7.2	
3	765 kV	GAYA-VARANASI	2	0	689	0.0	12.2	-12.2	
4	765 kV	SASARAM-FAITEHPUR	1	0	338	0.0	5.8	-5.8	
5	765 kV	GAYA-BALIA	1	0	615	0.0	10.2	-10.2	
6	400 kV	PUSAULI-VARANASI	1	0	219	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	167	0.0	2.8	-2.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	26	534	0.0	4.6	-4.6	
9	400 kV	PATNA-BALIA	2	0	431	0.0	8.0	-8.0	
10	400 kV	NAUBATTI-R-BALIA	2	0	455	0.0	7.7	-7.7	
11	400 kV	BIHARSHARIFE-BALIA	2	66	234	0.0	1.5	-1.5	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	346	0.0	4.8	-4.8	
13	400 kV	BIHARSHARIFE-VARANASI	2	0	268	0.0	4.1	-4.1	
14	220 kV	SAHUPUR-BAKRAMANASA	1	0	167	0.0	2.6	-2.6	
15	132 kV	NAGARUNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4	
17	132 kV	KARMANASA-SAHUPURI	1	0	44	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	75.8	-75.4
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSI-GUDA-DHARAMJIAGARH	4	1128	28	13.1	0.0	13.1	
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	498	833	0.0	4.4	-4.4	
3	765 kV	JHARSUGUDA-DURG	2	0	1057	0.0	19.6	-19.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	838	0.0	15.0	-15.0	
5	400 kV	RANCHI-SIPA	2	0	323	0.0	4.5	-4.5	
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	206	0.0	4.0	-4.0	
7	220 kV	BUDDHIPADAR-KORBA	2	4	92	0.0	1.1	-1.1	
						ER-WR	13.1	48.6	-35.5
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZI-WAKA B/B	2	0	324	0.0	7.6	-7.6	
2	HVDC	TALCHER-KOLAR-BIPPLE	2	0	1988	0.0	41.2	-41.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3296	0.0	57.4	-57.4	
4	400 kV	TALCHER-I/C	2	253	242	2.8	0.0	2.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	106.1	-106.1
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAOON	2	129	53	1.2	0.1	1.1	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	497	48	5.6	0.0	5.6	
3	220 kV	ALIPURDUAR-SALAKATI	2	83	12	0.9	0.0	0.9	
						ER-NER	7.7	0.1	7.7
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	482	0	11.5	0.0	11.5	
						NER-NR	11.5	0.0	11.5
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2354	0.0	43.3	-43.3	
2	HVDC	VINDHYACHAL-B/B	-	183	0	4.8	0.0	4.8	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1499	0.0	21.2	-21.2	
4	765 kV	GWALIOR-AGRA	2	221	1609	0.0	16.1	-16.1	
5	765 kV	GWALIOR-PHAGI	2	0	1883	0.0	31.5	-31.5	
6	765 kV	JABALPUR-ORAI	2	0	1071	0.0	15.6	-15.6	
7	765 kV	GWALIOR-ORAI	1	965	0	16.7	0.0	16.7	
8	765 kV	SATNA-ORAI	1	0	1072	0.0	17.5	-17.5	
9	765 kV	BANASKANTHA-CHITORGARH	2	2748	0	44.8	0.0	44.8	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2179	0.0	27.3	-27.3	
11	400 kV	ZERDA-KANKROLI	1	467	0	7.4	0.0	7.4	
12	400 kV	ZERDA-BHINMAL	1	761	0	9.8	0.0	9.8	
13	400 kV	VINDHYACHAL-RIHAND	1	935	0	19.8	0.0	19.8	
14	400 kV	RAPS-SHILAPUR	2	345	0	40.4	0.0	40.4	
15	220 kV	BHANPURA-BANPUR	1	0	129	0.0	2.3	-2.3	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0	
17	220 kV	MEHGAON-AURAIYA	1	119	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	92	0	1.6	0.0	1.6	
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	127.2	155.2	-28.0
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI-B/B	-	0	1012	0.0	21.4	-21.4	
2	HVDC	BAHARH-PUGAUR	2	0	6030	0.0	75.5	-75.5	
3	765 kV	KOLHAPUR-KACHHUP	2	735	1643	0.0	9.2	-9.2	
4	765 kV	WARDHA-NIZAMABAD	2	0	3081	0.0	50.4	-50.4	
5	400 kV	KOLHAPUR-KUDGI	2	1289	0	23.6	0.0	23.6	
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	26.0	156.4	-130.5
<b>INTERNATIONAL EXCHANGES</b>									
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 IEP 4180MW)		0	0	0	-2.12		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA IEP 6170MW)		157	0	34	0.82		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA IEP 4584MW)		0	0	0	-1.76		
	NER	132kV GELEPHU-SALAKATI		-21	-6	-14	-0.33		
	NER	132kV MOTANGA-RANGIA		14	0	6	0.15		
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)		-69	0	-60	-1.43		
	ER	NEPAL IMPORT (FROM BIHAR)		-151	-103	-137	-3.29		
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2		-377	-266	-351	-8.43		
	ER	BHERAMARA B/B HVDC (B'DESH)		-902	-795	-874	-20.97		
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C		-355	41	-117	-2.80		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2		-175	0	-143	-3.44		