



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: 17<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 16.03.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16<sup>th</sup> March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 17-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)	49231	58369	46064	21095	2672	177431
Peak Shortage (MW)	80	0	0	71	14	165
Energy Met (MU)	1079	1354	1250	483	43	4209
Hydro Gen (MU)	136	31	68	25	8	268
Wind Gen (MU)	15	55	25	-	-	94
Solar Gen (MU)*	98.77	46.58	101.01	2.01	0.72	249
Energy Shortage (MU)	0.92	0.00	0.00	4.34	0.31	5.57
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51240	62721	63145	22149	2740	199643
Time Of Maximum Demand Met (From NLDC SCADA)	11:19	11:26	10:47	18:39	18:16	11:26

**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	0.047	0.00	0.00	4.04	4.04	63.62	32.35

**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	7532	0	149.8	34.7	-0.9	119	0.00
	Haryana	6860	0	140.0	87.3	-0.2	173	0.00
	Rajasthan	12862	0	253.4	65.2	-4.7	100	0.76
	Delhi	3752	0	77.4	75.5	-0.7	205	0.00
	UP	16620	0	329.0	81.1	-1.2	462	0.00
	Uttarakhand	2005	0	40.4	31.7	0.4	126	0.16
	HP	1731	0	32.4	24.5	0.6	103	0.00
	J&K(UT) & Ladakh(UT)	2621	0	53.2	44.1	-0.8	249	0.00
	Chandigarh	195	0	3.6	3.6	0.0	19	0.00
	Chhattisgarh	5275	0	118.5	65.7	-1.0	203	0.00
WR	Gujarat	18741	0	406.0	232.6	0.9	931	0.00
	MP	11154	0	225.0	109.8	-3.2	685	0.00
	Maharashtra	25820	0	530.1	181.7	-2.0	978	0.00
	Goa	701	0	13.9	14.8	-1.3	45	0.00
	DNHDDPDCL	1271	0	29.2	29.7	-0.5	60	0.00
	AMNSIL	858	0	19.1	11.8	-0.2	223	0.00
	BALCO	519	0	12.4	12.5	-0.1	513	0.00
	Andhra Pradesh	12056	0	230.3	97.8	-1.7	789	0.00
	Telangana	14475	0	274.9	161.6	-3.1	989	0.00
	Karnataka	15372	0	280.8	121.2	1.7	1145	0.00
SR	Kerala	4305	0	88.0	70.6	-0.1	218	0.00
	Tamil Nadu	18048	0	366.7	232.3	0.3	627	0.00
	Puducherry	405	0	9.2	9.4	-1.0	3	0.00
	Bihar	5110	0	98.8	86.3	1.0	279	0.35
	DVC	3520	0	72.9	50.5	-0.3	296	0.00
	Jharkhand	1306	189	27.2	21.5	-2.3	135	3.99
	Odisha	5321	0	111.2	36.1	-1.7	318	0.00
	West Bengal	8172	0	171.3	37.1	-4.1	214	0.00
	Sikkim	105	0	1.1	0.9	-0.2	72	0.00
	NER	Arunachal Pradesh	147	0	2.5	2.2	0.2	47
Assam		1586	0	24.4	18.1	0.7	116	0.00
Manipur		198	6	2.6	2.3	0.3	57	0.15
Meghalaya		346	0	5.5	4.3	0.0	41	0.16
Mizoram		111	0	1.6	1.6	-0.3	4	0.00
Nagaland		144	0	2.2	2.3	-0.2	8	0.00
Tripura		265	0	4.2	4.1	-0.1	37	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-0.5	-13.5	-24.5	0.6
Day Peak (MW)	-118.0	-584.9	-1084.0	21.4

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	67.7	-156.4	235.3	-145.0	-1.6	0.0
Actual(MU)	60.7	-154.6	233.6	-143.4	-1.0	-4.8
O/D/U/D(MU)	-7.1	1.8	-1.7	1.6	0.6	-4.8

**F. Generation Outage(MW)**

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6411	13231	3578	3087	825	27131	49
State Sector	8506	12341	5161	2460	283	28750	51
Total	14916	25571	8739	5547	1108	55881	100

**G. Sourcewise generation (Gross) (MU)**

	NR	WR	SR	ER	NER	All India	% Share
Coal	757	1410	723	678	11	3580	78
Lignite	34	24	64	0	0	122	3
Hydro	136	31	68	25	8	268	6
Nuclear	25	43	76	0	0	144	3
Gas, Naptha & Diesel	9	18	7	0	31	64	1
RES (Wind, Solar, Biomass & Others)	138	103	158	3	1	404	9
Total	1100	1629	1096	707	51	4582	100

Share of RES in total generation (%)	12.56	6.34	14.45	0.48	1.42	8.81
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.21	10.87	27.62	4.06	16.96	17.82

**H. All India Demand Diversity Factor**

Based on Regional Max Demands	1.012
Based on State Max Demands	1.050

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: 17-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	7.0	-7.0	
3	765 kV	GAYA-VARANASI	2	0	797	0.0	11.8	-11.8	
4	765 kV	SASARAM-FAITEHPUR	1	0	332	0.0	5.2	-5.2	
5	765 kV	GAYA-BALIA	1	0	571	0.0	9.4	-9.4	
6	400 kV	PUSAULI-VARANASI	1	0	223	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	151	0.0	2.6	-2.6	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	84	441	0.0	4.6	-4.6	
9	400 kV	PATNA-BALIA	2	0	422	0.0	7.4	-7.4	
10	400 kV	NAIBATTI-R-BALIA	2	0	417	0.0	6.3	-6.3	
11	400 kV	BIHARSHARIFE-BALIA	2	90	180	0.0	1.3	-1.3	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	282	0.0	4.3	-4.3	
13	400 kV	BIHARSHARIFE-VARANASI	2	7	256	0.0	3.0	-3.0	
14	220 kV	SAHUPUR-BAKRAMANASA	1	0	151	0.0	2.8	-2.8	
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	21	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	69.9	-69.5
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAGARH	4	1282	0	16.5	0.0	16.5	
2	765 kV	NEW RANCHI-DHARAMJAGARH	2	372	784	0.0	5.6	-5.6	
3	765 kV	JHARSUGUDA-DURG	2	0	855	0.0	14.4	-14.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	744	0.0	12.9	-12.9	
5	400 kV	RANCHI-SIPAT	2	15	285	0.0	3.7	-3.7	
6	220 kV	BUDDHAPADAR-RAIGARH	1	0	196	0.0	3.9	-3.9	
7	220 kV	BUDDHAPADAR-KORBA	2	2	53	0.0	0.7	-0.7	
						ER-WR	16.5	41.2	-24.6
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	430	0.0	9.9	-9.9	
2	HVDC	TALCHER-KOLAR BIPPLE	2	0	1985	0.0	45.6	-45.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3068	0.0	57.2	-57.2	
4	400 kV	TALCHER-I/C	2	249	250	0.0	1.8	-1.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	112.8	-112.8
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAOON	2	210	48	2.3	0.0	2.3	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	701	33	9.2	0.0	9.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	75	2	1.0	0.0	1.0	
						ER-NER	12.5	0.0	12.5
<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	2012	0.0	42.8	-42.8	
2	HVDC	VINDHYACHAL-B/B	-	183	0	4.9	0.0	4.9	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1499	0.0	34.5	-34.5	
4	765 kV	GWALIOR-AGRA	2	0	1676	0.0	18.6	-18.6	
5	765 kV	GWALIOR-PHAGI	2	0	1539	0.0	36.8	-36.8	
6	765 kV	JABALPUR-ORAI	2	0	771	0.0	17.5	-17.5	
7	765 kV	GWALIOR-ORAI	1	955	0	16.2	0.0	16.2	
8	765 kV	SATNA-ORAI	1	0	891	0.0	16.1	-16.1	
9	765 kV	BANASKANTHA-CHITORGARH	2	2213	0	40.5	0.0	40.5	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1696	0.0	23.0	-23.0	
11	400 kV	ZERDA-KANKROLLI	1	367	0	6.7	0.0	6.7	
12	400 kV	ZERDA-BHINMAL	1	623	0	9.1	0.0	9.1	
13	400 kV	VINDHYACHAL-RIHAND	1	954	0	21.5	0.0	21.5	
14	400 kV	RAPS-SHILAIPTUR	2	380	0	2.0	2.6	-0.6	
15	220 kV	BHANPURA-BANPUR	1	0	130	0.0	2.3	-2.3	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8	
17	220 kV	MEHGAON-AURAIYA	1	109	0	1.0	0.0	1.0	
18	220 kV	MALANPUR-AURAIYA	1	90	0	1.5	0.0	1.5	
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	137.9	150.5	-12.6
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI-B/B	-	0	1012	0.0	24.0	-24.0	
2	HVDC	BAHARH-PUGAULUR	2	0	6039	0.0	92.6	-92.6	
3	765 kV	KOLHAPUR-KACHHUP	2	556	2103	0.1	20.0	-19.9	
4	765 kV	WARDHA-NIZAMABAD	2	0	3299	0.0	55.4	-55.4	
5	400 kV	KOLHAPUR-KUDGI	2	1406	0	23.0	0.0	23.0	
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	120	2.4	0.0	2.4	
						WR-SR	25.5	192.1	-166.6
<b>INTERNATIONAL EXCHANGES</b>									
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)	-127	51	-38	-1.00			
	ER	400kV TALA-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	161	-85	70	1.79			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-98	-33	-64	-1.54			
	NER	132kV GELEPHU-SALAKATI	23	0	15	0.36			
NEPAL	NER	132kV MOTANGA-RANGIA	-17	10	-5	-0.13			
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-67	-1.60			
	ER	NEPAL IMPORT (FROM BIHAR)	-155	-79	-138	-3.32			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-355	-252	-355	-8.53			
	ER	BHERAMARA B/B HVDC (B'DESH)	-925	-812	-887	-21.30			
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	21	0	24	0.57			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-159	0	-133	-3.18			