



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: 16<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 15.03.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15<sup>th</sup> March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 16-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)	51469	58867	48769	22644	2420	184169
Peak Shortage (MW)	40	0	0	232	0	272
Energy Met (MU)	1120	1399	1301	491	44	4355
Hydro Gen (MU)	142	53	76	27	7	305
Wind Gen (MU)	15	65	29	-	-	109
Solar Gen (MU)*	90.63	36.75	112.05	4.51	0.52	244
Energy Shortage (MU)	1.52	1.31	0.00	8.37	0.10	11.30
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53227	66626	64314	23127	2610	205608
Time Of Maximum Demand Met (From NLDC SCADA)	11:58	11:01	12:18	19:23	18:01	11:33

**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	0.050	0.00	0.87	7.96	8.83	70.86	20.31

**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	7667	0	154.4	34.3	-0.1	170	0.00
	Haryana	7042	0	145.1	92.9	-0.9	116	0.00
	Rajasthan	13549	0	264.9	74.2	-3.3	102	0.57
	Delhi	3725	0	76.8	74.7	-0.4	225	0.00
	UP	18653	0	348.9	89.1	0.2	561	0.53
	Uttarakhand	2022	0	40.1	31.5	0.2	106	0.24
	HP	1821	0	33.0	24.7	0.6	165	0.04
	J&K(UT) & Ladakh(UT)	2645	0	53.2	44.5	-1.4	161	0.14
WR	Chandigarh	194	0	3.6	3.7	-0.1	14	0.00
	Chhattisgarh	5204	0	120.2	69.2	0.3	255	0.00
	Gujarat	18734	0	402.6	226.6	-2.6	876	0.00
	MP	11812	0	236.5	128.2	-3.2	479	0.79
	Maharashtra	27885	0	579.3	191.9	5.7	1453	0.52
	Goa	718	0	0.0	11.9	-11.9	51	0.00
	DNHDDPDCL	1258	0	29.1	29.5	-0.4	35	0.00
	AMNSIL	818	0	18.4	11.5	0.2	239	0.00
SR	BALCO	518	0	12.4	12.5	-0.1	10	0.00
	Andhra Pradesh	12065	0	233.2	94.5	0.4	848	0.00
	Telangana	15148	0	295.9	160.2	1.7	826	0.00
	Karnataka	15781	0	295.5	121.7	1.3	1065	0.00
	Kerala	4052	0	90.8	74.4	-0.5	296	0.00
	Tamil Nadu	17749	0	375.8	226.9	0.6	941	0.00
	Puducherry	423	0	9.5	9.1	-0.3	23	0.00
	Bihar	5304	0	99.2	90.5	-1.0	179	0.26
ER	DVC	3585	0	75.1	-52.2	-0.4	225	0.00
	Jharkhand	1327	331	27.4	23.0	-1.8	146	8.11
	Odisha	5441	0	111.5	32.9	-2.2	259	0.00
	West Bengal	8186	0	177.3	38.2	-2.9	70	0.00
	Sikkim	48	0	0.8	1.0	-0.2	25	0.00
NER	Arunachal Pradesh	155	0	2.3	2.3	-0.1	55	0.00
	Assam	1498	0	25.6	19.3	0.4	95	0.00
	Manipur	155	0	2.4	2.2	0.1	34	0.10
	Meghalaya	379	0	5.9	5.3	-0.3	33	0.00
	Mizoram	103	0	1.6	1.6	-0.3	19	0.00
	Nagaland	141	0	2.2	2.4	-0.2	5	0.00
Tripura	255	0	4.1	3.8	-0.2	31	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-3.2	-12.4	-24.4	0.4
Day Peak (MW)	-1091.0	-587.0	-1079.0	18.8

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	100.5	-167.6	222.0	-155.2	0.2	0.0
Actual(MU)	105.6	-175.1	229.0	-155.5	-0.8	3.2
O/D/U/D(MU)	5.1	-7.6	7.0	-0.4	-0.9	3.2

**F. Generation Outage(MW)**

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5428	11058	3578	1987	825	22876	43
State Sector	8876	13526	5476	2160	283	30320	57
Total	14304	24583	9054	4147	1108	53196	100

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

	NR	WR	SR	ER	NER	All India	% Share
Coal	771	1464	743	704	12	3695	78
Lignite	35	24	64	0	0	122	3
Hvdro	142	53	76	27	7	305	6
Nuclear	25	45	76	0	0	146	3
Gas, Naptha & Diesel	16	26	7	0	31	80	2
RES (Wind, Solar, Biomass & Others)	131	104	171	6	1	412	9
Total	1119	1715	1138	737	51	4760	100

Share of RES in total generation (%)	11.69	6.05	15.04	0.80	1.02	8.66
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.56	11.75	28.46	4.45	15.41	18.13

**H. All India Demand Diversity Factor**

Based on Regional Max Demands	1.021
Based on State Max Demands	1.051

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: 16-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-BB	-	0	296	0.0	7.5	-7.5	
3	765 kV	GAYA-VARANASI	2	0	688	0.0	12.3	-12.3	
4	765 kV	SASARAM-FAITEHPUR	1	0	300	0.0	5.9	-5.9	
5	765 kV	GAYA-BALIA	1	0	582	0.0	10.0	-10.0	
6	400 kV	PUSAULI-VARANASI	1	0	215	0.0	4.9	-4.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	168	0.0	2.1	-2.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	49	590	0.0	4.4	-4.4	
9	400 kV	PATNA-BALIA	2	0	512	0.0	8.0	-8.0	
10	400 kV	NAUBATPUR-BALIA	2	0	447	0.0	6.4	-6.4	
11	400 kV	BIHARSHARIFF-BALIA	2	47	281	0.0	1.6	-1.6	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	370	0.0	4.7	-4.7	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	259	0.0	3.8	-3.8	
14	220 kV	SAHUPUR-KARAMANASA	1	0	169	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	0.4	0.0	0.4	
17	132 kV	KARMANASA-SAHUPURI	1	0	50	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	74.2	-73.8
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1327	0	17.2	0.0	17.2	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	431	0	3.8	0.0	-3.8	
3	765 kV	JHARSUGUDA-RUR	2	0	1010	0.0	18.7	-18.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	777	0.0	15.2	-15.2	
5	400 kV	RANCHI-SIPAT	2	0	306	0.0	3.9	-3.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	192	0.0	3.9	-3.9	
7	220 kV	BUDHIPADAR-KORBA	1	0	110	0.0	1.1	-1.1	
						ER-WR	17.2	46.5	-29.2
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JHEKROBGA/ZIMAKA/B/B	2	0	435	0.0	9.9	-9.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	47.0	-47.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3139	0.0	59.2	-59.2	
4	400 kV	TALCHER-I/C	2	290	243	0.0	2.6	-2.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	116.1	-116.1
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	168	0	2.2	0.0	2.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	578	0	8.3	0.0	8.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	65	0	1.0	0.0	1.0	
						ER-NER	11.5	0.0	11.5
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	485	0	11.6	0.0	11.6	
						NER-NR	11.6	0.0	11.6
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUSHETRA	2	0	2014	0.0	48.1	-48.1	
2	HVDC	VINDHYACHAL-B/B	-	182	0	4.9	0.0	-4.9	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1500	34.5	0.0	34.5	
4	765 kV	GWALIOR-AGRA	2	49	1793	0.0	19.4	-19.4	
5	765 kV	GWALIOR-PHAGI	2	0	1650	0.0	34.5	-34.5	
6	765 kV	JABALPUR-ORAI	2	0	851	0.0	18.8	-18.8	
7	765 kV	GWALIOR-ORAI	1	880	0	16.6	0.0	16.6	
8	765 kV	SATNA-ORAI	1	0	896	0.0	17.1	-17.1	
9	765 kV	BANASKANTHA-CHITTORGARH	2	2163	0	35.7	0.0	35.7	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2045	0.0	28.9	-28.9	
11	400 kV	ZERDA-KANROLI	1	423	173	6.1	0.0	6.1	
12	400 kV	ZERDA-BHIMMAL	1	793	0	8.1	0.0	8.1	
13	400 kV	VINDHYACHAL-RIHAND	1	960	0	21.8	0.0	21.8	
14	400 kV	BAPP-SHULIAPUR	2	413	357	1.5	2.1	-0.6	
15	220 kV	BHANPURA-RANPUR	1	0	123	0.0	2.2	-2.2	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9	
17	220 kV	NITHIGON-AURAIYA	1	103	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	86	0	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	131.8	172.0	-40.2
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI/B/B	-	0	1012	24.0	0.0	24.0	
2	HVDC	RAIGARH-PUGALUR	2	0	6031	0.0	84.5	-84.5	
3	765 kV	SOLAPUR-RAICHUR	2	371	2225	0.4	21.0	-20.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	3188	0.0	55.4	-55.4	
5	400 kV	KOI HAPIR-KUDGI	2	1324	0	18.0	0.0	18.0	
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	122	2.5	0.0	2.5	
						WR-SR	44.8	160.9	-116.1
<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 6*180MW)		0	0	0	-1.17		
	ER	400KV TALEX-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)		135	0	6	0.15		
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)		0	0	0	-1.88		
	NER	132KV GELEPHU-SALAKATI		-25	-7	-13	-0.31		
	NER	132KV MOTANGA-RANGIA		-13	-1	-1	-0.02		
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)		-75	0	-63	-1.52		
	ER	NEPAL IMPORT (FROM BIHAR)		-153	-56	-131	-3.14		
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2		-359	-261	-321	-7.71		
	ER	BHERAMARA B/B HVDC (B'DESH)		-913	-763	-878	-21.08		
	ER (Isolated from Indian Grid)	400KV GODDA_TPS-RAHANPUR (B'DESH) D/C		19	0	15	0.37		
	NER	132KV COMILLA-SURAJMANI NAGAR 1&2		-166	0	-136	-3.27		