



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: 10<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., डोंगतिह, 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 09.03.2023.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 9<sup>th</sup> March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 10-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)	46777	57363	48254	21053	2679	176126
Peak Shortage (MW)	0	0	0	409	0	409
Energy Met (MU)	992	1282	1241	444	46	4005
Hydro Gen (MU)	126	29	76	26	8	265
Wind Gen (MU)	10	51	76	-	-	137
Solar Gen (MU)*	133.76	67.23	110.38	2.75	0.93	315
Energy Shortage (MU)	0.49	0.00	0.00	1.82	0.00	2.31
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48970	61318	61764	21850	2763	192744
Time Of Maximum Demand Met (From NLDC SCADA)	11:13	11:25	10:40	19:14	18:17	11:05

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	0.052	0.00	0.00	4.91	4.91	66.02	29.07

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	8205	0	148.0	54.6	-0.1	104	0.00
	Haryana	6702	0	118.4	77.8	-0.8	64	0.00
	Rajasthan	13008	0	249.0	69.5	-2.4	236	0.34
	Delhi	3187	0	61.0	60.4	-1.3	168	0.00
	UP	16283	0	297.5	80.8	-2.6	279	0.00
	Uttarakhand	1805	0	31.2	22.8	0.2	142	0.15
	HP	1482	0	30.3	19.1	-0.2	46	0.00
	J&K(UT) & Ladakh(UT)	2604	0	52.9	46.8	-1.2	106	0.00
	Chandigarh	183	0	3.2	3.3	-0.1	19	0.00
	Chhattisgarh	4752	0	105.8	56.2	-1.6	262	0.00
WR	Gujarat	16634	0	345.2	203.6	-4.9	453	0.00
	MP	11114	0	215.5	103.3	-3.6	429	0.00
	Maharashtra	26746	0	550.6	175.7	-0.9	683	0.00
	Goa	686	0	13.0	13.5	-0.6	53	0.00
	DNHDDPDCL	1129	0	22.2	22.8	-0.6	41	0.00
	AMNSIL	818	0	17.6	8.6	0.0	261	0.00
	BALCO	519	0	12.4	12.4	0.0	514	0.00
	Andhra Pradesh	11514	0	223.8	86.5	0.1	598	0.00
	Telangana	14523	0	291.9	157.1	1.2	647	0.00
	Karnataka	15352	0	281.6	113.2	1.2	1059	0.00
SR	Kerala	4255	0	87.7	69.7	-0.1	265	0.00
	Tamil Nadu	17159	0	347.1	197.0	-2.5	663	0.00
	Puducherry	408	0	8.7	8.8	-0.9	23	0.00
	Bihar	4551	225	85.6	73.0	0.9	276	0.48
	DVC	3425	0	69.0	42.8	1.1	217	0.00
	Jharkhand	1440	0	25.8	24.2	-3.2	87	1.34
	Odisha	5348	0	109.9	35.4	0.1	405	0.00
	West Bengal	2577	0	152.3	20.9	-2.5	222	0.00
	Sikkim	92	0	1.5	1.3	0.3	61	0.00
	NER	Arunachal Pradesh	145	0	2.4	2.4	-0.1	41
Assam		1604	0	26.8	21.2	0.2	109	0.00
Manipur		191	0	2.6	2.7	-0.1	41	0.00
Meghalaya		365	0	6.3	5.2	0.0	49	0.00
Mizoram		116	0	1.7	1.6	-0.2	14	0.00
Nagaland		143	0	2.2	2.4	-0.2	27	0.00
Tripura		240	0	4.0	3.7	-0.1	55	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-2.4	-11.5	-24.1	0.2
Day Peak (MW)	-254.0	-267.3	-1076.0	39.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	107.9	-180.7	213.7	-144.9	4.0	0.0
Actual(MU)	94.3	-189.2	235.1	-150.9	4.7	-6.0
O/D/U/D(MU)	-13.6	-8.5	21.4	-5.9	0.7	-6.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7149	12824	4438	1645	825	26881	46
State Sector	10633	14016	4866	2360	305	32179	54
Total	17782	26840	9304	4005	1130	59060	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	611	1375	649	645	10	3290	76
Lignite	27	19	61	0	0	108	2
Hvdro	126	29	76	26	8	265	6
Nuclear	25	43	76	0	0	144	3
Gas, Naptha & Diesel	3	3	7	0	29	42	1
RES (Wind, Solar, Biomass & Others)	168	119	210	5	1	502	12
Total	961	1587	1079	675	48	4351	100

Share of RES in total generation (%)	17.53	7.48	19.42	0.70	1.92	11.54
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.21	12.02	33.53	4.48	19.16	20.94

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.060

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: 10-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	297	0.0	7.3	-7.3	
3	765 kV	GAYA-VARANASI	2	0	766	0.0	9.9	-9.9	
4	765 kV	SASARAM-FAITEHPUR	1	0	345	0.0	5.1	-5.1	
5	765 kV	GAYA-BALIA	1	0	629	0.0	10.0	-10.0	
6	400 kV	PUSAULI-VARANASI	1	0	219	0.0	4.4	-4.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	167	0.0	2.9	-2.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	33	652	0.0	6.3	-6.3	
9	400 kV	PATNA-BALIA	2	0	544	0.0	8.8	-8.8	
10	400 kV	NAUBATTI-R-BALIA	2	0	588	0.0	9.2	-9.2	
11	400 kV	BIHARSHARIFE-BALIA	2	39	332	0.0	3.4	-3.4	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	450	0.0	5.7	-5.7	
13	400 kV	BIHARSHARIFE-VARANASI	2	0	351	0.0	4.0	-4.0	
14	220 kV	SAHUPUR-BAKRAMANASA	1	0	147	0.0	2.2	-2.2	
15	132 kV	NAGARUNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.3	0.0	0.3	
17	132 kV	KARMANASA-SAHUPURI	1	0	13	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.3	79.1	-78.7
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAGARH	4	1223	43	16.5	0.0	16.5	
2	765 kV	NEW RANCHI-DHARAMJAGARH	2	543	663	0.0	1.8	-1.8	
3	765 kV	JHARSUGUDA-DURG	2	0	512	0.0	9.6	-9.6	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	583	0.0	10.1	-10.1	
5	400 kV	RANCHI-SIPAT	2	54	248	0.0	1.9	-1.9	
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	194	0.0	3.5	-3.5	
7	220 kV	BUDDHIPADAR-KORBA	2	44	69	0.0	0.4	-0.4	
						ER-WR	16.5	27.4	-10.9
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	647	0.0	15.0	-15.0	
2	HVDC	TALCHER-KOLAR BIPPLE	2	0	2468	0.0	44.6	-44.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3325	0.0	59.9	-59.9	
4	400 kV	TALCHER-I/C	2	250	681	0.0	0.7	-0.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	119.4	-119.4
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAOON	2	118	107	1.2	0.2	1.0	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	463	237	5.3	0.0	5.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	46	29	0.5	0.0	0.5	
						ER-NER	7.0	0.2	6.8
<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-KURKSHETRA	2	0	1016	0.0	19.2	-19.2	
2	HVDC	VINDHYACHAL-B/B	-	442	0	5.3	0.0	5.3	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	300	0.0	7.4	-7.4	
4	765 kV	GWALIOR-AGRA	2	112	1941	0.1	21.2	-21.1	
5	765 kV	GWALIOR-PHAGI	2	20	2136	0.0	27.5	-27.5	
6	765 kV	JABALPUR-ORAI	2	114	772	0.0	15.9	-15.9	
7	765 kV	GWALIOR-ORAI	1	1048	0	17.5	0.0	17.5	
8	765 kV	SATNA-ORAI	1	0	819	0.0	15.3	-15.3	
9	765 kV	BANASKANTHA-CHITORGARH	2	2775	0	44.8	0.0	44.8	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1924	0.0	26.0	-26.0	
11	400 kV	ZERDA-KANKROLI	1	481	0	7.5	0.0	7.5	
12	400 kV	ZERDA-BHINMAL	1	848	0	10.3	0.0	10.3	
13	400 kV	VINDHYACHAL-RIHAND	1	471	0	10.7	0.0	10.7	
14	400 kV	RAPS-SHILAPUR	2	522	0	3.2	0.0	3.2	
15	220 kV	BHANPURA-RANPUR	1	0	113	0.0	1.8	-1.8	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7	
17	220 kV	MEHGAON-AURAIYA	1	84	0	0.6	0.0	0.6	
18	220 kV	MALANPUR-AURAIYA	1	62	8	1.0	0.0	1.0	
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	100.8	139.0	-38.2
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI-B/B	-	0	1016	0.0	17.3	-17.3	
2	HVDC	BAHARH-PUGAUR	2	0	6037	0.0	80.5	-80.5	
3	765 kV	KOLHAPUR-RAICHUR	2	879	2419	0.6	24.1	-23.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	3867	0.0	62.1	-62.1	
5	400 kV	KOLHAPUR-KUDGI	2	1381	0	19.4	0.0	19.4	
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	2.2	0.0	2.2	
						WR-SR	22.3	184.0	-161.8
<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 HEP 4180MW)		0	0	0	-1.82		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6170MW)		171	0	45	1.08		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4384MW)		0	0	0	-1.86		
	NER	132kV GELEPHU-SALAKATI		21	1	12	0.28		
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)		-75	0	-61	-1.47		
	ER	NEPAL IMPORT (FROM BIHAR)		146	19	-87	-2.08		
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2		-338	-127	-330	-7.91		
	ER	BHERAMARA B/B HVDC (B'DESH)		-914	-753	-868	-20.83		
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C		39	-143	7	0.17		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2		-162	0	-136	-3.26		