



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: 15th 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 14.03.2023.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting:

15-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)	51899	60127	49008	22849	2786	186669
Peak Shortage (MW)	230	248	0	234	0	712
Energy Met (MU)	1123	1427	1295	488	49	4381
Hydro Gen (MU)	146	46	73	26	5	296
Wind Gen (MU)	7	49	35	-	-	91
Solar Gen (MU)*	127.81	56.83	128.34	4.88	0.83	319
Energy Shortage (MU)	3.27	0.94	0.00	5.01	0.14	9.36
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54805	66081	63867	23781	2874	207202
Time Of Maximum Demand Met (From NLDC SCADA)	11:52	11:32	12:16	18:34	18:02	11:29

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	0.048	0.00	0.00	6.05	6.05	68.31	25.63

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	8142	0	156.5	36.6	-0.9	123	0.23
	Haryana	7414	0	147.8	95.6	-0.4	159	0.00
	Rajasthan	13671	0	271.4	77.5	-1.7	158	0.00
	Delhi	3744	0	75.8	73.1	0.1	248	0.00
	UP	18665	0	342.3	72.3	1.9	462	2.20
	Uttarakhand	1961	0	40.1	30.6	0.5	146	0.34
	HP	1789	0	31.3	22.9	0.4	86	0.50
	J&K(UT) & Ladakh(UT)	2667	0	54.7	45.4	-0.8	164	0.00
WR	Chhattisgarh	191	0	3.4	3.5	0.0	20	0.00
	Gujarat	5316	0	120.5	68.4	-0.1	256	0.19
	MP	18705	0	409.7	239.7	-2.9	687	0.00
	MH	12043	0	244.5	134.6	-4.2	490	0.75
	Maharashtra	27830	0	579.3	191.3	3.3	791	0.00
	Goa	695	0	14.2	14.4	-0.6	32	0.00
	DNHDDPDCL	1255	0	28.9	29.4	-0.5	19	0.00
	AMNSIL	881	0	18.0	11.5	0.1	273	0.00
SR	BALCO	517	0	12.3	12.5	-0.2	0	0.00
	Andhra Pradesh	12181	0	231.8	91.4	0.1	330	0.00
	Telangana	15254	0	299.2	162.3	1.0	1008	0.00
	Karnataka	15551	0	296.5	119.1	1.5	1246	0.00
	Kerala	4491	0	92.1	73.9	-0.4	216	0.00
	Tamil Nadu	17705	0	365.6	220.1	-1.1	672	0.00
	Puducherry	413	0	9.4	9.2	-0.6	23	0.00
	Bihar	5350	0	99.8	90.3	-1.2	394	0.41
ER	DVC	3598	0	74.9	-50.9	-0.6	205	0.00
	Jharkhand	1424	0	27.2	23.0	-1.5	174	4.60
	Odisha	5410	0	109.8	32.6	-1.2	257	0.00
	West Bengal	8106	0	175.2	35.6	-2.0	99	0.00
	Sikkim	47	0	0.8	0.9	-0.2	23	0.00
	NER	Arunachal Pradesh	154	0	2.4	2.3	0.0	36
Assam		1671	0	28.9	24.2	-0.3	105	0.00
Manipur		200	0	2.7	2.6	0.2	31	0.00
Meghalaya		384	0	6.5	5.3	0.2	42	0.14
Mizoram		120	0	1.8	1.6	-0.1	7	0.00
Nagaland		146	0	2.4	2.4	-0.1	7	0.00
Tripura		256	0	4.0	3.9	-0.2	41	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-4.2	-13.7	-24.7	0.5
Day Peak (MW)	-265.0	-612.7	-1065.0	25.8

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	71.3	-140.9	214.8	-150.1	4.9	0.0
Actual(MU)	69.1	-145.6	215.6	-150.9	5.6	-6.2
O/D/U/D(MU)	-2.1	-4.7	0.8	-0.8	0.7	-6.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5928	11333	3578	1987	825	23651	45
State Sector	8666	13731	3956	2370	325	29046	55
Total	14594	25063	7534	4357	1150	52697	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	768	1469	738	694	12	3681	77
Lignite	32	22	68	0	0	122	3
Hvdro	146	46	73	26	5	296	6
Nuclear	25	44	76	0	0	145	3
Gas, Naptha & Diesel	12	17	7	0	31	67	1
RES (Wind, Solar, Biomass & Others)	160	107	194	7	1	468	10
Total	1143	1704	1156	726	49	4778	100
Share of RES in total generation (%)	13.97	6.27	16.80	0.95	1.69	9.80	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.88	11.57	29.71	4.47	12.79	19.03	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.052

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: 15-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-BB	-	0	296	0.0	7.1	-7.1	
3	765 kV	GAYA-VARANASI	2	0	670	0.0	-9.8	9.8	
4	765 kV	SASARAM-FAITEHPUR	1	0	346	0.0	5.4	-5.4	
5	765 kV	GAYA-BALIA	1	0	584	0.0	8.8	-8.8	
6	400 kV	PUSAULI-VARANASI	1	0	211	0.0	4.2	-4.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	170	0.0	3.7	-3.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	132	509	0.0	-3.0	3.0	
9	400 kV	PATNA-BALIA	2	0	419	0.0	6.6	-6.6	
10	400 kV	NAUBATPUR-BALIA	2	0	432	0.0	6.4	-6.4	
11	400 kV	BIHARSHARIFF-BALIA	2	117	211	0.0	0.3	-0.3	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	316	0.0	3.7	-3.7	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	244	0.0	2.8	-2.8	
14	220 kV	SAHUPUR-KARAMANASA	1	0	165	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	0	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	64.4	-64.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1268	0	18.5	0.0	18.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	526	485	0.0	1.8	-1.8	
3	765 kV	JHARSUGUDA-RUR	2	0	981	0.0	19.4	-19.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	842	0.0	16.1	-16.1	
5	400 kV	RANCHI-SIPAT	2	0	276	0.0	3.8	-3.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	201	0.0	3.9	-3.9	
7	220 kV	BUDHIPADAR-KORBA	1	0	131	0.0	1.3	-1.3	
						ER-WR	18.5	46.3	-27.8
Import/Export of ER (With SR)									
1	HVDC	JHEKROBE-GUZIWAKA/B/B	2	0	653	0.0	13.5	-13.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1993	0.0	42.3	-42.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3094	0.0	59.9	-59.9	
4	400 kV	TALCHER-I/C	2	629	247	1.7	0.0	1.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	115.7	-115.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	99	57	0.7	0.1	0.6	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	390	63	4.4	0.0	4.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	70	17	0.4	0.0	0.4	
						ER-NER	5.5	0.1	5.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	482	0	11.3	0.0	11.3	
						NER-NR	11.3	0.0	11.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUSHETRA	2	0	2102	0.0	47.6	-47.6	
2	HVDC	VINDHYACHAL-B/B	-	183	0	4.9	0.0	4.9	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1499	34.5	0.0	34.5	
4	765 kV	GWALIOR-AGRA	2	136	1730	0.1	18.5	-18.5	
5	765 kV	GWALIOR-PHAGI	2	0	1882	0.0	28.7	-28.7	
6	765 kV	JABALPUR-ORAI	2	0	883	0.0	20.3	-20.3	
7	765 kV	GWALIOR-ORAI	1	985	0	17.8	0.0	17.8	
8	765 kV	SATNA-ORAI	1	0	900	0.0	16.2	-16.2	
9	765 kV	BANASKANTHA-CHITTORGARH	2	2763	0	42.2	0.0	42.2	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2269	0.0	31.3	-31.3	
11	400 kV	ZERDA-KANEROLI	1	487	0	7.0	0.0	7.0	
12	400 kV	ZERDA-BHIMMAL	1	891	0	9.7	0.0	9.7	
13	400 kV	VINDHYACHAL-RIHAND	1	956	0	21.8	0.0	21.8	
14	400 kV	BAPP-SHULALPUR	2	457	365	2.5	2.4	0.1	
15	220 kV	BHANPURA-RANPUR	1	0	123	0.0	2.2	-2.2	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0	
17	220 kV	NIHAGORA-AURAIYA	1	111	0	1.1	0.0	1.1	
18	220 kV	MALANPUR-AURAIYA	1	91	0	1.5	0.0	1.5	
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	143.0	168.2	-25.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI/B/B	-	0	1012	0.0	23.5	-23.5	
2	HVDC	RAIGARH-PUGAUR	2	0	5017	0.0	62.1	-62.1	
3	765 kV	SOLAPUR-RAICHUR	2	234	2064	0.2	22.8	-22.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	3489	0.0	58.6	-58.6	
5	400 kV	KOI HAPIR-KUDGI	2	1135	0	16.7	0.0	16.7	
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	19.3	167.0	-147.7
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 6*180MW)		0	0	0	-2.07		
	ER	400KV TALEX-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)		0	0	0	-0.36		
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)		0	0	0	-1.79		
	NER	132KV GELEPHU-SALAKATI		45	1	13	0.31		
	NER	132KV MOTANGA-RANGIA		-25	0	-11	-0.27		
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)		-76	0	-65	-1.56		
	ER	NEPAL IMPORT (FROM BIHAR)		-161	-111	-139	-3.33		
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2		-376	-285	-366	-8.78		
	ER	BHERAMARA B/B HVDC (B'DESH)		-902	-797	-887	-21.29		
	ER (Isolated from Indian Grid)	400KV GODDA_TPS-RAHANPUR (B'DESH) D/C		26	0	20	0.48		
	NER	132KV COMILLA-SURAJMANI NAGAR 1&2		-163	0	-141	-3.38		