



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: 02nd 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 01.03.2023.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01 March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 02-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)	50449	62147	47515	21672	2666	184449
Peak Shortage (MW)	598	0	0	335	10	943
Energy Met (MU)	1095	1466	1252	465	47	4325
Hydro Gen (MU)	129	63	69	26	9	295
Wind Gen (MU)	27	45	97	-	-	169
Solar Gen (MU)*	120.68	61.96	124.56	3.31	0.89	311
Energy Shortage (MU)	2.51	3.27	0.00	5.01	0.01	10.80
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54638	68215	61417	22428	2801	205244
Time Of Maximum Demand Met (From NLDC SCADA)	10:45	10:44	11:25	18:30	18:04	10:57

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	0.057	0.00	0.02	3.58	3.60	64.38	32.02

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	6449	0	129.9	27.3	-1.0	97	0.81
	Haryana	6597	0	128.6	82.6	-1.9	168	0.00
	Rajasthan	15551	0	301.0	90.2	-3.8	167	0.00
	Delhi	3707	0	68.6	61.1	-2.0	85	0.00
	UP	17012	23	334.1	109.0	-2.1	420	0.19
	Uttarakhand	1915	0	38.3	27.5	0.2	126	1.46
	HP	1880	0	34.2	25.6	0.8	213	0.00
	J&K(UT) & Ladakh(UT)	2663	0	57.0	50.1	-1.1	96	0.05
WR	Chandigarh	200	0	3.4	3.4	0.0	48	0.00
	Chhattisgarh	5309	0	118.3	61.5	-0.8	158	0.00
	Gujarat	18369	0	408.9	181.4	-0.4	814	0.00
	MP	14298	0	294.2	157.1	-1.4	543	3.27
	Maharashtra	27740	0	572.3	177.2	-1.2	648	0.00
	Goa	659	0	14.8	13.3	1.0	117	0.00
	DNHDDPDCL	1210	0	28.3	29.0	-0.7	8	0.00
	AMNSIL	789	0	17.3	7.8	0.3	277	0.00
SR	BALCO	516	0	12.3	12.4	-0.1	6	0.00
	Andhra Pradesh	11735	0	227.1	79.1	-1.1	371	0.00
	Telangana	14527	0	296.0	158.8	-1.8	727	0.00
	Karnataka	15374	0	285.0	93.1	-1.3	738	0.00
	Kerala	4216	0	84.9	63.2	-0.4	227	0.00
	Tamil Nadu	17213	0	349.7	199.8	-4.2	444	0.00
	Puducherry	405	0	9.0	8.9	-0.7	36	0.00
	Bihar	4950	0	92.6	80.4	0.1	199	0.24
ER	DVC	3360	0	72.8	-41.5	3.5	122	0.00
	Jharkhand	1401	0	27.3	23.4	-2.2	118	4.77
	Odisha	5342	0	111.3	27.8	-1.9	493	0.00
	West Bengal	7636	0	159.2	29.2	-2.9	126	0.00
	Sikkim	113	0	1.8	0.9	0.9	69	0.00
NER	Arunachal Pradesh	148	0	2.5	2.5	-0.1	24	0.00
	Assam	1583	0	27.1	21.4	0.3	82	0.01
	Manipur	209	0	2.9	2.8	0.1	36	0.00
	Meghalaya	372	0	6.6	4.7	0.0	68	0.00
	Mizoram	119	0	1.8	1.6	-0.2	11	0.00
	Nagaland	149	0	2.3	2.3	-0.1	9	0.00
Tripura	247	0	4.1	3.5	-0.2	37	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-1.6	-11.7	-23.8	0.2
Day Peak (MW)	-229.0	-285.8	-1046.0	10.4

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	131.1	-143.0	169.0	-153.6	-3.5	0.0
Actual(MU)	116.9	-124.2	155.3	-149.7	-3.9	-5.7
O/D/U/D(MU)	-14.2	18.7	-13.7	3.8	-0.4	-5.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8344	14949	4698	3110	880	31981	54
State Sector	10100	9983	3478	3530	162	27252	46
Total	18443	24932	8176	6640	1042	59233	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	696	1470	711	657	17	3550	76
Lignite	29	17	63	0	0	109	2
Hvdro	129	63	69	26	9	295	6
Nuclear	20	37	70	0	0	127	3
Gas, Naptha & Diesel	9	22	6	0	32	69	1
RES (Wind, Solar, Biomass & Others)	172	109	248	4	1	534	11
Total	1055	1716	1168	687	58	4684	100
Share of RES in total generation (%)	16.34	6.33	21.21	0.59	1.52	11.39	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.44	12.12	33.19	4.32	16.34	20.41	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.042

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: 02-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	2	0	296	0.0	7.2	-7.2	
3	765 kV	GAYA-VARANASI	2	0	667	0.0	12.6	-12.6	
4	765 kV	SASARAM-FAITEHPUR	1	0	292	0.0	4.8	-4.8	
5	765 kV	GAYA-BALIA	1	0	558	0.0	10.1	-10.1	
6	400 kV	PUSAULI-VARANASI	1	0	199	0.0	4.3	-4.3	
7	400 kV	PUSAULI-ALLAHABAD	1	0	157	0.0	2.9	-2.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	617	0.0	7.7	-7.7	
9	400 kV	PATNA-BALIA	2	0	516	0.0	10.0	-10.0	
10	400 kV	NAUBATPUR-BALIA	2	0	538	0.0	10.3	-10.3	
11	400 kV	BIHARSHARIFF-BALIA	2	0	332	0.0	5.3	-5.3	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	377	0.0	6.2	-6.2	
13	400 kV	BIHARSHARIFF-VARANASI	2	0	241	0.0	3.6	-3.6	
14	220 kV	SAHUPUR-KARAMANASA	1	0	168	0.0	2.5	-2.5	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5	
17	132 kV	KARMANASA-SAHUPURI	1	0	31	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.5	87.4	-86.9
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJIAGARH	4	841	107	7.4	0.0	7.4	
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	417	549	0.0	2.1	-2.1	
3	765 kV	JHARSUGUDA-RDG	2	0	522	0.0	10.2	-10.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	633	0.0	12.4	-12.4	
5	400 kV	RANCHI-SIPAT	2	2	246	0.0	3.2	-3.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	189	0.0	3.5	-3.5	
7	220 kV	BUDHIPADAR-KORBA	2	25	86	0.0	0.7	-0.7	
						ER-WR	7.4	32.1	-24.8
Import/Export of ER (With SR)									
1	HVDC	JEKYONGGA/ZUYAKA/B/B	2	0	550	0.0	12.6	-12.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	39.3	-39.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2755	0.0	51.6	-51.6	
4	400 kV	TALCHER-I/C	2	622	322	3.1	0.0	3.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	103.5	-103.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	237	0	3.4	0.0	3.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	719	0	10.9	0.0	10.9	
3	220 kV	ALIPURDUAR-SALAKATI	2	72	0	1.1	0.0	1.1	
						ER-NER	15.4	0.0	15.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	484	0	11.5	0.0	11.5	
						NER-NR	11.5	0.0	11.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUSHKETRA	2	0	311	0.0	7.6	-7.6	
2	HVDC	VINDHYACHAL-B/B	2	454	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	788	0.0	12.9	-12.9	
4	765 kV	GWALIOR-AGRA	2	0	1545	0.0	21.4	-21.4	
5	765 kV	GWALIOR-PHAGI	2	0	1542	0.0	26.2	-26.2	
6	765 kV	JABALPUR-ORAI	2	0	917	0.0	26.7	-26.7	
7	765 kV	GWALIOR-ORAI	1	927	0	16.7	0.0	16.7	
8	765 kV	SATNA-ORAI	1	0	859	0.0	16.8	-16.8	
9	765 kV	BANASKANTHA-CHITTOORGARH	2	2194	0	38.9	0.0	38.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2159	0.0	32.6	-32.6	
11	400 kV	ZERDA-KANEROLI	1	311	0	5.7	0.0	5.7	
12	400 kV	ZERDA-BHIMMAL	1	492	0	7.9	0.0	7.9	
13	400 kV	VINDHYACHAL-RIHAND	1	470	0	10.7	0.0	10.7	
14	400 kV	BAPP-SHULALPUR	2	417	0	2.1	1.3	0.8	
15	220 kV	BHANPURA-RANPUR	1	0	153	0.0	2.8	-2.8	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4	
17	220 kV	NITHIGAOAN-AURAIYA	1	116	0	1.0	0.0	1.0	
18	220 kV	MALANPUR-AURAIYA	1	87	0	1.7	0.0	1.7	
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	96.8	149.7	-52.9
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI/B/B	2	0	613	0.0	10.1	-10.1	
2	HVDC	RAIGARH-PUGAUR	2	0	4907	0.0	54.3	-54.3	
3	765 kV	SOLAPUR-RAICHUR	2	535	1388	1.1	6.8	-5.7	
4	765 kV	WARDHA-NIZAMABAD	2	0	3281	0.0	53.5	-53.5	
5	400 kV	KOI HAPIR-KUDGI	2	1293	0	25.0	0.0	25.0	
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	123	2.4	0.0	2.4	
						WR-SR	28.5	124.6	-96.1
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	-2.11			
	ER	400KV TALEX-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	169	0	82	2.17			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-2.06			
	NER	132KV GELEPHU-SALAKATI	32	-8	20	0.47			
	NER	132KV MOTANGA-RANGIA	-8	2	-4	-0.09			
NEPAL	NR	132KV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-61	-1.46			
	ER	NEPAL IMPORT (FROM BIHAR)	146	89	-126	-3.03			
BANGLADESH	ER	400KV DHALKEBAR-MUZAFFARPUR 1&2	-359	-145	-301	-7.23			
	ER	BHERAMARA B/B HVDC (B'DESH)	-906	-763	-875	-20.99			
	ER (Isolated from Indian Grid)	400KV GODDA_TPS-RAHANPUR (B'DESH) D/C	10	0	8	0.19			
	NER	132KV COMILLA-SURAJMANI NAGAR 1&2	-140	0	-118	-2.84			