



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: 29th 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 28.03.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-मार्च -2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 28th March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 29-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)	48903	58654	50287	22850	2515	183209
Peak Shortage (MW)	680	496	0	315	36	1527
Energy Met (MU)	997	1397	1280	506	46	4226
Hydro Gen (MU)	115	56	78	33	9	291
Wind Gen (MU)	10	61	29	-	-	100
Solar Gen (MU)*	142.80	68.06	127.43	3.24	0.95	342
Energy Shortage (MU)	2.82	2.32	0.00	2.81	0.60	8.55
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49238	64896	61875	23581	2613	193964
Time Of Maximum Demand Met (From NLDC SCADA)	19:22	10:51	12:30	18:44	19:06	09:56

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	0.059	0.00	1.44	11.32	12.75	71.77	15.47

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	6131	0	124.9	40.5	-1.4	104	0.92
	Haryana	6079	0	123.4	84.0	-0.8	185	0.00
	Rajasthan	11527	0	226.7	56.3	-3.4	79	0.67
	Delhi	3642	0	67.5	65.1	-6.4	951	0.00
	UP	17648	0	318.4	65.4	1.1	363	0.00
	Uttarakhand	2010	0	38.5	29.7	0.1	149	0.56
	HP	1826	0	33.2	21.7	1.0	214	0.00
	J&K(UT) & Ladakh(UT)	2801	220	57.7	47.9	0.2	308	0.67
	Chandigarh	187	0	3.3	3.1	0.2	53	0.00
	Railways NR ISTS	160	0	3.2	3.1	0.1	29	0.00
WR	Chhattisgarh	4998	0	111.5	64.4	-3.2	384	2.10
	Gujarat	18710	0	409.0	213.9	1.8	770	0.00
	MP	11287	0	230.8	114.2	-1.0	455	0.00
	Maharashtra	27353	0	573.0	177.8	1.4	983	0.00
	Goa	613	0	13.0	12.8	-0.2	137	0.22
	DNHDDPDCL	1264	0	29.1	29.3	-0.2	72	0.00
	AMNSIL	803	0	18.4	11.1	0.1	276	0.00
	BALCO	515	0	12.3	12.3	0.0	28	0.00
	Andhra Pradesh	11054	0	225.3	89.3	-0.2	412	0.00
	Telangana	14694	0	288.6	151.2	2.3	841	0.00
SR	Karnataka	15000	0	296.5	116.1	1.2	1304	0.00
	Kerala	4517	0	91.8	72.7	-0.6	216	0.00
	Tamil Nadu	17467	0	367.9	219.4	-0.3	504	0.00
	Puducherry	440	0	9.7	9.5	-0.5	76	0.00
ER	Bihar	5305	0	100.4	90.7	-0.5	420	0.35
	DVC	3526	0	75.5	49.2	-1.8	251	0.00
	Jharkhand	1364	0	30.5	22.2	-0.6	140	2.46
	Odisha	5734	0	120.4	38.9	-1.4	265	0.00
	West Bengal	8319	0	178.0	35.5	-1.8	191	0.00
	Sikkim	100	0	1.6	1.4	0.2	65	0.00
NER	Arunachal Pradesh	152	0	2.5	2.5	-0.1	22	0.00
	Assam	1550	0	27.6	22.4	0.5	125	0.00
	Manipur	190	0	2.6	2.4	0.2	53	0.00
	Meghalaya	316	21	5.5	4.1	0.1	35	0.60
	Mizoram	105	0	1.7	1.6	-0.2	11	0.00
	Nagaland	134	0	2.2	2.2	-0.1	7	0.00
	Tripura	237	0	4.1	3.5	-0.1	42	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-2.6	-11.6	-23.8	-14.4
Day Peak (MW)	-354.0	-589.1	-1080.0	-771.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	62.8	-148.7	231.4	-152.7	7.1	0.0
Actual(MU)	47.2	-136.5	230.8	-157.8	8.4	-7.9
O/D/U/D(MU)	-15.6	12.2	-0.7	-5.1	1.3	-7.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6423	16081	4528	1577	1188	29797	50
State Sector	10160	13468	3896	1300	418	29242	50
Total	16582	29549	8424	2877	1606	59038	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	669	1429	713	732	11	3553	76
Lignite	28	20	68	0	0	116	3
Hydro	115	56	78	33	9	291	6
Nuclear	25	32	76	0	0	133	3
Gas, Naptha & Diesel	12	19	7	0	23	60	1
RES (Wind, Solar, Biomass & Others)	178	131	181	4	1	495	11
Total	1027	1686	1123	769	44	4648	100

Share of RES in total generation (%)	17.32	7.75	16.15	0.50	2.16	10.64
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.96	12.94	29.88	4.84	21.95	19.76

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.071

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: 29-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 B/B	-	0	296	0.0	7.1	-7.1
3	765 kV	GAYA-VARANASI	2	6	760	0.0	11.0	-11.0
4	765 kV	SASARAM-FATEHPUR	1	0	441	0.0	7.7	-7.7
5	765 kV	GAYA-BALIA	1	0	586	0.0	9.1	-9.1
6	400 kV	PUSAULI-VARANASI	1	0	212	0.0	4.1	-4.1
7	400 kV	PUSAULI-ALLAHABAD	1	0	180	0.0	3.1	-3.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	287	698	0.0	4.6	-4.6
9	400 kV	PATNA-BALIA	2	0	533	0.0	7.1	-7.1
10	400 kV	NAUBATPUR-BALIA	2	0	552	0.0	7.1	-7.1
11	400 kV	BIHARSHARIFF-BALIA	2	145	225	0.0	0.6	-0.6
12	400 kV	MOTIHARI-GORAKHPUR	2	37	458	0.0	5.4	-5.4
13	400 kV	BIHARSHARIFF-VARANASI	2	97	298	0.0	3.1	-3.1
14	220 kV	SAHUPURI-KARAMANASA	1	25	152	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	0.6	0.0	0.6
17	132 kV	KARMANASA-SAHUPURI	1	0	38	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.6	72.1	-71.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	962	174	8.0	0.0	8.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	277	790	0.0	5.1	-5.1
3	765 kV	JHARSUGUDA-DURG	2	0	649	0.0	11.3	-11.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	1029	0.0	16.4	-16.4
5	400 kV	RANCHI-SIPAT	2	0	347	0.0	4.2	-4.2
6	220 kV	BUDHIPADAR-RAIGARH	1	24	172	0.0	2.7	-2.7
7	220 kV	BUDHIPADAR-KORBA	2	2	195	0.0	1.9	-1.9
ER-WR						8.0	41.6	-33.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	560	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1691	0.0	38.7	-38.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2847	0.0	56.2	-56.2
4	400 kV	TALCHER-I/C	2	648	0	5.9	0.0	5.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	107.3	-107.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	85	76	0.5	0.4	0.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	328	120	2.5	0.0	2.5
3	220 kV	ALIPURDUAR-SALAKATI	2	35	9	0.3	0.0	0.3
ER-NER						3.2	0.4	2.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	502	0	11.6	0.0	11.6
NER-NR						11.6	0.0	11.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1500	0.0	15.1	-15.1
2	HVDC	VINDHYACHAL B/B	-	442	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1300	0.0	26.8	-26.8
4	765 kV	GWALIOR-AGRA	2	14	1809	0.0	19.5	-19.5
5	765 kV	GWALIOR-PHAGI	2	93	1873	0.1	28.2	-28.2
6	765 kV	JABALPUR-ORAI	2	78	960	0.0	17.8	-17.8
7	765 kV	GWALIOR-ORAI	1	1049	0	17.1	0.0	17.1
8	765 kV	SATNA-ORAI	1	0	1055	0.0	19.0	-19.0
9	765 kV	BANASKANTHA-CHITORGARH	2	2771	0	38.0	0.0	38.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2140	0.0	32.3	-32.3
11	400 kV	ZERDA-KANKROLI	1	462	0	6.6	0.0	6.6
12	400 kV	ZERDA-BHINMAL	1	830	0	9.9	0.0	9.9
13	400 kV	VINDHYACHAL-RIHAND	1	957	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	506	437	3.4	3.1	0.3
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
17	220 kV	MEHGAON-AURAIYA	1	97	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	79	4	1.1	0.0	1.1
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						137.6	135.9	1.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGLUR	2	0	6029	0.0	93.1	-93.1
3	765 kV	SOLAPUR-RAICHUR	2	532	1866	0.1	17.7	-17.5
4	765 kV	WARDHA-NIZAMABAD	2	0	3043	0.0	53.2	-53.2
5	400 kV	KOLHAPUR-KUDGI	2	1051	0	14.7	0.0	14.7
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	125	2.4	2.4	0.0
WR-SR						17.3	187.9	-170.6
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 4*180MW)	-157	22	-66	-1.58		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	185	-130	70	1.69		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-153	-52	-105	-2.53		
	NER	132kV GELEPHU-SALAKATI	-17	1	-8	-0.19		
	NER	132kV MOTANGA-RANGIA	0	0	0	0.00		
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-66	-1.59		
	ER	NEPAL IMPORT (FROM BIHAR)	-131	-70	-88	-2.11		
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-382	-255	-329	-7.90		
	ER	BHERAMARA B/B HVDC (B'DESH)	-912	-700	-871	-20.90		
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-771	0	-598	-14.35		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-168	0	-121	-2.90		