



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: 30th 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 29.03.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-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 29th March 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 30-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)	48851	59540	49748	21616	2643	182398
Peak Shortage (MW)	0	0	0	362	54	416
Energy Met (MU)	1016	1402	1291	514	46	4269
Hydro Gen (MU)	113	52	81	33	9	289
Wind Gen (MU)	32	64	34	-	-	130
Solar Gen (MU)*	113.69	59.59	123.24	2.77	0.99	300
Energy Shortage (MU)	1.82	0.47	0.00	3.77	0.52	6.58
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49229	63650	62920	23301	2673	194582
Time Of Maximum Demand Met (From NLDC SCADA)	19:27	10:19	11:30	18:46	18:34	10:19

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	0.118	0.93	8.05	13.04	22.02	61.30	16.68

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	6259	0	127.4	40.8	-1.6	44	0.00
	Haryana	5898	0	124.9	82.8	-0.2	268	0.00
	Rajasthan	11157	0	227.4	33.6	-7.3	0	0.00
	Delhi	3648	0	73.8	66.5	-1.2	184	0.00
	UP	17371	0	325.7	80.0	-0.9	441	0.00
	Uttarakhand	1896	0	38.6	29.8	0.5	110	0.76
	HP	1917	0	34.0	23.4	0.7	111	0.06
	J&K(UT) & Ladakh(UT)	2761	0	57.5	48.3	-0.5	103	1.00
	Chandigarh	195	0	3.5	3.2	0.3	35	0.00
	Railways NR ISTS	155	0	3.2	3.1	0.2	25	0.00
WR	Chhattisgarh	5112	0	117.7	62.8	1.0	263	0.47
	Gujarat	18202	0	404.8	216.6	1.4	977	0.00
	MP	11453	0	235.4	121.5	-1.8	295	0.00
	Maharashtra	27060	0	571.1	176.3	1.7	1138	0.00
	Goa	670	0	13.2	13.3	-0.5	43	0.00
	DNHDDPDCL	1259	0	29.0	29.4	-0.4	50	0.00
	AMNSIL	855	0	18.3	11.3	-0.1	248	0.00
	BALCO	515	0	12.3	12.3	0.0	511	0.00
	Andhra Pradesh	11257	0	229.3	98.3	2.1	882	0.00
	Telangana	15017	0	285.9	155.5	1.0	1391	0.00
SR	Karnataka	15828	0	300.5	118.0	0.4	1411	0.00
	Kerala	4415	0	93.1	72.6	-0.6	147	0.00
	Tamil Nadu	17512	0	372.2	221.0	0.6	829	0.00
	Puducherry	429	0	9.7	9.7	-0.7	85	0.00
	Bihar	5378	0	101.6	92.6	-2.3	203	0.16
ER	DVC	3579	0	76.6	-50.6	-0.5	304	0.00
	Jharkhand	1419	124	30.6	22.0	0.0	172	3.61
	Odisha	5493	0	116.2	39.7	-1.2	407	0.00
	West Bengal	8409	0	187.7	43.6	-1.9	262	0.00
	Sikkim	109	0	1.7	1.2	0.4	70	0.00
	Arunachal Pradesh	160	0	2.4	2.5	-0.2	20	0.00
	Assam	1567	0	27.4	23.0	0.1	96	0.00
NER	Manipur	196	0	2.7	2.6	0.1	57	0.00
	Meghalaya	330	15	5.6	3.8	0.2	35	0.52
	Mizoram	116	0	1.8	1.6	-0.1	16	0.00
	Nagaland	136	0	2.2	2.2	-0.2	5	0.00
	Tripura	227	0	3.6	3.2	0.0	58	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-3.6	-12.5	-23.9	-14.3
Day Peak (MW)	-406.6	-593.8	-1045.0	-796.8

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	52.1	-149.8	243.0	-152.9	7.5	0.0
Actual(MU)	39.7	-140.5	246.8	-163.7	8.0	-9.7
O/D/U/D(MU)	-12.4	9.3	3.8	-10.9	0.6	-9.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6327	13221	4378	1077	1188	26191	48
State Sector	9990	12943	3401	1510	356	28199	52
Total	16317	26164	7779	2587	1544	54390	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	703	1411	712	743	11	3581	77
Lignite	27	20	68	0	0	115	2
Hydro	113	52	81	33	9	289	6
Nuclear	25	32	76	0	0	133	3
Gas, Naptha & Diesel	11	19	7	0	23	59	1
RES (Wind, Solar, Biomass & Others)	171	125	181	3	1	482	10
Total	1051	1659	1125	779	44	4658	100

Share of RES in total generation (%)	16.27	7.53	16.13	0.43	2.25	10.34
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.40	12.60	30.12	4.65	22.97	19.39

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.069

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: 30-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	7.2	-7.2	
3	765 kV	GAYA-VARANASI	2	0	779	0.0	11.3	-11.3	
4	765 kV	SASARAM-FAZLKHUR	1	0	454	0.0	7.8	-7.8	
5	765 kV	GAYA-BALIA	1	0	596	0.0	8.5	-8.5	
6	400 kV	PUSAULI-VARANASI	1	0	215	0.0	4.2	-4.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	172	0.0	2.9	-2.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	258	566	0.0	3.3	-3.3	
9	400 kV	PATNA-BALIA	2	0	512	0.0	8.2	-8.2	
10	400 kV	NAIBATTI-R-BALIA	2	0	538	0.0	8.2	-8.2	
11	400 kV	BIHARSHARIFE-BALIA	2	164	203	1.3	1.0	0.3	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	438	0.0	5.9	-5.9	
13	400 kV	BIHARSHARIFE-VARANASI	2	61	276	0.0	5.3	-5.3	
14	220 kV	SAHUPUR-BKARAMANASA	1	143	0	0.0	1.9	-1.9	
15	132 kV	NAGAR-UNTARI-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	47	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	1.9	75.5	-73.7
Import/Export of ER (With WR)									
1	765 kV	JHARSHUGUDA-DHARAMJIAGARH	4	686	219	0.0	7.2	7.2	
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	275	769	0.0	6.5	-6.5	
3	765 kV	JHARSHUGUDA-DURG	2	0	637	0.0	11.7	-11.7	
4	400 kV	JHARSHUGUDA-RAIGARH	4	0	857	0.0	15.9	-15.9	
5	400 kV	RANCHI-SIPA	2	0	290	0.0	4.0	-4.0	
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	160	0.0	2.4	-2.4	
7	220 kV	BUDDHIPADAR-KORBA	2	60	90	0.0	0.3	-0.3	
						ER-WR	7.2	40.8	-33.5
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZI-WAKA-B/B	2	0	549	0.0	12.6	-12.6	
2	HVDC	TALCHER-KOLAR-BIPPLE	2	0	1975	0.0	38.1	-38.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2827	0.0	58.5	-58.5	
4	400 kV	TALCHER-I/C	2	656	187	6.6	0.0	6.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	109.2	-109.2
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	109	128	0.4	0.8	-0.4	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	404	287	0.8	0.0	0.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	43	21	0.2	0.0	0.2	
						ER-NER	1.3	0.8	0.5
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	485	0	8.9	0.0	8.9	
						NER-NR	8.9	0.0	8.9
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1500	0.0	24.7	-24.7	
2	HVDC	VINDHYACHAL-B/B	-	445	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1499	0.0	29.3	-29.3	
4	765 kV	GWALIOR-AGRA	2	124	1766	0.1	19.0	-18.9	
5	765 kV	GWALIOR-PHAGI	2	86	1602	0.0	25.5	-25.4	
6	765 kV	JABALPUR-ORAI	2	115	776	0.0	14.2	-14.2	
7	765 kV	GWALIOR-ORAI	1	951	0	17.9	0.0	17.9	
8	765 kV	SATNA-ORAI	1	0	863	0.0	17.2	-17.2	
9	765 kV	BANASKANTHA-CHITORGARH	2	2576	0	41.3	0.0	41.3	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2188	0.0	30.6	-30.6	
11	400 kV	ZERDA-KANKROLI	1	477	0	7.8	0.0	7.8	
12	400 kV	ZERDA-BHINMAL	1	875	0	12.3	0.0	12.3	
13	400 kV	VINDHYACHAL-RIHAND	1	960	0	22.0	0.0	22.0	
14	400 kV	RAPS-SHILAPUR	2	516	329	3.2	1.5	1.6	
15	220 kV	BHANPURA-BANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.5	-0.5	
17	220 kV	MEHGAON-AURAIYA	1	112	0	0.0	0.0	0.0	
18	220 kV	MALANPUR-AURAIYA	1	93	0	1.2	0.0	1.2	
19	132 kV	GWALIOR-SAWAL-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	148.1	133.3	14.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI-B/B	-	0	1019	0.0	24.0	-24.0	
2	HVDC	RAHARH-PUGAUR	2	0	6039	0.0	99.9	-99.9	
3	765 kV	KOLHAPUR-RAICHUR	2	475	1974	0.2	22.1	-21.9	
4	765 kV	WARDHA-NIZAMABAD	2	0	3056	0.0	56.0	-56.0	
5	400 kV	KOLHAPUR-KUDGI	2	1035	0	14.7	0.0	14.7	
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	129	2.3	0.0	2.3	
						WR-SR	17.2	202.0	-184.9
INTERNATIONAL EXCHANGES									
						Import(+ve)/Export(-ve)			
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)			
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4180MW)	-192	38	-65	-1.75			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6170MW)	192	-137	34	0.87			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4384MW)	-155	-72	-116	-2.79			
	NER	132kV GELEPHU-SALAKATI	-19	3	-9	-0.21			
NEPAL	NER	132kV MOTANGA-RANGIA	0	0	0	0.00			
	ER	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-65	-1.55			
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-369	-112	-358	-8.58			
	ER (Isolated from Indian Grid)	BHERAMARA B/B HVDC (B'DESH) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-915 -797	-805 0	-882 -597	-21.16 -14.32			
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-130	0	-116	-2.78			