



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: 11th April 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 10.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-अप्रैल-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 10th April 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 11-Apr-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 20:00 hrs; from RLDCs)	51198	61383	48890	24570	2764	188805
Peak Shortage (MW)	425	0	0	314	58	797
Energy Met (MU)	1051	1443	1258	545	50	4348
Hydro Gen (MU)	119	40	71	40	9	279
Wind Gen (MU)	22	49	55	-	-	125
Solar Gen (MU)*	127.23	64.71	132.54	3.21	1.24	329
Energy Shortage (MU)	10.69	0.00	0.00	3.34	1.30	15.33
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52803	65837	61065	24747	2914	194537
Time Of Maximum Demand Met (From NLDC SCADA)	19:37	15:34	11:46	19:43	18:31	10:28

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	0.078	0.37	3.77	12.76	16.91	65.27	17.82

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	6378	230	137.1	42.7	-1.4	105	0.23
	Haryana	6561	650	125.6	95.3	0.3	216	4.58
	Rajasthan	11865	0	236.5	53.3	-4.8	160	0.60
	Delhi	3812	0	77.5	77.2	-2.1	128	0.00
	UP	18977	0	344.9	101.9	-0.2	338	1.47
	Uttarakhand	1967	0	37.0	26.2	-0.1	87	1.34
	HP	1702	0	31.0	18.9	0.3	72	0.38
	J&K(UT) & Ladakh(UT)	2753	0	55.1	46.1	0.1	182	2.09
	Chandigarh	192	0	3.6	3.6	0.0	37	0.00
	Railways NR ISTS	159	0	3.2	3.1	0.1	18	0.00
WR	Chhattisgarh	5264	0	120.9	59.9	-0.4	269	0.00
	Gujarat	20600	0	441.2	199.3	0.3	1499	0.00
	MP	11114	0	243.2	136.4	-2.2	495	0.00
	Maharashtra	26632	0	563.9	185.5	-0.5	1154	0.00
	Goa	739	0	14.8	14.3	0.0	63	0.00
	DNHDDPDCL	1225	0	28.5	29.0	-0.5	63	0.00
	AMNSIL	813	0	18.4	7.9	0.4	261	0.00
	BALCO	518	0	12.4	12.4	0.0	515	0.00
	Andhra Pradesh	11638	0	232.3	85.0	1.2	864	0.00
	Telangana	13022	0	259.0	132.8	0.9	678	0.00
SR	Karnataka	15263	0	293.4	126.4	-2.2	731	0.00
	Kerala	4435	0	90.2	67.4	-0.4	225	0.00
	Tamil Nadu	17824	0	373.6	229.7	0.9	591	0.00
	Puducherry	441	0	9.9	9.6	-0.5	17	0.00
	Bihar	5724	0	108.9	100.7	-2.9	278	0.04
ER	DVC	3612	0	77.6	-50.8	0.2	333	0.00
	Jharkhand	1466	91	33.3	23.4	0.9	96	3.29
	Odisha	5775	0	113.7	39.8	-1.3	395	0.00
	West Bengal	10139	0	210.4	71.2	-1.9	420	0.00
	Sikkim	91	0	1.4	1.4	0.0	35	0.00
NER	Arunachal Pradesh	151	0	2.7	2.3	0.3	61	0.00
	Assam	1776	0	31.1	24.6	-0.5	150	0.00
	Manipur	189	0	2.6	2.6	0.0	27	0.00
	Meghalaya	296	63	5.0	3.1	0.2	55	1.30
	Mizoram	123	0	1.8	1.6	-0.2	4	0.00
	Nagaland	126	0	2.0	2.1	-0.1	16	0.00
	Tripura	291	0	5.1	5.5	0.7	67	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	0.2	-13.3	-24.1	-17.9
Day Peak (MW)	196.4	-719.9	-1065.0	-790.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	84.2	-180.7	218.0	-120.8	-0.7	0.0
Actual(MU)	69.2	-169.6	223.3	-130.3	0.8	-6.6
O/D/U/D(MU)	-15.0	11.1	5.3	-9.5	1.5	-6.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3827	12266	4298	620	534	21544	45
State Sector	11685	10036	3531	1020	348	26619	55
Total	15512	22302	7829	1640	882	48163	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	704	1506	681	739	16	3646	77
Lignite	26	17	65	0	0	108	2
Hydro	119	40	71	40	9	279	6
Nuclear	30	35	70	0	0	135	3
Gas, Naptha & Diesel	7	17	6	0	30	61	1
RES (Wind, Solar, Biomass & Others)	170	115	218	4	1	507	11
Total	1055	1730	1110	783	56	4735	100

Share of RES in total generation (%)	16.08	6.65	19.61	0.48	2.21	10.72
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.23	10.97	32.27	5.61	18.10	19.46

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.066
Based on State Max Demands	1.098

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: 11-Apr-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	6.6	-6.6	
3	765 kV	GAYA-VARANASI	2	0	848	0.0	11.8	-11.8	
4	765 kV	SASARAM-FAZLKHUR	1	0	406	0.0	3.5	-3.5	
5	765 kV	GAYA-BALIA	1	0	574	0.0	7.6	-7.6	
6	400 kV	PUSAULI-VARANASI	1	0	229	0.0	4.2	-4.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	147	0.0	3.2	-3.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	249	607	0.0	4.9	-4.9	
9	400 kV	PATNA-BALIA	2	0	500	0.0	7.2	-7.2	
10	400 kV	NAUBATTI-R-BALIA	2	20	511	0.0	7.0	-7.0	
11	400 kV	BIHARSHARIFE-BALIA	2	336	225	0.7	0.0	0.7	
12	400 kV	MOTIHARI-GORAKHPUR	2	7	549	0.0	7.0	-7.0	
13	400 kV	BIHARSHARIFE-VARANASI	2	141	338	0.0	3.0	-3.0	
14	220 kV	SAHUPUR-BAKRAMANASA	1	0	197	0.0	2.7	-2.7	
15	132 kV	NAGARUNTARI-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	44	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	1.1	67.8	-66.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJIAGARH	4	1477	0	21.5	0.0	21.5	
2	765 kV	NEW RANCHI-DHARAMJIAGARH	2	277	892	0.0	3.3	-3.3	
3	765 kV	JHARSUGUDA-DURG	2	0	891	0.0	15.7	-15.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	642	0.0	10.5	-10.5	
5	400 kV	RANCHI-SIPA	2	60	280	0.0	2.5	-2.5	
6	220 kV	BUDDHIPADAR-RAIGARH	1	0	149	0.0	2.5	-2.5	
7	220 kV	BUDDHIPADAR-KORBA	2	69	24	0.7	0.0	0.7	
						ER-WR	22.2	34.5	-12.4
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	653	0.0	15.1	-15.1	
2	HVDC	TALCHER-KOLAR BIPPLE	2	0	1643	0.0	39.6	-39.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3154	0.0	58.7	-58.7	
4	400 kV	TALCHER-I/C	2	276	0	5.3	0.0	5.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	113.4	-113.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	184	100	1.8	0.1	1.7	
2	400 kV	ALIPURDUAR-BONGAIGAOON	1	576	217	7.4	0.0	7.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	101	37	1.3	0.0	1.3	
						ER-NER	10.5	0.1	10.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	489	0	11.3	0.0	11.3	
						NER-NR	11.3	0.0	11.3
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURKSHETRA	2	0	997	0.0	20.0	-20.0	
2	HVDC	VINDHYACHAL-B/B	-	272	0	3.9	0.0	3.9	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	501	0.0	5.7	-5.7	
4	765 kV	GWALIOR-AGRA	2	148	1939	0.0	20.6	-20.6	
5	765 kV	GWALIOR-PHAGI	2	177	1794	0.1	27.0	-26.9	
6	765 kV	JABALPUR-ORAI	2	156	929	0.0	19.5	-19.5	
7	765 kV	GWALIOR-ORAI	1	835	0	15.1	0.0	15.1	
8	765 kV	SATNA-ORAI	1	0	1020	0.0	18.9	-18.9	
9	765 kV	BANASKANTHA-CHITORGARH	2	2492	0	37.7	0.0	37.7	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1955	0.0	24.4	-24.4	
11	400 kV	ZERDA-KANKROLI	1	451	0	7.0	0.0	7.0	
12	400 kV	ZERDA-BHINMAL	1	767	0	11.2	0.0	11.2	
13	400 kV	VINDHYACHAL-RIHAND	1	852	0	21.9	0.0	21.9	
14	400 kV	RAPS-SHILAPUR	2	571	320	3.7	2.4	1.4	
15	220 kV	BHANPURA-BANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0	
17	220 kV	MEHGAON-AURAIYA	1	109	0	0.9	0.0	0.9	
18	220 kV	MALANPUR-AURAIYA	1	92	1	1.2	0.0	1.2	
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	108.3	132.8	-24.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI-B/B	-	0	1016	0.0	14.4	-14.4	
2	HVDC	BAHARH-PUGAUR	2	0	6027	0.0	112.5	-112.5	
3	765 kV	KOLHAPUR-KAICHULP	2	562	1911	1.5	10.1	-8.6	
4	765 kV	WARDHA-NIZAMABAD	2	0	3067	0.0	45.9	-45.9	
5	400 kV	KOLHAPUR-KUDGI	2	1206	0	21.5	0.0	21.5	
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	135	2.7	0.0	2.7	
						WR-SR	25.7	182.9	-157.3
INTERNATIONAL EXCHANGES									
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)		-168	112	-19	-0.57		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6170MW)		199	-61	109	2.55		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4584MW)		-142	-56	-86	-2.06		
	NER	132kV GELEPHU-SALAKATI		23	-2	11	0.26		
NEPAL	NER	132kV MOTANGA-RANGIA		0	0	0	0.00		
	ER	132kV MAHENDRANAGAR-TANAKPUR(NHPC)		-76	0	-66	-1.59		
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2		-507	-143	-388	-9.32		
	ER (Isolated from Indian Grid)	BHERAMARA B/B HVDC (B'DESH) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C		-937 -790	-832 -743	-900 -747	-21.61 -17.93		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2		-128	0	-105	-2.53		