National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 14th April 2023

To,

1. कार्यकारी निदेशक, पू.क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. 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
3. 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
4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
   Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. 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 13.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-अप्रैल-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 13th April 2023, is available at the NLDC website.

धन्यवाद,

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day **Date of Reporting:** **14-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)	54406	61595	50505	25999	2931	195436
Peak Shortage (MW)	1808	0	0	380	61	2249
Energy Met (MU)	1136	1518	1313	571	55	4592
Hydro Gen (MU)	134	45	91	41	9	320
Wind Gen (MU)	9	83	28	-	-	120
Solar Gen (MU)*	139.53	57.19	126.43	5.37	1.06	330
Energy Shortage (MU)	8.59	0.00	0.00	3.69	1.38	13.66
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55873	68285	62929	26431	3052	203546
Time Of Maximum Demand Met (From NLDC SCADA)	19:55	15:28	15:30	20:01	18:31	10:49

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	0.061	0.03	1.74	10.92	12.70	71.77	15.53

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	7020	0	147.7	40.1	-1.1	112	0.47
	Haryana	7125	310	142.4	87.3	1.0	374	0.00
	Rajasthan	12502	0	248.5	71.3	-0.6	279	5.99
	Delhi	4276	0	88.3	87.4	-1.4	87	0.00
	UP	21071	59	374.3	119.7	-0.9	259	0.75
	Uttarakhand	2048	0	40.7	26.4	0.4	130	0.99
	HP	1681	0	31.9	18.6	-0.1	66	0.00
	J&K(UT) & Ladakh(UT)	2687	125	55.0	42.4	1.0	541	0.39
	Chandigarh	213	0	4.2	4.2	0.0	19	0.00
	Railways_NR ISTS	162	0	3.1	3.1	0.0	23	0.00
WR	Chhattisgarh	5494	0	126.5	68.5	0.1	384	0.00
	Gujarat	20748	0	451.2	203.7	-0.6	1101	0.00
	MP	11824	0	262.5	150.3	-2.7	902	0.00
	Maharashtra	27902	0	601.8	193.3	-0.8	803	0.00
	Goa	746	0	15.9	15.3	0.1	82	0.00
	DNHDDPDCL	1270	0	29.5	29.5	0.0	113	0.00
	AMNSIL	829	0	18.2	4.6	0.2	322	0.00
	BALCO	518	0	12.4	12.4	0.0	515	0.00
SR	Andhra Pradesh	12231	0	244.1	99.4	1.3	844	0.00
	Telangana	13159	0	260.7	133.7	0.8	645	0.00
	Karnataka	15450	0	304.8	124.3	1.8	866	0.00
	Kerala	4903	0	100.6	73.5	0.1	268	0.00
	Tamil Nadu	18486	0	392.4	246.9	0.7	844	0.00
	Puducherry	446	0	10.2	9.9	-0.5	28	0.00
ER	Bihar	6455	0	117.9	106.0	-2.1	209	0.24
	DVC	3507	0	77.2	-50.7	0.2	295	0.00
	Jharkhand	1567	0	33.3	25.0	-0.7	247	3.45
	Odisha	5876	0	120.8	41.2	-1.1	309	0.00
	West Bengal	10542	0	220.0	76.9	-2.1	124	0.00
	Sikkim	95	0	1.6	1.4	0.1	61	0.00
NER	Arunachal Pradesh	166	0	2.6	2.3	0.2	84	0.00
	Assam	1873	0	34.2	26.4	0.9	196	0.10
	Manipur	196	0	2.8	2.6	0.1	31	0.00
	Meghalaya	316	51	5.4	3.3	0.4	75	1.28
	Mizoram	119	0	2.0	1.6	-0.1	6	0.00
	Nagaland	134	0	2.2	2.2	0.0	32	0.00
	Tripura	307	0	5.6	4.9	0.3	53	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-1.3	-10.0	-24.9	-18.1
Day Peak (MW)	-301.0	-736.2	-1081.0	-823.3

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	86.4	-193.7	225.8	-118.8	0.4	0.0
Actual(MU)	76.5	-184.8	228.9	-129.9	3.3	-6.0
O/D/U/D(MU)	-9.8	8.9	3.1	-11.0	2.9	-6.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3047	11530	2248	620	459	17904	44
State Sector	9090	8529	4251	1120	229	23218	56
Total	12137	20059	6499	1740	688	41122	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	774	1565	750	744	17	3849	77
Lignite	22	16	64	0	0	101	2
Hydro	134	45	91	41	9	320	6
Nuclear	30	35	69	0	0	135	3
Gas, Naptha & Diesel	10	20	6	0	31	68	1
RES (Wind, Solar, Biomass & Others)	169	142	185	6	1	503	10
Total	1139	1823	1165	791	58	4976	100

Share of RES in total generation (%)	14.83	7.79	15.88	0.75	1.81	10.11
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.27	12.17	29.63	5.93	17.18	19.24

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.064
Based on State Max Demands	1.100

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: 14-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	7.7	-7.7
3	765 kV	GAYA-VARANASI	2	13	792	0.0	8.3	-8.3
4	765 kV	SASARAM-FATEHPUR	1	0	443	0.0	6.5	-6.5
5	765 kV	GAYA-BALIA	1	0	554	0.0	8.4	-8.4
6	400 kV	PUSAULI-VARANASI	1	0	241	0.0	4.6	-4.6
7	400 kV	PUSAULI - ALLAHABAD	1	0	152	0.0	2.7	-2.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	299	564	0.0	2.9	-2.9
9	400 kV	PATNA-BALIA	2	0	558	0.0	7.2	-7.2
10	400 kV	NAUBATPUR-BALIA	2	0	592	0.0	8.4	-8.4
11	400 kV	BIHARSHARIFF-BALIA	2	295	295	1.7	1.4	0.3
12	400 kV	MOTIHARI-GORAKHPUR	2	150	477	0.0	3.9	-3.9
13	400 kV	BIHARSHARIFF-VARANASI	2	85	309	0.0	2.1	-2.1
14	220 kV	SAHUPURI-KARAMNASA	1	0	193	0.0	3.0	-3.0
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	2	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	2.1	67.0	-64.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1397	0	21.5	0.0	21.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	713	563	0.2	0.0	0.2
3	765 kV	JHARSUGUDA-DURG	2	0	1031	0.0	16.9	-16.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	646	0.0	11.1	-11.1
5	400 kV	RANCHI-SIPAT	2	67	325	0.0	2.7	-2.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	169	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	51	83	0.2	0.3	-0.1
					ER-WR	21.9	33.3	-11.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	654	0.0	15.1	-15.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1649	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2956	0.0	58.5	-58.5
4	400 kV	TALCHER-I/C	2	272	0	5.2	0.0	5.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	113.1	-113.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	147	69	1.3	0.1	1.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	498	88	5.1	0.0	5.1
3	220 kV	ALIPURDUAR-SALAKATI	2	88	14	0.7	0.0	0.7
					ER-NER	7.1	0.1	7.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	483	0	10.7	0.0	10.7
					NER-NR	10.7	0.0	10.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1499	0.0	32.8	-32.8
2	HVDC	VINDHYACHAL B/B	-	274	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	0	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	293	1754	0.0	16.8	-16.8
5	765 kV	GWALIOR-PHAGI	2	382	1777	0.0	24.3	-24.3
6	765 kV	JABALPUR-ORAI	2	217	717	0.0	14.1	-14.1
7	765 kV	GWALIOR-ORAI	1	985	0	16.8	0.0	16.8
8	765 kV	SATNA-ORAI	1	0	851	0.0	16.6	-16.6
9	765 kV	BANASKANTHA-CHITORGARH	2	2763	0	38.9	0.0	38.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2436	0.0	33.3	-33.3
11	400 kV	ZERDA-KANKROLI	1	489	0	6.8	0.0	6.8
12	400 kV	ZERDA -BHINMAL	1	840	0	9.2	0.0	9.2
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	658	355	1.9	0.0	1.9
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
17	220 kV	MEHGAON-AURAIYA	1	98	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	82	0	1.0	0.0	1.0
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	104.8	138.0	-33.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	18.0	-18.0
2	HVDC	RAIGARH-PUGALUR	2	0	6620	0.0	107.9	-107.9
3	765 kV	SOLAPUR-RAICHUR	2	285	1424	0.0	12.4	-12.4
4	765 kV	WARDHA-NIZAMABAD	2	0	3028	0.0	51.0	-51.0
5	400 kV	KOLHAPUR-KUDGI	2	1336	0	23.7	0.0	23.7
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	127	2.6	0.0	2.6
					WR-SR	26.3	189.3	-163.0

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 MANGDECHU HEP 4*180MW)	-137	78	-5	-0.11
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	130	-115	53	1.28
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-144	-42	-96	-2.32
	NER	132kV GELEPHU-SALAKATI	-12	-5	-6	-0.14
	NER	132kV MOTANGA-RANGIA	0	0	0	0.00
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-66	-1.58
	ER	NEPAL IMPORT (FROM BIHAR)	-160	-69	-110	-2.64
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-498	0	-242	-5.81
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-939	-869	-911	-21.87
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-823	-735	-753	-18.08
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-142	0	-125	-3.00