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: 12th 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 11.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th 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:** **12-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)	53596	61721	49832	25584	2856	193589
Peak Shortage (MW)	227	0	0	201	64	492
Energy Met (MU)	1091	1459	1291	559	53	4452
Hydro Gen (MU)	125	65	80	39	8	316
Wind Gen (MU)	17	57	41	-	-	115
Solar Gen (MU)*	100.13	64.47	133.58	2.90	1.20	302
Energy Shortage (MU)	7.94	0.00	0.00	3.04	1.46	12.44
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54945	67327	61635	25931	3005	197928
Time Of Maximum Demand Met (From NLDC SCADA)	19:33	15:46	15:48	18:59	18:37	10:26

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	0.069	0.35	1.92	12.71	14.98	68.94	16.09

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	6849	0	142.1	41.5	-2.0	153	0.00
	Haryana	7301	13	136.0	99.5	0.2	372	3.00
	Rajasthan	11759	0	245.4	61.6	-3.8	187	1.63
	Delhi	3908	0	80.1	80.1	-1.5	131	0.00
	UP	20586	0	355.1	111.4	-1.5	321	0.29
	Uttarakhand	2005	0	38.8	24.9	0.8	156	1.46
	HP	1712	0	31.5	19.7	0.0	68	0.00
	J&K(UT) & Ladakh(UT)	2727	62	55.3	46.1	-0.1	374	1.56
	Chandigarh	192	0	3.6	3.7	-0.2	9	0.00
	Railways_NR ISTS	153	0	3.2	3.1	0.1	28	0.00
WR	Chhattisgarh	5376	0	124.7	62.3	-0.4	225	0.00
	Gujarat	20246	0	448.0	204.1	-2.5	1493	0.00
	MP	11585	0	252.6	143.9	-1.7	467	0.00
	Maharashtra	27433	0	557.9	187.2	0.6	2104	0.00
	Goa	744	0	15.8	15.2	0.1	69	0.00
	DNHDDPDCL	1263	0	29.3	29.7	-0.4	52	0.00
	AMNSIL	864	0	18.1	6.3	0.5	331	0.00
	BALCO	520	0	12.4	12.3	0.1	14	0.00
SR	Andhra Pradesh	11823	0	236.0	82.1	0.3	698	0.00
	Telangana	13180	0	262.5	135.5	1.9	558	0.00
	Karnataka	15020	0	297.7	122.3	-2.7	750	0.00
	Kerala	4747	0	95.7	69.3	0.0	214	0.00
	Tamil Nadu	18147	0	389.0	242.7	-0.5	395	0.00
	Puducherry	441	0	9.9	9.8	-0.6	15	0.00
ER	Bihar	5952	0	113.4	101.2	-1.3	175	0.25
	DVC	3504	0	77.5	-51.0	-0.1	312	0.00
	Jharkhand	1464	0	33.9	23.2	1.4	120	2.79
	Odisha	5779	0	117.7	38.1	-1.7	414	0.00
	West Bengal	10153	0	215.0	78.7	-2.8	213	0.00
	Sikkim	102	0	1.5	1.3	0.2	57	0.00
NER	Arunachal Pradesh	155	0	2.5	2.2	0.2	47	0.00
	Assam	1846	0	33.1	25.5	0.6	133	0.00
	Manipur	192	0	2.7	2.5	0.1	47	0.00
	Meghalaya	319	36	5.1	3.1	0.4	57	1.46
	Mizoram	119	0	1.9	1.6	-0.2	11	0.00
	Nagaland	125	0	2.1	2.2	0.0	28	0.00
	Tripura	297	0	5.4	5.7	0.9	113	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	0.5	-9.3	-24.8	-17.9
Day Peak (MW)	128.3	-683.6	-1079.0	-744.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	97.2	-193.8	226.3	-130.1	0.4	0.0
Actual(MU)	97.4	-189.0	222.2	-139.4	3.2	-5.6
O/D/U/D(MU)	0.1	4.8	-4.1	-9.3	2.9	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3317	10761	3498	620	459	18654	46
State Sector	6905	9961	3749	1080	348	22042	54
Total	10222	20722	7247	1700	807	40696	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	752	1509	717	760	16	3755	77
Lignite	25	17	64	0	0	107	2
Hydro	125	65	80	39	8	316	7
Nuclear	30	35	70	0	0	135	3
Gas, Naptha & Diesel	9	18	6	0	30	64	1
RES (Wind, Solar, Biomass & Others)	136	123	207	3	1	470	10
Total	1076	1767	1144	802	56	4846	100

Share of RES in total generation (%)	12.63	6.94	18.06	0.43	2.14	9.69
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.00	12.60	31.10	5.24	17.16	19.00

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.075
Based on State Max Demands	1.104

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: 12-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	6.8	-6.8
3	765 kV	GAYA-VARANASI	2	0	1001	0.0	14.5	-14.5
4	765 kV	SASARAM-FATEHPUR	1	0	534	0.0	8.6	-8.6
5	765 kV	GAYA-BALIA	1	0	498	0.0	7.7	-7.7
6	400 kV	PUSAULI-VARANASI	1	0	201	0.0	3.9	-3.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	166	0.0	2.6	-2.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	247	594	0.0	4.6	-4.6
9	400 kV	PATNA-BALIA	2	0	496	0.0	6.8	-6.8
10	400 kV	NAUBATPUR-BALIA	2	5	523	0.0	7.2	-7.2
11	400 kV	BIHARSHARIFF-BALIA	2	320	215	0.9	0.0	0.9
12	400 kV	MOTIHARI-GORAKHPUR	2	15	510	0.0	7.1	-7.1
13	400 kV	BIHARSHARIFF-VARANASI	2	80	355	0.0	4.0	-4.0
14	220 kV	SAHUPURI-KARAMNASA	1	0	180	0.0	2.7	-2.7
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	26	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	1.3	76.4	-75.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1413	0	21.0	0.0	21.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	517	490	0.4	0.0	0.4
3	765 kV	JHARSUGUDA-DURG	2	0	1004	0.0	16.9	-16.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	700	0.0	11.3	-11.3
5	400 kV	RANCHI-SIPAT	2	64	253	0.0	1.5	-1.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	176	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	90	61	0.5	0.0	0.5
					ER-WR	21.9	32.3	-10.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	654	0.0	15.6	-15.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1642	0.0	38.1	-38.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	3103	0.0	60.1	-60.1
4	400 kV	TALCHER-I/C	2	405	0	6.5	0.0	6.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	113.8	-113.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	145	52	1.4	0.1	1.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	483	17	6.0	0.0	6.0
3	220 kV	ALIPURDUAR-SALAKATI	2	85	6	1.0	0.0	1.0
					ER-NER	8.4	0.1	8.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	485	0	11.5	0.0	11.5
					NER-NR	11.5	0.0	11.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	996	0.0	23.8	-23.8
2	HVDC	VINDHYACHAL B/B	-	273	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	251	0.0	1.2	-1.2
4	765 kV	GWALIOR-AGRA	2	66	1622	0.0	20.8	-20.8
5	765 kV	GWALIOR-PHAGI	2	0	1916	0.0	31.1	-31.1
6	765 kV	JABALPUR-ORAI	2	0	885	0.0	23.4	-23.4
7	765 kV	GWALIOR-ORAI	1	836	0	16.2	0.0	16.2
8	765 kV	SATNA-ORAI	1	0	992	0.0	19.7	-19.7
9	765 kV	BANASKANTHA-CHITORGARH	2	2270	0	37.7	0.0	37.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	1740	0.0	24.0	-24.0
11	400 kV	ZERDA-KANKROLI	1	391	0	6.6	0.0	6.6
12	400 kV	ZERDA -BHINMAL	1	651	0	9.1	0.0	9.1
13	400 kV	VINDHYACHAL -RIHAND	1	955	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	365	281	2.1	2.4	-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	0.0	0.0
17	220 kV	MEHGAON-AURAIYA	1	94	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	77	0	0.9	0.0	0.9
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	102.4	146.3	-43.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	16.0	-16.0
2	HVDC	RAIGARH-PUGALUR	2	0	6015	0.0	105.4	-105.4
3	765 kV	SOLAPUR-RAICHUR	2	865	1543	2.6	13.5	-10.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2904	0.0	48.1	-48.1
5	400 kV	KOLHAPUR-KUDGI	2	1385	0	22.1	0.0	22.1
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	132	2.6	0.0	2.6
					WR-SR	27.3	183.0	-155.6

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)	-159	32	-34	-0.81
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	192	-12	135	3.25
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-111	-61	-89	-2.15
	NER	132kV GELEPHU-SALAKATI	17	2	9	0.21
	NER	132kV MOTANGA-RANGIA	0	0	0	0.00
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-63	-1.52
	ER	NEPAL IMPORT (FROM BIHAR)	-138	-78	-104	-2.50
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-468	-201	-222	-5.32
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-941	-841	-911	-21.87
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-744	-741	-744	-17.85
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-138	0	-122	-2.92