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: 4th 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 03.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 03rd 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:** **04-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)	45698	57981	48215	22045	2424	176363
Peak Shortage (MW)	0	0	0	767	69	836
Energy Met (MU)	944	1394	1253	465	41	4097
Hydro Gen (MU)	121	35	74	35	11	276
Wind Gen (MU)	49	108	32	-	-	189
Solar Gen (MU)*	133.83	67.34	127.44	2.03	0.63	331
Energy Shortage (MU)	1.79	0.00	0.00	2.76	1.42	5.97
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48037	63829	61219	22752	2570	187729
Time Of Maximum Demand Met (From NLDC SCADA)	19:43	11:29	11:51	18:46	18:29	11:18

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	0.067	0.21	3.28	10.11	13.60	72.69	13.71

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	5823	0	113.9	41.1	-1.0	161	0.12
	Haryana	5683	0	114.2	80.2	-0.6	182	0.00
	Rajasthan	10868	0	212.3	35.3	-6.1	164	0.00
	Delhi	3588	0	70.1	70.1	-1.5	125	0.00
	UP	17078	0	303.6	93.4	-0.4	439	0.15
	Uttarakhand	1905	0	36.8	22.7	0.6	179	0.29
	HP	1657	28	29.5	18.5	-1.2	20	1.23
	J&K(UT) & Ladakh(UT)	2867	0	56.8	47.7	-0.7	99	0.00
	Chandigarh	180	0	3.3	3.6	-0.3	23	0.00
	Railways_NR ISTS	160	0	3.3	3.2	0.1	19	0.00
WR	Chhattisgarh	5081	0	116.4	61.2	0.2	191	0.00
	Gujarat	18545	0	403.6	183.5	-1.1	787	0.00
	MP	11070	0	234.7	133.4	-2.2	674	0.00
	Maharashtra	27010	0	567.8	186.6	-1.0	781	0.00
	Goa	653	0	13.9	13.2	0.2	41	0.00
	DNHDDPDCL	1196	0	27.8	27.8	0.0	93	0.00
	AMNSIL	798	0	17.6	5.4	0.1	261	0.00
	BALCO	514	0	12.3	12.2	0.1	510	0.00
SR	Andhra Pradesh	10838	0	219.2	77.5	-0.1	548	0.00
	Telangana	14499	0	285.5	170.0	-0.2	720	0.00
	Karnataka	15458	0	291.8	133.5	0.9	979	0.00
	Kerala	4296	0	89.1	73.3	-0.3	140	0.00
	Tamil Nadu	17137	0	357.4	216.0	-1.8	441	0.00
	Puducherry	436	0	9.8	9.5	-0.4	20	0.00
ER	Bihar	5207	291	95.3	84.2	-0.5	406	1.51
	DVC	3726	0	76.0	-47.5	-0.3	240	0.00
	Jharkhand	1338	77	29.5	21.5	-0.5	155	1.25
	Odisha	5695	0	106.5	46.3	-1.7	346	0.00
	West Bengal	7712	0	156.0	25.2	-2.8	183	0.00
	Sikkim	105	0	1.5	1.5	-0.1	60	0.00
NER	Arunachal Pradesh	164	0	2.6	2.6	-0.2	37	0.00
	Assam	1490	0	23.8	18.1	-0.1	84	0.00
	Manipur	192	0	2.7	2.8	-0.1	20	0.00
	Meghalaya	304	53	4.8	3.4	0.0	35	1.42
	Mizoram	122	0	1.7	1.7	-0.2	12	0.00
	Nagaland	133	0	2.1	2.1	-0.1	21	0.00
	Tripura	253	0	3.6	3.2	0.1	25	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-0.1	-9.8	-24.5	-14.4
Day Peak (MW)	-147.0	-474.0	-1063.0	-696.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	72.2	-166.6	256.4	-153.5	-8.5	0.0
Actual(MU)	44.6	-153.3	270.6	-161.6	-7.7	-7.5
O/D/U/D(MU)	-27.6	13.3	14.2	-8.1	0.7	-7.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6037	13521	3028	1175	534	24294	42
State Sector	13455	12626	5011	2110	333	33534	58
Total	19492	26146	8039	3285	867	57829	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	566	1379	654	680	13	3293	74
Lignite	25	21	72	0	0	118	3
Hydro	121	35	74	35	11	276	6
Nuclear	30	34	70	0	0	134	3
Gas, Naptha & Diesel	7	15	6	0	31	59	1
RES (Wind, Solar, Biomass & Others)	207	177	188	3	1	575	13
Total	957	1660	1064	718	56	4455	100

Share of RES in total generation (%)	21.64	10.64	17.68	0.37	1.13	12.91
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.41	14.79	31.22	5.19	20.93	22.10

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.057
Based on State Max Demands	1.086

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: 04-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	-	1	297	0.0	6.6	-6.6
3	765 kV	GAYA-VARANASI	2	124	956	0.0	12.1	-12.1
4	765 kV	SASARAM-FATEHPUR	1	9	472	0.0	7.0	-7.0
5	765 kV	GAYA-BALIA	1	0	508	0.0	7.6	-7.6
6	400 kV	PUSAULI-VARANASI	1	0	212	0.0	3.5	-3.5
7	400 kV	PUSAULI -ALLAHABAD	1	21	197	0.0	3.0	-3.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	249	652	0.0	4.9	-4.9
9	400 kV	PATNA-BALIA	2	0	519	0.0	7.6	-7.6
10	400 kV	NAUBATPUR-BALIA	2	20	551	0.0	7.6	-7.6
11	400 kV	BIHARSHARIFF-BALIA	2	260	254	0.0	0.3	-0.3
12	400 kV	MOTIHARI-GORAKHPUR	2	34	477	0.0	6.5	-6.5
13	400 kV	BIHARSHARIFF-VARANASI	2	107	377	0.0	3.9	-3.9
14	220 kV	SAHUPURI-KARAMNASA	1	0	160	0.0	2.4	-2.4
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	40	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	72.9	-72.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1161	0	14.1	0.0	14.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	82	1247	0.0	12.8	-12.8
3	765 kV	JHARSUGUDA-DURG	2	0	999	0.0	17.7	-17.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	569	0.0	9.0	-9.0
5	400 kV	RANCHI-SIPAT	2	16	344	0.0	3.7	-3.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	140	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	80	35	0.5	0.0	0.5
					ER-WR	14.6	45.3	-30.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	549	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2455	0.0	47.6	-47.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3081	0.0	57.1	-57.1
4	400 kV	TALCHER-I/C	2	399	719	0.0	3.2	-3.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	117.4	-117.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	269	85	2.1	0.2	1.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	457	8	4.8	0.0	4.8
3	220 kV	ALIPURDUAR-SALAKATI	2	91	0	1.0	0.0	1.0
					ER-NER	7.8	0.2	7.7
Import/Export of <null> (With <null>)								
No Records Found								
					NER-NR	0.0	0.0	0.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	995	0.0	12.8	-12.8
2	HVDC	VINDHYACHAL B/B	-	445	0	7.9	0.0	7.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1499	22.1	0.0	22.1
4	765 kV	GWALIOR-AGRA	2	123	2024	0.0	22.7	-22.7
5	765 kV	GWALIOR-PHAGI	2	497	1584	1.4	18.3	-16.9
6	765 kV	JABALPUR-ORAI	2	126	703	0.0	9.0	-9.0
7	765 kV	GWALIOR-ORAI	1	861	0	14.9	0.0	14.9
8	765 kV	SATNA-ORAI	1	0	879	0.0	16.3	-16.3
9	765 kV	BANASKANTHA-CHITORGARH	2	2052	0	26.0	0.0	26.0
10	765 kV	VINDHYACHAL-VARANASI	2	174	1838	0.0	22.9	-22.9
11	400 kV	ZERDA-KANKROLI	1	396	0	6.2	0.0	6.2
12	400 kV	ZERDA -BHINMAL	1	823	0	11.9	0.0	11.9
13	400 kV	VINDHYACHAL -RIHAND	1	963	0	22.3	0.0	22.3
14	400 kV	RAPP-SHUJALPUR	2	666	304	5.9	1.0	4.9
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	113	0	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	96	0	1.1	0.0	1.1
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	120.5	102.8	17.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	20.0	-20.0
2	HVDC	RAIGARH-PUGALUR	2	0	6032	0.0	127.8	-127.8
3	765 kV	SOLAPUR-RAICHUR	2	364	2040	0.5	16.0	-15.6
4	765 kV	WARDHA-NIZAMABAD	2	0	3472	0.0	58.9	-58.9
5	400 kV	KOLHAPUR-KUDGI	2	1170	0	18.8	0.0	18.8
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	119	2.4	0.0	2.4
					WR-SR	21.6	222.7	-201.1

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)	-147	46	-35	-0.83
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	241	-38	132	3.18
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-162	-68	-113	-2.72
	NER	132kV GELEPHU-SALAKATI	17	4	10	0.23
	NER	132kV MOTANGA-RANGIA	0	0	0	0.00
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-64	0	-53	-1.27
	ER	NEPAL IMPORT (FROM BIHAR)	-92	-51	-79	-1.89
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-318	-215	-275	-6.61
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-910	-798	-886	-21.27
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-697	-540	-600	-14.41
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-153	0	-133	-3.18