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: 13th 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 12.04.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th April 2023, is available at the NLDC website.

धन्यवाद,

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

ग्रिड-इंडिया GRID-INDIA

Report for previous day **Date of Reporting:** **13-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)	54966	62642	50473	25938	2843	196862
Peak Shortage (MW)	75	0	0	665	74	814
Energy Met (MU)	1134	1502	1305	561	54	4555
Hydro Gen (MU)	124	49	83	35	9	300
Wind Gen (MU)	16	69	37	-	-	122
Solar Gen (MU)*	140.77	66.85	131.74	2.87	1.12	343
Energy Shortage (MU)	2.37	0.00	0.00	3.25	1.66	7.28
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56319	66563	62037	26097	3028	200574
Time Of Maximum Demand Met (From NLDC SCADA)	19:40	15:52	11:59	19:59	18:33	19:35

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	0.055	0.00	0.35	7.46	7.81	63.05	29.14

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	7174	0	147.6	42.8	-1.9	134	0.00
	Haryana	7406	0	141.5	80.2	-1.4	204	1.11
	Rajasthan	12288	0	249.9	59.8	-1.9	204	0.00
	Delhi	4126	0	85.4	84.6	-1.7	102	0.00
	UP	21161	0	375.2	118.5	-1.3	487	0.00
	Uttarakhand	2016	0	39.6	26.1	0.2	140	0.99
	HP	1720	0	32.2	19.5	0.1	106	0.00
	J&K(UT) & Ladakh(UT)	2831	0	55.1	44.7	0.1	403	0.27
	Chandigarh	211	0	4.0	4.0	0.0	29	0.00
	Railways_NR ISTS	166	0	3.3	3.1	0.2	28	0.00
WR	Chhattisgarh	5388	0	125.4	65.7	-0.1	263	0.00
	Gujarat	19953	0	442.7	201.7	-2.8	1017	0.00
	MP	11665	0	258.4	150.3	-2.7	414	0.00
	Maharashtra	27451	0	598.3	206.9	1.6	1034	0.00
	Goa	744	0	15.5	15.6	-0.6	64	0.00
	DNHDDPDCL	1269	0	29.5	29.7	-0.2	39	0.00
	AMNSIL	895	0	19.8	6.9	0.0	281	0.00
	BALCO	519	0	12.4	12.3	0.1	12	0.00
SR	Andhra Pradesh	11928	0	240.9	89.2	0.5	968	0.00
	Telangana	13372	0	262.9	138.2	0.7	604	0.00
	Karnataka	15230	0	301.2	122.2	0.6	772	0.00
	Kerala	4867	0	98.7	71.5	0.3	209	0.00
	Tamil Nadu	18667	0	390.9	246.4	0.4	586	0.00
	Puducherry	442	0	10.0	9.9	-0.6	21	0.00
ER	Bihar	6134	334	115.9	103.1	-1.3	271	0.45
	DVC	3522	0	75.8	-51.1	0.2	347	0.00
	Jharkhand	1502	61	34.4	24.4	0.7	123	2.80
	Odisha	5914	0	117.7	39.8	-1.4	467	0.00
	West Bengal	10094	0	215.3	79.9	-3.0	395	0.00
	Sikkim	101	0	1.6	1.4	0.2	66	0.00
NER	Arunachal Pradesh	156	0	2.6	2.2	0.3	54	0.00
	Assam	1858	0	33.8	26.4	0.7	256	0.18
	Manipur	197	0	2.7	2.6	0.2	68	0.00
	Meghalaya	326	53	5.3	3.2	0.5	79	1.48
	Mizoram	120	0	1.9	1.6	-0.2	17	0.00
	Nagaland	141	0	2.1	2.2	0.0	50	0.00
	Tripura	311	0	5.5	5.2	0.0	76	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	0.1	-12.8	-24.9	-17.9
Day Peak (MW)	-164.5	-673.0	-1088.0	-789.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	71.0	-180.6	228.9	-120.2	1.0	0.0
Actual(MU)	59.9	-174.0	233.3	-127.2	3.7	-4.3
O/D/U/D(MU)	-11.0	6.7	4.4	-7.0	2.7	-4.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3257	9656	2848	620	459	16840	41
State Sector	8160	10046	4832	970	252	24259	59
Total	11417	19702	7680	1590	710	41098	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	785	1539	727	756	16	3823	77
Lignite	24	16	64	0	0	104	2
Hydro	124	49	83	35	9	300	6
Nuclear	30	35	69	0	0	135	3
Gas, Naptha & Diesel	11	19	6	0	32	68	1
RES (Wind, Solar, Biomass & Others)	177	138	201	3	1	520	11
Total	1151	1796	1151	794	58	4950	100

Share of RES in total generation (%)	15.36	7.67	17.44	0.43	1.94	10.50
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.78	12.38	30.63	4.83	17.00	19.28

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.067
Based on State Max Demands	1.106

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: 13-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	-	2	297	0.0	6.5	-6.5
3	765 kV	GAYA-VARANASI	2	102	861	0.0	9.9	-9.9
4	765 kV	SASARAM-FATEHPUR	1	0	461	0.0	7.4	-7.4
5	765 kV	GAYA-BALIA	1	0	546	0.0	6.6	-6.6
6	400 kV	PUSAULI-VARANASI	1	0	235	0.0	4.0	-4.0
7	400 kV	PUSAULI - ALLAHABAD	1	32	150	0.0	2.3	-2.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	356	560	0.0	2.6	-2.6
9	400 kV	PATNA-BALIA	2	0	470	0.0	5.7	-5.7
10	400 kV	NAUBATPUR-BALIA	2	31	495	0.0	6.3	-6.3
11	400 kV	BIHARSHARIFF-BALIA	2	395	227	1.6	0.0	1.6
12	400 kV	MOTIHARI-GORAKHPUR	2	107	433	0.0	5.3	-5.3
13	400 kV	BIHARSHARIFF-VARANASI	2	127	295	0.0	2.6	-2.6
14	220 kV	SAHUPURI-KARAMNASA	1	0	198	0.0	2.8	-2.8
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	52	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	2.0	61.8	-59.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1341	0	22.6	0.0	22.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	707	901	0.3	0.0	0.3
3	765 kV	JHARSUGUDA-DURG	2	0	942	0.0	15.6	-15.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	695	0.0	10.9	-10.9
5	400 kV	RANCHI-SIPAT	2	106	291	0.0	1.9	-1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	173	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	61	59	0.1	0.0	0.1
					ER-WR	22.9	30.9	-8.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	653	0.0	15.1	-15.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1987	0.0	44.8	-44.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2975	0.0	58.4	-58.4
4	400 kV	TALCHER-I/C	2	414	264	0.0	0.8	-0.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	118.2	-118.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	138	63	1.4	0.2	1.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	477	76	5.9	0.0	5.9
3	220 kV	ALIPURDUAR-SALAKATI	2	83	15	0.9	0.0	0.9
					ER-NER	8.2	0.2	8.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	484	0	11.6	0.0	11.6
					NER-NR	11.6	0.0	11.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1498	0.0	26.0	-26.0
2	HVDC	VINDHYACHAL B/B	-	274	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	250	0.0	2.0	-2.0
4	765 kV	GWALIOR-AGRA	2	449	1744	0.4	17.0	-16.6
5	765 kV	GWALIOR-PHAGI	2	549	1757	1.3	24.4	-23.1
6	765 kV	JABALPUR-ORAI	2	186	770	0.0	16.0	-16.0
7	765 kV	GWALIOR-ORAI	1	917	0	15.4	0.0	15.4
8	765 kV	SATNA-ORAI	1	0	922	0.0	17.6	-17.6
9	765 kV	BANASKANTHA-CHITORGARH	2	2526	0	40.6	0.0	40.6
10	765 kV	VINDHYACHAL-VARANASI	2	44	2306	0.0	26.3	-26.3
11	400 kV	ZERDA-KANKROLI	1	445	0	7.4	0.0	7.4
12	400 kV	ZERDA -BHINMAL	1	800	0	10.6	0.0	10.6
13	400 kV	VINDHYACHAL -RIHAND	1	959	0	20.2	0.0	20.2
14	400 kV	RAPP-SHUJALPUR	2	727	392	5.1	2.2	2.9
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	106	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	88	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	110.4	131.5	-21.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	735	0.0	15.6	-15.6
2	HVDC	RAIGARH-PUGALUR	2	0	6619	0.0	114.4	-114.4
3	765 kV	SOLAPUR-RAICHUR	2	589	1187	1.1	8.7	-7.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2812	0.0	49.5	-49.5
5	400 kV	KOLHAPUR-KUDGI	2	1381	0	23.6	0.0	23.6
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	135	2.8	0.0	2.8
					WR-SR	27.4	188.2	-160.8

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)	-78	38	-29	-0.70
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	195	-80	112	2.69
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-126	-41	-86	-2.07
	NER	132kV GELEPHU-SALAKATI	17	1	8	0.19
	NER	132kV MOTANGA-RANGIA	0	0	0	0.00
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.52
	ER	NEPAL IMPORT (FROM BIHAR)	-154	-60	-86	-2.06
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-443	-150	-383	-9.19
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-942	-845	-912	-21.89
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-789	-710	-745	-17.88
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-146	0	-125	-2.99