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 May 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 13.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-मई-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 May 2023, is available at the NLDC website.

धन्यवाद,

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

Report for previous day **Date of Reporting: 14-May-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)	61861	61725	46690	25689	3098	199063
Peak Shortage (MW)	0	0	0	559	41	600
Energy Met (MU)	1403	1471	1093	594	58	4619
Hydro Gen (MU)	216	27	62	46	8	358
Wind Gen (MU)	35	155	165	-	-	354
Solar Gen (MU)*	132.62	69.41	119.42	2.91	1.05	325
Energy Shortage (MU)	1.33	0.00	0.00	1.49	1.48	4.30
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63697	66298	51421	27110	3216	208181
Time Of Maximum Demand Met	11:51	15:03	15:28	00:01	18:47	14:42

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	0.046	0.00	0.53	11.47	12.00	78.00	10.00

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	9438	0	191.3	82.4	-1.3	81	0.00
	Haryana	8905	0	187.5	149.9	-0.8	139	0.00
	Rajasthan	15062	0	299.0	100.1	-2.0	325	0.65
	Delhi	5197	0	104.4	98.5	-2.6	28	0.00
	UP	23808	0	479.6	195.9	-1.1	415	0.56
	Uttarakhand	2188	0	46.8	29.3	-0.1	142	0.07
	HP	1540	0	29.0	7.9	-0.3	77	0.00
	J&K(UT) & Ladakh(UT)	2801	0	56.8	40.3	-1.7	103	0.05
	Chandigarh	248	0	5.1	5.0	0.1	38	0.00
	Railways_NR ISTS	178	0	3.8	3.2	0.5	40	0.00
WR	Chhattisgarh	4705	0	105.7	41.4	-1.4	517	0.00
	Gujarat	20739	0	441.6	180.5	0.0	710	0.00
	MP	11871	0	263.7	145.4	-3.5	360	0.00
	Maharashtra	26270	0	585.7	210.5	4.5	918	0.00
	Goa	734	0	15.9	15.8	-0.2	50	0.00
	DNHDDPDCL	1246	0	28.8	29.3	-0.5	53	0.00
	AMNSIL	737	0	16.7	9.6	0.4	290	0.00
	BALCO	521	0	12.4	12.5	-0.1	15	0.00
SR	Andhra Pradesh	11081	0	224.0	48.9	-2.2	528	0.00
	Telangana	8834	0	184.4	50.4	0.3	393	0.00
	Karnataka	11280	0	219.4	55.5	-2.7	408	0.00
	Kerala	4539	0	93.3	68.4	-0.6	199	0.00
	Tamil Nadu	16704	0	361.1	175.1	-2.1	523	0.00
	Puducherry	472	0	10.7	10.3	-0.3	33	0.00
ER	Bihar	6592	0	137.5	126.9	-2.5	204	0.09
	DVC	3699	0	80.1	-47.8	0.8	358	0.00
	Jharkhand	1764	0	37.7	31.0	-2.5	268	1.40
	Odisha	6494	0	121.0	52.6	-4.1	245	0.00
	West Bengal	10370	0	216.4	86.2	-3.5	148	0.00
	Sikkim	94	0	1.4	1.2	0.2	55	0.00
	Railways_ER ISTS	0	0	0.3	0.2	0.1	4	0.00
NER	Arunachal Pradesh	166	0	2.5	2.0	0.4	45	0.00
	Assam	2019	0	37.7	30.9	0.8	126	0.06
	Manipur	168	0	2.4	2.5	-0.1	13	0.00
	Meghalaya	333	28	5.2	3.8	0.1	69	1.42
	Mizoram	116	0	1.8	1.9	-0.3	8	0.00
	Nagaland	152	0	2.6	2.6	-0.1	25	0.00
	Tripura	322	0	5.9	6.9	0.7	67	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-1.7	-14.5	-25.0	-10.4
Day Peak (MW)	-96.0	-659.2	-1089.0	-536.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	270.3	-256.0	42.8	-67.0	9.9	0.0
Actual(MU)	257.3	-240.4	32.8	-67.2	12.9	-4.7
O/D/U/D(MU)	-13.0	15.6	-10.0	-0.3	3.0	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5077	8111	6358	520	425	20491	46
State Sector	8380	9680	4361	1380	342	24142	54
Total	13457	17790	10719	1900	767	44633	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	771	1505	651	708	15	3650	73
Lignite	22	20	47	0	0	89	2
Hydro	216	27	62	46	8	358	7
Nuclear	25	47	52	0	0	123	2
Gas, Naptha & Diesel	17	20	6	0	28	70	1
RES (Wind, Solar, Biomass & Others)	178	225	314	3	1	721	14
Total	1228	1844	1132	757	52	5012	100

Share of RES in total generation (%)	14.46	12.21	27.74	0.39	2.03	14.38
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.04	16.22	37.75	6.42	17.84	23.98

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.063

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	208181	14:42	453
Non-Solar hr	203809	22:39	386

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

**Note: All generation MU figures are gross

***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 06:00 to 18:00hrs and rest are Non-Solar Hours

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 14-May-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	97	0.0	2.2	-2.2
3	765 kV	GAYA-VARANASI	2	388	646	0.0	6.4	-6.4
4	765 kV	SASARAM-FATEHPUR	1	207	308	0.0	2.8	-2.8
5	765 kV	GAYA-BALIA	1	0	868	0.0	14.5	-14.5
6	400 kV	PUSAULI-VARANASI	1	9	87	0.0	0.9	-0.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	118	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	194	522	0.0	4.0	-4.0
9	400 kV	PATNA-BALIA	2	0	458	0.0	7.8	-7.8
10	400 kV	NAUBATPUR-BALIA	2	14	471	0.0	7.6	-7.6
11	400 kV	BIHARSHARIFF-BALIA	2	217	203	0.0	0.4	-0.4
12	400 kV	MOTIHARI-GORAKHPUR	2	44	395	0.0	5.3	-5.3
13	400 kV	BIHARSHARIFF-VARANASI	2	262	238	0.0	2.1	-2.1
14	220 kV	SAHUPURI-KARAMNASA	1	0	173	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	0.1	0.0	0.1
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.1	58.4	-58.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	926	48	10.3	0.0	10.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1959	0	32.8	0.0	32.8
3	765 kV	JHARSUGUDA-DURG	2	0	377	0.0	4.5	-4.5
4	400 kV	JHARSUGUDA-RAIGARH	4	83	394	0.0	4.2	-4.2
5	400 kV	RANCHI-SIPAT	2	489	0	5.4	0.0	5.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	154	0	2.5	0.0	2.5
					ER-WR	51.1	10.1	41.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	546	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1637	0.0	36.6	-36.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2419	0.0	41.2	-41.2
4	400 kV	TALCHER-I/C	2	506	0	8.0	0.0	8.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	90.4	-90.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	14	153	0.0	1.9	-1.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	128	360	0.0	3.9	-3.9
3	220 kV	ALIPURDUAR-SALAKATI	2	42	39	0.0	0.0	0.0
					ER-NER	0.0	5.8	-5.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	290	0	6.8	0.0	6.8
					NER-NR	6.8	0.0	6.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3020	0.0	18.8	-18.8
2	HVDC	VINDHYACHAL B/B	-	244	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1450	0.0	33.3	-33.3
4	765 kV	GWALIOR-AGRA	2	0	2750	0.0	46.1	-46.1
5	765 kV	GWALIOR-PHAGI	2	34	1969	0.0	25.9	-25.9
6	765 kV	JABALPUR-ORAI	2	0	1421	0.0	42.3	-42.3
7	765 kV	GWALIOR-ORAI	1	726	0	12.9	0.0	12.9
8	765 kV	SATNA-ORAI	1	0	1132	0.0	22.7	-22.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1020	556	5.5	2.1	3.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	3239	0.0	62.6	-62.6
11	400 kV	ZERDA-KANKROLI	1	186	68	1.7	0.2	1.5
12	400 kV	ZERDA -BHINMAL	1	533	163	3.9	0.4	3.5
13	400 kV	VINDHYACHAL -RIHAND	1	960	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	135	798	0.1	6.6	-6.5
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.7	-2.7
17	220 kV	MEHGAON-AURAIYA	1	50	26	0.3	0.1	0.3
18	220 kV	MALANPUR-AURAIYA	1	35	34	0.1	0.2	0.0
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	52.7	263.8	-211.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	809	0.0	9.5	-9.5
2	HVDC	RAIGARH-PUGALUR	2	0	1501	0.0	20.2	-20.2
3	765 kV	SOLAPUR-RAICHUR	2	2688	315	23.4	0.3	23.1
4	765 kV	WARDHA-NIZAMABAD	2	699	1500	1.2	14.5	-13.4
5	400 kV	KOLHAPUR-KUDGI	2	1620	0	29.2	0.0	29.2
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	125	2.5	0.0	2.5
					WR-SR	56.3	44.5	11.8

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)	-118	1	-35	-0.85
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	129	55	100	2.40
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-137	-82	-109	-2.62
	NER	132kV GELEPHU-SALAKATI	11	0	5	0.13
	NER	132kV MOTANGA-RANGIA	-42	-12	-30	-0.72
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-64	-1.54
	ER	NEPAL IMPORT (FROM BIHAR)	-143	-76	-103	-2.47
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-440	-369	-436	-10.46
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-939	-836	-912	-21.90
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-536	0	-432	-10.38
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-150	0	-130	-3.12