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: 15th 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 15.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th 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: 15-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)	56203	58739	45158	25760	2435	188295
Peak Shortage (MW)	0	0	0	0	13	13
Energy Met (MU)	1326	1427	1054	577	48	4433
Hydro Gen (MU)	215	20	52	52	8	346
Wind Gen (MU)	31	183	166	-	-	379
Solar Gen (MU)*	126.85	68.47	133.04	2.87	0.46	332
Energy Shortage (MU)	0.81	0.00	0.00	0.74	1.36	2.91
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61564	64711	47873	26367	2461	199382
Time Of Maximum Demand Met	00:10	00:12	15:18	00:06	19:03	00:08

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	0.062	0.00	1.62	4.77	6.39	64.24	29.37

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	8361	0	169.3	73.3	-0.4	316	0.00
	Haryana	8631	0	168.8	133.5	-1.2	212	0.00
	Rajasthan	14320	0	278.6	86.9	-5.6	262	0.00
	Delhi	5188	0	106.9	95.3	-2.6	186	0.00
	UP	22602	0	470.1	215.8	-3.6	348	0.00
	Uttarakhand	2005	0	43.9	27.2	-0.3	241	0.00
	HP	1284	0	26.4	5.1	-0.3	148	0.48
	J&K(UT) & Ladakh(UT)	2837	0	53.3	34.9	-0.3	205	0.33
	Chandigarh	248	0	5.1	4.9	0.2	40	0.00
	Railways_NR ISTS	172	0	3.7	3.3	0.5	39	0.00
WR	Chhattisgarh	4737	0	104.2	42.4	-3.5	140	0.00
	Gujarat	19323	0	424.9	164.6	0.0	814	0.00
	MP	11534	0	258.7	139.6	-3.9	353	0.00
	Maharashtra	26055	0	567.6	207.8	-2.8	617	0.00
	Goa	696	0	15.3	14.4	0.6	43	0.00
	DNHDDPDCL	1205	0	27.6	27.9	-0.3	21	0.00
	AMNSIL	757	0	16.7	10.5	0.1	285	0.00
	BALCO	520	0	12.4	12.5	-0.1	6	0.00
SR	Andhra Pradesh	10653	0	226.3	61.7	-1.7	553	0.00
	Telangana	8441	0	179.6	47.9	-0.8	377	0.00
	Karnataka	10472	0	214.1	53.2	-1.7	689	0.00
	Kerala	4590	0	87.1	66.1	0.0	186	0.00
	Tamil Nadu	15530	0	337.2	161.9	-5.4	344	0.00
	Puducherry	450	0	10.1	10.0	-0.6	43	0.00
ER	Bihar	6423	0	132.9	125.8	-5.2	261	0.18
	DVC	3550	0	77.8	-40.7	1.1	237	0.00
	Jharkhand	1780	0	38.3	31.1	-0.7	141	0.56
	Odisha	6670	0	130.1	57.3	1.4	433	0.00
	West Bengal	9601	0	196.7	62.6	-2.6	145	0.00
	Sikkim	64	0	1.1	1.1	-0.1	25	0.00
	Railways_ER ISTS	15	0	0.1	0.2	-0.2	7	0.00
NER	Arunachal Pradesh	154	0	2.4	2.4	-0.1	94	0.00
	Assam	1723	0	31.3	26.2	-0.5	121	0.00
	Manipur	133	0	2.0	2.2	-0.2	12	0.00
	Meghalaya	282	13	4.9	4.0	-0.1	48	1.36
	Mizoram	74	0	1.3	1.7	-0.5	6	0.00
	Nagaland	121	0	2.2	2.3	-0.1	12	0.00
	Tripura	269	0	4.2	5.9	0.0	56	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-0.5	-13.5	-25.4	-9.5
Day Peak (MW)	38.4	-661.0	-1088.0	-457.4

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	249.4	-242.6	48.1	-61.1	6.1	0.0
Actual(MU)	244.2	-240.2	38.0	-55.7	5.9	-7.8
O/D/U/D(MU)	-5.2	2.4	-10.2	5.4	-0.2	-7.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4387	8451	6358	720	425	20341	45
State Sector	6890	9595	5821	1980	363	24648	55
Total	11277	18045	12179	2700	788	44989	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	710	1430	602	663	13	3419	71
Lignite	21	18	49	0	0	88	2
Hydro	215	20	52	52	8	346	7
Nuclear	27	45	52	0	0	123	3
Gas, Naptha & Diesel	21	17	6	0	28	71	1
RES (Wind, Solar, Biomass & Others)	170	252	325	3	0	751	16
Total	1164	1781	1085	719	50	4798	100

Share of RES in total generation (%)	14.62	14.16	29.96	0.40	0.93	15.65
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.39	17.76	39.48	7.70	16.81	25.43

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.060

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	197169	15:20	190
Non-Solar hr	199382	0:08	194

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: 15-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	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	678	693	0.0	6.1	-6.1
4	765 kV	SASARAM-FATEHPUR	1	258	315	0.0	1.8	-1.8
5	765 kV	GAYA-BALIA	1	0	902	0.0	15.0	-15.0
6	400 kV	PUSAULI-VARANASI	1	10	88	0.0	0.6	-0.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	119	0.0	1.7	-1.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	186	901	0.0	6.9	-6.9
9	400 kV	PATNA-BALIA	2	0	711	0.0	7.8	-7.8
10	400 kV	NAUBATPUR-BALIA	2	20	750	0.0	8.6	-8.6
11	400 kV	BIHARSHARIFF-BALIA	2	178	508	0.0	2.2	-2.2
12	400 kV	MOTIHARI-GORAKHPUR	2	51	608	0.0	6.5	-6.5
13	400 kV	BIHARSHARIFF-VARANASI	2	324	264	0.0	0.8	-0.8
14	220 kV	SAHUPURI-KARAMNASA	1	0	184	0.0	2.9	-2.9
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	54	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	63.3	-62.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1692	0	18.0	0.0	18.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1952	0	31.8	0.0	31.8
3	765 kV	JHARSUGUDA-DURG	2	161	326	0.0	2.6	-2.6
4	400 kV	JHARSUGUDA-RAIGARH	4	248	333	0.0	2.4	-2.4
5	400 kV	RANCHI-SIPAT	2	509	0	6.9	0.0	6.9
6	220 kV	BUDHIPADAR-RAIGARH	1	20	44	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	166	0	2.5	0.0	2.5
					ER-WR	59.2	6.0	53.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	548	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	36.4	-36.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2949	0.0	39.7	-39.7
4	400 kV	TALCHER-I/C	2	503	355	3.2	0.0	3.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	88.7	-88.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	103	82	0.3	0.6	-0.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	410	178	0.7	0.0	0.7
3	220 kV	ALIPURDUAR-SALAKATI	2	93	5	0.8	0.0	0.8
					ER-NER	1.7	0.6	1.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	290	0	6.6	0.0	6.6
					NER-NR	6.6	0.0	6.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	1	1501	0.0	0.4	-0.4
2	HVDC	VINDHYACHAL B/B	-	244	52	3.0	0.3	2.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1449	0.0	17.1	-17.1
4	765 kV	GWALIOR-AGRA	2	0	2800	0.0	46.6	-46.6
5	765 kV	GWALIOR-PHAGI	2	486	1943	1.1	21.6	-20.4
6	765 kV	JABALPUR-ORAI	2	0	1421	0.0	45.4	-45.4
7	765 kV	GWALIOR-ORAI	1	726	0	10.8	0.0	10.8
8	765 kV	SATNA-ORAI	1	0	1127	0.0	21.8	-21.8
9	765 kV	BANASKANTHA-CHITORGARH	2	528	758	1.7	4.9	-3.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	3420	0.0	68.2	-68.2
11	400 kV	ZERDA-KANKROLI	1	169	115	0.9	0.6	0.3
12	400 kV	ZERDA -BHINMAL	1	332	166	2.6	0.8	1.9
13	400 kV	VINDHYACHAL -RIHAND	1	971	0	20.3	0.0	20.3
14	400 kV	RAPP-SHUJALPUR	2	208	786	0.5	5.6	-5.2
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.8	-2.8
17	220 kV	MEHGAON-AURAIYA	1	32	33	0.1	0.1	0.0
18	220 kV	MALANPUR-AURAIYA	1	16	36	0.0	0.3	-0.3
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	41.0	236.3	-195.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	502	305	6.5	3.3	3.2
2	HVDC	RAIGARH-PUGALUR	2	0	2002	0.0	29.2	-29.2
3	765 kV	SOLAPUR-RAICHUR	2	2547	1575	24.3	3.4	20.9
4	765 kV	WARDHA-NIZAMABAD	2	750	2307	1.7	18.1	-16.4
5	400 kV	KOLHAPUR-KUDGI	2	1552	0	28.6	0.0	28.6
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	126	2.4	0.0	2.4
					WR-SR	63.5	54.1	9.4

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)	68	-48	-4	-0.08
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	158	88	114	2.74
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-142	-88	-115	-2.76
	NER	132kV GELEPHU-SALAKATI	17	3	8	0.19
	NER	132kV MOTANGA-RANGIA	-41	-14	-26	-0.63
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-62	-1.49
	ER	NEPAL IMPORT (FROM BIHAR)	-120	-7	-74	-1.76
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-464	-102	-427	-10.24
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-945	-885	-932	-22.37
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-457	0	-395	-9.49
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-143	0	-128	-3.08