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: 11th 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 10.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10th 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: 11-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)	58763	61029	45941	25989	2805	194527
Peak Shortage (MW)	120	0	0	347	45	512
Energy Met (MU)	1281	1436	1043	590	56	4406
Hydro Gen (MU)	176	41	62	58	9	346
Wind Gen (MU)	16	60	27	-	-	104
Solar Gen (MU)*	147.26	70.35	126.14	6.21	1.24	351
Energy Shortage (MU)	3.51	0.00	1.68	3.22	1.62	10.03
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59313	65450	48177	27105	2812	198388
Time Of Maximum Demand Met	19:46	15:17	14:56	23:29	18:53	22:40

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	0.041	0.00	0.36	3.41	3.77	72.78	23.45

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	8558	0	172.3	69.3	-1.0	133	0.00
	Haryana	8099	100	171.7	112.6	-0.5	168	0.21
	Rajasthan	14560	0	271.2	93.6	-3.4	154	0.00
	Delhi	4595	0	95.2	88.3	-2.3	131	0.00
	UP	22027	0	430.8	171.9	-2.7	311	1.55
	Uttarakhand	2099	0	43.2	28.8	0.5	192	0.63
	HP	1702	0	31.1	14.3	0.5	87	0.00
	J&K(UT) & Ladakh(UT)	2671	0	56.7	41.0	0.9	259	1.12
	Chandigarh	229	0	4.6	4.7	-0.1	14	0.00
	Railways_NR ISTS	174	0	3.8	3.2	0.6	39	0.00
WR	Chhattisgarh	4752	0	107.3	44.8	-1.2	182	0.00
	Gujarat	20235	0	437.1	195.6	-4.6	868	0.00
	MP	10910	0	244.0	140.2	-3.0	282	0.00
	Maharashtra	26046	0	573.4	211.5	0.8	688	0.00
	Goa	734	0	15.4	15.4	-0.4	69	0.00
	DNHDDPDCL	1248	0	29.1	29.7	-0.6	65	0.00
	AMNSIL	768	0	17.2	10.5	0.4	254	0.00
	BALCO	521	0	12.4	12.3	0.1	32	0.00
SR	Andhra Pradesh	10171	208	218.3	70.7	2.0	623	1.68
	Telangana	8939	0	184.8	53.1	-0.3	732	0.00
	Karnataka	9308	0	197.9	69.1	-4.2	509	0.00
	Kerala	4574	0	93.8	66.6	0.4	431	0.00
	Tamil Nadu	16205	0	337.9	186.5	0.3	752	0.00
	Puducherry	457	0	10.3	9.6	0.0	57	0.00
ER	Bihar	6346	0	125.9	115.3	-1.4	220	1.58
	DVC	3556	0	77.0	-49.4	-0.4	273	0.00
	Jharkhand	1729	107	35.5	30.2	-3.2	191	1.64
	Odisha	6196	0	121.2	46.7	-2.6	366	0.00
	West Bengal	11105	0	229.2	93.2	-3.1	303	0.00
	Sikkim	96	0	1.5	1.5	0.0	31	0.00
	Railways_ER ISTS	8	0	0.1	0.2	-0.1	0	0.00
NER	Arunachal Pradesh	135	0	2.2	1.8	0.3	64	0.00
	Assam	1757	0	35.8	29.4	-0.1	178	0.11
	Manipur	181	0	2.4	2.4	0.1	45	0.00
	Meghalaya	320	27	5.0	3.4	0.5	132	1.51
	Mizoram	116	0	2.0	1.8	-0.1	12	0.00
	Nagaland	151	0	2.4	2.5	-0.1	14	0.00
	Tripura	295	0	6.4	7.0	1.0	98	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	7.2	-13.3	-25.6	-17.1
Day Peak (MW)	527.9	-687.7	-1135.0	-817.3

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	213.5	-226.2	76.1	-70.9	7.5	0.0
Actual(MU)	199.9	-230.4	86.5	-72.0	6.9	-9.1
O/D/U/D(MU)	-13.7	-4.1	10.4	-1.2	-0.6	-9.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4687	7907	5458	1590	460	20102	50
State Sector	6245	8772	3551	920	277	19764	50
Total	10932	16679	9009	2510	737	39866	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	770	1529	683	689	14	3685	77
Lignite	18	20	47	0	0	84	2
Hydro	176	41	62	58	9	346	7
Nuclear	25	46	52	0	0	123	3
Gas, Naptha & Diesel	15	28	6	0	28	77	2
RES (Wind, Solar, Biomass & Others)	178	132	182	7	1	499	10
Total	1181	1796	1030	755	53	4815	100

Share of RES in total generation (%)	15.05	7.33	17.64	0.92	2.34	10.37
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.06	12.20	28.62	8.65	19.42	20.11

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.066

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	197508	15:01	387
Non-Solar hr	198388	22:40	1121

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: 11-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	318	600	0.0	3.4	-3.4
4	765 kV	SASARAM-FATEHPUR	1	132	344	0.0	2.5	-2.5
5	765 kV	GAYA-BALIA	1	0	687	0.0	10.9	-10.9
6	400 kV	PUSAULI-VARANASI	1	0	118	0.0	1.9	-1.9
7	400 kV	PUSAULI -ALLAHABAD	1	12	67	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	209	427	0.0	3.6	-3.6
9	400 kV	PATNA-BALIA	2	0	461	0.0	5.7	-5.7
10	400 kV	NAUBATPUR-BALIA	2	25	478	0.0	5.3	-5.3
11	400 kV	BIHARSHARIFF-BALIA	2	287	225	0.6	0.0	0.6
12	400 kV	MOTIHARI-GORAKHPUR	2	10	370	0.0	5.1	-5.1
13	400 kV	BIHARSHARIFF-VARANASI	2	217	205	0.0	0.8	-0.8
14	220 kV	SAHUPURI-KARAMNASA	1	0	175	0.0	3.0	-3.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	25	0	0.0	0.0	0.0
17	132 kV	KARMANASA-SAHUPURI	1	0	51	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.7	44.9	-44.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1208	0	13.8	0.0	13.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1488	0	25.1	0.0	25.1
3	765 kV	JHARSUGUDA-DURG	2	0	404	0.0	5.1	-5.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	467	0.0	5.5	-5.5
5	400 kV	RANCHI-SIPAT	2	314	44	4.9	0.0	4.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	104	0	1.5	0.0	1.5
					ER-WR	45.3	11.8	33.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	546	0.0	12.7	-12.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1794	0.0	37.6	-37.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3043	0.0	50.7	-50.7
4	400 kV	TALCHER-I/C	2	700	431	3.0	0.0	3.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	101.0	-101.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	84	154	0.2	1.1	-0.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	320	400	0.0	1.8	-1.8
3	220 kV	ALIPURDUAR-SALAKATI	2	69	38	0.1	0.0	0.1
					ER-NER	0.3	2.9	-2.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	291	0	4.0	0.0	4.0
					NER-NR	4.0	0.0	4.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2017	0.0	47.4	-47.4
2	HVDC	VINDHYACHAL B/B	-	146	154	1.4	2.2	-0.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	496	0.0	7.5	-7.5
4	765 kV	GWALIOR-AGRA	2	0	1909	0.0	33.9	-33.9
5	765 kV	GWALIOR-PHAGI	2	124	1430	0.1	20.6	-20.5
6	765 kV	JABALPUR-ORAI	2	0	974	0.0	33.9	-33.9
7	765 kV	GWALIOR-ORAI	1	711	0	12.7	0.0	12.7
8	765 kV	SATNA-ORAI	1	0	954	0.0	20.7	-20.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1377	269	14.7	0.6	14.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2741	0.0	55.3	-55.3
11	400 kV	ZERDA-KANKROLI	1	285	52	2.7	0.1	2.6
12	400 kV	ZERDA -BHINMAL	1	478	179	4.2	0.7	3.5
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	296	414	1.7	3.3	-1.6
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
17	220 kV	MEHGAON-AURAIYA	1	56	0	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	40	5	0.3	0.0	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	60.0	228.4	-168.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1004	0.0	11.0	-11.0
2	HVDC	RAIGARH-PUGALUR	2	575	1502	0.0	19.0	-19.0
3	765 kV	SOLAPUR-RAICHUR	2	1596	1805	7.4	5.9	1.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2254	0.0	26.1	-26.1
5	400 kV	KOLHAPUR-KUDGI	2	1457	0	23.8	0.0	23.8
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	122	2.4	0.0	2.4
					WR-SR	33.7	62.1	-28.4

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)	135	-15	64	1.55
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	405	166	261	6.27
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-92	-12	-49	-1.17
	NER	132kV GELEPHU-SALAKATI	-31	0	-2	-0.04
	NER	132kV MOTANGA-RANGIA	34	13	24	0.57
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-65	-1.55
	ER	NEPAL IMPORT (FROM BIHAR)	-120	-30	-91	-2.19
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-494	-203	-397	-9.53
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-953	-827	-904	-21.70
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-817	-587	-710	-17.05
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-182	0	-162	-3.88