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: *05*th 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 04.05.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04th 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: 05-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)	49776	54968	45230	22769	2718	175461
Peak Shortage (MW)	0	0	0	523	43	566
Energy Met (MU)	1019	1267	1024	492	49	3851
Hydro Gen (MU)	207	19	74	42	11	352
Wind Gen (MU)	14	55	27	-	-	96
Solar Gen (MU)*	134.94	60.13	110.89	2.81	0.70	309
Energy Shortage (MU)	0.00	0.40	0.00	2.27	1.38	4.05
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51290	57574	47616	23080	2717	178915
Time Of Maximum Demand Met	19:51	11:42	11:58	19:16	19:02	19:41

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	0.42	0.84	5.67	6.93	73.04	20.03

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	6953	0	143.1	71.6	-1.4	96	0.00
	Haryana	6575	0	132.7	93.4	-0.8	189	0.00
	Rajasthan	11690	0	235.9	81.3	-5.6	237	0.00
	Delhi	3670	0	74.1	73.7	-2.1	128	0.00
	UP	17786	0	303.9	131.7	-1.7	860	0.00
	Uttarakhand	1840	0	38.0	18.3	-0.9	208	0.00
	HP	1583	0	28.5	7.9	-0.3	39	0.00
	J&K(UT) & Ladakh(UT)	2815	0	55.3	40.5	0.2	150	0.00
	Chandigarh	197	0	3.8	3.9	-0.2	31	0.00
	Railways_NR ISTS	184	0	4.0	3.3	0.8	56	0.00
WR	Chhattisgarh	4349	0	94.0	33.2	-1.2	169	0.00
	Gujarat	18241	0	399.0	205.1	-0.8	1045	0.00
	MP	8860	0	189.6	98.5	-2.8	676	0.00
	Maharashtra	24416	0	512.1	217.0	-0.7	763	0.40
	Goa	702	0	15.0	15.0	-0.4	49	0.00
	DNHDDPDCL	1265	0	29.2	29.4	-0.2	38	0.00
	AMNSIL	771	0	15.8	4.5	0.1	267	0.00
	BALCO	518	0	12.3	12.4	-0.1	4	0.00
SR	Andhra Pradesh	8999	0	193.0	50.0	0.9	582	0.00
	Telangana	7988	0	167.1	45.8	0.4	481	0.00
	Karnataka	13177	0	251.2	97.2	-1.7	410	0.00
	Kerala	4475	0	90.0	66.7	0.1	204	0.00
	Tamil Nadu	14614	0	314.2	193.8	-2.4	427	0.00
	Puducherry	397	0	8.8	8.6	-0.5	53	0.00
ER	Bihar	5525	100	103.3	99.4	-3.5	258	0.27
	DVC	3451	0	74.1	-42.8	0.1	289	0.00
	Jharkhand	1523	0	29.4	26.3	-2.8	267	2.00
	Odisha	5175	0	108.0	33.5	-1.6	447	0.00
	West Bengal	8059	0	174.6	40.0	-3.8	152	0.00
	Sikkim	97	0	1.6	1.3	0.3	80	0.00
	Railways_ER ISTS	1	0	0.6	0.0	0.6	0	0.00
NER	Arunachal Pradesh	149	0	2.3	2.3	-0.1	49	0.00
	Assam	1748	0	30.4	23.8	0.1	208	0.00
	Manipur	150	0	2.3	2.4	-0.2	18	0.00
	Meghalaya	321	43	5.2	3.4	0.1	87	1.38
	Mizoram	113	0	1.8	1.8	-0.2	26	0.00
	Nagaland	139	0	2.0	2.2	-0.2	18	0.00
	Tripura	263	0	5.2	4.6	0.4	60	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	0.5	-9.8	-25.6	-9.4
Day Peak (MW)	208.0	-346.2	-1089.0	-439.3

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	154.9	-143.6	89.5	-103.6	2.9	0.0
Actual(MU)	126.9	-116.0	91.6	-110.9	5.3	-3.1
O/D/U/D(MU)	-28.0	27.6	2.1	-7.3	2.4	-3.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7847	11500	5958	2640	823	28769	47
State Sector	11395	14760	4854	1190	285	32483	53
Total	19242	26260	10812	3830	1108	61251	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	527	1297	646	642	14	3127	75
Lignite	22	11	51	0	0	83	2
Hydro	207	19	74	42	11	352	8
Nuclear	29	36	60	0	0	126	3
Gas, Naptha & Diesel	8	18	7	0	26	59	1
RES (Wind, Solar, Biomass & Others)	164	116	165	3	1	448	11
Total	958	1498	1002	687	51	4195	100

Share of RES in total generation (%)	17.08	7.75	16.45	0.44	1.37	10.68
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.79	11.46	29.79	6.53	22.30	22.08

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.055

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	172621	11:42	123
Non-Solar hr	178915	19:41	578

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: 05-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	556	715	0.0	5.7	-5.7
4	765 kV	SASARAM-FATEHPUR	1	68	402	0.0	4.9	-4.9
5	765 kV	GAYA-BALIA	1	0	578	0.0	10.0	-10.0
6	400 kV	PUSAULI-VARANASI	1	6	88	0.0	0.9	-0.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	113	0.0	1.4	-1.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	180	652	0.0	6.4	-6.4
9	400 kV	PATNA-BALIA	2	3	492	0.0	7.5	-7.5
10	400 kV	NAUBATPUR-BALIA	2	45	515	0.0	7.5	-7.5
11	400 kV	BIHARSHARIFF-BALIA	2	266	225	0.0	0.6	-0.6
12	400 kV	MOTIHARI-GORAKHPUR	2	3	522	0.0	7.2	-7.2
13	400 kV	BIHARSHARIFF-VARANASI	2	224	304	0.0	2.5	-2.5
14	220 kV	SAHUPURI-KARAMNASA	1	0	155	0.0	2.2	-2.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	25	0	0.2	0.0	0.2
17	132 kV	KARMANASA-SAHUPURI	1	0	13	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	137	0.0	0.0	0.0
					ER-NR	0.2	59.0	-58.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	878	0	10.3	0.0	10.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1099	15	10.5	0.0	10.5
3	765 kV	JHARSUGUDA-DURG	2	0	472	0.0	9.4	-9.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	437	0.0	6.4	-6.4
5	400 kV	RANCHI-SIPAT	2	271	69	1.3	0.0	1.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	80	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	134	0	1.9	0.0	1.9
					ER-WR	24.0	17.0	7.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	546	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1639	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2896	0.0	55.3	-55.3
4	400 kV	TALCHER-I/C	2	242	19	4.0	0.0	4.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	107.4	-107.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	137	142	0.0	0.2	-0.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	460	324	1.7	0.0	1.7
3	220 kV	ALIPURDUAR-SALAKATI	2	87	40	0.5	0.0	0.5
					ER-NER	2.2	0.2	2.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	286	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	1000	0.0	23.2	-23.2
2	HVDC	VINDHYACHAL B/B	-	246	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	316	0	7.2	0.0	7.2
4	765 kV	GWALIOR-AGRA	2	0	1817	0.0	32.5	-32.5
5	765 kV	GWALIOR-PHAGI	2	227	1654	0.3	21.4	-21.1
6	765 kV	JABALPUR-ORAI	2	0	681	0.0	22.5	-22.5
7	765 kV	GWALIOR-ORAI	1	900	0	15.3	0.0	15.3
8	765 kV	SATNA-ORAI	1	0	860	0.0	17.8	-17.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1744	0	22.6	0.0	22.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2549	0.0	43.5	-43.5
11	400 kV	ZERDA-KANKROLI	1	307	0	4.5	0.0	4.5
12	400 kV	ZERDA -BHINMAL	1	551	27	6.5	0.0	6.4
13	400 kV	VINDHYACHAL -RIHAND	1	958	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	398	332	2.2	2.9	-0.7
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	40	3	0.4	0.0	0.4
18	220 kV	MALANPUR-AURAIYA	1	29	8	0.2	0.0	0.2
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	87.1	165.6	-78.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	312	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	1500	0.0	17.3	-17.3
3	765 kV	SOLAPUR-RAICHUR	2	553	1267	2.4	5.7	-3.3
4	765 kV	WARDHA-NIZAMABAD	2	0	1957	0.0	26.6	-26.6
5	400 kV	KOLHAPUR-KUDGI	2	1260	0	21.8	0.0	21.8
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	108	2.2	0.0	2.2
					WR-SR	26.4	56.8	-30.4

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)	85	-65	-23	-0.56
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	263	78	143	3.43
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-182	-62	-110	-2.65
	NER	132kV GELEPHU-SALAKATI	-18	-1	-9	-0.22
	NER	132kV MOTANGA-RANGIA	34	3	20	0.47
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-46	-1.10
	ER	NEPAL IMPORT (FROM BIHAR)	87	0	-13	-0.30
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-362	-165	-348	-8.35
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-924	-921	-922	-22.13
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-439	-331	-391	-9.39
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-165	0	-145	-3.48