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: 09th October 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 08.10.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-अक्टूबर-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 08th October 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: 09-Oct-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)	60967	61107	44794	23988	2979	193835
Peak Shortage (MW)	617	0	0	1092	0	1709
Energy Met (MU)	1406	1422	1187	548	54	4617
Hydro Gen (MU)	204	74	83	84	33	478
Wind Gen (MU)	44	54	28	-	-	126
Solar Gen (MU)*	132.95	66.15	118.18	5.21	0.72	323
Energy Shortage (MU)	8.93	0.00	7.65	7.24	0.00	23.82
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64949	64400	58210	25109	3062	210077
Time Of Maximum Demand Met	12:24	11:40	10:20	19:59	17:59	11:56

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	0.052	0.39	1.50	6.08	7.97	71.26	20.76

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	12535	0	227.2	104.7	-0.4	246	0.00
	Haryana	8755	0	191.1	129.1	0.8	182	2.29
	Rajasthan	14323	0	304.9	68.4	-3.2	374	0.00
	Delhi	5277	0	105.0	84.3	0.3	182	0.00
	UP	20159	437	450.3	177.2	-1.8	1347	3.85
	Uttarakhand	2037	0	40.7	25.3	0.0	150	0.45
	HP	1504	0	30.8	14.6	0.3	84	0.99
	J&K(UT) & Ladakh(UT)	2443	237	48.8	32.0	5.3	625	1.35
	Chandigarh	240	0	4.4	4.7	-0.3	13	0.00
	Railways_NR ISTS	167	0	3.4	2.9	0.4	51	0.00
WR	Chhattisgarh	5028	0	114.9	60.4	0.0	250	0.00
	Gujarat	19582	0	408.3	148.0	-1.7	912	0.00
	MP	12545	0	277.2	156.0	-3.9	602	0.00
	Maharashtra	24953	0	549.2	181.0	-5.4	802	0.00
	Goa	649	0	13.0	11.2	1.3	104	0.00
	DNHDDPDCL	1254	0	28.9	28.6	0.3	95	0.00
	AMNSIL	789	0	17.9	5.2	0.0	243	0.00
	BALCO	521	0	12.4	12.6	-0.2	6	0.00
SR	Andhra Pradesh	12046	0	238.8	120.2	6.0	990	1.25
	Telangana	14448	0	277.4	139.3	5.1	1214	0.00
	Karnataka	14689	0	247.2	88.6	3.6	1060	6.40
	Kerala	3656	0	77.3	53.5	0.6	233	0.00
	Tamil Nadu	15075	0	337.2	189.9	-1.0	386	0.00
	Puducherry	417	0	9.6	9.0	-0.2	26	0.00
ER	Bihar	6219	289	126.7	115.5	2.5	495	5.50
	DVC	3335	0	72.8	-41.7	1.3	400	0.00
	Jharkhand	1501	235	31.9	23.5	-3.4	188	1.67
	Odisha	5464	0	130.2	55.0	-0.4	324	0.07
	West Bengal	8832	0	185.4	74.2	-0.3	150	0.00
	Sikkim	56	0	0.7	0.8	-0.1	13	0.00
	Railways_ER ISTS	15	0	0.1	0.1	0.0	0	0.00
NER	Arunachal Pradesh	148	0	2.7	2.7	-0.4	27	0.00
	Assam	1902	0	34.0	25.2	0.5	194	0.00
	Manipur	188	0	2.6	2.8	-0.2	9	0.00
	Meghalaya	323	0	5.8	1.9	-0.2	76	0.00
	Mizoram	109	0	1.6	1.0	-0.5	3	0.00
	Nagaland	153	0	2.6	2.3	-0.1	12	0.00
	Tripura	293	0	5.2	5.3	-0.3	43	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	34.4	15.8	-24.0	-18.2
Day Peak (MW)	1537.0	568.0	-1047.0	-1236.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	232.8	-301.6	181.0	-92.8	-19.4	-0.1
Actual(MU)	218.4	-303.8	208.6	-104.4	-17.4	1.4
O/D/U/D(MU)	-14.4	-2.2	27.7	-11.5	1.9	1.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4267	10854	6448	2966	355	24889	53
State Sector	5346	7669	6111	3040	129	22295	47
Total	9612	18523	12559	6006	484	47184	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	798	1536	702	620	17	3673	74
Lignite	24	14	33	0	0	72	1
Hydro	204	74	83	84	33	478	10
Nuclear	25	48	58	0	0	130	3
Gas, Naptha & Diesel	42	64	6	0	28	140	3
RES (Wind, Solar, Biomass & Others)	182	122	176	7	1	488	10
Total	1274	1858	1059	711	79	4981	100

Share of RES in total generation (%)	14.27	6.58	16.67	0.95	0.91	9.80
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.19	13.13	29.99	12.79	42.47	22.01

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.054

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	210077	11:56	118
Non-Solar hr	196655	19:17	1709

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: 09-Oct-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	501	0.0	12.1	-12.1
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	128	291	0.0	1.6	-1.6
4	765 kV	SASARAM-FATEHPUR	1	0	290	0.0	4.7	-4.7
5	765 kV	GAYA-BALIA	1	0	500	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	1	0	77	0.0	1.1	-1.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	80	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	587	0.0	9.2	-9.2
9	400 kV	PATNA-BALIA	2	0	319	0.0	5.9	-5.9
10	400 kV	NAUBATPUR-BALIA	2	0	325	0.0	5.7	-5.7
11	400 kV	BIHARSHARIFF-BALIA	2	63	129	0.0	1.0	-1.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	275	0.0	4.7	-4.7
13	400 kV	BIHARSHARIFF-VARANASI	2	63	117	0.0	0.4	-0.4
14	220 kV	SAHUPURI-KARAMNASA	1	0	78	0.0	1.2	-1.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
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	0.5	59.3	-58.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	895	139	9.4	0.0	9.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1000	204	9.3	0.0	9.3
3	765 kV	JHARSUGUDA-DURG	2	0	305	0.0	5.4	-5.4
4	400 kV	JHARSUGUDA-RAIGARH	4	45	235	0.0	2.1	-2.1
5	400 kV	RANCHI-SIPAT	2	185	80	1.1	0.0	1.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	165	0.0	3.1	-3.1
7	220 kV	BUDHIPADAR-KORBA	2	90	13	1.2	0.0	1.2
					ER-WR	21.0	10.6	10.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	563	0.0	12.7	-12.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	45.5	-45.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2553	0.0	45.3	-45.3
4	400 kV	TALCHER-I/C	2	249	275	0.0	0.5	-0.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	103.5	-103.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	135	205	0.6	0.7	-0.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	295	194	1.6	0.0	1.6
3	220 kV	ALIPURDUAR-SALAKATI	2	51	53	0.2	0.0	0.2
					ER-NER	2.3	0.7	1.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	705	0.0	16.9	-16.9
					NER-NR	0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2514	0.0	58.0	-58.0
2	HVDC	VINDHYACHAL B/B	-	46	0	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1909	0.0	38.6	-38.6
4	765 kV	GWALIOR-AGRA	2	318	1304	0.2	17.1	-16.9
5	765 kV	GWALIOR-PHAGI	2	463	943	2.1	9.9	-7.8
6	765 kV	JABALPUR-ORAI	2	27	708	0.0	17.0	-17.0
7	765 kV	GWALIOR-ORAI	1	548	0	9.6	0.0	9.6
8	765 kV	SATNA-ORAI	1	0	831	0.0	16.6	-16.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1277	204	9.7	0.0	9.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2314	0.0	41.0	-41.0
11	400 kV	ZERDA-KANKROLI	1	216	41	1.6	0.1	1.6
12	400 kV	ZERDA -BHINMAL	1	611	65	5.3	0.0	5.3
13	400 kV	VINDHYACHAL -RIHAND	1	941	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	347	280	0.9	0.0	0.9
15	220 kV	BHANPURA-RANPUR	1	0	97	0.0	1.7	-1.7
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.5	-2.5
17	220 kV	MEHGAON-AURAIYA	1	152	0	2.6	0.0	2.6
18	220 kV	MALANPUR-AURAIYA	1	117	0	1.8	0.0	1.8
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	57.1	202.4	-145.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1008	0.0	20.2	-20.2
2	HVDC	RAIGARH-PUGALUR	2	0	5016	0.0	91.8	-91.8
3	765 kV	SOLAPUR-RAICHUR	2	156	1633	0.1	15.9	-15.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2666	0.0	43.7	-43.7
5	400 kV	KOLHAPUR-KUDGI	2	1340	0	21.2	0.0	21.2
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	1	113	2.1	0.0	2.1
					WR-SR	23.4	171.6	-148.2

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)	412	325	365	8.75
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1020	0	969	23.24
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	60	18	40	0.95
	NER	132kV GELEPHU-SALAKATI	15	8	12	0.28
	NER	132kV MOTANGA-RANGIA	59	35	47	1.12
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-43	0	51	1.22
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	611	467	608	14.58
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-903	-820	-878	-21.07
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1236	-503	-759	-18.22
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-144	0	-122	-2.92

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 09-Oct-2023

Export From India (in MU)

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	21.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.11
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.11

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	31.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.04
Nepal	2.63	0.00	11.36	0.00	0.00	0.34	0.00	0.00	14.33
Bangladesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Import	33.67	0.00	11.36	0.00	0.00	0.34	0.00	0.00	45.37

Net from India(in MU) **-ve : Export / +ve : Import**

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	31.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.04
Nepal	2.63	0.00	11.36	0.00	0.00	0.34	0.00	0.00	14.33
Bangladesh	-21.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.11
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	12.56	0.00	11.36	0.00	0.00	0.34	0.00	0.00	24.26