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: 06th 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 05.10.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 05th 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: 06-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)	61972	62954	48843	23694	3131	200594
Peak Shortage (MW)	335	183	750	196	0	1464
Energy Met (MU)	1378	1390	1233	498	59	4558
Hydro Gen (MU)	198	91	77	93	30	488
Wind Gen (MU)	32	77	68	-	-	177
Solar Gen (MU)*	138.01	66.74	119.36	2.32	0.54	327
Energy Shortage (MU)	3.40	0.27	3.90	0.66	0.00	8.23
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63263	65413	59561	23991	3162	207184
Time Of Maximum Demand Met	12:50	18:47	10:57	19:02	17:56	11:45

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	0.049	0.05	1.92	7.59	9.56	75.67	14.77

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	10838	0	221.0	93.6	0.2	162	0.00
	Haryana	9390	0	195.9	127.1	-0.1	171	0.78
	Rajasthan	13859	0	295.1	76.1	-5.6	202	0.00
	Delhi	4843	0	100.9	88.9	-0.9	227	0.00
	UP	22128	0	432.0	161.5	1.1	1353	0.62
	Uttarakhand	2096	120	43.8	28.1	0.4	146	0.39
	HP	1698	0	34.3	16.9	1.2	365	0.04
	J&K(UT) & Ladakh(UT)	2350	200	47.2	30.7	5.0	463	1.57
	Chandigarh	253	0	5.0	5.0	0.0	41	0.00
	Railways_NR ISTS	163	0	3.0	3.3	-0.3	53	0.00
WR	Chhattisgarh	4703	0	104.9	46.2	-0.9	170	0.00
	Gujarat	20620	0	417.8	161.0	-0.1	669	0.00
	MP	12419	0	263.7	112.7	-4.0	324	0.00
	Maharashtra	24325	183	528.1	210.1	-3.9	730	0.27
	Goa	695	0	14.1	12.6	1.1	84	0.00
	DNHDDPDCL	1316	0	30.2	29.7	0.5	178	0.00
	AMNSIL	853	0	18.5	9.3	-0.2	244	0.00
	BALCO	524	0	12.5	12.5	0.0	40	0.00
SR	Andhra Pradesh	11234	0	228.4	123.3	2.5	1592	0.00
	Telangana	14351	0	278.0	144.0	-0.1	599	0.00
	Karnataka	14552	0	265.7	114.2	4.0	945	3.90
	Kerala	4120	0	81.4	59.2	1.0	339	0.00
	Tamil Nadu	17386	0	369.2	184.2	1.2	979	0.00
	Puducherry	463	0	10.3	9.7	-0.1	27	0.00
ER	Bihar	5548	0	103.2	94.5	-0.5	358	0.09
	DVC	3189	0	69.5	-19.8	1.8	402	0.00
	Jharkhand	1589	0	30.4	21.6	-1.8	225	0.57
	Odisha	5564	0	121.7	49.7	-0.1	523	0.00
	West Bengal	8249	0	172.2	60.2	-2.1	241	0.00
	Sikkim	62	0	0.8	0.3	0.6	57	0.00
	Railways_ER ISTS	16	0	0.2	0.2	0.0	11	0.00
NER	Arunachal Pradesh	168	0	3.1	3.0	-0.4	52	0.00
	Assam	1971	0	37.9	30.4	0.8	175	0.00
	Manipur	187	0	2.8	3.0	-0.1	30	0.00
	Meghalaya	322	0	5.7	2.0	-0.3	76	0.00
	Mizoram	119	0	1.9	1.3	-0.3	14	0.00
	Nagaland	162	0	3.0	2.6	-0.1	29	0.00
	Tripura	284	0	5.0	4.6	0.1	38	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	40.9	14.9	-23.9	-25.8
Day Peak (MW)	2063.8	600.0	-1077.0	-1276.4

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	219.7	-293.0	207.4	-131.6	-2.5	0.0
Actual(MU)	212.3	-306.6	237.1	-139.6	-8.3	-5.1
O/D/U/D(MU)	-7.3	-13.6	29.7	-8.0	-5.8	-5.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3478	10927	4978	3066	355	22803	47
State Sector	4676	9860	7259	3320	129	25244	53
Total	8154	20787	12237	6386	484	48047	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	801	1466	672	599	17	3555	72
Lignite	30	15	37	0	0	82	2
Hydro	198	91	77	93	30	488	10
Nuclear	25	53	67	0	0	144	3
Gas, Naptha & Diesel	23	51	6	0	27	107	2
RES (Wind, Solar, Biomass & Others)	173	147	214	4	1	538	11
Total	1249	1822	1073	696	74	4915	100

Share of RES in total generation (%)	13.83	8.06	19.97	0.57	0.73	10.95
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.62	15.95	33.38	13.90	40.41	23.82

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.039
Based on State Max Demands	1.074

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	207184	11:45	5
Non-Solar hr	201716	19:09	1464

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: 06-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	752	0.0	18.5	-18.5
2	HVDC	PUSAULI B/B	-	0	97	0.0	1.9	-1.9
3	765 kV	GAYA-VARANASI	2	64	516	0.0	5.2	-5.2
4	765 kV	SASARAM-FATEHPUR	1	0	402	0.0	6.1	-6.1
5	765 kV	GAYA-BALIA	1	0	530	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	17	102	0.0	0.8	-0.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	93	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	746	0.0	11.8	-11.8
9	400 kV	PATNA-BALIA	2	0	405	0.0	7.3	-7.3
10	400 kV	NAUBATPUR-BALIA	2	0	423	0.0	7.4	-7.4
11	400 kV	BIHARSHARIFF-BALIA	2	33	248	0.0	2.4	-2.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	355	0.0	5.9	-5.9
13	400 kV	BIHARSHARIFF-VARANASI	2	67	197	0.0	1.2	-1.2
14	220 kV	SAHUPURI-KARAMNASA	1	0	87	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	0.4	0.0	0.4
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	0.4	78.8	-78.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	992	53	14.7	0.0	14.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1088	592	4.9	0.0	4.9
3	765 kV	JHARSUGUDA-DURG	2	0	445	0.0	6.9	-6.9
4	400 kV	JHARSUGUDA-RAIGARH	4	39	405	0.0	4.0	-4.0
5	400 kV	RANCHI-SIPAT	2	206	216	0.0	0.4	-0.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	164	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	165	0	2.1	0.0	2.1
					ER-WR	21.7	13.6	8.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	545	0.0	10.6	-10.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	44.7	-44.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3000	0.0	56.2	-56.2
4	400 kV	TALCHER-I/C	2	257	194	0.0	0.1	-0.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	111.5	-111.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	119	306	0.4	1.9	-1.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	278	409	0.0	0.5	-0.5
3	220 kV	ALIPURDUAR-SALAKATI	2	37	80	0.0	0.3	-0.3
					ER-NER	0.4	2.8	-2.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	0.0	12.2	-12.2
					NER-NR	0.0	12.2	-12.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2006	0.0	46.9	-46.9
2	HVDC	VINDHYACHAL B/B	-	45	0	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1451	0.0	34.7	-34.7
4	765 kV	GWALIOR-AGRA	2	53	1459	0.0	17.8	-17.8
5	765 kV	GWALIOR-PHAGI	2	485	979	2.1	12.0	-9.9
6	765 kV	JABALPUR-ORAI	2	0	740	0.0	17.1	-17.1
7	765 kV	GWALIOR-ORAI	1	638	0	9.9	0.0	9.9
8	765 kV	SATNA-ORAI	1	0	877	0.0	17.7	-17.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1373	109	13.0	0.0	13.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2464	0.0	34.8	-34.8
11	400 kV	ZERDA-KANKROLI	1	272	11	2.8	0.0	2.8
12	400 kV	ZERDA -BHINMAL	1	592	26	5.3	0.0	5.3
13	400 kV	VINDHYACHAL -RIHAND	1	963	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	328	318	0.0	0.3	-0.3
15	220 kV	BHANPURA-RANPUR	1	0	102	0.0	1.6	-1.6
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
17	220 kV	MEHGAON-AURAIYA	1	149	0	2.1	0.0	2.1
18	220 kV	MALANPUR-AURAIYA	1	122	0	1.5	0.0	1.5
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	185.1	-125.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1008	0.0	22.6	-22.6
2	HVDC	RAIGARH-PUGALUR	2	0	5512	0.0	90.3	-90.3
3	765 kV	SOLAPUR-RAICHUR	2	0	1925	0.0	25.7	-25.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2917	0.0	50.7	-50.7
5	400 kV	KOLHAPUR-KUDGI	2	1004	0	14.0	0.0	14.0
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	114	2.3	0.0	2.3
					WR-SR	16.3	189.1	-172.8

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)	736	490	624	14.97
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1039	963	968	23.23
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	163	-27	35	0.85
	NER	132kV GELEPHU-SALAKATI	45	15	26	0.63
	NER	132kV MOTANGA-RANGIA	64	40	51	1.23
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.16
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	600	481	570	13.69
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-925	-712	-869	-20.87
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1276	-913	-1074	-25.78
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-152	0	-127	-3.04

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 06-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	4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.35
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.35

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	36.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.62
Nepal	0.00	0.00	11.42	0.00	0.00	0.34	0.00	0.00	11.76
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	36.62	0.00	11.42	0.00	0.00	0.34	0.00	0.00	48.38

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	36.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.62
Nepal	0.00	0.00	11.42	0.00	0.00	0.34	0.00	0.00	11.76
Bangladesh	-4.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.35
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	32.27	0.00	11.42	0.00	0.00	0.34	0.00	0.00	44.03