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: 29th 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 28.10.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th 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: 29-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)	52200	61652	48838	21656	2836	187182
Peak Shortage (MW)	0	0	0	353	25	378
Energy Met (MU)	1141	1507	1227	467	54	4395
Hydro Gen (MU)	151	45	67	44	20	326
Wind Gen (MU)	15	23	34	-	-	72
Solar Gen (MU)*	99.39	61.02	112.53	2.81	1.25	277
Energy Shortage (MU)	0.61	0.00	0.00	1.73	0.14	2.48
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55867	70559	60963	21747	3024	206604
Time Of Maximum Demand Met	18:37	10:55	11:47	18:54	17:40	10:45

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	0.053	0.08	1.64	10.33	12.06	74.64	13.30

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	7053	0	145.5	50.3	-1.1	230	0.00
	Haryana	7191	0	152.4	93.8	-1.0	164	0.00
	Rajasthan	14996	0	299.3	109.5	-0.1	535	0.00
	Delhi	3817	0	73.9	66.2	-0.4	209	0.00
	UP	17900	0	338.6	109.7	-3.2	1147	0.00
	Uttarakhand	1962	0	39.2	27.9	0.1	133	0.26
	HP	1740	0	33.3	23.3	-0.5	26	0.00
	J&K(UT) & Ladakh(UT)	2385	152	51.6	39.3	4.4	617	0.35
	Chandigarh	198	0	3.5	3.4	0.0	23	0.00
	Railways_NR ISTS	184	0	3.6	3.5	0.0	16	0.00
WR	Chhattisgarh	4743	0	101.5	41.0	-0.7	235	0.00
	Gujarat	20961	0	430.9	223.1	-0.2	458	0.00
	MP	15063	0	308.0	183.0	-4.1	421	0.00
	Maharashtra	27277	0	591.1	243.2	-5.0	567	0.00
	Goa	660	0	13.8	13.4	0.2	38	0.00
	DNHDDPDCL	1272	0	29.3	29.3	0.0	40	0.00
	AMNSIL	873	0	19.8	10.2	-0.2	270	0.00
	BALCO	522	0	12.4	12.6	-0.2	5	0.00
SR	Andhra Pradesh	12532	0	241.0	100.6	-0.5	636	0.00
	Telangana	12236	0	243.8	113.5	-0.9	541	0.00
	Karnataka	15789	0	283.4	99.4	-0.7	787	0.00
	Kerala	4011	0	82.7	58.6	2.2	454	0.00
	Tamil Nadu	17203	0	365.5	219.3	-1.1	626	0.00
	Puducherry	448	0	10.3	9.8	-0.3	23	0.00
ER	Bihar	4864	208	100.2	89.2	-0.2	302	0.99
	DVC	3443	0	71.4	-42.2	0.5	606	0.00
	Jharkhand	1558	0	31.3	24.6	-1.9	190	0.74
	Odisha	4561	0	102.4	19.5	-0.9	366	0.00
	West Bengal	7702	0	160.1	35.6	-2.5	167	0.00
	Sikkim	76	0	1.1	1.0	0.2	37	0.00
	Railways_ER ISTS	35	0	0.2	0.2	0.0	10	0.00
NER	Arunachal Pradesh	145	0	2.5	2.6	-0.3	18	0.00
	Assam	1856	0	34.1	25.1	0.9	88	0.00
	Manipur	200	0	2.6	2.7	-0.1	24	0.00
	Meghalaya	316	29	5.9	3.9	-0.1	57	0.14
	Mizoram	132	0	1.9	1.4	-0.3	16	0.00
	Nagaland	143	0	2.5	2.3	0.0	12	0.00
	Tripura	262	0	4.8	4.5	-0.2	30	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	5.3	12.2	-25.0	-22.6
Day Peak (MW)	328.5	557.0	-1072.0	-1182.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	194.8	-182.8	150.6	-159.2	-3.5	0.0
Actual(MU)	188.2	-161.8	162.7	-187.0	-4.8	-2.8
O/D/U/D(MU)	-6.7	21.0	12.1	-27.8	-1.3	-2.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7338	8569	4278	4151	205	24540	54
State Sector	6961	9411	3036	1430	121	20958	46
Total	14299	17979	7314	5581	326	45498	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	702	1600	771	664	17	3754	79
Lignite	29	13	61	0	0	103	2
Hydro	151	45	67	44	20	326	7
Nuclear	15	53	71	0	0	139	3
Gas, Naptha & Diesel	10	16	6	0	28	60	1
RES (Wind, Solar, Biomass & Others)	117	86	176	4	1	384	8
Total	1024	1812	1152	713	66	4766	100

Share of RES in total generation (%)	11.42	4.73	15.30	0.54	1.90	8.06
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.66	10.12	27.22	6.78	31.74	17.82

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.046

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	206604	10:45	0
Non-Solar hr	195991	18:43	815

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: 29-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	702	0.0	17.7	-17.7
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	588	0.0	9.6	-9.6
4	765 kV	SASARAM-FATEHPUR	1	0	477	0.0	8.8	-8.8
5	765 kV	GAYA-BALIA	1	0	558	0.0	9.7	-9.7
6	400 kV	PUSAULI-VARANASI	1	31	53	0.0	0.5	-0.5
7	400 kV	PUSAULI -ALLAHABAD	1	5	79	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	533	0.0	9.3	-9.3
9	400 kV	PATNA-BALIA	2	0	367	0.0	6.8	-6.8
10	400 kV	NAUBATPUR-BALIA	2	0	389	0.0	6.9	-6.9
11	400 kV	BIHARSHARIFF-BALIA	2	0	180	0.0	2.7	-2.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	280	0.0	5.3	-5.3
13	400 kV	BIHARSHARIFF-VARANASI	2	0	287	0.0	3.4	-3.4
14	220 kV	SAHUPURI-KARAMNASA	1	0	133	0.0	1.3	-1.3
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	83.9	-83.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	298	738	0.0	7.3	-7.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	382	472	1.6	0.0	1.6
3	765 kV	JHARSUGUDA-DURG	2	0	699	0.0	13.9	-13.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	659	0.0	12.1	-12.1
5	400 kV	RANCHI-SIPAT	2	26	217	0.0	1.7	-1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	153	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	78	74	0.7	0.0	0.7
					ER-WR	2.3	37.1	-34.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	555	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	44.5	-44.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2734	0.0	49.5	-49.5
4	400 kV	TALCHER-I/C	2	261	157	4.1	0.0	4.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	106.6	-106.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	235	0.0	3.7	-3.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	107	427	0.0	6.3	-6.3
3	220 kV	ALIPURDUAR-SALAKATI	2	6	84	0.0	1.3	-1.3
					ER-NER	0.0	11.3	-11.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	705	0.0	17.1	-17.1
					NER-NR	0.0	17.1	-17.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1	0.0	0.0	0.0
2	HVDC	VINDHYACHAL B/B	-	0	246	0.0	6.0	-6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	168	1327	0.1	18.5	-18.4
5	765 kV	GWALIOR-PHAGI	2	0	2165	0.0	35.1	-35.1
6	765 kV	JABALPUR-ORAI	2	0	775	0.0	25.7	-25.7
7	765 kV	GWALIOR-ORAI	1	881	0	15.7	0.0	15.7
8	765 kV	SATNA-ORAI	1	0	1017	0.0	21.4	-21.4
9	765 kV	BANASKANTHA-CHITORGARH	2	2050	0	31.9	0.0	31.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2170	0.0	39.8	-39.8
11	400 kV	ZERDA-KANKROLI	1	322	0	4.8	0.0	4.8
12	400 kV	ZERDA -BHINMAL	1	562	0	6.5	0.0	6.5
13	400 kV	VINDHYACHAL -RIHAND	1	958	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	267	373	0.9	2.7	-1.8
15	220 kV	BHANPURA-RANPUR	1	0	164	0.0	2.9	-2.9
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6
17	220 kV	MEHGAON-AURAIYA	1	113	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	86	0	1.0	0.0	1.0
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	84.5	177.9	-93.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1011	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	4004	0.0	72.6	-72.6
3	765 kV	SOLAPUR-RAICHUR	2	1649	53	17.7	0.0	17.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2086	0.0	29.2	-29.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	1893	0.0	26.5	-26.5
6	400 kV	KOLHAPUR-KUDGI	2	1834	0	29.6	0.0	29.6
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	106	2.1	0.0	2.1
					WR-SR	49.4	152.3	-102.9

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)	89	36	54	1.30
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	262	217	252	6.04
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-147	-96	-115	-2.77
	NER	132kV GELEPHU-SALAKATI	9	-5	3	0.08
	NER	132kV MOTANGA-RANGIA	37	0	29	0.69
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.00
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	557	0	508	12.18
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-916	-820	-904	-21.70
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1182	-797	-940	-22.57
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-156	0	-136	-3.26

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 29-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	21.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.67
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.67

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	4.63	0.00	1.05	0.00	0.00	0.00	0.00	0.00	5.68
Nepal	2.63	0.00	12.40	0.00	0.00	0.00	0.00	0.00	15.03
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	7.26	0.00	13.45	0.00	0.00	0.00	0.00	0.00	20.71

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	4.63	0.00	1.05	0.00	0.00	0.00	0.00	0.00	5.68
Nepal	2.63	0.00	12.40	0.00	0.00	0.00	0.00	0.00	15.03
Bangladesh	-21.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.67
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-14.41	0.00	13.45	0.00	0.00	0.00	0.00	0.00	-0.96