



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, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 13th October 2023

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 12.10.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-अक्टूबर-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध 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 12th October 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 13-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)	59562	64668	48735	25472	3118	201555
Peak Shortage (MW)	137	386	0	1202	217	1942
Energy Met (MU)	1399	1519	1215	564	61	4758
Hydro Gen (MU)	184	104	78	74	31	471
Wind Gen (MU)	18	31	39	-	-	87
Solar Gen (MU)*	129.90	60.75	116.29	2.95	1.12	311
Energy Shortage (MU)	3.15	2.94	0.00	6.86	1.61	14.56
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65197	70455	59662	25525	3162	218918
Time Of Maximum Demand Met	11:53	15:25	11:51	00:01	18:08	11:08

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	0.00	0.82	8.78	9.61	72.01	18.39

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	10419	0	207.2	93.3	0.2	168	0.00
	Haryana	9183	0	198.9	139.7	-0.5	234	1.07
	Rajasthan	14849	0	307.6	91.5	-2.8	329	0.00
	Delhi	4863	0	101.7	80.1	-1.9	94	0.00
	UP	20476	0	450.2	188.3	-1.3	1263	0.96
	Uttarakhand	2119	120	42.9	29.0	0.2	140	0.20
	HP	1741	0	34.2	19.0	1.4	242	0.00
	J&K(UT) & Ladakh(UT)	2377	0	48.4	31.1	5.7	623	0.92
	Chandigarh	239	0	4.6	4.6	0.0	27	0.00
Railways NR ISTS	159	0	3.4	2.8	0.6	51	0.00	
WR	Chhattisgarh	5126	67	119.8	62.1	3.6	593	2.67
	Gujarat	21291	0	427.2	156.4	0.7	511	0.00
	MP	13098	0	291.5	168.8	1.4	845	0.00
	Maharashtra	27871	0	607.2	211.6	-2.1	583	0.27
	Goa	720	0	14.9	12.9	1.7	97	0.00
	DNHDDPDCL	1311	0	30.1	29.9	0.2	70	0.00
	AMNSIL	719	0	15.8	3.4	-0.1	239	0.00
	BALCO	521	0	12.4	12.5	-0.1	7	0.00
SR	Andhra Pradesh	12194	0	237.9	116.2	-1.5	527	0.00
	Telangana	15139	0	284.6	143.1	-0.4	453	0.00
	Karnataka	13486	0	247.3	88.1	-1.8	661	0.00
	Kerala	3891	0	81.4	59.2	1.4	341	0.00
	Tamil Nadu	16554	0	353.3	199.1	4.9	874	0.00
	Puducherry	474	0	10.8	9.7	0.3	64	0.00
ER	Bihar	6439	390	132.9	126.3	0.8	423	5.17
	DVC	3215	0	71.3	-38.0	0.5	298	0.00
	Jharkhand	1596	0	35.0	25.5	-2.0	176	1.68
	Odisha	5354	0	114.8	34.2	-1.6	226	0.00
	West Bengal	9625	0	208.8	88.5	0.1	291	0.00
	Sikkim	69	0	1.1	1.0	0.0	15	0.00
Railways ER ISTS	12	0	0.1	0.2	0.0	10	0.00	
NER	Arunachal Pradesh	159	0	2.7	2.4	0.1	73	0.00
	Assam	2047	217	40.2	30.1	2.0	279	1.10
	Manipur	192	0	2.9	3.0	-0.1	28	0.00
	Meghalaya	292	37	5.2	1.1	-0.2	152	0.51
	Mizoram	119	0	1.9	0.9	-0.3	7	0.00
	Nagaland	144	0	2.7	2.7	0.0	18	0.00
Tripura	321	0	5.8	5.6	0.1	76	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	25.8	15.1	-24.5	-12.3
Day Peak (MW)	1371.0	593.0	-1082.0	-549.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	264.7	-318.3	170.2	-109.9	-6.7	0.0
Actual(MU)	244.5	-310.1	183.4	-118.1	-9.1	-9.4
O/D/U/D(MU)	-20.2	8.2	13.2	-8.2	-2.4	-9.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2123	7894	4578	3726	240	18560	44
State Sector	7291	8485	5376	2490	129	23771	56
Total	9413	16379	9954	6216	369	42330	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	790	1602	744	663	18	3816	74
Lignite	22	18	33	0	0	73	1
Hydro	184	104	78	74	31	471	9
Nuclear	25	54	70	0	0	148	3
Gas, Naptha & Diesel	63	85	6	0	28	181	4
RES (Wind, Solar, Biomass & Others)	172	93	184	4	1	455	9
Total	1255	1955	1116	742	77	5145	100

Share of RES in total generation (%)	13.69	4.78	16.53	0.57	1.45	8.84
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.27	12.84	29.79	10.58	41.68	20.87

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.043

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	218918	11:08	98
Non-Solar hr	205291	18:51	1852

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: 13-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	502	0.0	11.7	-11.7
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	112	292	0.0	2.4	-2.4
4	765 kV	SASARAM-FATEHPUR	1	0	216	0.0	3.4	-3.4
5	765 kV	GAYA-BALIA	1	0	464	0.0	8.8	-8.8
6	400 kV	PUSAULI-VARANASI	1	0	38	0.0	0.5	-0.5
7	400 kV	PUSAULI-ALLAHABAD	1	0	39	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	593	0.0	9.1	-9.1
9	400 kV	PATNA-BALIA	2	0	389	0.0	8.8	-8.8
10	400 kV	NAUBATPUR-BALIA	2	0	391	0.0	7.1	-7.1
11	400 kV	BIHARSHARIFF-BALIA	2	51	166	0.0	1.4	-1.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	329	0.0	5.3	-5.3
13	400 kV	BIHARSHARIFF-VARANASI	2	46	159	0.0	1.6	-1.6
14	220 kV	SAHUPURI-KARAMNANA	1	1	85	0.0	1.4	-1.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	35	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.6	63.5	-62.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	761	931	3.2	0.0	3.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	977	0	14.9	0.0	14.9
3	765 kV	JHARSUGUDA-DURG	2	0	502	0.0	5.0	-5.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	534	0.0	7.0	-7.0
5	400 kV	RANCHI-SIPAT	2	206	0	3.1	0.0	3.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	199	0.0	3.6	-3.6
7	220 kV	BUDHIPADAR-KORBA	2	35	84	0.1	0.0	0.1
ER-WR						21.3	15.6	5.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	560	0.0	12.7	-12.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2471	0.0	46.0	-46.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2535	0.0	42.1	-42.1
4	400 kV	TALCHER-I/C	2	270	668	0.0	1.3	-1.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	100.8	-100.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	5	256	0.0	2.5	-2.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	129	290	0.0	1.3	-1.3
3	220 kV	ALIPURDUAR-SALAKATI	2	8	93	0.0	0.9	-0.9
ER-NER						0.0	4.6	-4.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	705	0.0	14.6	-14.6
NER-NR						0.0	14.6	-14.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2498	0.0	58.8	-58.8
2	HVDC	VINDHYACHAL B/B	-	226	53	4.5	0.3	4.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1910	0.0	48.3	-48.3
4	765 kV	GWALIOR-AGRA	2	0	1322	0.0	22.3	-22.3
5	765 kV	GWALIOR-PHAGI	2	26	1102	0.0	14.8	-14.8
6	765 kV	JABALPUR-ORAI	2	0	741	0.0	26.2	-26.2
7	765 kV	GWALIOR-ORAI	1	660	0	11.6	0.0	11.6
8	765 kV	SATNA-ORAI	1	0	771	0.0	16.6	-16.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1213	18	12.7	0.0	12.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2245	0.0	43.8	-43.8
11	400 kV	ZERDA-KANKROLI	1	154	4	1.4	0.0	1.4
12	400 kV	ZERDA -BHINMAL	1	410	163	1.7	0.0	1.7
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUALPUR	2	231	233	0.0	0.9	-0.9
15	220 kV	BHANPURA-RANPUR	1	0	136	0.0	1.4	-1.4
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.6	-2.6
17	220 kV	MEHGAON-AURAIYA	1	151	0	2.7	0.0	2.7
18	220 kV	MALANPUR-AURAIYA	1	115	0	2.0	0.0	2.0
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						58.8	236.0	-177.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1008	0.0	13.1	-13.1
2	HVDC	RAIGARH-PUGALUR	2	0	6031	0.0	91.5	-91.5
3	765 kV	SOLAPUR-RAICHUR	2	605	2033	1.4	10.2	-8.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2656	0.0	39.5	-39.5
5	400 kV	KOLHAPUR-KUDGI	2	1376	0	23.4	0.0	23.4
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	116	2.3	0.0	2.3
WR-SR						27.2	154.3	-127.1

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 MANGDECHHU HEP 4*180MW)	414	204	310	7.44	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	753	604	658	15.78	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	90	3	49	1.18	
	NER	132kV GELEPHU-SALAKATI	19	8	11	0.26	
	NER	132kV MOTANGA-RANGIA	62	37	49	1.18	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.44	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	593	470	570	13.69	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-926	-775	-888	-21.32	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-549	-451	-514	-12.33	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-156	0	-133	-3.18	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 13-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	21.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.34
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.34

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	25.02	0.00	1.49	0.00	0.00	0.00	0.00	0.00	26.51
Nepal	2.63	0.00	10.86	0.00	0.00	0.98	0.00	0.00	14.47
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	27.65	0.00	12.35	0.00	0.00	0.98	0.00	0.00	40.98

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	25.02	0.00	1.49	0.00	0.00	0.00	0.00	0.00	26.51
Nepal	2.63	0.00	10.86	0.00	0.00	0.98	0.00	0.00	14.47
Bangladesh	-21.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.34
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	6.31	0.00	12.35	0.00	0.00	0.98	0.00	0.00	19.64