



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रीड 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: 14th 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 13.10.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-अक्टूबर-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 13th October 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 14-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)	60244	65518	49160	25311	3114	203347
Peak Shortage (MW)	220	100	0	711	167	1198
Energy Met (MU)	1397	1526	1234	558	59	4773
Hydro Gen (MU)	179	104	68	75	30	456
Wind Gen (MU)	22	32	31	-	-	85
Solar Gen (MU)*	133.75	59.64	119.60	2.91	1.14	317
Energy Shortage (MU)	2.34	0.43	0.00	2.91	0.87	6.55
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65576	70861	60640	25335	3225	220362
Time Of Maximum Demand Met	11:28	14:52	11:51	18:47	17:44	11:29

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	0.032	0.00	0.13	5.00	5.13	75.19	19.69

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	9679	0	197.5	81.5	1.2	227	0.00
	Haryana	9412	0	199.2	138.1	0.4	185	0.77
	Rajasthan	15151	0	311.3	99.1	-0.2	431	0.34
	Delhi	4958	0	104.4	79.4	-1.2	105	0.00
	UP	20642	0	451.9	191.9	0.7	1408	0.00
	Uttarakhand	2140	0	42.9	27.6	0.3	143	0.00
	HP	1817	0	34.1	20.2	0.7	145	0.05
	J&K(UT) & Ladakh(UT)	2339	0	48.1	35.6	4.0	462	1.18
	Chandigarh	238	0	4.5	4.6	-0.1	22	0.00
Railways NR ISTS	167	0	3.3	3.1	0.3	56	0.00	
WR	Chhattisgarh	5325	0	121.2	61.2	-0.7	395	0.43
	Gujarat	21182	0	425.8	164.3	-1.6	535	0.00
	MP	13180	0	294.3	175.7	-0.1	755	0.00
	Maharashtra	28007	0	612.3	223.8	-4.4	642	0.00
	Goa	691	0	14.8	13.9	0.6	46	0.00
	DNHDDPDCL	1255	0	30.0	30.4	-0.4	24	0.00
	AMNSIL	657	0	15.0	2.2	0.3	205	0.00
	BALCO	521	0	12.4	12.5	-0.1	11	0.00
SR	Andhra Pradesh	12189	0	238.7	112.5	-2.1	551	0.00
	Telangana	15149	0	293.8	152.9	-0.3	554	0.00
	Karnataka	14006	0	252.8	89.4	-2.0	626	0.00
	Kerala	3913	0	79.9	59.9	1.3	258	0.00
	Tamil Nadu	16197	0	357.8	214.9	3.5	457	0.00
	Puducherry	454	0	10.5	10.0	-0.3	31	0.00
ER	Bihar	6475	122	132.7	121.9	0.7	350	1.29
	DVC	3110	0	69.6	-35.7	0.1	316	0.00
	Jharkhand	1661	256	33.6	25.3	-2.4	153	1.61
	Odisha	5416	0	115.6	31.6	-0.8	540	0.00
	West Bengal	9407	0	204.7	83.7	-0.2	351	0.00
	Sikkim	73	0	1.0	1.1	0.0	23	0.00
	Railways ER ISTS	14	0	0.3	0.1	0.1	11	0.00
NER	Arunachal Pradesh	149	0	2.7	2.3	0.2	62	0.00
	Assam	2048	66	38.4	29.0	1.2	214	0.36
	Manipur	192	0	2.8	2.9	-0.1	16	0.00
	Meghalaya	332	16	5.4	1.4	-0.2	33	0.51
	Mizoram	129	0	1.9	0.8	-0.2	10	0.00
	Nagaland	156	0	2.6	2.5	-0.1	60	0.00
	Tripura	316	0	5.6	5.7	-0.2	39	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	23.8	15.2	-24.3	-12.3
Day Peak (MW)	1204.1	625.0	-1080.0	-549.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	252.7	-334.5	193.0	-104.3	-6.9	0.0
Actual(MU)	245.4	-311.5	184.6	-117.2	-8.4	-7.2
O/D/U/D(MU)	-7.3	23.0	-8.4	-12.9	-1.6	-7.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2674	6984	3868	3476	240	17241	43
State Sector	8171	8225	4156	2390	129	23071	57
Total	10845	15209	8024	5866	369	40312	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	783	1608	765	663	16	3835	75
Lignite	21	18	42	0	0	82	2
Hydro	179	104	68	75	30	456	9
Nuclear	24	53	70	0	0	147	3
Gas, Naptha & Diesel	60	90	6	0	27	183	4
RES (Wind, Solar, Biomass & Others)	161	93	179	4	1	438	9
Total	1230	1966	1130	742	74	5142	100

Share of RES in total generation (%)	13.11	4.71	15.87	0.54	1.53	8.52
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.65	12.69	28.08	10.61	42.27	20.26

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.038

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	220362	11:29	0
Non-Solar hr	205296	18:44	1338

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: 14-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	12.0	-12.0
2	HVDC	PUSAULI B/B	-	0	48	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	167	270	0.0	1.5	-1.5
4	765 kV	SASARAM-FATEHPUR	1	0	260	0.0	3.5	-3.5
5	765 kV	GAYA-BALIA	1	0	450	0.0	8.1	-8.1
6	400 kV	PUSAULI-VARANASI	1	4	38	0.0	0.4	-0.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	50	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	510	0.0	7.2	-7.2
9	400 kV	PATNA-BALIA	2	0	389	0.0	8.2	-8.2
10	400 kV	NAUBATPUR-BALIA	2	0	371	0.0	5.9	-5.9
11	400 kV	BIHARSHARIFF-BALIA	2	61	164	0.0	1.2	-1.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	295	0.0	4.5	-4.5
13	400 kV	BIHARSHARIFF-VARANASI	2	39	147	0.0	1.2	-1.2
14	220 kV	SAHUPURI-KARAMNANA	1	0	87	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-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	57.2	-56.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	501	280	2.9	0.0	2.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	919	14	13.6	0.0	13.6
3	765 kV	JHARSUGUDA-DURG	2	0	382	0.0	6.0	-6.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	561	0.0	8.6	-8.6
5	400 kV	RANCHI-SIPAT	2	183	61	1.9	0.0	1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	204	0.0	3.7	-3.7
7	220 kV	BUDHIPADAR-KORBA	2	72	40	0.5	0.0	0.5
ER-WR						18.9	18.3	0.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	561	0.0	12.7	-12.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1984	0.0	41.2	-41.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2521	0.0	46.1	-46.1
4	400 kV	TALCHER-I/C	2	270	170	3.5	0.0	3.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	100.0	-100.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	13	252	0.0	3.2	-3.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	124	254	0.0	2.0	-2.0
3	220 kV	ALIPURDUAR-SALAKATI	2	12	80	0.0	0.8	-0.8
ER-NER						0.0	6.0	-6.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	655	0.0	15.7	-15.7
NER-NR						0.0	15.7	-15.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2507	0.0	58.5	-58.5
2	HVDC	VINDHYACHAL B/B	-	0	53	0.0	1.2	-1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1911	0.0	48.3	-48.3
4	765 kV	GWALIOR-AGRA	2	78	1238	0.0	19.3	-19.3
5	765 kV	GWALIOR-PHAGI	2	55	1120	0.0	16.8	-16.8
6	765 kV	JABALPUR-ORAI	2	0	735	0.0	24.9	-24.9
7	765 kV	GWALIOR-ORAI	1	631	0	11.7	0.0	11.7
8	765 kV	SATNA-ORAI	1	0	823	0.0	17.4	-17.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1428	0	14.2	0.0	14.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2338	0.0	44.9	-44.9
11	400 kV	ZERDA-KANKROLI	1	177	2	1.8	0.0	1.8
12	400 kV	ZERDA -BHINMAL	1	530	86	3.1	0.0	3.1
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	240	234	0.0	0.9	-0.9
15	220 kV	BHANPURA-RANPUR	1	0	108	0.0	1.7	-1.7
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.7	-2.7
17	220 kV	MEHGAON-AURAIYA	1	164	0	2.8	0.0	2.8
18	220 kV	MALANPUR-AURAIYA	1	128	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						57.8	236.5	-178.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	20.5	-20.5
2	HVDC	RAIGARH-PUGALUR	2	0	5510	0.0	90.6	-90.6
3	765 kV	SOLAPUR-RAICHUR	2	772	1560	1.6	9.9	-8.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2720	0.0	40.7	-40.7
5	400 kV	KOLHAPUR-KUDGI	2	1599	0	25.6	0.0	25.6
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	115	2.3	0.0	2.3
WR-SR						29.4	161.7	-132.2

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 MANGDECHHU HEP 4*180MW)	304	205	257	6.17	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	699	536	618	14.82	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	107	8	64	1.54	
	NER	132kV GELEPHU-SALAKATI	23	5	12	0.29	
	NER	132kV MOTANGA-RANGIA	56	0	39	0.94	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-1	0	57	1.37	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	626	462	574	13.78	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-929	-765	-884	-21.22	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-549	-458	-511	-12.27	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-151	0	-128	-3.06	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 14-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	21.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.16
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.16

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	24.12	0.00	1.49	0.00	0.00	0.00	0.00	0.00	25.61
Nepal	2.63	0.00	11.14	0.00	0.00	0.96	0.00	0.00	14.73
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	26.75	0.00	12.63	0.00	0.00	0.96	0.00	0.00	40.34

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	24.12	0.00	1.49	0.00	0.00	0.00	0.00	0.00	25.61
Nepal	2.63	0.00	11.14	0.00	0.00	0.96	0.00	0.00	14.73
Bangladesh	-21.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.16
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	5.59	0.00	12.63	0.00	0.00	0.96	0.00	0.00	19.18