

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: 19th 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 18.10.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th October 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 19-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)	53762	65252	49146	23998	3065	195223
Peak Shortage (MW)	0	108	0	1213	21	1342
Energy Met (MU)	1119	1532	1223	529	58	4461
Hydro Gen (MU)	169	61	72	60	24	386
Wind Gen (MU)	12	42	23	-	-	77
Solar Gen (MU)*	131.76	59.46	121.44	2.68	1.01	316
Energy Shortage (MU)	0.76	0.52	0.00	3.92	0.13	5.33
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55785	70151	59425	24562	3163	203357
Time Of Maximum Demand Met	18:54	15:47	11:45	20:53	18:07	10:42

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	0.040	0.00	1.10	6.86	7.96	77.10	14.94

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	7160	0	143.3	45.1	-0.6	187	0.00
	Haryana	7659	0	158.2	100.9	-1.7	357	0.00
	Rajasthan	13372	0	275.7	80.0	-3.6	221	0.00
	Delhi	4095	0	80.7	63.8	-0.8	156	0.00
	UP	18841	0	335.3	100.8	-1.6	874	0.00
	Uttarakhand	1913	40	37.8	25.0	0.8	150	0.38
	HP	1836	32	33.0	20.3	0.2	197	0.38
	J&K(UT) & Ladakh(UT)	2321	0	48.0	38.0	-1.2	178	0.00
	Chandigarh	198	0	3.6	3.5	0.1	41	0.00
Railways NR ISTS	178	0	3.5	3.4	0.0	51	0.00	
WR	Chhattisgarh	5251	0	117.8	57.0	-1.4	130	0.00
	Gujarat	20498	0	418.2	159.1	0.7	576	0.00
	MP	13521	0	295.3	174.6	-1.4	722	0.00
	Maharashtra	28059	0	626.4	278.0	2.2	1088	0.52
	Goa	705	0	14.4	13.4	0.6	94	0.00
	DNHDDPDCL	1299	0	29.9	29.8	0.1	60	0.00
	AMNSIL	851	0	17.5	8.0	0.0	313	0.00
	BALCO	521	0	12.4	12.4	0.0	31	0.00
SR	Andhra Pradesh	12797	0	246.8	131.5	-0.6	567	0.00
	Telangana	14244	0	281.6	149.9	-0.3	519	0.00
	Karnataka	14715	0	269.8	100.4	-2.0	727	0.00
	Kerala	4099	0	82.2	61.4	1.1	256	0.00
	Tamil Nadu	16203	0	332.6	195.4	1.1	966	0.00
	Puducherry	449	0	10.2	9.7	-0.2	29	0.00
ER	Bihar	5568	0	113.5	104.3	-0.9	259	1.23
	DVC	3281	0	72.0	-28.8	2.2	367	0.00
	Jharkhand	1474	0	31.7	24.5	-0.7	316	2.70
	Odisha	5401	0	120.1	38.9	-1.6	236	0.00
	West Bengal	9139	0	190.8	62.7	-2.5	238	0.00
	Sikkim	86	0	1.2	0.8	0.4	50	0.00
Railways ER ISTS	14	0	0.2	0.2	0.0	6	0.00	
NER	Arunachal Pradesh	153	0	2.5	2.2	0.1	79	0.00
	Assam	2045	0	37.2	28.5	1.6	164	0.00
	Manipur	206	0	2.7	2.8	-0.2	21	0.00
	Meghalaya	326	21	5.7	3.2	-0.1	69	0.13
	Mizoram	124	0	1.8	1.5	-0.2	18	0.00
	Nagaland	154	0	2.7	2.5	-0.1	13	0.00
Tripura	293	0	5.6	6.5	0.1	33	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	14.9	12.3	-23.9	-12.4
Day Peak (MW)	769.0	579.0	-1070.0	-545.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	78.8	-179.3	188.8	-82.6	-5.7	0.0
Actual(MU)	57.3	-180.5	197.0	-77.1	-4.9	-8.2
O/D/U/D(MU)	-21.5	-1.2	8.2	5.5	0.8	-8.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4195	7864	3968	4811	205	21043	46
State Sector	6391	9699	4921	2990	230	24231	54
Total	10586	17563	8889	7801	435	45273	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	752	1592	737	610	16	3706	76
Lignite	21	17	47	0	0	84	2
Hydro	169	61	72	60	24	386	8
Nuclear	25	53	71	0	0	149	3
Gas, Naptha & Diesel	27	40	6	0	28	100	2
RES (Wind, Solar, Biomass & Others)	147	104	174	4	1	430	9
Total	1141	1866	1107	674	69	4857	100

Share of RES in total generation (%)	12.88	5.59	15.69	0.63	1.46	8.86
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.90	11.70	28.60	9.53	36.50	19.88

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.047
Based on State Max Demands	1.077

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	203357	10:42	120
Non-Solar hr	199833	18:32	1469

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: 19-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	48	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	427	68	4.1	0.0	4.1
4	765 kV	SASARAM-FATEHPUR	1	0	259	0.0	3.5	-3.5
5	765 kV	GAYA-BALIA	1	13	271	0.0	4.4	-4.4
6	400 kV	PUSAULI-VARANASI	1	0	90	0.0	1.4	-1.4
7	400 kV	PUSAULI-ALLAHABAD	1	43	18	0.3	0.0	0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	149	293	0.0	2.2	-2.2
9	400 kV	PATNA-BALIA	2	33	199	0.0	2.8	-2.8
10	400 kV	NAUBATPUR-BALIA	2	70	193	0.0	2.1	-2.1
11	400 kV	BIHARSHARIFF-BALIA	2	127	10	1.6	0.0	1.6
12	400 kV	MOTIHARI-GORAKHPUR	2	76	140	0.0	1.1	-1.1
13	400 kV	BIHARSHARIFF-VARANASI	2	217	38	1.7	0.0	1.7
14	220 kV	SAHUPURI-KARAMNANA	1	19	81	0.0	0.7	-0.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
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	8.1	31.4	-23.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	997	0	15.6	0.0	15.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1110	0	15.9	0.0	15.9
3	765 kV	JHARSUGUDA-DURG	2	0	463	0.0	8.8	-8.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	623	0.0	9.6	-9.6
5	400 kV	RANCHI-SIPAT	2	252	76	2.2	0.0	2.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	220	0.0	3.9	-3.9
7	220 kV	BUDHIPADAR-KORBA	2	135	18	1.1	0.0	1.1
					ER-WR	34.9	22.3	12.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	545	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1992	0.0	43.1	-43.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2513	0.0	47.4	-47.4
4	400 kV	TALCHER-I/C	2	255	192	1.7	0.0	1.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	102.9	-102.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	343	0.0	4.7	-4.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	160	343	0.0	3.4	-3.4
3	220 kV	ALIPURDUAR-SALAKATI	2	33	64	0.0	0.5	-0.5
					ER-NER	0.0	8.6	-8.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	695	0.0	13.8	-13.8
					NER-NR	0.0	13.8	-13.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	5	0	0.0	0.0	0.0
2	HVDC	VINDHYACHAL B/B	-	0	54	0.0	1.2	-1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1216	0.0	22.7	-22.7
4	765 kV	GWALIOR-AGRA	2	649	919	0.9	7.3	-6.5
5	765 kV	GWALIOR-PHAGI	2	321	1140	0.9	13.7	-12.8
6	765 kV	JABALPUR-ORAI	2	127	432	0.0	8.1	-8.1
7	765 kV	GWALIOR-ORAI	1	794	0	14.1	0.0	14.1
8	765 kV	SATNA-ORAI	1	0	620	0.0	12.8	-12.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1926	0	23.4	0.0	23.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2274	0.0	34.9	-34.9
11	400 kV	ZERDA-KANKROLI	1	297	0	3.9	0.0	3.9
12	400 kV	ZERDA -BHINMAL	1	704	68	7.1	0.0	7.1
13	400 kV	VINDHYACHAL -RIHAND	1	964	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	647	95	5.7	0.2	5.5
15	220 kV	BHANPURA-RANPUR	1	0	140	0.0	2.2	-2.2
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.2	-2.2
17	220 kV	MEHGAON-AURAIYA	1	130	0	2.0	0.0	2.0
18	220 kV	MALANPUR-AURAIYA	1	98	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	81.6	105.3	-23.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	4015	0.0	98.5	-98.5
3	765 kV	SOLAPUR-RAICHUR	2	1174	346	10.0	0.6	9.5
4	765 kV	WARDHA-NIZAMABAD	2	0	1834	28.7	0.0	28.7
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2106	0.0	33.3	-33.3
6	400 kV	KOLHAPUR-KUDGI	2	1564	0	29.8	0.0	29.8
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	117	2.3	0.0	2.3
					WR-SR	70.8	156.4	-85.6

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)	190	95	146	3.51
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	630	415	577	13.86
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-194	-43	-145	-3.47
	NER	132kV GELEPHU-SALAKATI	8	0	2	0.05
	NER	132kV MOTANGA-RANGIA	49	22	38	0.91
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.10
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	579	227	558	13.40
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-924	-750	-883	-21.19
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-546	-492	-518	-12.42
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-146	0	-113	-2.72

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 19-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	21.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.02
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.02

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	15.68	0.00	1.32	0.00	0.00	0.00	0.00	0.00	17.00
Nepal	2.63	0.00	11.24	0.00	0.00	0.15	0.00	0.00	14.02
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	18.31	0.00	12.56	0.00	0.00	0.15	0.00	0.00	31.02

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	15.68	0.00	1.32	0.00	0.00	0.00	0.00	0.00	17.00
Nepal	2.63	0.00	11.24	0.00	0.00	0.15	0.00	0.00	14.02
Bangladesh	-21.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.02
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-2.71	0.00	12.56	0.00	0.00	0.15	0.00	0.00	10.00