



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: 17th November 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 16.11.2023.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-नवंबर -2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेंकें 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 16th November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 17-Nov-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 19:00 hrs; from RLDCs)	47955	54144	46713	20249	2616	171677
Peak Shortage (MW)	0	0	0	226	0	226
Energy Met (MU)	1039	1337	1050	417	48	3891
Hydro Gen (MU)	127	37	43	20	12	240
Wind Gen (MU)	15	91	19	-	-	126
Solar Gen (MU)*	108.02	57.65	108.61	2.52	0.88	278
Energy Shortage (MU)	0.62	0.00	0.00	0.54	0.00	1.16
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51844	66488	49311	21094	2792	186130
Time Of Maximum Demand Met	18:21	11:02	11:58	17:38	17:27	10:53

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	0.039	0.00	0.67	4.81	5.49	71.28	23.24

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	6431	0	129.4	42.6	0.3	214	0.00
	Haryana	6437	0	125.2	99.1	-0.6	196	0.00
	Rajasthan	15203	0	291.3	114.0	-4.1	64	0.00
	Delhi	3536	0	66.4	57.2	-0.3	291	0.00
	UP	16729	0	300.6	97.3	-0.4	1244	0.15
	Uttarakhand	1901	0	34.9	25.0	0.1	191	0.00
	HP	1852	0	32.2	24.2	-0.3	50	0.00
	J&K(UT) & Ladakh(UT)	2549	0	51.6	43.4	2.8	574	0.47
	Chandigarh	188	0	3.4	3.4	-0.1	35	0.00
Railways NR ISTS	193	0	4.0	3.7	0.3	39	0.00	
WR	Chhattisgarh	4066	0	84.3	23.0	-0.2	160	0.00
	Gujarat	16922	0	325.5	157.4	-0.2	627	0.00
	MP	16612	0	321.7	194.6	-5.0	497	0.00
	Maharashtra	25851	0	533.8	209.7	-3.1	696	0.00
	Goa	694	0	12.7	13.3	-0.6	208	0.00
	DNHDDPDCL	1192	0	26.3	26.3	0.0	69	0.00
	AMNSIL	898	0	19.9	9.6	-0.1	332	0.00
	BALCO	524	0	12.4	12.5	-0.1	2	0.00
SR	Andhra Pradesh	10987	0	215.8	104.6	0.6	400	0.00
	Telangana	10103	0	209.1	93.9	0.3	502	0.00
	Karnataka	12873	0	242.0	116.5	0.5	929	0.00
	Kerala	4137	0	83.2	67.5	1.3	233	0.00
	Tamil Nadu	14997	0	292.3	164.1	-0.5	1099	0.00
	Puducherry	363	0	7.9	7.5	-0.3	50	0.00
ER	Bihar	4879	0	86.3	76.5	-1.5	199	0.00
	DVC	3228	0	70.1	-40.3	1.5	216	0.00
	Jharkhand	1556	0	30.0	22.8	-1.8	239	0.54
	Odisha	4507	0	95.4	34.7	-1.2	281	0.00
	West Bengal	6886	0	134.0	9.4	-2.9	150	0.00
	Sikkim	84	0	1.2	1.3	-0.1	14	0.00
Railways ER ISTS	14	0	0.1	0.1	0.0	12	0.00	
NER	Arunachal Pradesh	161	0	2.5	2.5	-0.1	46	0.00
	Assam	1630	0	28.4	21.7	0.4	330	0.00
	Manipur	187	0	2.7	2.7	-0.1	30	0.00
	Meghalaya	339	0	6.2	4.8	-0.1	211	0.00
	Mizoram	126	0	1.9	1.8	-0.2	22	0.00
	Nagaland	146	0	2.3	2.2	-0.1	27	0.00
Tripura	279	0	4.5	4.1	-0.2	53	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-0.9	12.5	-24.1	-23.0
Day Peak (MW)	-285.0	458.0	-1071.0	-1233.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	163.7	-160.4	160.7	-163.8	-0.2	0.0
Actual(MU)	149.7	-152.3	188.8	-192.3	1.9	-4.2
O/D/U/D(MU)	-14.0	8.2	28.1	-28.4	2.1	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4815	12494	5118	2966	155	25547	41
State Sector	10176	15446	7999	2967	145	36733	59
Total	14991	27940	13117	5933	300	62280	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	633	1342	607	655	12	3248	77
Lignite	28	15	47	0	0	90	2
Hydro	127	37	43	20	12	240	6
Nuclear	21	52	76	0	0	148	3
Gas, Naptha & Diesel	11	9	3	0	26	49	1
RES (Wind, Solar, Biomass & Others)	142	150	160	4	1	457	11
Total	961	1605	936	679	52	4232	100

Share of RES in total generation (%)	14.73	9.36	17.12	0.55	1.71	10.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.08	14.93	29.83	3.54	25.78	19.97

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.070

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	186130	10:53	0
Non-Solar hr	182874	18:00	226

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: 17-Nov-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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	48	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	1133	0.0	17.4	-17.4
4	765 kV	SASARAM-FATEHPUR	1	0	666	0.0	10.6	-10.6
5	765 kV	GAYA-BALIA	1	0	529	0.0	10.0	-10.0
6	400 kV	PUSAULI-VARANASI	1	11	53	0.0	0.4	-0.4
7	400 kV	PUSAULI-ALLAHABAD	1	5	57	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	805	0.0	13.5	-13.5
9	400 kV	PATNA-BALIA	2	0	576	0.0	9.9	-9.9
10	400 kV	NAUBATPUR-BALIA	2	0	620	0.0	10.6	-10.6
11	400 kV	BIHARSHARIFF-BALIA	2	0	401	0.0	5.8	-5.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	464	0.0	7.8	-7.8
13	400 kV	BIHARSHARIFF-VARANASI	2	0	433	0.0	6.1	-6.1
14	220 kV	SAHUPURI-KARAMNANA	1	0	119	0.0	1.9	-1.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.2	0.0	0.2
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						0.5	96.1	-95.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1191	0.0	16.2	-16.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1370	0.0	15.8	-15.8
3	765 kV	JHARSUGUDA-DURG	2	0	802	0.0	15.7	-15.7
4	400 kV	JHARSUGUDA-RAIGARH	4	23	476	0.0	5.5	-5.5
5	400 kV	RANCHI-SIPAT	2	5	419	0.0	4.8	-4.8
6	220 kV	BUDHIPADAR-RAIGARH	1	37	119	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	157	25	1.6	0.0	1.6
ER-WR						1.6	59.3	-57.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	552	0.0	5.7	-5.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1978	0.0	38.1	-38.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2866	0.0	54.5	-54.5
4	400 kV	TALCHER-I/C	2	657	596	6.0	0.0	6.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	98.4	-98.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	255	0	2.7	0.0	2.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	808	0	9.2	0.0	9.2
3	220 kV	ALIPURDUAR-SALAKATI	2	152	0	2.0	0.0	2.0
ER-NER						13.8	0.0	13.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	662	0	16.2	0.0	16.2
NER-NR						16.2	0.0	16.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	807	0.0	18.4	-18.4
2	HVDC	VINDHYACHAL B/B	-	430	0	10.3	0.0	10.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	980	0.0	19.1	-19.1
4	765 kV	GWALIOR-AGRA	2	0	1581	0.0	19.4	-19.4
5	765 kV	GWALIOR-PHAGI	2	0	1802	0.0	27.1	-27.1
6	765 kV	JABALPUR-ORAI	2	0	604	0.0	17.2	-17.2
7	765 kV	GWALIOR-ORAI	1	1049	0	16.7	0.0	16.7
8	765 kV	SATNA-ORAI	1	0	975	0.0	19.6	-19.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1726	159	17.2	0.0	17.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	1599	0.0	24.2	-24.2
11	400 kV	ZERDA-KANKROLI	1	221	0	2.6	0.0	2.6
12	400 kV	ZERDA -BHINMAL	1	489	95	2.6	0.0	2.6
13	400 kV	VINDHYACHAL -RIHAND	1	963	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	386	170	2.0	0.8	1.2
15	220 kV	BHANPURA-RANPUR	1	0	132	0.0	2.1	-2.1
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
17	220 kV	MEHGAON-AURAIYA	1	120	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	89	0	1.1	0.0	1.1
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						76.4	149.6	-73.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1005	0.0	10.7	-10.7
2	HVDC	RAIGARH-PUGALUR	2	0	4008	0.0	75.3	-75.3
3	765 kV	SOLAPUR-RAICHUR	2	1421	1270	6.2	8.6	-2.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2485	0.0	37.5	-37.5
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2209	0.0	32.6	-32.6
6	400 kV	KOLHAPUR-KUDGI	2	1270	0	20.0	0.0	20.0
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	116	2.1	0.0	2.1
WR-SR						28.3	164.7	-136.4

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)	84	-76	-11	-0.25
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	149	21	149	4.86
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-261	-161	-221	-5.31
	NER	132kV GELEPHU-SALAKATI	-33	-10	-18	-0.43
	NER	132kV MOTANGA-RANGIA	16	3	11	0.26
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.69
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	458	347	452	10.85
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-938	-648	-882	-21.17
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1233	-795	-957	-22.96
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-133	0	-121	-2.90

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 17-Nov-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	21.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.12
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.12

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89
Nepal	0.00	0.00	11.47	0.00	0.00	0.74	0.00	0.00	12.21
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	0.89	0.00	11.47	0.00	0.00	0.74	0.00	0.00	13.10

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	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89
Nepal	0.00	0.00	11.47	0.00	0.00	0.74	0.00	0.00	12.21
Bangladesh	-21.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.12
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-20.23	0.00	11.47	0.00	0.00	0.74	0.00	0.00	-8.02