



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: 12th 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 11.11.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-नवंबर -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 11th November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 12-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)	46472	56223	42692	21069	2683	169139
Peak Shortage (MW)	0	0	0	87	0	87
Energy Met (MU)	1059	1428	965	436	50	3938
Hydro Gen (MU)	133	33	34	24	15	238
Wind Gen (MU)	20	102	63	-	-	186
Solar Gen (MU)*	108.61	61.43	107.79	2.62	1.16	282
Energy Shortage (MU)	0.00	0.00	0.00	0.49	0.00	0.49
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52120	69047	44453	22132	2894	184825
Time Of Maximum Demand Met	10:19	10:30	14:56	17:49	17:18	10:56

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	0.059	0.00	0.49	4.12	4.61	73.20	22.20

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	6301	0	123.2	53.7	-0.4	252	0.00
	Haryana	6227	0	120.8	87.3	-2.9	170	0.00
	Rajasthan	14917	0	291.8	108.6	-7.3	243	0.00
	Delhi	3572	0	68.6	58.4	1.1	283	0.00
	UP	16431	0	328.0	124.3	-0.5	447	0.00
	Uttarakhand	1879	0	36.1	24.1	-0.4	250	0.00
	HP	1739	0	30.7	22.0	-0.6	25	0.00
	J&K(UT) & Ladakh(UT)	2577	0	53.3	46.9	1.9	204	0.00
	Chandigarh	182	0	3.2	3.5	-0.2	7	0.00
Railways NR ISTS	200	0	3.8	3.7	0.1	29	0.00	
WR	Chhattisgarh	4293	0	91.7	41.2	-1.7	219	0.00
	Gujarat	19020	0	364.0	182.3	-0.2	635	0.00
	MP	16699	0	332.4	207.4	-5.7	564	0.00
	Maharashtra	26400	0	566.3	227.5	-1.1	862	0.00
	Goa	664	0	13.9	12.7	0.6	42	0.00
	DNHDDPDCL	1198	0	27.8	27.6	0.2	68	0.00
	AMNSIL	890	0	19.9	10.2	0.0	314	0.00
	BALCO	520	0	12.4	12.5	-0.1	8	0.00
SR	Andhra Pradesh	9935	0	202.2	82.9	-1.4	508	0.00
	Telangana	9421	0	204.8	96.9	-0.7	347	0.00
	Karnataka	10485	0	205.6	88.0	-10.3	574	0.00
	Kerala	3896	0	79.2	62.2	1.0	322	0.00
	Tamil Nadu	12824	0	265.0	165.1	-4.5	354	0.00
	Puducherry	377	0	8.5	8.6	-0.7	47	0.00
ER	Bihar	4757	0	88.9	81.0	-2.7	209	0.00
	DVC	3427	0	71.0	-37.8	0.5	576	0.00
	Jharkhand	1563	87	30.3	23.3	-2.7	92	0.49
	Odisha	4780	0	97.3	23.2	-3.1	315	0.00
	West Bengal	7583	0	147.1	16.8	-3.0	181	0.00
	Sikkim	86	0	1.3	1.3	0.0	23	0.00
Railways ER ISTS	14	0	0.2	0.1	0.0	5	0.00	
NER	Arunachal Pradesh	153	0	2.7	2.6	-0.1	22	0.00
	Assam	1718	0	29.6	22.4	0.2	91	0.00
	Manipur	203	0	2.7	2.7	0.0	18	0.00
	Meghalaya	368	0	6.3	4.8	-0.2	165	0.00
	Mizoram	137	0	1.9	1.6	-0.4	9	0.00
	Nagaland	147	0	2.3	2.3	-0.1	7	0.00
Tripura	254	0	4.2	3.6	-0.1	36	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	0.5	10.5	-22.8	-22.4
Day Peak (MW)	72.1	473.4	-1074.0	-1179.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	198.2	-146.6	114.3	-165.8	-0.1	0.0
Actual(MU)	190.7	-152.0	114.4	-156.9	2.1	-1.8
O/D/U/D(MU)	-7.5	-5.5	0.1	8.9	2.1	-1.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5225	9029	4508	3626	205	22592	39
State Sector	9361	14938	9989	1625	130	36042	61
Total	14586	23966	14497	5251	335	58634	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	611	1417	559	638	11	3236	75
Lignite	24	16	52	0	0	91	2
Hydro	134	33	34	23	15	239	6
Nuclear	20	53	76	0	0	149	3
Gas, Naptha & Diesel	9	12	4	0	27	53	1
RES (Wind, Solar, Biomass & Others)	147	166	201	4	1	519	12
Total	945	1697	926	665	54	4288	100

Share of RES in total generation (%)	15.55	9.80	21.72	0.56	2.13	12.12
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.85	14.85	33.56	4.09	30.07	21.16

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.059

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	184825	10:56	0
Non-Solar hr	179688	18:19	287

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: 12-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	500	0.0	11.9	-11.9
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	223	585	0.0	6.5	-6.5
4	765 kV	SASARAM-FATEHPUR	1	0	463	0.0	5.8	-5.8
5	765 kV	GAYA-BALIA	1	0	606	0.0	11.0	-11.0
6	400 kV	PUSAULI-VARANASI	1	17	50	0.0	0.0	0.0
7	400 kV	PUSAULI-ALLAHABAD	1	3	64	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	498	0.0	6.7	-6.7
9	400 kV	PATNA-BALIA	2	0	374	0.0	5.9	-5.9
10	400 kV	NAUBATPUR-BALIA	2	0	389	0.0	5.6	-5.6
11	400 kV	BIHARSHARIFF-BALIA	2	104	188	0.0	1.3	-1.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	325	0.0	4.3	-4.3
13	400 kV	BIHARSHARIFF-VARANASI	2	73	265	0.0	2.4	-2.4
14	220 kV	SAHUPURI-KARAMNANA	1	0	116	0.0	1.7	-1.7
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-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.4	65.1	-64.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	283	1014	0.0	7.7	-7.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	823	333	7.1	0.0	7.1
3	765 kV	JHARSUGUDA-DURG	2	0	606	0.0	11.9	-11.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	554	0.0	7.6	-7.6
5	400 kV	RANCHI-SIPAT	2	187	161	0.4	0.0	0.4
6	220 kV	BUDHIPADAR-RAIGARH	1	3	106	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	147	72	1.4	0.0	1.4
ER-WR						8.9	28.3	-19.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	550	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1644	0.0	36.7	-36.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2778	0.0	47.2	-47.2
4	400 kV	TALCHER-I/C	2	259	644	4.9	0.0	4.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	96.5	-96.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	345	0.0	6.4	-6.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	91	651	0.0	10.5	-10.5
3	220 kV	ALIPURDUAR-SALAKATI	2	16	112	0.0	1.8	-1.8
ER-NER						0.0	18.7	-18.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	706	0.0	16.9	-16.9
NER-NR						0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1828	0.0	22.2	-22.2
2	HVDC	VINDHYACHAL B/B	-	432	0	10.3	0.0	10.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	496	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	0	1717	0.0	22.3	-22.3
5	765 kV	GWALIOR-PHAGI	2	0	1885	0.0	27.4	-27.4
6	765 kV	JABALPUR-ORAI	2	0	930	0.0	24.2	-24.2
7	765 kV	GWALIOR-ORAI	1	968	0	15.2	0.0	15.2
8	765 kV	SATNA-ORAI	1	0	1143	0.0	21.2	-21.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1678	44	14.0	0.0	14.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2496	0.0	49.2	-49.2
11	400 kV	ZERDA-KANKROLI	1	214	26	2.4	0.0	2.4
12	400 kV	ZERDA -BHINMAL	1	458	158	2.5	0.0	2.5
13	400 kV	VINDHYACHAL -RIHAND	1	955	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUALPUR	2	451	225	1.7	0.0	1.7
15	220 kV	BHANPURA-RANPUR	1	0	136	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	103	0	1.7	0.0	1.7
18	220 kV	MALANPUR-AURAIYA	1	69	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						70.9	182.7	-111.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	605	0.0	10.0	-10.0
2	HVDC	RAIGARH-PUGALUR	2	0	2505	0.0	32.5	-32.5
3	765 kV	SOLAPUR-RAICHUR	2	2472	1000	18.4	4.7	13.7
4	765 kV	WARDHA-NIZAMABAD	2	52	2327	0.0	26.2	-26.2
5	765 kV	WARORA-WARANGAL(NEW)	2	210	2291	0.2	31.7	-31.5
6	400 kV	KOLHAPUR-KUDGI	2	1755	0	25.3	0.0	25.3
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	114	2.3	0.0	2.3
WR-SR						46.1	105.1	-59.0

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)	-61	20	-28	-0.66
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	173	117	173	4.95
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-200	-156	-180	-4.31
	NER	132kV GELEPHU-SALAKATI	7	-13	1	0.02
	NER	132kV MOTANGA-RANGIA	24	0	19	0.45
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.63
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	399	185	369	8.86
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-936	-546	-834	-20.01
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1179	-803	-933	-22.40
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-138	0	-116	-2.79

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 12-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	20.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.53
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	20.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.53

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99
Nepal	0.00	0.00	9.62	0.00	0.00	0.19	0.00	0.00	9.81
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	0.99	0.00	9.62	0.00	0.00	0.19	0.00	0.00	10.80

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	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.99
Nepal	0.00	0.00	9.62	0.00	0.00	0.19	0.00	0.00	9.81
Bangladesh	-20.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.53
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-19.54	0.00	9.62	0.00	0.00	0.19	0.00	0.00	-9.73