



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: 18th 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 17.11.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 18-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)	48547	54369	47537	20656	2029	173138
Peak Shortage (MW)	0	0	0	74	0	74
Energy Met (MU)	1068	1359	1092	429	42	3989
Hydro Gen (MU)	125	30	43	24	13	234
Wind Gen (MU)	20	96	33	-	-	149
Solar Gen (MU)*	84.02	57.32	109.51	5.29	0.22	256
Energy Shortage (MU)	1.11	0.00	0.00	0.36	0.00	1.47
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53808	67488	52574	21977	2128	193831
Time Of Maximum Demand Met	10:25	10:42	11:51	18:32	17:16	10:45

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	0.045	0.00	0.71	8.21	8.91	73.49	17.60

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	6775	0	132.2	44.1	-0.8	75	0.00
	Haryana	6716	0	131.2	103.9	-0.5	109	0.00
	Rajasthan	15525	0	296.4	123.2	-3.5	171	0.00
	Delhi	3808	0	68.7	59.7	-0.3	228	0.00
	UP	16893	0	311.0	108.1	-1.8	698	0.00
	Uttarakhand	1952	0	36.2	26.3	-0.1	95	0.00
	HP	1908	0	33.7	25.4	-0.1	82	0.00
	J&K(UT) & Ladakh(UT)	2506	0	51.5	43.6	2.6	460	1.11
	Chandigarh	191	0	3.4	3.5	-0.1	17	0.00
Railways NR ISTS	183	0	3.8	3.7	0.0	16	0.00	
WR	Chhattisgarh	4065	0	83.5	26.3	-1.0	246	0.00
	Gujarat	17765	0	343.1	163.7	-2.2	572	0.00
	MP	16051	0	313.5	197.2	-5.3	391	0.00
	Maharashtra	26407	0	546.3	212.6	-1.4	736	0.00
	Goa	709	0	13.9	13.5	0.3	192	0.00
	DNHDDPDCL	1212	0	27.5	27.3	0.2	106	0.00
	AMNSIL	881	0	18.6	8.2	0.5	342	0.00
	BALCO	525	0	12.5	12.5	0.0	10	0.00
SR	Andhra Pradesh	11453	0	221.0	106.6	0.0	517	0.00
	Telangana	10425	0	214.7	108.3	1.0	767	0.00
	Karnataka	13775	0	252.3	116.2	0.6	1008	0.00
	Kerala	4221	0	84.5	68.8	1.3	390	0.00
	Tamil Nadu	15352	0	310.8	166.7	-0.4	555	0.00
	Puducherry	403	0	8.7	8.2	-0.2	39	0.00
ER	Bihar	5051	0	89.9	79.8	-1.2	159	0.06
	DVC	3221	0	69.6	-40.9	0.9	339	0.00
	Jharkhand	1619	0	31.1	23.5	-2.1	208	0.30
	Odisha	4848	0	98.4	37.4	-0.7	354	0.00
	West Bengal	7036	0	138.1	1.7	-1.0	172	0.00
	Sikkim	87	0	1.3	1.3	0.0	11	0.00
Railways ER ISTS	12	0	0.1	0.1	0.0	0	0.00	
NER	Arunachal Pradesh	153	0	2.8	2.4	0.2	44	0.00
	Assam	1314	0	25.4	20.2	-0.2	102	0.00
	Manipur	180	0	2.5	2.7	-0.1	23	0.00
	Meghalaya	312	0	5.8	4.7	-0.2	205	0.00
	Mizoram	108	0	1.3	2.0	-0.8	9	0.00
	Nagaland	130	0	2.1	2.0	-0.1	18	0.00
Tripura	142	0	2.0	1.5	-0.5	109	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-2.3	11.3	-12.8	-19.5
Day Peak (MW)	-256.0	505.7	-1057.0	-1398.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	195.9	-186.8	185.4	-189.2	-5.3	0.0
Actual(MU)	189.4	-186.9	204.0	-206.8	-4.2	-4.5
O/D/U/D(MU)	-6.6	-0.1	18.7	-17.6	1.1	-4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5315	12169	5618	2966	155	26222	41
State Sector	11081	15811	7999	2367	145	37403	59
Total	16396	27980	13617	5333	300	63625	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	647	1405	623	668	13	3356	77
Lignite	27	14	46	0	0	87	2
Hydro	125	30	43	24	13	234	5
Nuclear	21	52	76	0	0	148	3
Gas, Naptha & Diesel	10	9	2	0	26	47	1
RES (Wind, Solar, Biomass & Others)	122	157	175	7	0	462	11
Total	950	1667	966	699	52	4334	100

Share of RES in total generation (%)	12.86	9.40	18.14	1.03	0.43	10.65
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.13	14.34	30.46	4.40	25.20	19.48

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.052

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	193831	10:45	0
Non-Solar hr	184528	18:21	222

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: 18-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	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	1088	0.0	15.4	-15.4
4	765 kV	SASARAM-FATEHPUR	1	0	789	0.0	12.6	-12.6
5	765 kV	GAYA-BALIA	1	0	656	0.0	11.0	-11.0
6	400 kV	PUSAULI-VARANASI	1	30	13	0.1	0.0	0.1
7	400 kV	PUSAULI-ALLAHABAD	1	0	76	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	812	0.0	14.8	-14.8
9	400 kV	PATNA-BALIA	2	0	630	0.0	12.4	-12.4
10	400 kV	NAUBATPUR-BALIA	2	0	678	0.0	12.3	-12.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	391	0.0	6.3	-6.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	516	0.0	9.4	-9.4
13	400 kV	BIHARSHARIFF-VARANASI	2	0	550	0.0	6.9	-6.9
14	220 kV	SAHUPURI-KARAMNANA	1	0	134	0.0	2.2	-2.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.3	0.0	0.3
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	105.7	-105.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1376	0.0	16.1	-16.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1498	0.0	18.6	-18.6
3	765 kV	JHARSUGUDA-DURG	2	0	764	0.0	14.7	-14.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	441	0.0	6.1	-6.1
5	400 kV	RANCHI-SIPAT	2	0	453	0.0	4.5	-4.5
6	220 kV	BUDHIPADAR-RAIGARH	1	35	99	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	182	34	2.1	0.0	2.1
ER-WR						2.1	60.4	-58.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	552	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1996	0.0	45.8	-45.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2792	0.0	49.3	-49.3
4	400 kV	TALCHER-I/C	2	262	703	0.0	2.3	-2.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	107.6	-107.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	379	0	4.0	0.0	4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	1145	0	12.5	0.0	12.5
3	220 kV	ALIPURDUAR-SALAKATI	2	222	0	2.7	0.0	2.7
ER-NER						19.1	0.0	19.1
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-KURUKSHETRA	2	0	807	0.0	19.7	-19.7
2	HVDC	VINDHYACHAL B/B	-	430	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	980	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	1722	0.0	23.6	-23.6
5	765 kV	GWALIOR-PHAGI	2	0	2016	0.0	32.7	-32.7
6	765 kV	JABALPUR-ORAI	2	0	652	0.0	20.1	-20.1
7	765 kV	GWALIOR-ORAI	1	1035	0	17.7	0.0	17.7
8	765 kV	SATNA-ORAI	1	0	1063	0.0	22.1	-22.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1484	245	14.1	0.0	14.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	1780	0.0	28.7	-28.7
11	400 kV	ZERDA-KANKROLI	1	166	10	2.1	0.0	2.1
12	400 kV	ZERDA -BHINMAL	1	356	97	1.7	0.0	1.7
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUALPUR	2	215	251	0.6	1.3	-0.7
15	220 kV	BHANPURA-RANPUR	1	0	152	0.0	2.4	-2.4
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
17	220 kV	MEHGAON-AURAIYA	1	121	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	87	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						73.0	176.4	-103.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1008	0.0	19.8	-19.8
2	HVDC	RAIGARH-PUGALUR	2	0	5015	0.0	94.4	-94.4
3	765 kV	SOLAPUR-RAICHUR	2	2135	1038	10.1	4.9	5.2
4	765 kV	WARDHA-NIZAMABAD	2	88	2500	0.0	32.9	-32.9
5	765 kV	WARORA-WARANGAL(NEW)	2	188	2201	0.2	27.5	-27.4
6	400 kV	KOLHAPUR-KUDGI	2	1658	0	24.9	0.0	24.9
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	113	2.1	0.0	2.1
WR-SR						37.3	179.5	-142.2

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)	-62	10	-30	-0.71
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	144	73	144	4.53
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-260	-214	-239	-5.74
	NER	132kV GELEPHU-SALAKATI	-41	-21	-25	-0.60
	NER	132kV MOTANGA-RANGIA	16	-3	8	0.18
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.66
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	432	267	401	9.62
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-936	-167	-469	-11.26
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1399	-399	-812	-19.48
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-121	0	-63	-1.50

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 18-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	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.60
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.60

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	11.34	0.00	0.00	0.25	0.00	0.00	11.59
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	11.34	0.00	0.00	0.25	0.00	0.00	12.48

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	11.34	0.00	0.00	0.25	0.00	0.00	11.59
Bangladesh	-13.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-13.60
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-12.71	0.00	11.34	0.00	0.00	0.25	0.00	0.00	-1.12