



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: 10th 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 09.11.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 09th November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 10-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)	51921	62610	46062	21258	2658	184509
Peak Shortage (MW)	0	0	0	255	38	293
Energy Met (MU)	1137	1528	1001	444	50	4160
Hydro Gen (MU)	128	42	42	35	16	263
Wind Gen (MU)	8	18	21	-	-	47
Solar Gen (MU)*	73.75	54.01	89.01	6.20	1.11	224
Energy Shortage (MU)	2.07	0.00	0.00	1.24	0.08	3.39
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55556	72913	46505	22516	2874	194095
Time Of Maximum Demand Met	18:31	10:29	18:48	17:44	17:17	18:26

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	0.058	0.17	2.96	10.06	13.19	75.41	11.40

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	6729	0	137.4	42.7	-0.7	129	0.00
	Haryana	7071	0	142.1	86.0	-0.9	145	0.01
	Rajasthan	15580	0	313.8	126.8	-2.9	408	0.00
	Delhi	4031	0	77.7	68.4	-0.1	268	0.00
	UP	17926	73	333.8	108.1	-1.8	1123	0.28
	Uttarakhand	2041	0	39.9	29.0	1.1	184	0.08
	HP	1935	0	35.0	26.7	-0.3	42	0.13
	J&K(UT) & Ladakh(UT)	2391	0	49.7	41.9	2.5	334	1.57
	Chandigarh	196	0	3.6	3.7	-0.1	16	0.00
Railways NR ISTS	191	0	3.7	3.6	0.1	32	0.00	
WR	Chhattisgarh	4373	0	93.0	35.1	-0.6	213	0.00
	Gujarat	21302	0	432.6	216.1	-0.2	425	0.00
	MP	16372	0	333.3	210.4	-3.5	829	0.00
	Maharashtra	28356	0	595.8	228.9	-4.3	929	0.00
	Goa	684	0	14.0	12.8	0.6	56	0.00
	DNHDDPDCL	1266	0	29.1	29.0	0.1	52	0.00
	AMNSIL	862	0	17.9	8.3	0.0	260	0.00
	BALCO	522	0	12.4	12.5	-0.1	6	0.00
SR	Andhra Pradesh	9731	0	202.8	91.4	-2.0	385	0.00
	Telangana	9825	0	202.3	93.5	-2.9	460	0.00
	Karnataka	10321	0	206.1	91.1	-6.5	717	0.00
	Kerala	3887	0	78.7	60.2	0.7	167	0.00
	Tamil Nadu	15030	0	301.6	175.4	-1.4	602	0.00
	Puducherry	449	0	9.2	9.5	-0.4	32	0.00
ER	Bihar	4802	0	86.0	82.4	-2.8	261	0.00
	DVC	3176	0	67.1	-37.1	-0.2	225	0.00
	Jharkhand	1546	0	30.0	22.3	-1.7	210	1.24
	Odisha	5183	0	109.9	22.6	-1.8	313	0.00
	West Bengal	7610	0	150.0	17.7	-2.7	140	0.00
	Sikkim	92	0	1.4	1.3	0.1	29	0.00
Railways ER ISTS	9	0	0.2	0.2	0.0	0	0.00	
NER	Arunachal Pradesh	153	0	2.6	2.6	-0.2	32	0.00
	Assam	1682	0	29.6	22.8	0.3	135	0.00
	Manipur	205	0	2.7	2.6	0.1	26	0.00
	Meghalaya	334	0	6.4	4.9	-0.2	129	0.08
	Mizoram	134	0	1.9	1.6	-0.2	15	0.00
	Nagaland	142	0	2.3	2.3	-0.1	12	0.00
Tripura	272	0	4.2	3.7	-0.2	27	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	5.0	8.3	-21.7	-24.4
Day Peak (MW)	319.0	430.0	-932.0	-1327.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	197.6	-160.1	127.7	-166.1	-2.7	-3.7
Actual(MU)	215.0	-133.6	121.8	-203.7	-4.2	-4.6
O/D/U/D(MU)	17.4	26.6	-5.9	-37.6	-1.5	-1.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5448	9340	5758	4326	230	25102	48
State Sector	7226	10993	6229	2475	145	27067	52
Total	12674	20333	11987	6801	375	52169	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	728	1601	629	679	16	3652	80
Lignite	23	19	62	0	0	103	2
Hydro	129	43	42	35	16	266	6
Nuclear	20	53	73	0	0	147	3
Gas, Naptha & Diesel	10	16	4	0	27	57	1
RES (Wind, Solar, Biomass & Others)	98	74	145	7	1	325	7
Total	1008	1807	955	721	60	4550	100

Share of RES in total generation (%)	9.68	4.11	15.20	1.00	1.85	7.15
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.51	9.44	27.29	5.80	29.15	16.21

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.063

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	193949	10:14	0
Non-Solar hr	194095	18:26	924

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: 10-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	502	0.0	11.8	-11.8
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	939	0.0	14.8	-14.8
4	765 kV	SASARAM-FATEHPUR	1	0	485	0.0	7.6	-7.6
5	765 kV	GAYA-BALIA	1	0	610	0.0	12.7	-12.7
6	400 kV	PUSAULI-VARANASI	1	44	48	0.2	0.0	0.2
7	400 kV	PUSAULI-ALLAHABAD	1	1	92	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	552	0.0	10.5	-10.5
9	400 kV	PATNA-BALIA	2	0	438	0.0	6.7	-6.7
10	400 kV	NAUBATPUR-BALIA	2	0	478	0.0	8.3	-8.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	279	0.0	4.1	-4.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	359	0.0	6.2	-6.2
13	400 kV	BIHARSHARIFF-VARANASI	2	0	405	0.0	5.2	-5.2
14	220 kV	SAHUPURI-KARAMNANA	1	2	195	0.0	2.6	-2.6
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						0.6	93.0	-92.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	167	1027	0.0	12.5	-12.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	234	799	0.0	1.7	-1.7
3	765 kV	JHARSUGUDA-DURG	2	0	732	0.0	14.4	-14.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	570	0.0	8.0	-8.0
5	400 kV	RANCHI-SIPAT	2	27	297	0.0	1.6	-1.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	132	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	58	60	0.1	0.0	0.1
ER-WR						0.1	40.5	-40.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	525	0.0	11.9	-11.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1994	0.0	44.6	-44.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2670	0.0	47.1	-47.1
4	400 kV	TALCHER-I/C	2	271	138	0.0	0.5	-0.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	103.6	-103.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	280	0.0	4.6	-4.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	131	507	0.0	6.3	-6.3
3	220 kV	ALIPURDUAR-SALAKATI	2	20	94	0.0	1.2	-1.2
ER-NER						0.0	12.1	-12.1
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-KURUKSHETRA	2	0	820	0.0	19.6	-19.6
2	HVDC	VINDHYACHAL B/B	-	432	0	8.4	0.0	8.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1170	0.0	11.6	-11.6
4	765 kV	GWALIOR-AGRA	2	93	1567	0.0	23.3	-23.3
5	765 kV	GWALIOR-PHAGI	2	0	1986	0.0	38.8	-38.8
6	765 kV	JABALPUR-ORAI	2	0	768	0.0	27.6	-27.6
7	765 kV	GWALIOR-ORAI	1	1033	0	19.2	0.0	19.2
8	765 kV	SATNA-ORAI	1	0	1084	0.0	22.3	-22.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1675	0	26.0	0.0	26.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2371	0.0	42.9	-42.9
11	400 kV	ZERDA-KANKROLI	1	218	0	3.2	0.0	3.2
12	400 kV	ZERDA -BHINMAL	1	342	143	1.2	0.0	1.2
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUALPUR	2	178	275	0.0	1.1	-1.1
15	220 kV	BHANPURA-RANPUR	1	0	165	0.0	2.7	-2.7
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2
17	220 kV	MEHGAON-AURAIYA	1	116	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	85	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						83.0	191.1	-108.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1007	0.0	14.8	-14.8
2	HVDC	RAIGARH-PUGALUR	2	0	3010	0.0	43.5	-43.5
3	765 kV	SOLAPUR-RAICHUR	2	2085	681	17.9	1.3	16.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2204	0.0	27.9	-27.9
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2197	0.0	25.3	-25.3
6	400 kV	KOLHAPUR-KUDGI	2	1732	0	27.4	0.0	27.4
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	48	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	118	2.2	0.0	2.2
WR-SR						47.5	112.8	-65.3

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)	30	-22	115	2.77
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	367	129	216	5.18
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-180	-112	-148	-3.54
	NER	132kV GELEPHU-SALAKATI	12	0	1	0.03
	NER	132kV MOTANGA-RANGIA	32	18	24	0.58
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.98
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	370	230	303	7.27
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-795	-671	-783	-18.79
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1327	-810	-1018	-24.42
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-137	0	-119	-2.86

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 10-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	18.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.83
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	18.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.83

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	1.24	0.00	0.86	0.00	0.00	0.00	0.00	0.00	2.10
Nepal	0.00	0.00	7.83	0.00	0.00	0.19	0.00	0.00	8.02
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	1.24	0.00	8.69	0.00	0.00	0.19	0.00	0.00	10.12

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	1.24	0.00	0.86	0.00	0.00	0.00	0.00	0.00	2.10
Nepal	0.00	0.00	7.83	0.00	0.00	0.19	0.00	0.00	8.02
Bangladesh	-18.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18.83
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-17.59	0.00	8.69	0.00	0.00	0.19	0.00	0.00	-8.71