



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: 15th 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 14.11.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 15-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)	44934	48554	42969	20697	2647	159801
Peak Shortage (MW)	11	0	0	0	0	11
Energy Met (MU)	961	1233	965	418	47	3624
Hydro Gen (MU)	129	22	34	20	14	218
Wind Gen (MU)	16	64	44	-	-	124
Solar Gen (MU)*	102.71	56.97	76.00	2.39	1.29	239
Energy Shortage (MU)	0.34	0.00	0.00	0.02	0.00	0.36
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48791	59048	46277	21537	2820	172997
Time Of Maximum Demand Met	18:13	10:31	10:28	18:11	17:26	10:27

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	0.052	0.05	1.85	5.98	7.88	71.74	20.38

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	6342	0	115.8	47.4	-0.6	105	0.00
	Haryana	5370	0	103.3	81.4	-2.1	98	0.00
	Rajasthan	14380	0	272.2	109.1	-5.4	138	0.00
	Delhi	3205	0	60.3	51.5	-0.6	162	0.00
	UP	16161	0	294.2	108.8	-1.0	1112	0.00
	Uttarakhand	1670	0	30.5	20.7	0.0	106	0.00
	HP	1502	0	26.2	18.1	-0.6	26	0.34
	J&K(UT) & Ladakh(UT)	2490	0	51.4	45.5	0.9	311	0.00
	Chandigarh	190	0	3.3	3.5	-0.3	37	0.00
Railways NR ISTS	193	0	3.8	3.8	0.0	24	0.00	
WR	Chhattisgarh	3912	0	83.5	26.2	-1.5	133	0.00
	Gujarat	12888	0	267.3	144.4	-2.9	769	0.00
	MP	16084	0	310.9	199.0	-4.7	452	0.00
	Maharashtra	23436	0	507.8	200.8	-1.7	798	0.00
	Goa	681	0	13.7	12.6	0.5	60	0.00
	DNHDDPDCL	884	0	19.1	19.1	0.0	54	0.00
	AMNSIL	876	0	18.5	9.4	-0.1	240	0.00
	BALCO	517	0	12.4	12.5	-0.1	8	0.00
SR	Andhra Pradesh	10505	0	208.8	85.6	1.4	745	0.00
	Telangana	9874	0	208.8	102.2	0.0	446	0.00
	Karnataka	11501	0	209.6	92.0	2.0	1492	0.00
	Kerala	4098	0	80.2	67.5	0.9	159	0.00
	Tamil Nadu	12780	0	250.0	173.6	-1.9	1032	0.00
	Puducherry	350	0	7.4	7.2	-0.5	23	0.00
ER	Bihar	4697	0	87.9	77.8	-1.0	408	0.02
	DVC	3286	0	69.4	-32.7	1.0	336	0.00
	Jharkhand	1582	0	29.7	22.9	-2.1	135	0.00
	Odisha	4641	0	96.5	25.4	-2.3	329	0.00
	West Bengal	7260	0	133.5	8.2	-3.0	253	0.00
	Sikkim	72	0	1.0	1.1	-0.1	4	0.00
Railways ER ISTS	8	0	0.2	0.1	0.1	5	0.00	
NER	Arunachal Pradesh	152	0	2.7	2.5	0.1	30	0.00
	Assam	1617	0	26.7	19.9	-0.2	101	0.00
	Manipur	206	0	2.6	2.7	-0.1	18	0.00
	Meghalaya	348	0	6.3	4.8	0.0	48	0.00
	Mizoram	137	0	1.9	1.7	-0.3	21	0.00
	Nagaland	150	0	2.4	2.2	0.0	13	0.00
Tripura	268	0	4.5	3.9	-0.1	32	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-1.2	12.6	-24.1	-22.2
Day Peak (MW)	-178.3	420.0	-1080.0	-1172.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	160.5	-159.7	146.8	-147.2	-0.4	0.0
Actual(MU)	147.2	-165.7	171.2	-161.4	-0.4	-9.1
O/D/U/D(MU)	-13.3	-6.1	24.3	-14.1	0.1	-9.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6385	11944	5258	4786	155	28527	40
State Sector	11561	18476	10549	1625	145	42356	60
Total	17946	30420	15807	6411	300	70883	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	549	1293	566	619	12	3040	77
Lignite	30	16	44	0	0	89	2
Hydro	130	22	34	20	14	220	6
Nuclear	20	52	76	0	0	148	4
Gas, Naptha & Diesel	10	5	3	0	27	44	1
RES (Wind, Solar, Biomass & Others)	137	124	152	4	1	417	11
Total	875	1512	874	643	54	3958	100

Share of RES in total generation (%)	15.60	8.19	17.34	0.55	2.40	10.53
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.77	13.08	29.89	3.68	28.15	19.82

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.065

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	172997	10:27	186
Non-Solar hr	169877	18:23	11

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: 15-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	7.7	-7.7
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	154	872	0.0	8.6	-8.6
4	765 kV	SASARAM-FATEHPUR	1	0	556	0.0	7.2	-7.2
5	765 kV	GAYA-BALIA	1	0	593	0.0	10.0	-10.0
6	400 kV	PUSAULI-VARANASI	1	12	55	0.0	0.5	-0.5
7	400 kV	PUSAULI-ALLAHABAD	1	8	58	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	631	0.0	7.5	-7.5
9	400 kV	PATNA-BALIA	2	0	363	0.0	5.7	-5.7
10	400 kV	NAUBATPUR-BALIA	2	0	369	0.0	5.8	-5.8
11	400 kV	BIHARSHARIFF-BALIA	2	78	293	0.0	2.5	-2.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	295	0.0	4.2	-4.2
13	400 kV	BIHARSHARIFF-VARANASI	2	76	305	0.0	3.4	-3.4
14	220 kV	SAHUPURI-KARAMNESA	1	0	112	0.0	1.4	-1.4
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						0.5	66.5	-66.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	887	0.0	12.5	-12.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	224	569	0.0	2.3	-2.3
3	765 kV	JHARSUGUDA-DURG	2	0	693	0.0	13.5	-13.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	403	0.0	5.3	-5.3
5	400 kV	RANCHI-SIPAT	2	84	241	0.0	1.6	-1.6
6	220 kV	BUDHIPADAR-RAIGARH	1	5	78	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	152	0	1.8	0.0	1.8
ER-WR						1.8	36.2	-34.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	553	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1645	0.0	37.6	-37.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2663	0.0	49.0	-49.0
4	400 kV	TALCHER-I/C	2	1110	640	5.7	0.0	5.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	99.2	-99.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	241	302	0.9	3.2	-2.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	758	581	0.0	3.5	-3.5
3	220 kV	ALIPURDUAR-SALAKATI	2	141	104	0.0	0.5	-0.5
ER-NER						0.9	7.2	-6.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	706	650	0.0	4.8	-4.8
NER-NR						0.0	4.8	-4.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	808	0.0	19.2	-19.2
2	HVDC	VINDHYACHAL B/B	-	431	0	12.8	0.0	12.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	497	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	98	1529	0.0	19.6	-19.6
5	765 kV	GWALIOR-PHAGI	2	0	1830	0.0	24.9	-24.9
6	765 kV	JABALPUR-ORAI	2	0	584	0.0	18.2	-18.2
7	765 kV	GWALIOR-ORAI	1	918	0	16.4	0.0	16.4
8	765 kV	SATNA-ORAI	1	0	899	0.0	18.5	-18.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1250	0	13.8	0.0	13.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2267	0.0	40.7	-40.7
11	400 kV	ZERDA-KANKROLI	1	166	0	2.4	0.0	2.4
12	400 kV	ZERDA -BHINMAL	1	409	67	2.6	0.0	2.6
13	400 kV	VINDHYACHAL -RIHAND	1	955	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	437	239	2.5	1.0	1.5
15	220 kV	BHANPURA-RANPUR	1	0	123	0.0	1.8	-1.8
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
17	220 kV	MEHGAON-AURAIYA	1	119	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	88	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						75.5	157.7	-82.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	807	0.0	19.2	-19.2
2	HVDC	RAIGARH-PUGALUR	2	0	3004	0.0	51.1	-51.1
3	765 kV	SOLAPUR-RAICHUR	2	567	1262	3.4	6.2	-2.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2200	0.0	33.0	-33.0
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2122	0.0	32.0	-32.0
6	400 kV	KOLHAPUR-KUDGI	2	1016	0	17.8	0.0	17.8
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	114	2.2	0.0	2.2
WR-SR						23.4	141.5	-118.0

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)	-64	9	-30	-0.72
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	196	76	181	4.33
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-245	-182	-215	-5.17
	NER	132kV GELEPHU-SALAKATI	28	-5	0	0.00
	NER	132kV MOTANGA-RANGIA	0	-27	16	0.38
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.70
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	420	392	420	10.91
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-938	-646	-880	-21.11
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1172	-804	-926	-22.22
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-142	0	-123	-2.94

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 15-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	21.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.15
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.15

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
IEX	PXIL	HPX	IEX	PXIL	HPX				
Bhutan	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92
Nepal	0.00	0.00	11.47	0.00	0.00	1.05	0.00	0.00	12.52
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	0.92	0.00	11.47	0.00	0.00	1.05	0.00	0.00	13.44

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	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92
Nepal	0.00	0.00	11.47	0.00	0.00	1.05	0.00	0.00	12.52
Bangladesh	-21.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.15
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	1.05	0.00	0.00	-7.71