



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: 08th December 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 07.12.2023.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-दिसम्बर-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 7th December 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 08-Dec-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)	48412	54239	44599	18068	2439	167757
Peak Shortage (MW)	0	0	0	147	0	147
Energy Met (MU)	1061	1247	1023	387	47	3766
Hydro Gen (MU)	110	24	51	17	11	214
Wind Gen (MU)	21	92	19	-	-	132
Solar Gen (MU)*	109.18	44.47	86.38	1.10	0.31	241
Energy Shortage (MU)	0.18	0.00	0.00	0.55	0.02	0.75
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53465	61008	48604	19482	2628	181948
Time Of Maximum Demand Met	10:15	10:01	10:55	18:00	17:09	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	0.095	1.81	3.71	7.61	13.14	68.90	17.96

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	7736	0	141.4	48.6	-2.1	37	0.00
	Haryana	7372	0	144.3	98.2	-0.7	188	0.00
	Rajasthan	14777	0	279.2	113.8	-3.3	205	0.00
	Delhi	3816	0	68.6	60.8	-0.5	215	0.00
	UP	16110	0	288.7	114.0	-1.5	662	0.00
	Uttarakhand	2144	0	40.7	29.4	0.3	153	0.00
	HP	1990	0	35.3	27.8	-0.1	67	0.00
	J&K(UT) & Ladakh(UT)	2647	0	55.6	51.2	-1.2	150	0.18
	Chandigarh	214	0	3.5	3.4	0.1	28	0.00
Railways NR ISTS	182	0	3.5	3.5	0.0	27	0.00	
WR	Chhattisgarh	3936	0	80.4	31.6	-0.9	247	0.00
	Gujarat	19050	0	375.2	185.3	-0.2	1398	0.00
	MP	11742	0	217.6	117.5	-3.2	366	0.00
	Maharashtra	23917	0	499.0	188.3	-0.4	513	0.00
	Goa	668	0	13.6	13.1	-0.1	31	0.00
	DNHDDPDCL	1277	0	29.0	29.3	-0.3	32	0.00
	AMNSIL	879	0	19.8	9.3	-0.3	248	0.00
	BALCO	522	0	12.5	12.5	0.0	9	0.00
SR	Andhra Pradesh	7912	0	167.9	54.0	0.2	1201	0.00
	Telangana	9825	0	185.8	96.4	-1.5	941	0.00
	Karnataka	14127	0	258.9	121.1	-1.9	703	0.00
	Kerala	4238	0	85.9	70.8	1.7	459	0.00
	Tamil Nadu	15614	0	316.2	185.0	0.7	791	0.00
	Puducherry	397	0	8.8	8.4	-0.2	42	0.00
ER	Bihar	3831	0	70.0	66.0	-1.1	437	0.08
	DVC	3069	0	65.6	-38.5	0.2	326	0.00
	Jharkhand	1441	0	25.0	21.0	-3.5	334	0.47
	Odisha	4473	0	97.1	23.5	-2.1	258	0.00
	West Bengal	6439	0	127.6	18.8	-3.4	46	0.00
	Sikkim	110	0	1.8	1.8	0.0	46	0.00
Railways ER ISTS	18	0	0.1	0.2	-0.1	5	0.00	
NER	Arunachal Pradesh	167	0	2.8	2.9	-0.2	50	0.00
	Assam	1477	0	26.6	21.9	0.1	69	0.00
	Manipur	209	0	2.9	3.1	-0.2	30	0.00
	Meghalaya	348	22	6.6	5.3	-0.1	41	0.02
	Mizoram	142	0	2.1	2.0	-0.2	14	0.00
	Nagaland	148	0	2.3	2.3	-0.2	17	0.00
Tripura	196	0	3.7	4.5	-0.1	43	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-5.3	-2.2	-22.0	-15.6
Day Peak (MW)	-428.9	-230.3	-1045.0	-768.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	219.1	-244.1	177.5	-155.2	2.7	0.0
Actual(MU)	196.1	-232.3	200.0	-175.9	2.4	-9.6
O/D/U/D(MU)	-23.0	11.9	22.5	-20.7	-0.3	-9.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6653	12262	6178	3981	155	29229	43
State Sector	12036	16624	6794	3680	306	39439	57
Total	18689	28885	12972	7661	461	68668	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	608	1378	601	626	13	3226	78
Lignite	26	18	50	0	0	94	2
Hydro	110	24	51	17	11	214	5
Nuclear	21	40	62	0	0	123	3
Gas, Naptha & Diesel	15	20	5	0	25	64	2
RES (Wind, Solar, Biomass & Others)	153	139	128	3	0	422	10
Total	932	1619	896	646	50	4143	100

Share of RES in total generation (%)	16.38	8.58	14.25	0.43	0.63	10.20
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.38	12.55	26.81	3.11	23.21	18.31

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.061

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	181948	10:27	231
Non-Solar hr	178967	18:17	22

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: 08-Dec-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	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	0	1030	0.0	16.2	-16.2
4	765 kV	SASARAM-FATEHPUR	1	0	554	0.0	9.5	-9.5
5	765 kV	GAYA-BALIA	1	0	663	0.0	12.1	-12.1
6	400 kV	PUSAULI-VARANASI	1	34	18	0.0	0.0	0.0
7	400 kV	PUSAULI-ALLAHABAD	1	0	81	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	629	0.0	8.1	-8.1
9	400 kV	PATNA-BALIA	2	0	0	0.0	0.0	0.0
10	400 kV	NAUBATPUR-BALIA	2	0	703	0.0	11.8	-11.8
11	400 kV	BIHARSHARIFF-BALIA	2	0	332	0.0	4.8	-4.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	435	0.0	7.1	-7.1
13	400 kV	BIHARSHARIFF-VARANASI	2	0	426	0.0	6.5	-6.5
14	220 kV	SAHUPURI-KARAMNANA	1	11	102	0.0	1.2	-1.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.0	0.0	0.0
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						0.0	78.8	-78.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	810	1052	0.0	8.8	-8.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	213	1175	0.0	8.9	-8.9
3	765 kV	JHARSUGUDA-DURG	2	0	728	0.0	14.3	-14.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	562	0.0	7.4	-7.4
5	400 kV	RANCHI-SIPAT	2	73	348	0.0	2.6	-2.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	108	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	147	0	1.0	0.0	1.0
ER-WR						1.0	43.6	-42.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	707	0.0	14.3	-14.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2005	0.0	44.8	-44.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	3100	0.0	51.1	-51.1
4	400 kV	TALCHER-I/C	2	229	621	0.0	3.8	-3.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	110.2	-110.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	273	31	2.0	0.0	1.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	860	0	8.4	0.0	8.4
3	220 kV	ALIPURDUAR-SALAKATI	2	181	0	2.0	0.0	2.0
ER-NER						12.3	0.0	12.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	655	15.4	0.0	15.4
NER-NR						15.4	0.0	15.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1527	0.0	36.0	-36.0
2	HVDC	VINDHYACHAL B/B	-	267	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	253	0.0	6.2	-6.2
4	765 kV	GWALIOR-AGRA	2	0	2069	0.0	33.7	-33.7
5	765 kV	GWALIOR-PHAGI	2	0	2062	0.0	32.4	-32.4
6	765 kV	JABALPUR-ORAI	2	0	892	0.0	25.2	-25.2
7	765 kV	GWALIOR-ORAI	1	1102	0	16.4	0.0	16.4
8	765 kV	SATNA-ORAI	1	0	1153	0.0	22.6	-22.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1483	143	13.0	0.2	12.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2409	0.0	40.5	-40.5
11	400 kV	ZERDA-KANKROLI	1	230	0	2.8	0.0	2.8
12	400 kV	ZERDA -BHINMAL	1	397	154	3.0	0.5	2.5
13	400 kV	VINDHYACHAL -RIHAND	1	958	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUALPUR	2	205	417	0.5	3.0	-2.5
15	220 kV	BHANPURA-RANPUR	1	0	116	0.0	1.9	-1.9
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	81	22	0.5	0.0	0.5
18	220 kV	MALANPUR-AURAIYA	1	56	33	0.3	0.1	0.1
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						65.8	203.2	-137.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	20.8	-20.8
2	HVDC	RAIGARH-PUGALUR	2	0	5021	0.0	62.8	-62.8
3	765 kV	SOLAPUR-RAICHUR	2	1539	2041	4.9	11.3	-6.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2672	0.0	34.0	-34.0
5	765 kV	WARORA-WARANGAL(NEW)	2	0	0	0.0	32.7	-32.7
6	400 kV	KOLHAPUR-KUDGI	2	1555	0	17.5	0.0	17.5
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	105	2.0	0.0	2.0
WR-SR						24.5	161.4	-136.9

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)	-183	30	-78	-1.88
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	273	8	122	2.92
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-291	-157	-238	-5.70
	NER	132kV GELEPHU-SALAKATI	-37	-6	-23	-0.55
	NER	132kV MOTANGA-RANGIA	-32	0	-4	-0.09
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-16	-0.39
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-258	0	-75	-1.80
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-941	-577	-829	-19.89
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-768	-450	-649	-15.59
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-104	0	-89	-2.14

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 08-Dec-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	7.50	0.00	0.00	0.00	0.00	0.00	7.50
Nepal	0.10	0.00	0.58	0.00	0.00	0.98	0.00	0.00	1.66
Bangladesh	19.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.75
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	19.85	0.00	8.08	0.00	0.00	0.98	0.00	0.00	28.91

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86
Nepal	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.10
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	1.86	0.00	0.10	0.00	0.00	0.00	0.00	0.00	1.96

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	1.86	0.00	-7.50	0.00	0.00	0.00	0.00	0.00	-5.64
Nepal	-0.10	0.00	-0.48	0.00	0.00	-0.98	0.00	0.00	-1.56
Bangladesh	-19.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-19.75
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-17.99	0.00	-7.98	0.00	0.00	-0.98	0.00	0.00	-26.95