



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: 4th 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 03.12.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-दिसम्बर-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 3th December 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 04-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)	43645	50891	39156	19093	2386	155171
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1002	1207	949	403	46	3606
Hydro Gen (MU)	109	20	33	19	11	192
Wind Gen (MU)	27	140	48	-	-	215
Solar Gen (MU)*	108.78	47.47	79.87	4.63	1.04	242
Energy Shortage (MU)	0.07	0.00	0.00	1.05	0.00	1.12
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52410	56413	46014	20413	2620	174165
Time Of Maximum Demand Met	10:13	09:47	09:25	17:46	17:21	09:53

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	0.040	0.00	0.20	5.18	5.38	77.02	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	6887	0	129.3	55.6	-1.0	170	0.00
	Haryana	6237	0	122.8	89.8	-0.6	249	0.00
	Rajasthan	14884	0	266.3	99.8	-4.9	306	0.00
	Delhi	3793	0	66.9	56.3	1.4	286	0.00
	UP	15240	0	286.8	120.0	-2.8	744	0.00
	Uttarakhand	1971	0	35.9	25.7	0.0	151	0.00
	HP	1805	0	32.0	24.9	-0.3	45	0.00
	J&K(UT) & Ladakh(UT)	2647	0	55.4	50.3	-0.4	157	0.07
	Chandigarh	194	0	3.2	3.6	-0.4	20	0.00
Railways NR ISTS	169	0	3.3	3.7	-0.4	11	0.00	
WR	Chhattisgarh	4200	0	88.9	42.4	-1.1	355	0.00
	Gujarat	17646	0	364.6	168.2	0.4	573	0.00
	MP	11955	0	216.0	123.1	-3.9	350	0.00
	Maharashtra	21882	0	465.2	167.3	4.3	685	0.00
	Goa	643	0	12.4	12.4	0.0	37	0.00
	DNHDDPDCL	1150	0	27.1	26.8	0.3	36	0.00
	AMNSIL	883	0	19.8	10.0	0.1	247	0.00
BALCO	523	0	12.5	12.6	-0.1	6	0.00	
SR	Andhra Pradesh	8804	0	178.6	66.4	-2.1	522	0.00
	Telangana	9839	0	194.3	108.3	-1.3	465	0.00
	Karnataka	12759	0	228.8	94.0	1.5	591	0.00
	Kerala	3872	0	77.9	66.7	1.0	167	0.00
	Tamil Nadu	12235	0	262.0	163.3	-0.9	561	0.00
	Puducherry	329	0	7.6	7.4	-0.5	13	0.00
ER	Bihar	4370	0	82.2	77.7	-1.6	303	0.00
	DVC	3231	0	67.9	-37.3	0.5	245	0.00
	Jharkhand	1594	44	29.8	26.7	-2.7	312	1.05
	Odisha	4494	0	95.2	36.7	-1.2	304	0.00
	West Bengal	6314	0	126.1	17.5	-3.3	129	0.00
	Sikkim	86	0	1.4	1.3	0.1	41	0.00
Railways ER ISTS	11	0	0.1	0.1	0.0	0	0.00	
NER	Arunachal Pradesh	162	0	2.9	2.8	-0.1	20	0.00
	Assam	1431	0	25.5	18.6	0.4	105	0.00
	Manipur	204	0	2.7	3.1	-0.4	28	0.00
	Meghalaya	395	0	6.3	5.6	-0.1	106	0.00
	Mizoram	122	0	1.8	1.6	-0.2	25	0.00
	Nagaland	147	0	2.4	2.4	-0.1	11	0.00
Tripura	228	0	4.1	4.8	0.3	34	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	0.2	0.8	-13.4	-15.7
Day Peak (MW)	289.0	55.0	-587.0	-760.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	215.0	-258.2	174.7	-132.2	0.8	0.0
Actual(MU)	191.0	-253.5	196.4	-142.3	1.5	-6.7
O/D/U/D(MU)	-24.0	4.8	21.7	-10.0	0.8	-6.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5953	12804	6528	3981	271	29537	41
State Sector	13496	17081	8664	3449	246	42936	59
Total	19449	29885	15192	7430	517	72473	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	556	1286	513	586	11	2953	75
Lignite	26	19	43	0	0	88	2
Hydro	109	20	33	19	11	192	5
Nuclear	20	53	76	0	0	149	4
Gas, Naptha & Diesel	9	9	5	0	27	50	1
RES (Wind, Solar, Biomass & Others)	158	189	156	7	1	511	13
Total	880	1577	824	612	50	3942	100

Share of RES in total generation (%)	18.01	11.98	18.88	1.12	2.09	12.95
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.73	16.61	32.07	4.16	24.36	21.61

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	174165	9:53	249
Non-Solar hr	163888	18:22	197

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: 04-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	48	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	781	0.0	10.4	-10.4
4	765 kV	SASARAM-FATEHPUR	1	0	452	0.0	6.6	-6.6
5	765 kV	GAYA-BALIA	1	0	608	0.0	10.7	-10.7
6	400 kV	PUSAULI-VARANASI	1	19	55	0.0	0.3	-0.3
7	400 kV	PUSAULI-ALLAHABAD	1	9	67	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	598	0.0	7.5	-7.5
9	400 kV	PATNA-BALIA	2	0	0	0.0	0.0	0.0
10	400 kV	NAUBATPUR-BALIA	2	0	626	0.0	9.3	-9.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	328	0.0	3.7	-3.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	393	0.0	6.0	-6.0
13	400 kV	BIHARSHARIFF-VARANASI	2	5	350	0.0	3.9	-3.9
14	220 kV	SAHUPURI-KARAMNANA	1	26	93	0.0	0.9	-0.9
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	61.4	-61.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	281	970	0.0	7.9	-7.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	284	854	0.0	4.7	-4.7
3	765 kV	JHARSUGUDA-DURG	2	0	532	0.0	10.2	-10.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	486	0.0	4.6	-4.6
5	400 kV	RANCHI-SIPAT	2	134	219	0.0	1.4	-1.4
6	220 kV	BUDHIPADAR-RAIGARH	1	31	79	0.0	0.5	-0.5
7	220 kV	BUDHIPADAR-KORBA	2	172	2	2.5	0.0	2.5
ER-WR						2.5	29.3	-26.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	706	0.0	16.1	-16.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1999	0.0	47.7	-47.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2436	0.0	45.1	-45.1
4	400 kV	TALCHER-I/C	2	218	1026	0.0	7.0	-7.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	108.9	-108.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	249	0	2.4	0.0	2.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	780	0	9.0	0.0	9.0
3	220 kV	ALIPURDUAR-SALAKATI	2	151	0	2.1	0.0	2.1
ER-NER						13.5	0.0	13.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	658	0	15.9	0.0	15.9
NER-NR						15.9	0.0	15.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2037	0.0	43.0	-43.0
2	HVDC	VINDHYACHAL B/B	-	448	0	9.0	0.0	9.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	254	0.0	6.1	-6.1
4	765 kV	GWALIOR-AGRA	2	0	1908	0.0	34.5	-34.5
5	765 kV	GWALIOR-PHAGI	2	0	1725	0.0	23.0	-23.0
6	765 kV	JABALPUR-ORAI	2	0	856	0.0	23.2	-23.2
7	765 kV	GWALIOR-ORAI	1	998	0	15.3	0.0	15.3
8	765 kV	SATNA-ORAI	1	0	1084	0.0	20.5	-20.5
9	765 kV	BANASKANTHA-CHITORGARH	2	834	570	0.2	0.0	0.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2345	0.0	44.4	-44.4
11	400 kV	ZERDA-KANKROLI	1	110	34	1.1	0.0	1.0
12	400 kV	ZERDA -BHINMAL	1	280	205	0.4	0.0	0.4
13	400 kV	VINDHYACHAL -RIHAND	1	951	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUALPUR	2	202	225	0.9	1.6	-0.7
15	220 kV	BHANPURA-RANPUR	1	0	113	0.0	2.0	-2.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	77	19	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	49	25	0.4	0.1	0.3
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						49.6	199.2	-149.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1005	0.0	23.4	-23.4
2	HVDC	RAIGARH-PUGALUR	2	0	5011	0.0	67.0	-67.0
3	765 kV	SOLAPUR-RAICHUR	2	1725	842	7.6	7.7	-0.1
4	765 kV	WARDHA-NIZAMABAD	2	0	1843	0.0	30.4	-30.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	1848	0.0	30.3	-30.3
6	400 kV	KOLHAPUR-KUDGI	2	1500	0	19.2	0.0	19.2
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	85	2.0	0.0	2.0
WR-SR						28.8	158.7	-130.0

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)	-139	22	-62	-1.49
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	291	88	150	3.61
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-275	0	-108	-2.59
	NER	132kV GELEPHU-SALAKATI	28	14	23	0.56
	NER	132kV MOTANGA-RANGIA	11	-3	3	0.07
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.30
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	76	-59	47	1.14
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-461	-456	-459	-11.01
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-760	-457	-652	-15.65
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-126	0	-102	-2.44

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 04-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	5.43	0.00	0.00	0.00	0.00	0.00	5.43
Nepal	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
Bangladesh	10.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.92
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	11.05	0.00	5.43	0.00	0.00	0.00	0.00	0.00	16.48

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73
Nepal	0.00	0.00	1.11	0.00	0.00	0.17	0.00	0.00	1.28
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	0.73	0.00	1.11	0.00	0.00	0.17	0.00	0.00	2.01

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	0.73	0.00	-5.43	0.00	0.00	0.00	0.00	0.00	-4.70
Nepal	-0.13	0.00	1.11	0.00	0.00	0.17	0.00	0.00	1.15
Bangladesh	-10.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10.92
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-10.32	0.00	-4.32	0.00	0.00	0.17	0.00	0.00	-14.47