



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: 19th 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 18.11.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 19-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)	48880	56421	46958	20347	2509	175115
Peak Shortage (MW)	0	7	0	100	15	122
Energy Met (MU)	1070	1397	1101	432	43	4044
Hydro Gen (MU)	125	40	45	23	14	247
Wind Gen (MU)	12	55	37	-	-	104
Solar Gen (MU)*	89.62	54.64	106.40	5.24	0.84	257
Energy Shortage (MU)	0.89	0.16	0.00	0.58	0.03	1.66
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53402	69383	52474	21489	2712	195832
Time Of Maximum Demand Met	10:17	10:55	11:43	18:02	17:18	10:24

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	0.060	0.00	2.46	13.16	15.62	74.09	10.29

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	6595	0	131.1	42.5	-0.9	195	0.00
	Haryana	6693	8	131.3	97.0	-0.6	216	0.01
	Rajasthan	15396	0	296.8	131.3	-1.8	266	0.00
	Delhi	3558	0	66.1	57.0	-0.2	225	0.00
	UP	17074	0	314.6	110.1	-2.4	876	0.00
	Uttarakhand	1978	0	37.3	27.4	-0.1	154	0.00
	HP	1896	0	33.6	25.7	-0.4	74	0.00
	J&K(UT) & Ladakh(UT)	2470	0	52.0	44.3	1.6	496	0.88
	Chandigarh	185	0	3.3	3.4	0.0	58	0.00
Railways NR ISTS	197	0	4.0	3.8	0.2	28	0.00	
WR	Chhattisgarh	4119	59	86.5	38.3	1.5	505	0.16
	Gujarat	18527	0	360.7	177.3	-0.1	639	0.00
	MP	16730	0	322.1	194.4	-3.8	606	0.00
	Maharashtra	26508	0	554.8	211.7	0.9	721	0.00
	Goa	704	0	14.1	13.2	0.4	105	0.00
	DNHDDPDCL	1229	0	27.9	27.7	0.2	75	0.00
	AMNSIL	839	0	18.8	8.8	0.2	279	0.00
	BALCO	524	0	12.5	12.5	0.0	15	0.00
SR	Andhra Pradesh	11263	0	223.1	105.0	-1.3	385	0.00
	Telangana	10111	0	211.7	104.9	0.3	621	0.00
	Karnataka	13924	0	258.7	116.7	1.5	833	0.00
	Kerala	4047	0	84.6	69.3	0.9	396	0.00
	Tamil Nadu	15325	0	314.9	172.7	-1.1	369	0.00
	Puducherry	383	0	8.5	8.1	-0.2	35	0.00
ER	Bihar	4546	0	88.8	78.8	-1.2	166	0.00
	DVC	3281	0	70.0	-41.2	0.3	287	0.00
	Jharkhand	1604	149	30.4	23.8	-2.2	191	0.58
	Odisha	4978	0	100.0	29.5	-0.7	320	0.00
	West Bengal	7058	0	141.3	7.0	-2.4	177	0.00
	Sikkim	89	0	1.3	1.4	-0.1	11	0.00
Railways ER ISTS	14	0	0.1	0.1	0.0	0	0.00	
NER	Arunachal Pradesh	155	0	2.6	2.3	0.1	47	0.00
	Assam	1622	0	26.2	18.9	0.2	124	0.00
	Manipur	195	0	2.5	2.5	0.0	24	0.00
	Meghalaya	325	0	6.0	3.9	-0.1	46	0.03
	Mizoram	121	0	1.6	1.7	-0.2	6	0.00
	Nagaland	152	0	1.9	1.7	-0.2	12	0.00
Tripura	194	0	2.4	1.8	-0.4	29	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-2.5	11.1	-17.1	-19.9
Day Peak (MW)	-332.7	492.0	-1047.0	-1461.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	196.5	-170.6	180.1	-199.5	-6.5	0.0
Actual(MU)	201.3	-156.7	186.5	-227.8	-8.1	-4.8
O/D/U/D(MU)	4.8	13.9	6.4	-28.3	-1.6	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5615	11569	5118	2966	155	25422	41
State Sector	10916	15266	7109	2577	166	36034	59
Total	16531	26835	12227	5543	321	61456	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	649	1456	638	697	15	3455	78
Lignite	22	13	52	0	0	87	2
Hydro	125	40	45	23	14	247	6
Nuclear	21	52	76	0	0	148	3
Gas, Naptha & Diesel	10	10	2	0	27	49	1
RES (Wind, Solar, Biomass & Others)	119	111	176	7	1	414	9
Total	945	1683	990	727	57	4401	100

Share of RES in total generation (%)	12.62	6.61	17.82	0.91	1.49	9.42
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.02	12.09	30.06	4.02	26.24	18.40

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.044

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	195832	10:24	0
Non-Solar hr	185392	18:10	304

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: 19-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	48	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	0	1169	0.0	20.5	-20.5
4	765 kV	SASARAM-FATEHPUR	1	0	742	0.0	14.2	-14.2
5	765 kV	GAYA-BALIA	1	0	536	0.0	9.9	-9.9
6	400 kV	PUSAULI-VARANASI	1	36	16	0.3	0.0	0.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	83	0.0	1.4	-1.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	861	0.0	16.8	-16.8
9	400 kV	PATNA-BALIA	2	0	669	0.0	13.9	-13.9
10	400 kV	NAUBATPUR-BALIA	2	0	721	0.0	14.7	-14.7
11	400 kV	BIHARSHARIFF-BALIA	2	0	403	0.0	7.8	-7.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	559	0.0	11.2	-11.2
13	400 kV	BIHARSHARIFF-VARANASI	2	0	473	0.0	8.6	-8.6
14	220 kV	SAHUPURI-KARAMNANA	1	0	152	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	0.3	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	0.7	122.7	-122.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	131	1222	0.0	12.7	-12.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1534	0.0	16.6	-16.6
3	765 kV	JHARSUGUDA-DURG	2	0	760	0.0	15.5	-15.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	614	0.0	9.6	-9.6
5	400 kV	RANCHI-SIPAT	2	0	464	0.0	6.5	-6.5
6	220 kV	BUDHIPADAR-RAIGARH	1	19	98	0.0	0.8	-0.8
7	220 kV	BUDHIPADAR-KORBA	2	117	55	0.9	0.0	0.9
					ER-WR	0.9	61.6	-60.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	552	0.0	12.3	-12.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1996	0.0	48.2	-48.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2948	0.0	54.8	-54.8
4	400 kV	TALCHER-I/C	2	0	164	0.0	3.6	-3.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	115.2	-115.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	332	0	4.8	0.0	4.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	1030	0	15.6	0.0	15.6
3	220 kV	ALIPURDUAR-SALAKATI	2	195	0	3.2	0.0	3.2
					ER-NER	23.6	0.0	23.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	665	0	16.0	0.0	16.0
					NER-NR	16.0	0.0	16.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	807	0.0	18.8	-18.8
2	HVDC	VINDHYACHAL B/B	-	430	0	10.3	0.0	10.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1169	0.0	21.4	-21.4
4	765 kV	GWALIOR-AGRA	2	0	1764	0.0	24.8	-24.8
5	765 kV	GWALIOR-PHAGI	2	0	2151	0.0	36.2	-36.2
6	765 kV	JABALPUR-ORAI	2	0	726	0.0	22.6	-22.6
7	765 kV	GWALIOR-ORAI	1	1110	0	19.4	0.0	19.4
8	765 kV	SATNA-ORAI	1	0	1137	0.0	22.8	-22.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1936	0	23.2	0.0	23.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	1734	0.0	29.0	-29.0
11	400 kV	ZERDA-KANKROLI	1	238	0	3.1	0.0	3.1
12	400 kV	ZERDA-BHINMAL	1	358	152	1.4	0.0	1.4
13	400 kV	VINDHYACHAL-RIHAND	1	960	0	22.4	0.0	22.4
14	400 kV	RAPP-SHUALPUR	2	212	313	0.5	2.1	-1.6
15	220 kV	BHANPURA-RANPUR	1	0	150	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	114	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	82	0	0.9	0.0	0.9
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	82.7	181.7	-99.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1007	0.0	13.7	-13.7
2	HVDC	RAIGARH-PUGALUR	2	0	5034	0.0	57.7	-57.7
3	765 kV	SOLAPUR-RAICHUR	2	1237	1152	6.1	6.6	-0.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2528	0.0	38.7	-38.7
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2238	0.0	32.8	-32.8
6	400 kV	KOLHAPUR-KUDGI	2	1432	0	22.6	0.0	22.6
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	119	2.2	0.0	2.2
					WR-SR	31.0	149.4	-118.5

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)	-72	22	-27	-0.65
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	117	62	117	4.52
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-273	-207	-241	-5.78
	NER	132kV GELEPHU-SALAKATI	-38	-19	-27	-0.65
	NER	132kV MOTANGA-RANGIA	11	-4	3	0.08
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.67
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	418	254	392	9.40
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-933	-353	-633	-15.20
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1462	-403	-830	-19.93
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-114	0	-78	-1.86

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 19-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	15.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.68
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	15.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.68

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87
Nepal	0.00	0.00	11.47	0.00	0.00	0.31	0.00	0.00	11.78
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	0.87	0.00	11.47	0.00	0.00	0.31	0.00	0.00	12.65

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	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87
Nepal	0.00	0.00	11.47	0.00	0.00	0.31	0.00	0.00	11.78
Bangladesh	-15.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-15.68
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-14.81	0.00	11.47	0.00	0.00	0.31	0.00	0.00	-3.03