

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: 11th 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 10.11.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10th November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 11-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)	48219	60441	45182	20920	2633	177395
Peak Shortage (MW)	0	0	0	373	20	393
Energy Met (MU)	1103	1508	1010	445	49	4115
Hydro Gen (MU)	132	39	37	32	15	254
Wind Gen (MU)	19	32	40	-	-	91
Solar Gen (MU)*	109.85	52.45	101.52	5.24	1.16	270
Energy Shortage (MU)	0.55	0.00	0.00	1.82	0.03	2.40
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53674	73369	46841	22112	2907	194379
Time Of Maximum Demand Met	11:57	11:00	12:30	18:01	17:14	11:25

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	0.038	0.00	0.00	1.97	1.97	72.43	25.60

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	6505	0	126.7	47.3	-1.0	174	0.00
	Haryana	6533	0	132.8	86.6	-2.2	197	0.00
	Rajasthan	15461	0	304.3	120.4	-7.0	333	0.00
	Delhi	4097	0	75.8	67.3	-0.8	241	0.00
	UP	16746	0	335.3	129.7	-2.1	225	0.00
	Uttarakhand	2054	0	40.7	29.6	0.4	169	0.00
	HP	1879	0	34.4	26.1	-0.6	44	0.05
	J&K(UT) & Ladakh(UT)	2524	0	46.2	41.3	0.5	391	0.50
	Chandigarh	190	0	3.6	3.7	-0.1	22	0.00
Railways NR ISTS	185	0	3.7	3.6	0.1	17	0.00	
WR	Chhattisgarh	4401	0	93.6	41.7	-0.5	662	0.00
	Gujarat	21202	0	420.0	210.4	-0.1	395	0.00
	MP	16873	0	335.9	209.4	-5.3	506	0.00
	Maharashtra	28006	0	584.3	228.1	-3.4	728	0.00
	Goa	688	0	14.2	13.2	0.4	45	0.00
	DNHDDPDCL	1247	0	28.9	28.7	0.2	59	0.00
	AMNSIL	835	0	18.9	9.4	0.0	263	0.00
	BALCO	521	0	12.4	12.5	-0.1	6	0.00
SR	Andhra Pradesh	9938	0	204.5	87.1	-1.6	378	0.00
	Telangana	9948	0	208.4	95.7	0.4	644	0.00
	Karnataka	10587	0	210.4	89.1	-9.0	747	0.00
	Kerala	3857	0	78.3	61.3	0.6	209	0.00
	Tamil Nadu	14510	0	299.7	174.0	-2.6	320	0.00
	Puducherry	412	0	8.9	9.3	-0.4	19	0.00
ER	Bihar	4813	0	90.3	82.5	1.8	367	0.15
	DVC	3287	0	70.5	-41.1	0.1	324	0.00
	Jharkhand	1551	196	30.7	22.4	-1.3	170	1.67
	Odisha	4694	0	101.8	20.5	-0.9	460	0.00
	West Bengal	7577	0	149.9	19.3	-2.9	115	0.00
	Sikkim	90	0	1.4	1.4	-0.1	6	0.00
Railways ER ISTS	21	0	0.1	0.2	-0.1	0	0.00	
NER	Arunachal Pradesh	158	0	2.8	2.5	0.1	39	0.00
	Assam	1710	0	29.4	22.4	0.0	156	0.00
	Manipur	193	0	2.7	2.6	0.0	42	0.00
	Meghalaya	344	0	6.2	4.8	-0.1	167	0.03
	Mizoram	143	0	1.9	1.5	-0.2	21	0.00
	Nagaland	148	0	2.3	2.2	-0.1	23	0.00
Tripura	251	0	4.2	3.5	-0.5	32	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	1.9	9.0	-21.3	-21.4
Day Peak (MW)	177.3	365.0	-1093.0	-1045.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	201.7	-129.9	117.4	-187.6	-1.5	0.0
Actual(MU)	192.7	-119.5	113.9	-191.8	-0.8	-5.4
O/D/U/D(MU)	-9.0	10.5	-3.5	-4.2	0.8	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5448	9629	3708	4326	205	23315	43
State Sector	9166	12323	7539	1625	130	30782	57
Total	14614	21951	11247	5951	335	54097	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	659	1557	618	663	13	3512	78
Lignite	21	19	59	0	0	99	2
Hydro	132	38	37	32	15	254	6
Nuclear	20	53	75	0	0	149	3
Gas, Naptha & Diesel	10	15	4	0	27	56	1
RES (Wind, Solar, Biomass & Others)	144	87	178	7	1	416	9
Total	986	1770	971	702	56	4486	100

Share of RES in total generation (%)	14.56	4.89	18.33	1.00	2.06	9.28
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.99	10.05	29.88	5.53	28.18	18.25

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.050

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	194379	11:25	0
Non-Solar hr	186601	18:15	881

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: 11-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	500	0.0	12.7	-12.7
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	782	0.0	12.4	-12.4
4	765 kV	SASARAM-FATEHPUR	1	0	462	0.0	5.2	-5.2
5	765 kV	GAYA-BALIA	1	0	593	0.0	12.0	-12.0
6	400 kV	PUSAULI-VARANASI	1	39	50	0.0	0.1	-0.1
7	400 kV	PUSAULI-ALLAHABAD	1	5	83	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	549	0.0	8.7	-8.7
9	400 kV	PATNA-BALIA	2	0	438	0.0	7.9	-7.9
10	400 kV	NAUBATPUR-BALIA	2	0	471	0.0	8.2	-8.2
11	400 kV	BIHARSHARIF-BALIA	2	61	244	0.0	2.8	-2.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	354	0.0	6.0	-6.0
13	400 kV	BIHARSHARIF-VARANASI	2	0	373	0.0	5.1	-5.1
14	220 kV	SAHUPURI-KARAMNANA	1	0	182	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						0.5	86.0	-85.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	67	854	0.0	11.6	-11.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	448	507	0.0	0.3	-0.3
3	765 kV	JHARSUGUDA-DURG	2	0	678	0.0	14.1	-14.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	620	0.0	9.4	-9.4
5	400 kV	RANCHI-SIPAT	2	30	218	0.0	1.9	-1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	131	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	89	58	0.6	0.0	0.6
ER-WR						0.6	38.9	-38.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	578	0.0	12.2	-12.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1643	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2689	0.0	46.3	-46.3
4	400 kV	TALCHER-I/C	2	270	0	5.3	0.0	5.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	98.1	-98.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	335	0.0	5.4	-5.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	152	638	0.0	8.5	-8.5
3	220 kV	ALIPURDUAR-SALAKATI	2	24	118	0.0	1.6	-1.6
ER-NER						0.0	15.5	-15.5
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	1830	0.0	30.0	-30.0
2	HVDC	VINDHYACHAL B/B	-	431	0	7.2	0.0	7.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	496	0.0	11.9	-11.9
4	765 kV	GWALIOR-AGRA	2	0	1450	0.0	18.7	-18.7
5	765 kV	GWALIOR-PHAGI	2	0	1792	0.0	30.3	-30.3
6	765 kV	JABALPUR-ORAI	2	0	647	0.0	22.1	-22.1
7	765 kV	GWALIOR-ORAI	1	922	0	17.4	0.0	17.4
8	765 kV	SATNA-ORAI	1	0	931	0.0	20.0	-20.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1995	0	29.0	0.0	29.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2364	0.0	45.4	-45.4
11	400 kV	ZERDA-KANKROLI	1	263	0	3.9	0.0	3.9
12	400 kV	ZERDA -BHINMAL	1	590	141	4.3	0.0	4.3
13	400 kV	VINDHYACHAL -RIHAND	1	955	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUALPUR	2	474	152	1.9	0.0	1.9
15	220 kV	BHANPURA-RANPUR	1	0	151	0.0	2.6	-2.6
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3
17	220 kV	MEHGAON-AURAIYA	1	102	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	72	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						88.5	182.3	-93.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	616	0.0	14.4	-14.4
2	HVDC	RAIGARH-PUGALUR	2	0	2506	0.0	44.8	-44.8
3	765 kV	SOLAPUR-RAICHUR	2	2216	884	19.0	1.8	17.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2048	0.0	26.3	-26.3
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2102	0.0	25.1	-25.1
6	400 kV	KOLHAPUR-KUDGI	2	1786	0	28.1	0.0	28.1
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	2.3	0.0	2.3
WR-SR						49.4	112.4	-63.0

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)	38	-35	0	0.00
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	221	127	207	4.97
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-188	-60	-148	-3.56
	NER	132kV GELEPHU-SALAKATI	11	0	1	0.02
	NER	132kV MOTANGA-RANGIA	28	11	19	0.45
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.56
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	365	255	308	7.40
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-931	-663	-790	-18.95
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1045	-807	-890	-21.36
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-162	0	-98	-2.36

