

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: 08th 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 07.11.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 07th November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 08-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)	52199	62850	45318	20861	2642	183870
Peak Shortage (MW)	120	0	0	723	14	857
Energy Met (MU)	1150	1531	1026	445	48	4201
Hydro Gen (MU)	132	40	51	37	17	279
Wind Gen (MU)	5	25	23	-	-	53
Solar Gen (MU)*	99.45	56.63	80.88	2.91	0.99	241
Energy Shortage (MU)	1.41	0.00	0.00	2.73	0.05	4.19
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56782	72848	48891	21898	2886	196615
Time Of Maximum Demand Met	18:24	10:57	12:27	17:46	17:25	10:37

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	0.033	0.00	0.29	6.45	6.74	79.94	13.32

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	6797	0	136.4	43.7	-0.5	128	0.00
	Haryana	7127	0	143.3	94.4	-1.6	45	0.00
	Rajasthan	15781	0	324.0	130.0	0.3	315	0.00
	Delhi	4002	0	77.9	68.7	0.2	276	0.00
	UP	18144	0	335.7	104.6	-1.4	1011	0.00
	Uttarakhand	2060	0	39.6	28.4	0.4	109	0.00
	HP	1878	0	33.3	24.8	0.0	50	0.10
	J&K(UT) & Ladakh(UT)	2575	0	52.7	40.9	4.2	632	1.31
	Chandigarh	198	0	3.6	3.6	0.0	21	0.00
Railways NR ISTS	183	0	3.6	3.6	0.0	22	0.00	
WR	Chhattisgarh	4387	0	92.5	33.2	-1.4	206	0.00
	Gujarat	21644	0	435.4	188.1	1.1	515	0.00
	MP	15926	0	328.8	204.1	-2.6	510	0.00
	Maharashtra	28040	0	599.1	225.2	-9.1	627	0.00
	Goa	707	0	14.4	13.4	0.5	64	0.00
	DNHDDPDCL	1246	0	28.6	28.6	0.0	36	0.00
	AMNSIL	905	0	19.8	9.5	-0.2	278	0.00
	BALCO	536	0	12.4	12.5	-0.1	5	0.00
SR	Andhra Pradesh	10149	0	206.8	88.2	-1.0	840	0.00
	Telangana	10597	0	204.2	94.4	-0.3	554	0.00
	Karnataka	11341	0	220.2	77.5	-4.8	876	0.00
	Kerala	3999	0	80.7	60.2	0.6	299	0.00
	Tamil Nadu	15224	0	304.8	177.3	-2.3	372	0.00
	Puducherry	435	0	9.3	9.4	-0.1	32	0.00
ER	Bihar	4488	0	88.3	85.6	-3.0	190	1.47
	DVC	3134	0	69.9	-38.7	-0.3	311	0.00
	Jharkhand	1557	0	29.5	22.2	-1.7	202	1.26
	Odisha	4956	0	104.3	22.5	-1.6	253	0.00
	West Bengal	7695	0	151.9	23.0	-2.4	229	0.00
	Sikkim	86	0	1.3	1.1	0.1	28	0.00
Railways ER ISTS	23	0	0.1	0.2	-0.1	12	0.00	
NER	Arunachal Pradesh	156	0	2.4	2.6	-0.4	11	0.00
	Assam	1723	0	29.0	23.0	0.2	183	0.00
	Manipur	198	0	2.5	2.7	-0.2	19	0.00
	Meghalaya	356	0	6.3	4.8	-0.4	62	0.05
	Mizoram	119	0	1.8	1.6	-0.4	10	0.00
	Nagaland	144	0	2.2	2.3	-0.2	11	0.00
Tripura	257	0	4.4	3.8	-0.1	16	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	9.3	9.5	-21.4	-26.3
Day Peak (MW)	395.2	383.0	-921.0	-1365.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	210.4	-193.1	132.9	-152.4	-3.7	-5.9
Actual(MU)	216.1	-166.9	129.7	-183.1	-4.6	-8.8
O/D/U/D(MU)	5.8	26.2	-3.2	-30.7	-0.9	-2.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5843	8740	6618	4886	230	26317	54
State Sector	7326	7175	5271	2525	243	22540	46
Total	13169	15915	11889	7411	473	48857	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	698	1637	641	656	15	3646	80
Lignite	28	19	63	0	0	110	2
Hydro	132	40	51	37	17	279	6
Nuclear	18	53	71	0	0	142	3
Gas, Naptha & Diesel	13	17	4	0	26	60	1
RES (Wind, Solar, Biomass & Others)	119	84	142	4	1	350	8
Total	1008	1850	971	697	59	4586	100

Share of RES in total generation (%)	11.82	4.52	14.62	0.58	1.70	7.63
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.72	9.58	27.15	5.95	30.81	16.79

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
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	196615	10:37	38
Non-Solar hr	195530	18:24	1141

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-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	501	0.0	12.1	-12.1
2	HVDC	PUSAULI B/B	-	0	48	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	772	0.0	13.4	-13.4
4	765 kV	SASARAM-FATEHPUR	1	0	444	0.0	8.2	-8.2
5	765 kV	GAYA-BALIA	1	0	589	0.0	12.0	-12.0
6	400 kV	PUSAULI-VARANASI	1	37	23	0.4	0.0	0.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	81	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	574	0.0	9.6	-9.6
9	400 kV	PATNA-BALIA	2	0	421	0.0	7.3	-7.3
10	400 kV	NAUBATPUR-BALIA	2	0	451	0.0	7.3	-7.3
11	400 kV	BIHARSHARIF-BALIA	2	0	231	0.0	3.3	-3.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	342	0.0	5.5	-5.5
13	400 kV	BIHARSHARIF-VARANASI	2	0	291	0.0	4.8	-4.8
14	220 kV	SAHUPURI-KARAMNUSA	1	0	97	0.0	1.5	-1.5
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-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.8	87.2	-86.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	770	0.0	11.3	-11.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	432	670	0.0	2.9	-2.9
3	765 kV	JHARSUGUDA-DURG	2	0	730	0.0	14.2	-14.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	563	0.0	8.7	-8.7
5	400 kV	RANCHI-SIPAT	2	82	287	0.0	2.4	-2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	130	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	124	20	1.4	0.0	1.4
ER-WR						1.4	41.3	-39.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	523	0.0	11.9	-11.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	42.3	-42.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2277	0.0	40.9	-40.9
4	400 kV	TALCHER-I/C	2	279	279	2.7	0.0	2.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	95.1	-95.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	275	0.0	3.5	-3.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	232	496	0.0	3.5	-3.5
3	220 kV	ALIPURDUAR-SALAKATI	2	25	90	0.0	0.8	-0.8
ER-NER						0.0	7.8	-7.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	706	0.0	12.7	-12.7
NER-NR						0.0	12.7	-12.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	820	0.0	19.6	-19.6
2	HVDC	VINDHYACHAL B/B	-	431	0	6.8	0.0	6.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	24.1	-24.1
4	765 kV	GWALIOR-AGRA	2	0	1536	0.0	23.3	-23.3
5	765 kV	GWALIOR-PHAGI	2	0	2012	0.0	35.7	-35.7
6	765 kV	JABALPUR-ORAI	2	0	757	0.0	25.6	-25.6
7	765 kV	GWALIOR-ORAI	1	1069	0	18.5	0.0	18.5
8	765 kV	SATNA-ORAI	1	0	1030	0.0	21.6	-21.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1596	0	22.2	0.0	22.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2533	0.0	44.6	-44.6
11	400 kV	ZERDA-KANKROLI	1	193	0	2.8	0.0	2.8
12	400 kV	ZERDA -BHINMAL	1	408	122	1.8	0.0	1.8
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	22.3	0.0	22.3
14	400 kV	RAPP-SHUALPUR	2	356	287	0.0	0.8	-0.8
15	220 kV	BHANPURA-RANPUR	1	0	172	0.0	2.8	-2.8
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	160	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	71	3	0.5	0.0	0.5
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						76.7	199.9	-123.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1007	0.0	23.8	-23.8
2	HVDC	RAIGARH-PUGALUR	2	0	3008	0.0	55.3	-55.3
3	765 kV	SOLAPUR-RAICHUR	2	1675	116	20.0	0.1	20.0
4	765 kV	WARDHA-NIZAMABAD	2	0	1876	0.0	25.8	-25.8
5	765 kV	WARORA-WARANGAL(NEW)	2	0	1776	0.0	23.4	-23.4
6	400 kV	KOLHAPUR-KUDGI	2	1361	0	23.0	0.0	23.0
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	116	2.3	0.0	2.3
WR-SR						45.3	128.3	-83.0

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)	97	-4	18	0.44
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	241	143	241	11.30
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-190	28	-111	-2.67
	NER	132kV GELEPHU-SALAKATI	12	-11	-2	-0.05
	NER	132kV MOTANGA-RANGIA	31	-14	10	0.24
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.57
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	383	194	328	7.88
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-781	-660	-773	-18.54
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1365	-860	-1096	-26.30
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-140	0	-120	-2.88

