



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: 09th 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 08.11.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 08th November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 09-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)	52405	62822	45084	21254	2598	184163
Peak Shortage (MW)	240	0	0	643	0	883
Energy Met (MU)	1150	1532	1020	448	50	4199
Hydro Gen (MU)	134	44	48	32	17	276
Wind Gen (MU)	2	19	25	-	-	47
Solar Gen (MU)*	88.02	53.51	82.08	3.23	1.08	228
Energy Shortage (MU)	1.20	0.00	0.00	2.33	0.00	3.53
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56849	72868	48786	22663	2901	197001
Time Of Maximum Demand Met	18:17	11:00	11:54	17:29	17:20	10:31

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	0.049	0.00	1.77	8.93	10.70	75.64	13.66

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	6839	0	139.3	44.7	0.2	138	0.00
	Haryana	7073	0	143.6	87.0	-0.4	120	0.00
	Rajasthan	15678	0	320.2	136.8	-2.1	412	0.00
	Delhi	4047	0	77.9	69.1	-0.2	228	0.00
	UP	18229	0	334.3	103.6	-2.2	1215	0.18
	Uttarakhand	2076	0	39.8	29.4	0.1	99	0.00
	HP	1917	0	34.7	26.2	-0.5	27	0.09
	J&K(UT) & Ladakh(UT)	2478	85	52.9	41.0	4.3	476	0.93
	Chandigarh	198	0	3.6	3.8	-0.2	22	0.00
Railways NR ISTS	183	0	3.7	3.6	0.1	24	0.00	
WR	Chhattisgarh	4369	0	91.1	31.0	-1.3	171	0.00
	Gujarat	21421	0	431.3	190.4	-0.2	588	0.00
	MP	16482	0	331.1	211.0	-4.0	784	0.00
	Maharashtra	28104	0	603.6	220.9	-0.9	568	0.00
	Goa	665	0	13.0	12.2	0.4	62	0.00
	DNHDDPDCL	1267	0	28.9	28.9	0.0	42	0.00
	AMNSIL	887	0	20.1	9.8	-0.1	265	0.00
	BALCO	519	0	12.4	12.4	0.0	7	0.00
SR	Andhra Pradesh	10136	0	207.1	94.6	0.8	884	0.00
	Telangana	10232	0	198.6	90.1	-0.2	723	0.00
	Karnataka	11537	0	223.2	90.0	-2.4	824	0.00
	Kerala	4010	0	79.5	61.4	0.8	517	0.00
	Tamil Nadu	15023	0	302.6	174.2	-1.5	730	0.00
	Puducherry	449	0	9.2	9.4	-0.2	40	0.00
ER	Bihar	4638	0	86.9	83.6	-2.3	259	1.12
	DVC	3115	0	68.9	-35.3	-0.5	271	0.00
	Jharkhand	1525	235	30.1	21.9	-0.9	243	1.21
	Odisha	5264	0	111.0	26.7	-1.8	186	0.00
	West Bengal	7596	0	149.6	23.2	-2.5	120	0.00
	Sikkim	86	0	1.3	1.2	0.1	29	0.00
Railways ER ISTS	20	0	0.1	0.2	0.0	13	0.00	
NER	Arunachal Pradesh	149	0	2.5	2.6	-0.3	24	0.00
	Assam	1713	0	29.9	24.4	0.6	110	0.00
	Manipur	198	0	2.5	2.7	-0.2	21	0.00
	Meghalaya	351	0	6.6	5.1	-0.3	66	0.00
	Mizoram	128	0	1.8	1.6	-0.4	12	0.00
	Nagaland	147	0	2.3	2.3	-0.2	13	0.00
Tripura	247	0	4.2	3.6	-0.2	11	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	4.5	8.4	-21.6	-27.0
Day Peak (MW)	489.0	364.9	-1061.0	-1368.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	204.3	-199.1	130.8	-138.3	-1.8	-4.2
Actual(MU)	206.9	-170.8	133.4	-174.4	-3.2	-8.1
O/D/U/D(MU)	2.7	28.3	2.6	-36.1	-1.4	-3.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5448	9340	6478	4286	230	25782	48
State Sector	6841	9518	8001	2975	181	27515	52
Total	12289	18858	14479	7261	411	53297	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	728	1632	631	654	16	3661	80
Lignite	27	19	62	0	0	108	2
Hydro	135	45	49	32	18	277	6
Nuclear	20	53	71	0	0	144	3
Gas, Naptha & Diesel	12	20	4	0	24	59	1
RES (Wind, Solar, Biomass & Others)	106	76	145	4	1	332	7
Total	1028	1844	961	690	58	4581	100

Share of RES in total generation (%)	9.88	4.11	15.07	0.63	1.90	7.15
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.99	9.41	27.48	4.67	32.23	16.27

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.060

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	197001	10:31	1
Non-Solar hr	195350	18:17	891

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: 09-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	502	0.0	12.7	-12.7
2	HVDC	PUSAULI B/B	-	0	49	0.0	0.7	-0.7
3	765 kV	GAYA-VARANASI	2	0	712	0.0	10.8	-10.8
4	765 kV	SASARAM-FATEHPUR	1	0	413	0.0	7.2	-7.2
5	765 kV	GAYA-BALIA	1	0	639	0.0	11.7	-11.7
6	400 kV	PUSAULI-VARANASI	1	44	21	0.1	0.0	0.1
7	400 kV	PUSAULI-ALLAHABAD	1	21	68	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	552	0.0	8.1	-8.1
9	400 kV	PATNA-BALIA	2	0	342	0.0	6.1	-6.1
10	400 kV	NAUBATPUR-BALIA	2	0	357	0.0	6.2	-6.2
11	400 kV	BIHARSHARIFF-BALIA	2	0	219	0.0	3.9	-3.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	289	0.0	4.6	-4.6
13	400 kV	BIHARSHARIFF-VARANASI	2	0	271	0.0	4.5	-4.5
14	220 kV	SAHUPURI-KARAMNUSA	1	0	92	0.0	1.3	-1.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.2	0.0	0.2
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						0.6	78.4	-77.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	167	696	0.0	8.3	-8.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	441	483	0.2	0.0	0.2
3	765 kV	JHARSUGUDA-DURG	2	0	659	0.0	12.7	-12.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	379	0.0	5.3	-5.3
5	400 kV	RANCHI-SIPAT	2	100	187	0.0	1.0	-1.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	139	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	109	15	1.0	0.0	1.0
ER-WR						1.2	29.5	-28.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	525	0.0	11.9	-11.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1996	0.0	47.9	-47.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2263	0.0	39.9	-39.9
4	400 kV	TALCHER-I/C	2	240	193	0.0	2.9	-2.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	99.7	-99.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	283	0.0	4.8	-4.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	54	500	0.0	7.5	-7.5
3	220 kV	ALIPURDUAR-SALAKATI	2	5	101	0.0	1.5	-1.5
ER-NER						0.0	13.8	-13.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	706	0.0	17.0	-17.0
NER-NR						0.0	17.0	-17.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	820	0.0	19.6	-19.6
2	HVDC	VINDHYACHAL B/B	-	431	0	10.3	0.0	10.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	980	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	97	1621	0.0	22.1	-22.1
5	765 kV	GWALIOR-PHAGI	2	0	2004	0.0	36.2	-36.2
6	765 kV	JABALPUR-ORAI	2	0	836	0.0	25.6	-25.6
7	765 kV	GWALIOR-ORAI	1	979	0	18.2	0.0	18.2
8	765 kV	SATNA-ORAI	1	0	1067	0.0	21.5	-21.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1380	0	18.7	0.0	18.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2600	0.0	47.0	-47.0
11	400 kV	ZERDA-KANKROLI	1	160	24	2.0	0.0	2.0
12	400 kV	ZERDA -BHINMAL	1	311	241	0.1	0.0	0.1
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	22.3	0.0	22.3
14	400 kV	RAPP-SHUALPUR	2	289	332	0.0	1.0	-1.0
15	220 kV	BHANPURA-RANPUR	1	0	179	0.0	2.9	-2.9
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	111	0	1.7	0.0	1.7
18	220 kV	MALANPUR-AURAIYA	1	81	0	1.0	0.0	1.0
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						74.2	189.9	-115.7
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	3007	0.0	58.4	-58.4
3	765 kV	SOLAPUR-RAICHUR	2	1659	315	18.7	0.2	18.5
4	765 kV	WARDHA-NIZAMABAD	2	0	1802	0.0	23.7	-23.7
5	765 kV	WARORA-WARANGAL(NEW)	2	0	1797	0.0	22.1	-22.1
6	400 kV	KOLHAPUR-KUDGI	2	1370	0	24.4	0.0	24.4
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	108	2.1	0.0	2.1
WR-SR						45.2	128.2	-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)	147	-98	21	0.51
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	452	147	256	6.16
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-197	100	-117	-2.81
	NER	132kV GELEPHU-SALAKATI	21	-9	5	0.12
	NER	132kV MOTANGA-RANGIA	34	-5	22	0.52
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.60
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	251	230	251	6.83
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-927	-512	-785	-18.84
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1368	-908	-1123	-26.96
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-134	0	-116	-2.78

