

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: 06th 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 05.11.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 05th November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 06-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)	49606	59338	41374	21285	2516	174119
Peak Shortage (MW)	0	0	0	77	0	77
Energy Met (MU)	1101	1496	1013	450	47	4107
Hydro Gen (MU)	133	27	39	34	17	250
Wind Gen (MU)	4	41	34	-	-	79
Solar Gen (MU)*	106.33	57.89	89.03	2.63	1.17	257
Energy Shortage (MU)	0.14	0.00	0.00	0.60	0.00	0.74
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52703	71147	49356	22201	2695	192944
Time Of Maximum Demand Met	18:17	11:45	11:47	18:44	17:24	11:45

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	0.031	0.00	0.07	5.02	5.09	82.22	12.68

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	6285	0	128.5	45.2	-2.1	109	0.00
	Haryana	6165	0	129.7	88.7	-1.4	193	0.00
	Rajasthan	15372	0	313.5	119.3	-3.6	228	0.00
	Delhi	3819	0	72.5	64.5	0.2	216	0.00
	UP	17393	0	331.2	111.5	-2.3	1178	0.00
	Uttarakhand	1832	0	35.7	26.5	-0.1	102	0.00
	HP	1646	0	30.7	21.8	-0.3	23	0.00
	J&K(UT) & Ladakh(UT)	2420	0	52.6	42.8	2.1	327	0.14
	Chandigarh	176	0	3.2	3.3	-0.1	18	0.00
Railways NR ISTS	182	0	3.8	3.5	0.3	23	0.00	
WR	Chhattisgarh	4413	0	95.9	37.8	-0.9	206	0.00
	Gujarat	20855	0	427.9	186.8	-0.2	439	0.00
	MP	15779	0	321.2	203.0	-3.0	861	0.00
	Maharashtra	26678	0	578.5	228.9	-11.8	797	0.00
	Goa	656	0	13.7	12.2	0.8	40	0.00
	DNHDDPDCL	1182	0	27.4	27.6	-0.2	35	0.00
	AMNSIL	859	0	19.0	10.2	-0.4	277	0.00
BALCO	523	0	12.4	12.4	0.0	10	0.00	
SR	Andhra Pradesh	10982	0	214.2	91.1	-1.7	541	0.00
	Telangana	10961	0	209.7	106.3	-2.0	531	0.00
	Karnataka	13078	0	239.0	89.4	-5.2	490	0.00
	Kerala	3661	0	71.5	57.5	-0.6	206	0.00
	Tamil Nadu	12999	0	270.9	159.6	-1.8	843	0.00
	Puducherry	385	0	8.2	8.5	-0.4	28	0.00
ER	Bihar	5213	0	93.4	85.6	-0.5	273	0.33
	DVC	3212	0	68.3	-43.7	-0.3	317	0.00
	Jharkhand	1501	0	31.0	23.0	-1.7	161	0.27
	Odisha	4744	0	103.6	32.1	-0.6	242	0.00
	West Bengal	7430	0	152.3	22.0	-2.1	478	0.00
	Sikkim	81	0	1.1	0.9	0.2	31	0.00
	Railways ER ISTS	20	0	0.2	0.2	0.0	4	0.00
NER	Arunachal Pradesh	157	0	2.6	2.6	-0.3	21	0.00
	Assam	1565	0	26.5	20.7	-1.6	131	0.00
	Manipur	190	0	2.6	2.7	-0.1	19	0.00
	Meghalaya	320	0	6.1	5.0	-0.2	74	0.00
	Mizoram	109	0	1.9	1.5	-0.1	6	0.00
	Nagaland	132	0	2.3	2.3	-0.1	18	0.00
Tripura	261	0	4.7	4.6	-0.1	32	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	1.8	10.3	-22.0	-26.3
Day Peak (MW)	133.8	413.0	-940.0	-1321.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	187.5	-185.5	153.1	-156.8	1.7	0.0
Actual(MU)	188.0	-156.3	148.5	-181.5	-5.3	-6.6
O/D/U/D(MU)	0.5	29.2	-4.6	-24.7	-7.0	-6.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5623	8940	6908	4226	230	25927	53
State Sector	7191	8241	5131	2105	121	22788	47
Total	12814	17181	12039	6331	351	48715	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	682	1592	617	668	13	3572	80
Lignite	24	18	53	0	0	94	2
Hydro	133	27	39	34	17	250	6
Nuclear	20	52	71	0	0	143	3
Gas, Naptha & Diesel	10	9	4	0	28	50	1
RES (Wind, Solar, Biomass & Others)	119	100	155	4	1	379	8
Total	987	1798	938	706	59	4488	100

Share of RES in total generation (%)	12.06	5.58	16.52	0.53	1.98	8.45
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.50	10.00	28.20	5.33	30.82	17.19

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.053

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	192944	11:45	0
Non-Solar hr	184278	18:17	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: 06-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	12.9	-12.9
2	HVDC	PUSAULI B/B	-	0	48	0.0	1.6	-1.6
3	765 kV	GAYA-VARANASI	2	0	807	0.0	13.1	-13.1
4	765 kV	SASARAM-FATEHPUR	1	0	458	0.0	8.7	-8.7
5	765 kV	GAYA-BALIA	1	0	569	0.0	10.1	-10.1
6	400 kV	PUSAULI-VARANASI	1	25	53	0.0	0.0	0.0
7	400 kV	PUSAULI-ALLAHABAD	1	7	74	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	460	0.0	7.5	-7.5
9	400 kV	PATNA-BALIA	2	0	478	0.0	9.9	-9.9
10	400 kV	NAUBATPUR-BALIA	2	0	502	0.0	8.2	-8.2
11	400 kV	BIHARSHARIFF-BALIA	2	35	219	0.0	2.6	-2.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	322	0.0	4.9	-4.9
13	400 kV	BIHARSHARIFF-VARANASI	2	0	293	0.0	3.6	-3.6
14	220 kV	SAHUPURI-KARAMNANA	1	5	109	0.0	1.4	-1.4
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	85.2	-84.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	497	425	0.8	0.0	0.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	364	878	0.0	7.6	-7.6
3	765 kV	JHARSUGUDA-DURG	2	0	703	0.0	13.9	-13.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	606	0.0	8.4	-8.4
5	400 kV	RANCHI-SIPAT	2	42	365	0.0	4.2	-4.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	121	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	135	49	1.2	0.0	1.2
ER-WR						2.0	35.7	-33.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	546	0.0	11.9	-11.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	41.5	-41.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2821	0.0	48.6	-48.6
4	400 kV	TALCHER-I/C	2	661	172	3.5	0.0	3.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	101.9	-101.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	241	0.0	3.3	-3.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	286	358	0.0	3.3	-3.3
3	220 kV	ALIPURDUAR-SALAKATI	2	39	71	0.0	0.5	-0.5
ER-NER						0.0	7.1	-7.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.1	-12.1
NER-NR						0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	822	0.0	19.6	-19.6
2	HVDC	VINDHYACHAL B/B	-	46	246	0.3	4.6	-4.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	980	0.0	23.6	-23.6
4	765 kV	GWALIOR-AGRA	2	288	1636	0.2	17.4	-17.2
5	765 kV	GWALIOR-PHAGI	2	0	1778	0.0	31.6	-31.6
6	765 kV	JABALPUR-ORAI	2	0	627	0.0	19.1	-19.1
7	765 kV	GWALIOR-ORAI	1	961	0	18.5	0.0	18.5
8	765 kV	SATNA-ORAI	1	0	954	0.0	19.7	-19.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1746	0	25.4	0.0	25.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2324	0.0	32.3	-32.3
11	400 kV	ZERDA-KANKROLI	1	214	0	2.9	0.0	2.9
12	400 kV	ZERDA -BHINMAL	1	496	158	2.3	0.0	2.3
13	400 kV	VINDHYACHAL -RIHAND	1	960	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUALPUR	2	425	306	0.6	0.0	0.6
15	220 kV	BHANPURA-RANPUR	1	0	163	0.0	2.9	-2.9
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
17	220 kV	MEHGAON-AURAIYA	1	126	0	1.9	0.0	1.9
18	220 kV	MALANPUR-AURAIYA	1	96	0	1.2	0.0	1.2
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						75.4	172.3	-96.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	569	0.0	11.9	-11.9
2	HVDC	RAIGARH-PUGALUR	2	0	2004	0.0	40.9	-40.9
3	765 kV	SOLAPUR-RAICHUR	2	1128	1272	8.3	2.8	5.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2663	0.0	36.8	-36.8
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2674	0.0	35.8	-35.8
6	400 kV	KOLHAPUR-KUDGI	2	1286	0	21.0	0.0	21.0
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	114	2.2	0.0	2.2
WR-SR						31.5	128.2	-96.7

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)	46	-23	6	0.14
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	181	109	181	4.74
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-179	-67	-149	-3.58
	NER	132kV GELEPHU-SALAKATI	0	0	0	0.00
	NER	132kV MOTANGA-RANGIA	26	0	20	0.49
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.69
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	413	271	358	8.58
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-782	-624	-778	-18.68
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1322	-844	-1096	-26.30
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-158	0	-138	-3.32

