



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: 25th October 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 24.10.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-अक्टूबर-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 24th October 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 25-Oct-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 20:00 hrs; from RLDCs)	45392	55136	48078	18827	2458	169891
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1079	1425	1151	442	45	4142
Hydro Gen (MU)	164	37	48	45	20	314
Wind Gen (MU)	9	36	26	-	-	70
Solar Gen (MU)*	119.36	63.34	124.41	5.70	0.65	313
Energy Shortage (MU)	0.17	0.00	0.00	0.00	0.00	0.17
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51412	65714	56665	19704	2494	192544
Time Of Maximum Demand Met	09:53	11:02	12:29	18:08	18:16	10:55

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	0.024	0.00	0.00	1.57	1.57	81.01	17.42

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	6354	0	122.5	37.7	-1.9	137	0.00
	Haryana	6580	0	136.0	83.4	-1.6	88	0.00
	Rajasthan	14314	0	281.6	85.7	-4.1	239	0.00
	Delhi	3480	0	69.9	60.6	-0.2	179	0.00
	UP	16406	0	348.7	135.8	-1.4	760	0.00
	Uttarakhand	1711	0	33.8	21.9	-0.3	107	0.00
	HP	1596	0	28.6	18.0	-0.5	81	0.00
	J&K(UT) & Ladakh(UT)	2381	0	51.0	41.1	1.8	351	0.17
	Chandigarh	160	0	3.1	3.3	-0.2	11	0.00
Railways NR ISTS	167	0	3.6	3.7	-0.1	21	0.00	
WR	Chhattisgarh	4843	0	103.9	44.2	-1.4	225	0.00
	Gujarat	19641	0	408.3	190.1	-0.4	563	0.00
	MP	14357	0	295.7	184.9	-5.0	369	0.00
	Maharashtra	24710	0	551.8	246.3	-3.5	864	0.00
	Goa	647	0	12.0	12.3	-0.8	36	0.00
	DNHDDPDCL	1163	0	23.0	23.5	-0.5	10	0.00
	AMNSIL	802	0	18.1	9.9	-0.4	257	0.00
BALCO	522	0	12.4	12.6	-0.2	8	0.00	
SR	Andhra Pradesh	12235	0	228.6	95.5	-1.3	827	0.00
	Telangana	12259	0	260.1	138.8	-1.2	514	0.00
	Karnataka	13812	0	248.2	95.0	-2.8	918	0.00
	Kerala	3989	0	78.1	64.8	0.8	203	0.00
	Tamil Nadu	15850	0	326.5	198.3	-0.5	894	0.00
	Puducherry	434	0	9.4	9.2	-0.4	28	0.00
ER	Bihar	4525	0	99.8	90.3	-1.0	256	0.00
	DVC	2991	0	64.9	-32.7	0.2	275	0.00
	Jharkhand	1485	0	28.5	22.4	-2.5	147	0.00
	Odisha	4582	0	107.3	35.7	-1.6	318	0.00
	West Bengal	6553	0	140.2	11.2	-2.4	110	0.00
	Sikkim	56	0	0.7	0.7	0.0	14	0.00
Railways ER ISTS	16	0	0.2	0.2	0.0	0	0.00	
NER	Arunachal Pradesh	148	0	2.4	2.3	-0.1	20	0.00
	Assam	1422	0	25.4	18.4	-0.3	269	0.00
	Manipur	188	0	2.6	2.6	-0.1	22	0.00
	Meghalaya	335	0	5.9	4.4	-0.3	120	0.00
	Mizoram	123	0	1.8	1.5	-0.3	12	0.00
	Nagaland	143	0	2.4	2.3	-0.1	7	0.00
Tripura	266	0	4.9	4.2	-0.2	15	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	8.5	18.7	-24.8	-23.0
Day Peak (MW)	392.0	861.0	-1060.0	-1124.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	131.6	-153.9	162.4	-126.9	-13.2	0.0
Actual(MU)	123.0	-119.4	182.5	-178.0	-8.2	-0.1
O/D/U/D(MU)	-8.6	34.4	20.1	-51.1	5.0	-0.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5484	7775	3718	3626	235	20837	48
State Sector	5236	10180	4881	2480	121	22897	52
Total	10720	17954	8599	6106	356	43734	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	675	1463	684	628	12	3461	77
Lignite	25	17	56	0	0	98	2
Hydro	164	37	48	45	20	314	7
Nuclear	20	53	71	0	0	144	3
Gas, Naptha & Diesel	10	12	6	0	28	56	1
RES (Wind, Solar, Biomass & Others)	134	101	178	7	1	421	9
Total	1029	1684	1043	680	60	4496	100

Share of RES in total generation (%)	13.05	5.98	17.10	1.09	1.09	9.37
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.94	11.34	28.50	7.73	34.65	19.57

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.045

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	192544	10:55	0
Non-Solar hr	176890	18:31	0

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: 25-Oct-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	701	0.0	16.9	-16.9
2	HVDC	PUSAULI B/B	-	0	48	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	125	690	0.0	7.4	-7.4
4	765 kV	SASARAM-FATEHPUR	1	0	438	0.0	7.3	-7.3
5	765 kV	GAYA-BALIA	1	0	492	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	1	24	44	0.0	0.2	-0.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	72	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	412	0.0	6.4	-6.4
10	400 kV	NAUBATPUR-BALIA	2	0	426	0.0	6.3	-6.3
11	400 kV	BIHARSHARIFF-BALIA	2	64	205	0.0	2.0	-2.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	287	0.0	4.3	-4.3
13	400 kV	BIHARSHARIFF-VARANASI	2	70	272	0.0	2.8	-2.8
14	220 kV	SAHUPURI-KARAMNANA	1	0	94	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	66	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	74.1	-73.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	376	470	0.0	2.5	-2.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	46	851	0.0	6.8	-6.8
3	765 kV	JHARSUGUDA-DURG	2	0	736	0.0	14.5	-14.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	717	0.0	10.3	-10.3
5	400 kV	RANCHI-SIPAT	2	0	307	0.0	3.5	-3.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	153	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	135	34	1.0	0.0	1.0
ER-WR						1.0	39.7	-38.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	556	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1637	0.0	36.6	-36.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2637	0.0	53.7	-53.7
4	400 kV	TALCHER-I/C	2	406	0	8.4	0.0	8.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	102.9	-102.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	374	0.0	6.2	-6.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	306	253	0.0	1.6	-1.6
3	220 kV	ALIPURDUAR-SALAKATI	2	40	67	0.0	0.7	-0.7
ER-NER						0.0	8.5	-8.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	705	0.0	16.9	-16.9
NER-NR						0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	5	0	0.0	0.0	0.0
2	HVDC	VINDHYACHAL B/B	-	0	54	0.0	1.2	-1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1170	0.0	28.0	-28.0
4	765 kV	GWALIOR-AGRA	2	206	794	0.0	7.1	-7.1
5	765 kV	GWALIOR-PHAGI	2	137	1309	0.1	19.5	-19.4
6	765 kV	JABALPUR-ORAI	2	0	539	0.0	13.8	-13.8
7	765 kV	GWALIOR-ORAI	1	718	0	13.8	0.0	13.8
8	765 kV	SATNA-ORAI	1	0	882	0.0	17.6	-17.6
9	765 kV	BANASKANTHA-CHITORGARH	2	2305	0	34.4	0.0	34.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	1795	0.0	32.8	-32.8
11	400 kV	ZERDA-KANKROLI	1	311	0	5.5	0.0	5.5
12	400 kV	ZERDA -BHINMAL	1	683	0	7.7	0.0	7.7
13	400 kV	VINDHYACHAL -RIHAND	1	954	0	21.4	0.0	21.4
14	400 kV	RAPP-SHUALPUR	2	549	43	4.2	0.0	4.2
15	220 kV	BHANPURA-RANPUR	1	0	135	0.0	2.4	-2.4
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.9	-1.9
17	220 kV	MEHGAON-AURAIYA	1	101	0	1.9	0.0	1.9
18	220 kV	MALANPUR-AURAIYA	1	76	0	1.3	0.0	1.3
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						90.2	124.2	-34.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1004	0.0	14.3	-14.3
2	HVDC	RAIGARH-PUGALUR	2	0	4010	0.0	74.2	-74.2
3	765 kV	SOLAPUR-RAICHUR	2	990	705	8.0	2.1	5.9
4	765 kV	WARDHA-NIZAMABAD	2	0	1879	0.0	30.6	-30.6
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2129	0.0	36.0	-36.0
6	400 kV	KOLHAPUR-KUDGI	2	1208	0	22.9	0.0	22.9
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						33.1	157.1	-123.9

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)	128	79	103	2.47
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	307	262	307	8.18
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-130	-80	-109	-2.61
	NER	132kV GELEPHU-SALAKATI	-16	3	-3	-0.07
	NER	132kV MOTANGA-RANGIA	29	11	20	0.48
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.63
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	861	512	712	17.09
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-921	-917	-921	-22.09
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1124	-802	-958	-22.98
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-139	0	-113	-2.72

