



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: 02nd 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 01.10.2023.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-अक्टोबर -2023 की अखिल

भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 01st October 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 02-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)	64342	56337	41049	22966	3354	188048
Peak Shortage (MW)	128	0	0	0	0	128
Energy Met (MU)	1415	1297	1041	501	62	4317
Hydro Gen (MU)	104	125	53	99	24	406
Wind Gen (MU)	11	62	192	-	-	265
Solar Gen (MU)*	120.98	59.13	98.59	4.94	0.84	284
Energy Shortage (MU)	0.72	0.00	0.00	0.58	0.05	1.35
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64756	59083	49128	23664	3266	191315
Time Of Maximum Demand Met	19:22	19:02	11:57	19:02	18:48	19:18

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	0.67	5.60	6.27	77.53	16.20

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	11799	0	239.0	107.1	22.9	1524	0.00
	Haryana	8549	0	186.2	59.1	66.3	3436	0.00
	Rajasthan	13042	0	287.2	64.4	11.9	1009	0.00
	Delhi	5068	0	102.9	63.9	26.0	1530	0.00
	UP	23762	0	468.0	155.1	51.3	3088	0.00
	Uttarakhand	2079	0	44.2	24.3	2.3	264	0.00
	HP	1487	0	30.6	13.2	-0.2	94	0.00
	J&K(UT) & Ladakh(UT)	2413	0	48.0	31.2	3.7	413	0.72
	Chandigarh	233	0	4.9	4.5	0.4	44	0.00
Railways NR ISTS	181	0	3.6	1.5	2.1	112	0.00	
WR	Chhattisgarh	4500	0	101.5	47.8	-2.1	206	0.00
	Gujarat	18347	0	399.3	168.4	0.1	609	0.00
	MP	11901	0	255.3	143.5	-3.9	473	0.00
	Maharashtra	21483	0	470.9	190.0	-7.3	442	0.00
	Goa	588	0	11.8	11.2	0.0	37	0.00
	DNHDDPDCL	1203	0	27.8	28.1	-0.3	19	0.00
	AMNSIL	802	0	18.0	9.9	-0.3	266	0.00
	BALCO	521	0	12.4	12.5	-0.1	10	0.00
SR	Andhra Pradesh	9442	0	204.4	32.5	21.8	636	0.00
	Telangana	236	0	239.7	90.8	27.2	873	0.00
	Karnataka	10826	0	203.0	30.1	15.7	458	0.00
	Kerala	3295	0	67.6	34.1	15.5	205	0.00
	Tamil Nadu	14471	0	317.4	91.6	48.6	643	0.00
	Puducherry	407	0	9.4	7.7	0.9	43	0.00
ER	Bihar	5753	0	117.2	110.9	-2.3	446	0.58
	DVC	3123	0	66.7	-38.5	0.2	303	0.00
	Jharkhand	1357	0	28.4	22.1	-3.1	89	0.00
	Odisha	5647	0	119.5	56.2	-2.4	408	0.00
	West Bengal	7999	0	168.5	45.3	-1.7	395	0.00
	Sikkim	68	0	1.0	1.0	0.1	21	0.00
	Railways ER ISTS	15	0	0.2	0.2	0.0	0	0.00
NER	Arunachal Pradesh	172	0	3.0	2.7	0.0	39	0.00
	Assam	2226	0	41.0	31.7	2.0	299	0.00
	Manipur	182	0	2.6	2.6	-0.1	17	0.00
	Meghalaya	316	0	6.0	3.7	-0.3	36	0.05
	Mizoram	116	0	1.6	1.2	-0.2	18	0.00
	Nagaland	161	0	2.9	2.6	-0.2	10	0.00
	Tripura	329	0	5.3	5.6	-0.1	50	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	20.3	13.9	-25.3	-29.7
Day Peak (MW)	1056.0	556.0	-1088.0	-1332.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	313.0	-224.6	55.2	-144.0	1.0	0.0
Actual(MU)	327.8	-198.9	62.4	-172.0	5.0	24.3
O/D/U/D(MU)	14.8	-25.6	7.2	-28.0	4.1	24.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4409	12174	7768	870	505	25725	50
State Sector	5611	10477	6762	3090	142	26082	50
Total	10020	22651	14530	3960	647	51807	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	699	1336	575	631	13	3255	70
Lignite	29	16	36	0	0	82	2
Hydro	217	125	53	99	24	520	11
Nuclear	27	54	76	0	0	156	3
Gas, Naptha & Diesel	13	19	6	0	27	65	1
RES (Wind, Solar, Biomass & Others)	138	124	316	7	1	586	12
Total	1124	1674	1063	737	65	4664	100

Share of RES in total generation (%)	12.31	7.41	29.75	0.89	1.30	12.57
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.03	18.11	41.89	14.37	38.80	27.06

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.044
Based on State Max Demands	1.014

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	188248	11:58	0
Non-Solar hr	191315	19:18	128

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: 02-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	1302	0.0	33.5	-33.5
2	HVDC	PUSAULI B/B	-	2	143	0.0	2.6	-2.6
3	765 kV	GAYA-VARANASI	2	209	989	0.0	11.4	-11.4
4	765 kV	SASARAM-FATEHPUR	1	0	511	0.0	7.9	-7.9
5	765 kV	GAYA-BALIA	1	0	773	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	1	52	59	0.4	0.0	0.4
7	400 kV	PUSAULI-ALLAHABAD	1	12	99	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	890	0.0	12.6	-12.6
9	400 kV	PATNA-BALIA	2	0	558	0.0	8.6	-8.6
10	400 kV	NAUBATPUR-BALIA	2	0	582	0.0	8.5	-8.5
11	400 kV	BIHARSHARIF-BALIA	2	64	322	0.0	3.6	-3.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	480	0.0	6.8	-6.8
13	400 kV	BIHARSHARIF-VARANASI	2	106	355	0.0	3.8	-3.8
14	220 kV	SAHUPURI-KARAMNANA	1	0	98	0.0	1.9	-1.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
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						0.9	111.1	-110.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	451	1211	0.0	6.4	-6.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1052	592	9.7	0.0	9.7
3	765 kV	JHARSUGUDA-DURG	2	0	502	0.0	6.5	-6.5
4	400 kV	JHARSUGUDA-RAIGARH	4	63	424	0.0	3.5	-3.5
5	400 kV	RANCHI-SIPAT	2	255	245	0.9	0.0	0.9
6	220 kV	BUDHIPADAR-RAIGARH	1	5	136	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	92	21	0.8	0.0	0.8
ER-WR						11.5	17.4	-5.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	390	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1790	0.0	37.0	-37.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2109	0.0	35.4	-35.4
4	400 kV	TALCHER-I/C	2	648	625	3.2	0.0	3.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	81.1	-81.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	534	0.0	9.3	-9.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	410	0.0	5.2	-5.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	117	0.0	1.8	-1.8
ER-NER						0.0	16.3	-16.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.2	-12.2
NER-NR						0.0	12.2	-12.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5533	0.0	60.1	-60.1
2	HVDC	VINDHYACHAL B/B	-	46	0	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	787	0.0	18.4	-18.4
4	765 kV	GWALIOR-AGRA	2	0	1787	0.0	28.3	-28.3
5	765 kV	GWALIOR-PHAGI	2	0	1424	0.0	22.6	-22.6
6	765 kV	JABALPUR-ORAI	2	0	992	0.0	24.3	-24.3
7	765 kV	GWALIOR-ORAI	1	610	0	7.7	0.0	7.7
8	765 kV	SATNA-ORAI	1	0	1091	0.0	22.7	-22.7
9	765 kV	BANASKANTHA-CHITORGARH	2	813	350	5.2	0.0	5.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2742	0.0	48.2	-48.2
11	400 kV	ZERDA-KANKROLI	1	135	63	1.3	0.2	1.1
12	400 kV	ZERDA -BHINMAL	1	328	162	1.1	0.0	1.1
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	21.3	0.0	21.3
14	400 kV	RAPP-SHUALPUR	2	139	452	0.0	3.3	-3.3
15	220 kV	BHANPURA-RANPUR	1	0	94	0.0	1.6	-1.6
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.5	-2.5
17	220 kV	MEHGAON-AURAIYA	1	114	0	0.0	0.0	0.0
18	220 kV	MALANPUR-AURAIYA	1	82	0	0.9	0.0	0.9
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						38.8	232.3	-193.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	606	0.0	8.6	-8.6
2	HVDC	RAIGARH-PUGALUR	2	0	3003	0.0	34.2	-34.2
3	765 kV	SOLAPUR-RAICHUR	2	2343	713	20.1	0.8	19.3
4	765 kV	WARDHA-NIZAMABAD	2	172	1975	0.0	18.5	-18.5
5	400 kV	KOLHAPUR-KUDGI	2	1703	0	28.3	0.0	28.3
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	106	2.0	0.0	2.0
WR-SR						50.4	62.0	-11.7

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)	276	201	237	5.69	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	668	369	551	13.22	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-66	41	2	0.05	
	NER	132kV GELEPHU-SALAKATI	17	0	10	0.25	
	NER	132kV MOTANGA-RANGIA	65	0	45	1.07	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-39	0	31	0.74	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	595	446	549	13.18	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-929	-823	-917	-22.00	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1332	-1104	-1236	-29.67	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-159	0	-138	-3.32	

