



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: 03.10.2024

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 02.10.2024.

महोदय/Dear Sir,

आईईजीसी-2023 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 2-अक्टूबर-2024 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 02.10.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 03-Oct-2024

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)	68489	62897	43989	27881	3087	206343
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1537	1405	1146	617	62	4767
Hydro Gen (MU)	268	99	138	97	21	624
Wind Gen (MU)	31	63	44	-	-	138
Solar Gen (MU)*	177.01	97.61	125.85	2.85	0.86	404
Energy Shortage (MU)	0.00	0.00	0.00	0.19	0.00	0.19
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	70386	63204	55464	29134	3166	207589
Time Of Maximum Demand Met	22:23	18:49	11:56	00:06	18:57	19:16

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	0.028	0.00	0.44	1.82	2.26	75.32	22.43

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	12929	0	268.5	140.4	-1.1	1008	0.00
	Haryana	9673	0	209.3	142.1	-2.3	285	0.00
	Rajasthan	14505	0	325.3	125.3	-6.3	281	0.00
	Delhi	5826	0	115.5	97.9	-1.1	262	0.00
	UP	25164	0	485.7	195.6	-2.3	389	0.00
	Uttarakhand	1939	0	40.4	18.5	0.4	174	0.00
	HP	1541	0	31.3	7.3	-0.4	100	0.00
	J&K(UT) & Ladakh(UT)	2630	0	52.1	33.6	0.8	334	0.00
	Chandigarh	268	0	5.3	5.5	-0.3	10	0.00
Railways NR ISTS	195	0	4.1	3.8	0.3	82	0.00	
WR	Chhattisgarh	5712	0	129.5	80.4	-1.3	267	0.00
	Gujarat	18536	0	407.2	151.8	-10.4	199	0.00
	MP	12297	0	261.8	144.6	-3.7	475	0.00
	Maharashtra	24232	0	535.3	195.3	2.0	732	0.00
	Goa	658	0	14.1	13.7	0.4	55	0.00
	DNHDDPDCL	1245	0	27.7	27.8	-0.1	132	0.00
	AMNSIL	768	0	16.9	7.8	0.0	250	0.00
	BALCO	530	0	12.7	12.6	0.1	13	0.00
SR	Andhra Pradesh	11545	0	227.8	66.7	-0.5	1031	0.00
	Telangana	13502	0	263.4	125.8	-0.3	832	0.00
	Karnataka	11830	0	214.6	73.7	-1.0	490	0.00
	Kerala	4178	0	84.8	59.4	1.2	295	0.00
	Tamil Nadu	15722	0	346.1	208.9	1.1	1075	0.00
	Puducherry	447	0	9.4	9.0	-0.3	30	0.00
ER	Bihar	7204	0	144.4	142.2	-3.6	189	0.19
	DVC	3445	0	71.8	-36.7	0.3	438	0.00
	Jharkhand	2133	0	43.8	32.8	-0.3	118	0.00
	Odisha	6245	0	137.6	36.7	-0.9	341	0.00
	West Bengal	11051	0	218.5	75.9	-3.2	254	0.00
	Sikkim	62	0	0.9	1.2	-0.3	7	0.00
	Railways ER ISTS	14	0	0.2	0.2	0.0	0	0.00
NER	Arunachal Pradesh	158	0	3.0	2.7	-0.1	34	0.00
	Assam	2081	0	41.0	34.8	0.0	139	0.00
	Manipur	197	0	2.7	2.9	-0.2	15	0.00
	Meghalaya	333	0	4.6	2.0	-0.2	90	0.00
	Mizoram	122	0	1.6	0.8	-0.8	4	0.00
	Nagaland	164	0	2.9	2.6	-0.1	14	0.00
Tripura	282	0	5.9	5.6	0.0	55	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	42.7	6.7	-23.3	-24.9
Day Peak (MW)	1913.0	413.2	-999.0	-1126.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	286.3	-254.3	97.5	-131.6	2.2	0.0
Actual(MU)	272.3	-249.6	100.7	-128.0	0.4	-4.2
O/D/U/D(MU)	-14.0	4.7	3.3	3.6	-1.8	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4535	12661	3428	3056	301	23981	49
State Sector	5251	10423	6587	2444	155	24859	51
Total	9786	23083	10015	5500	456	48840	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	810	1416	677	719	15	3637	71
Lignite	20	11	57	0	0	88	2
Hydro	268	99	138	97	21	624	12
Nuclear	30	52	51	0	0	132	3
Gas, Naptha & Diesel	19	37	5	0	22	84	2
RES (Wind, Solar, Biomass & Others)	214	164	199	6	1	583	11
Total	1361	1779	1127	821	59	5148	100

Share of RES in total generation (%)	15.73	9.22	17.62	0.67	1.47	11.33
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.65	17.70	34.41	12.47	36.79	26.02

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.066
Based on State Max Demands	1.104

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	204809	14:59	0
Non-Solar hr	207589	19:16	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: 03-Oct-2024

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	352	0.0	8.8	-8.8
2	HVDC	PUSAULI B/B	-	0	110	0.0	2.7	-2.7
3	765 kV	GAYA-VARANASI	2	567	749	0.0	5.8	-5.8
4	765 kV	SASARAM-FATEHPUR	1	267	326	0.0	2.1	-2.1
5	765 kV	GAYA-BALIA	1	0	680	0.0	9.5	-9.5
6	400 kV	PUSAULI-VARANASI	1	0	142	0.0	2.3	-2.3
7	400 kV	PUSAULI-ALLAHABAD	1	34	44	0.0	0.2	-0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	192	540	0.0	5.4	-5.4
9	400 kV	PATNA-BALIA	2	65	783	0.0	11.7	-11.7
10	400 kV	NAUBATPUR-BALIA	2	65	232	0.0	3.3	-3.3
11	400 kV	BIHARSHARIFF-BALIA	2	222	62	1.5	0.0	1.5
12	400 kV	MOTIHARI-GORAKHPUR	2	62	421	0.0	5.9	-5.9
13	400 kV	BIHARSHARIFF-VARANASI	2	151	250	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	129	0.0	0.1	-0.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
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-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						2.1	57.8	-55.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	433	837	0.0	3.6	-3.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1727	393	17.6	0.0	17.6
3	765 kV	JHARSUGUDA-DURG	2	0	496	0.0	7.6	-7.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	565	0.0	7.9	-7.9
5	400 kV	RANCHI-SIPAT	2	335	224	2.3	0.0	2.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	113	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	46	134	0.0	1.3	-1.3
ER-WR						19.9	21.9	-2.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	529	0.0	11.6	-11.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1635	0.0	29.7	-29.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2433	0.0	43.5	-43.5
4	400 kV	TALCHER-I/C	2	199	423	2.4	0.0	2.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	84.7	-84.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	333	0.0	4.5	-4.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	576	0.0	9.5	-9.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	118	0.0	2.0	-2.0
ER-NER						0.0	16.0	-16.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	703	0	0.0	16.8	-16.8
NER-NR						0.0	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2017	0.0	48.4	-48.4
2	HVDC	VINDHYACHAL B/B	-	240	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1907	0.0	48.3	-48.3
4	765 kV	GWALIOR-AGRA	2	0	1599	0.2	17.7	-17.5
5	765 kV	GWALIOR-PHAGI	2	957	1730	4.0	22.6	-18.6
6	765 kV	JABALPUR-ORAI	2	45	1214	0.0	25.1	-25.1
7	765 kV	GWALIOR-ORAI	1	784	38	9.8	0.0	9.8
8	765 kV	SATNA-ORAI	1	0	989	0.0	18.0	-18.0
9	765 kV	BANASKANTHA-CHITTOGARH	2	1114	498	11.0	1.6	9.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2998	0.0	43.4	-43.4
11	400 kV	ZERDA-KANKROLI	1	248	98	2.6	0.2	2.3
12	400 kV	ZERDA-BHINMAL	1	339	207	0.0	2.9	-2.9
13	400 kV	VINDHYACHAL-RIHAND	1	0	1	0.0	0.0	0.0
14	400 kV	RAPP-SHUJALPUR	2	506	594	2.9	4.5	-1.6
15	400 kV	NEEMUCH-Chittorgarh	2	444	631	1.9	5.4	-3.6
16	220 kV	BHANPURA-RANPUR	1	0	110	0.0	1.9	-1.9
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
18	220 kV	MEHGAON-AURAIYA	1	101	5	1.1	0.0	1.1
19	220 kV	MALANPUR-AURAIYA	1	71	26	0.6	0.0	0.5
20	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
21	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						39.9	241.9	-202.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	299	0	7.2	0.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	0	1002	0.0	21.6	-21.6
3	765 kV	SOLAPUR-RAICHUR	2	1321	888	4.0	7.1	-3.1
4	765 kV	WARDHA-NIZAMABAD	2	236	2240	0.1	31.8	-31.7
5	765 kV	WARORA-WARANGAL(NEW)	2	142	2197	0.0	32.0	-31.9
6	400 kV	KOLHAPUR-KUDGI	2	1828	0	28.3	0.0	28.3
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	69	0	1.3	0.0	1.3
9	220 kV	XELDEM-AMBEWADI	1	0	131	2.6	0.0	2.6
WR-SR						43.4	92.4	-49.0

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)	772	635	770	18.48	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	887	677	840	20.17	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	124	60	92	2.20	
	NER	132kV GELEPHU-SALAKATI	32	5	27	0.65	
	NER	132kV MOTANGA-RANGIA	63	38	50	1.20	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	69	0	56	1.34	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	344	156	225	5.39	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-919	-776	-909	-21.81	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1126	-1000	-1039	-24.94	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	80	0	-63	-1.50	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 03-Oct-2024

Export From India (in MU)

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	22.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.42
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.42

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	40.19	0.00	1.72	0.00	0.00	0.10	0.00	0.00	42.01
Nepal	3.35	0.00	0.00	0.00	0.00	2.81	0.00	0.00	6.16
Bangladesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Import	43.54	0.00	1.72	0.00	0.00	2.91	0.00	0.00	48.17

Net from India(in MU)

-ve : Export / +ve : Import

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	40.19	0.00	1.72	0.00	0.00	0.10	0.00	0.00	42.01
Nepal	3.35	0.00	0.00	0.00	0.00	2.81	0.00	0.00	6.16
Bangladesh	-22.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.42
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	21.12	0.00	1.72	0.00	0.00	2.91	0.00	0.00	25.75