



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: 19.10.2024

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 18.10.2024.**

महोदय/Dear Sir,

आईईजीसी-2023 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18.10.2024, is available at the NLDC website.

धन्यवाद,  
Thanks

Report for previous day

Date of Reporting: 19-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 19:00 hrs; from RLDCs)	63237	64679	45868	26617	2907	203308
Peak Shortage (MW)	20	0	0	297	0	317
Energy Met (MU)	1399	1457	1034	571	62	4523
Hydro Gen (MU)	160	85	145	86	29	506
Wind Gen (MU)	7	45	61	-	-	113
Solar Gen (MU)*	157.68	89.16	102.67	3.62	0.76	354
Energy Shortage (MU)	0.87	0.00	0.00	0.37	0.00	1.24
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64351	66385	47850	27105	3113	208270
Time Of Maximum Demand Met	18:39	18:46	18:30	19:29	17:38	18:44

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	0.022	0.00	0.00	0.69	0.69	80.69	18.62

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	9427	0	195.6	94.0	0.8	503	0.00
	Haryana	9925	0	205.9	142.4	0.2	406	0.00
	Rajasthan	14635	0	316.2	129.3	3.8	936	0.00
	Delhi	4887	0	101.1	92.2	-0.3	195	0.00
	UP	22473	25	440.4	156.5	0.4	371	0.16
	Uttarakhand	2158	0	44.1	33.2	-0.1	125	0.08
	HP	1904	0	35.8	20.8	-0.6	171	0.00
	J&K(UT) & Ladakh(UT)	2516	0	51.1	41.3	1.2	789	0.63
	Chandigarh	240	0	4.6	4.4	0.1	61	0.00
Railways NR ISTS	193	0	4.0	3.9	0.1	26	0.00	
WR	Chhattisgarh	5681	0	128.8	82.0	-2.8	374	0.00
	Gujarat	20765	0	445.1	190.7	-2.0	505	0.00
	MP	12155	0	251.9	132.6	-2.6	346	0.00
	Maharashtra	25212	0	553.7	216.1	2.1	788	0.00
	Goa	683	0	14.6	14.4	0.0	50	0.00
	DNHDDPDCL	1381	0	31.5	31.8	-0.3	63	0.00
	AMNSIL	862	0	19.1	9.7	0.1	241	0.00
	BALCO	533	0	12.7	12.7	0.0	10	0.00
SR	Andhra Pradesh	8983	0	189.6	52.0	-1.4	487	0.00
	Telangana	11112	0	225.5	78.5	-1.9	472	0.00
	Karnataka	9480	0	197.1	77.5	-1.3	481	0.00
	Kerala	4259	0	81.9	61.7	0.1	155	0.00
	Tamil Nadu	16107	0	329.8	173.4	-0.3	666	0.00
	Puducherry	435	0	9.9	9.5	-0.2	43	0.00
ER	Bihar	6496	297	127.9	125.0	-3.1	266	0.37
	DVC	3325	0	70.8	-35.9	0.1	299	0.00
	Jharkhand	2163	0	44.1	30.9	-0.3	179	0.00
	Odisha	6337	0	131.8	39.9	-0.5	609	0.00
	West Bengal	9091	0	195.2	47.7	-2.1	311	0.00
	Sikkim	96	0	1.5	1.6	-0.1	39	0.00
	Railways ER ISTS	21	0	0.2	0.1	0.1	0	0.00
NER	Arunachal Pradesh	140	0	2.7	2.4	-0.1	23	0.00
	Assam	1983	0	41.4	28.3	6.3	134	0.00
	Manipur	213	0	3.0	3.0	0.0	20	0.00
	Meghalaya	308	0	5.1	3.4	-0.5	96	0.00
	Mizoram	94	0	1.6	0.6	-0.9	15	0.00
	Nagaland	160	0	2.4	2.4	-0.3	0	0.00
	Tripura	277	0	5.6	6.4	0.3	65	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	27.7	10.0	-23.0	-25.0
Day Peak (MW)	1442.0	507.7	-1026.0	-1126.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	304.5	-196.1	45.5	-150.4	-3.5	0.0
Actual(MU)	316.4	-181.9	20.9	-151.6	-0.8	3.0
O/D/U/D(MU)	11.9	14.2	-24.5	-1.3	2.7	3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4719	11321	3558	2716	234	22547	48
State Sector	6248	7534	7427	3124	256	24589	52
Total	10967	18855	10985	5840	489	47136	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	753	1455	615	704	15	3543	73
Lignite	27	20	56	0	0	103	2
Hydro	160	85	145	86	29	506	10
Nuclear	35	51	72	0	0	159	3
Gas, Naptha & Diesel	14	31	5	0	23	73	1
RES (Wind, Solar, Biomass & Others)	171	135	189	6	1	502	10
Total	1160	1778	1084	796	68	4886	100

Share of RES in total generation (%)	14.63	7.62	17.46	0.78	1.12	10.27
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.40	15.29	37.53	11.54	44.27	23.85

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.002
Based on State Max Demands	1.040

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	202259	17:59	509
Non-Solar hr	208270	18:44	319

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: 19-Oct-2024

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
<b>Import/Export of ER (With NR)</b>								
1	HVDC	ALIPURDUAR-AGRA	2	0	352	0.0	8.6	-8.6
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.2	-7.2
3	765 kV	GAYA-VARANASI	2	314	979	0.0	12.9	-12.9
4	765 kV	SASARAM-FATEHPUR	1	197	361	0.0	3.8	-3.8
5	765 kV	GAYA-BALIA	1	0	647	0.0	12.1	-12.1
6	400 kV	PUSAULI-VARANASI	1	0	226	0.0	4.4	-4.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	139	0.0	2.7	-2.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	7	605	0.0	9.0	-9.0
9	400 kV	PATNA-BALIA	2	0	1014	0.0	18.2	-18.2
10	400 kV	NAUBATPUR-BALIA	2	0	623	0.0	5.5	-5.5
11	400 kV	BIHARSHARIF-BALIA	2	78	206	0.0	3.0	-3.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	465	0.0	8.1	-8.1
13	400 kV	BIHARSHARIF-VARANASI	2	61	290	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	101	0.3	0.0	0.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
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
<b>ER-NR</b>						<b>0.8</b>	<b>95.4</b>	<b>-94.6</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	592	606	0.0	1.3	-1.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1235	371	12.1	0.0	12.1
3	765 kV	JHARSUGUDA-DURG	2	0	594	0.0	8.8	-8.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	864	0.0	13.6	-13.6
5	400 kV	RANCHI-SIPAT	2	239	296	0.0	0.6	-0.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	171	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	0	146	0.0	1.9	-1.9
<b>ER-WR</b>						<b>12.1</b>	<b>28.1</b>	<b>-16.0</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	350	0.0	6.5	-6.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1494	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2288	0.0	36.2	-36.2
4	400 kV	TALCHER-I/C	2	377	202	7.2	0.0	7.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>78.9</b>	<b>-78.9</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	65	266	0.2	2.5	-2.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	97	435	0.0	4.1	-4.1
3	220 kV	ALIPURDUAR-SALAKATI	2	15	80	0.0	0.8	-0.8
<b>ER-NER</b>						<b>0.2</b>	<b>7.3</b>	<b>-7.2</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	618	0.0	14.4	-14.4
<b>NER-NR</b>						<b>0.0</b>	<b>14.4</b>	<b>-14.4</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2023	0.0	47.5	-47.5
2	HVDC	VINDHYACHAL B/B	-	321	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1445	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	0	1844	0.0	30.4	-30.4
5	765 kV	GWALIOR-PHAGI	2	656	1921	1.7	27.7	-26.0
6	765 kV	JABALPUR-ORAI	2	0	1014	0.0	36.5	-36.5
7	765 kV	GWALIOR-ORAI	1	831	0	13.0	0.0	13.0
8	765 kV	SATNA-ORAI	1	0	960	0.0	19.3	-19.3
9	765 kV	BANASKANTHA-CHITTOGARH	2	1099	0	11.2	0.0	11.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2335	0.0	36.8	-36.8
11	400 kV	ZERDA-KANKROLI	1	216	1	1.9	0.0	1.9
12	400 kV	ZERDA -BHINMAL	1	222	0	2.0	0.0	2.0
13	400 kV	VINDHYACHAL -RIHAND	1	0	1	0.0	0.0	0.0
14	400 kV	RAPP-SHUALPUR	2	281	429	1.1	4.2	-3.1
15	400 kV	NEEMUCH-Chittorgarh	2	0	0	0.0	5.1	-5.1
16	220 kV	BHANPURA-RANPUR	1	0	108	0.0	2.0	-2.0
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
18	220 kV	MEHGAON-AURAIYA	1	101	0	1.1	0.0	1.1
19	220 kV	MALANPUR-AURAIYA	1	73	12	0.6	0.0	0.6
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
<b>WR-NR</b>						<b>34.9</b>	<b>247.5</b>	<b>-212.6</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	310	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	606	0.0	15.0	-15.0
3	765 kV	SOLAPUR-RAICHUR	2	1695	304	18.4	0.3	18.1
4	765 kV	WARDHA-NIZAMABAD	2	73	1403	0.0	10.7	-10.6
5	765 kV	WARORA-WARANGAL(NEW)	2	266	486	0.5	5.5	-5.1
6	400 kV	KOLHAPUR-KUDGI	2	1788	0	31.6	0.0	31.6
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	85	0	1.7	0.0	1.7
9	220 kV	XELDEM-AMBEWADI	1	0	110	2.3	0.0	2.3
<b>WR-SR</b>						<b>54.4</b>	<b>38.7</b>	<b>15.7</b>

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 MANGDECHU HEP 4*180MW)	651	308	551	13.23	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	654	446	559	13.41	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-44	14	-9	-0.23	
	NER	132kV GELEPHU-SALAKATI	22	8	16	0.38	
	NER	132kV MOTANGA-RANGIA	46	1	39	0.94	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	67	0	62	1.49	
	ER	NEPAL IMPORT (FROM BIHAR)	148	67	107	2.58	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	293	101	247	5.93	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-938	-898	-899	-21.56	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1126	-1002	-1041	-24.98	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-88	0	-62	-1.48	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 19-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	21.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.98
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.98

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
IEX	PXIL	HPX	IEX	PXIL	HPX				
Bhutan	25.06	0.00	1.76	0.00	0.00	0.00	0.00	0.00	26.82
Nepal	6.61	0.00	0.00	0.00	0.00	2.61	0.00	0.00	9.22
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	31.67	0.00	1.76	0.00	0.00	2.61	0.00	0.00	36.04

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	25.06	0.00	1.76	0.00	0.00	0.00	0.00	0.00	26.82
Nepal	6.61	0.00	0.00	0.00	0.00	2.61	0.00	0.00	9.22
Bangladesh	-21.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.98
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	9.69	0.00	1.76	0.00	0.00	2.61	0.00	0.00	14.06