



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: GRID-INDIA/NLDC/SO/Daily PSP Report

दिनांक: 14.11.2024

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, लापालंग, 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 13.11.2024.**

महोदय/Dear Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 13-नवंबर-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध है।

As per article 38(1) of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 13.11.2024, is available at the NLDC website.

धन्यवाद,  
Thanks

Report for previous day

Date of Reporting: 14-Nov-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)	53550	61685	45552	22699	2783	186269
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1212	1478	1095	471	52	4308
Hydro Gen (MU)	124	36	80	34	18	292
Wind Gen (MU)	3	48	64	-	-	116
Solar Gen (MU)*	142.14	91.79	89.08	3.12	1.00	327
Energy Shortage (MU)	0.10	0.00	0.00	0.00	0.00	0.10
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58692	68155	51066	23582	3041	199261
Time Of Maximum Demand Met	18:24	10:22	09:35	17:36	17:16	18:19

**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	0.023	0.00	0.00	0.78	0.78	84.13	15.09

**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	7237	0	145.3	72.5	-0.7	472	0.00
	Haryana	7539	0	149.2	106.8	-2.0	231	0.00
	Rajasthan	16562	0	328.1	116.6	-2.0	583	0.00
	Delhi	4052	0	79.5	73.8	0.0	263	0.00
	UP	18136	0	370.8	141.1	-1.7	341	0.00
	Uttarakhand	2147	0	41.9	32.8	0.3	160	0.00
	HP	1949	0	34.8	25.1	-1.0	107	0.00
	J&K(UT) & Ladakh(UT)	2585	0	54.3	48.8	-0.3	372	0.10
	Chandigarh	206	0	3.8	3.8	0.0	48	0.00
Railways_NR ISTS	191	0	3.9	3.9	0.0	22	0.00	
WR	Chhattisgarh	4460	0	92.7	39.5	-1.3	320	0.00
	Gujarat	20074	0	411.6	199.3	-1.9	452	0.00
	MP	16025	0	317.7	194.6	-3.5	658	0.00
	Maharashtra	26605	0	578.4	232.6	2.8	897	0.00
	Goa	731	0	15.5	14.6	0.3	44	0.00
	DNHDDPDCL	1335	0	30.5	30.4	0.1	47	0.00
	AMNSIL	835	0	18.7	7.5	0.5	283	0.00
	BALCO	529	0	12.6	12.6	0.0	47	0.00
SR	Andhra Pradesh	9736	0	206.5	46.1	-0.1	628	0.00
	Telangana	10181	0	206.3	102.2	0.3	497	0.00
	Karnataka	13819	0	248.7	89.6	-1.0	551	0.00
	Kerala	4475	0	88.4	67.4	1.8	312	0.00
	Tamil Nadu	16485	0	336.1	208.4	-1.1	701	0.00
	Puducherry	427	0	9.3	9.1	-0.4	23	0.00
ER	Bihar	5037	0	96.2	85.6	-0.6	293	0.00
	DVC	3087	0	64.3	-37.3	-0.1	265	0.00
	Jharkhand	1902	0	36.4	29.4	-2.0	151	0.00
	Odisha	5373	0	110.2	32.7	-0.8	444	0.00
	West Bengal	8305	0	162.1	31.3	-1.6	394	0.00
	Sikkim	104	0	1.6	1.6	0.0	18	0.00
	Railways_ER ISTS	23	0	0.2	0.1	0.0	1	0.00
NER	Arunachal Pradesh	155	0	2.6	2.4	0.0	73	0.00
	Assam	1776	0	30.9	23.7	0.0	160	0.00
	Manipur	228	0	2.6	2.6	0.0	31	0.00
	Meghalaya	351	0	6.3	4.9	-0.1	148	0.00
	Mizoram	122	0	2.4	1.7	0.0	32	0.00
	Nagaland	154	0	2.5	2.3	0.0	24	0.00
	Tripura	260	0	4.7	5.5	0.0	24	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	3.6	7.7	-23.5	-17.8
Day Peak (MW)	277.0	509.2	-1002.0	-766.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	258.3	-188.7	137.5	-208.6	1.5	0.0
Actual(MU)	261.5	-192.7	138.2	-214.9	-0.5	-8.4
O/D/U/D(MU)	3.2	-4.0	0.7	-6.3	-2.0	-8.4

**F. Generation Outage(MW)**

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4672	9481	5038	1806	405	21401	46
State Sector	7638	8407	6921	2149	230	25344	54
Total	12310	17887	11959	3955	634	46746	100

**G. Sourcewise generation (Gross) (MU)**

	NR	WR	SR	ER	NER	All India	% Share
Coal	691	1534	646	726	16	3613	77
Lignite	23	16	50	0	0	88	2
Hydro	124	36	80	34	18	292	6
Nuclear	31	53	75	0	0	159	3
Gas, Naptha & Diesel	11	20	6	0	23	60	1
RES (Wind, Solar, Biomass & Others)	162	142	177	5	1	487	10
Total	1041	1802	1034	766	58	4699	100

Share of RES in total generation (%)	15.61	7.87	17.09	0.68	1.74	10.37
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.47	12.82	32.10	5.11	33.04	19.96

**H. All India Demand Diversity Factor**

Based on Regional Max Demands	1.026
Based on State Max Demands	1.069

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	198576	10:53	95
Non-Solar hr	199261	18:19	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: 14-Nov-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	301	0.0	7.3	-7.3
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.2	-7.2
3	765 kV	GAYA-VARANASI	2	214	1029	0.0	17.4	-17.4
4	765 kV	SASARAM-FATEHPUR	1	97	511	0.0	8.4	-8.4
5	765 kV	GAYA-BALIA	1	0	650	0.0	12.7	-12.7
6	400 kV	PUSAULI-VARANASI	1	0	220	0.0	4.0	-4.0
7	400 kV	PUSAULI-ALLAHABAD	1	0	167	0.0	3.0	-3.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	22	639	0.0	10.2	-10.2
9	400 kV	PATNA-BALIA	2	0	912	0.0	16.4	-16.4
10	400 kV	NAUBATPUR-BALIA	2	17	297	0.0	5.1	-5.1
11	400 kV	BIHARSHARIFF-BALIA	2	169	176	0.0	2.4	-2.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	490	0.0	9.4	-9.4
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	102	0.0	0.8	-0.8
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-CHANDAUJI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.5</b>	<b>104.3</b>	<b>-103.8</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	304	460	0.0	3.3	-3.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	576	464	0.0	1.8	-1.8
3	765 kV	JHARSUGUDA-DURG	2	0	891	0.0	18.1	-18.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	680	0.0	10.8	-10.8
5	400 kV	RANCHI-SIPAT	2	116	241	0.0	2.4	-2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	133	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	84	71	0.0	0.2	-0.2
<b>ER-WR</b>						<b>0.0</b>	<b>38.6</b>	<b>-38.6</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	531	0.0	12.7	-12.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1641	0.0	37.4	-37.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2412	0.0	50.8	-50.8
4	400 kV	TALCHER-I/C	2	323	0	5.6	0.0	5.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>100.8</b>	<b>-100.8</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	449	0.0	6.6	-6.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	569	0.0	7.3	-7.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	95	0.0	1.0	-1.0
<b>ER-NER</b>						<b>0.0</b>	<b>14.9</b>	<b>-14.9</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	653	0.0	15.8	-15.8
<b>NER-NR</b>						<b>0.0</b>	<b>15.8</b>	<b>-15.8</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2040	0.0	37.5	-37.5
2	HVDC	VINDHYACHAL B/B	-	528	91	5.1	0.7	4.5
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	1451	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	0	1435	0.0	21.9	-21.9
5	765 kV	GWALIOR-PHAGI	2	572	2009	1.3	29.3	-28.0
6	765 kV	JABALPUR-ORAI	2	0	850	0.0	27.7	-27.7
7	765 kV	GWALIOR-ORAI	1	809	0	14.0	0.0	14.0
8	765 kV	SATNA-ORAI	1	0	1023	0.0	21.2	-21.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1574	80	18.4	0.0	18.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2102	0.0	39.6	-39.6
11	400 kV	ZERDA-KANKROLI	1	343	30	3.9	0.0	3.9
12	400 kV	ZERDA-BHINMAL	1	242	21	2.8	0.0	2.8
13	400 kV	VINDHYACHAL-RIHAND	1	967	0	21.1	0.0	21.1
14	400 kV	RAPP-SHUALPUR	2	674	230	3.4	1.5	1.9
15	400 kV	NEEMUCH-Chittorgarh	2	687	220	3.6	1.3	2.3
16	220 kV	BHANPURA-RANPUR	1	0	196	0.0	3.5	-3.5
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
18	220 kV	MEHGAON-AURAIYA	1	131	0	1.5	0.0	1.5
19	220 kV	MALANPUR-AURAIYA	1	95	0	0.8	0.0	0.8
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>75.9</b>	<b>222.9</b>	<b>-147.0</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1001	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	1500	0.0	36.2	-36.2
3	765 kV	SOLAPUR-RAICHUR	2	666	807	5.1	1.5	3.6
4	765 kV	WARDHA-NIZAMABAD	2	0	1603	0.0	26.4	-26.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	1801	0.0	30.7	-30.7
6	400 kV	KOLHAPUR-KUDGI	2	1489	0	27.1	0.0	27.1
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	113	2.3	0.0	2.3
<b>WR-SR</b>						<b>34.5</b>	<b>118.7</b>	<b>-84.2</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 MANGDECHHU HEP 4*180MW)	156	72	114	2.73	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	216	152	179	4.30	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-192	-139	-168	-4.04	
	NER	132kV GELEPHU-SALAKATI	9	1	5	0.12	
	NER	132kV MOTANGA-RANGIA	26	10	20	0.48	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	65	0	55	1.32	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	444	84	266	6.38	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-937	-917	-926	-22.22	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-766	-715	-743	-17.84	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-65	0	-55	-1.32	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 14-Nov-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	23.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.05
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	23.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.05

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	3.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.16
Nepal	0.00	0.00	0.19	0.00	0.00	7.22	0.00	0.00	7.41
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	3.16	0.00	0.19	0.00	0.00	7.22	0.00	0.00	10.57

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	3.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.16
Nepal	0.00	0.00	0.19	0.00	0.00	7.22	0.00	0.00	7.41
Bangladesh	-23.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-23.05
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-19.89	0.00	0.19	0.00	0.00	7.22	0.00	0.00	-12.48

15 Min (INSTANTANEOUS) ALL INDIA GRID FREQUENCY, GENERATION & DEMAND MET (SCADA DATA)											Date of Reporting:	14-Nov-2024
TIME	FREQUENCY (Hz)	DEMAND MET (MW)	NUCLEAR (MW)	WIND (MW)	SOLAR (MW)	HYDRO** (MW)	GAS (MW)	THERMAL (MW)	OTHERS* (MW)	NET DEMAND MET (MW)	TOTAL GENERATION (MW)	NET TRANSNATIONAL EXCHANGE (+ve) Import, (-ve) Export
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I=A-(C+D))	(J=B+C+D+E+F+G+H)	(K)
0:00	50.05	162955	6103	3677	156	8556	2085	144423	1491	159122	166491	-215
0:15	50.00	162116	6136	3799	155	8169	2096	143919	1488	158162	165762	-247
0:30	50.00	161185	6125	3824	156	8182	2091	142878	1472	157205	164728	-253
0:45	50.00	160020	6129	3800	156	8129	2094	141719	1512	156064	163539	-256
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1:15	50.00	157655	6160	3950	22	8114	2235	139391	1490	153683	161362	-242
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2:30	50.00	154018	6207	4285	22	7145	2209	136890	1480	149711	158238	-203
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