



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रीड 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: 04.12.2024

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 03.12.2024.

महोदय/Dear Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 3-दिसंबर-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 03.12.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 04-Dec-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)	52113	61691	43068	21113	2611	180596
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1162	1496	973	431	48	4109
Hydro Gen (MU)	112	31	68	19	14	243
Wind Gen (MU)	26	125	93	-	-	244
Solar Gen (MU)*	135.66	77.54	81.92	2.42	1.07	299
Energy Shortage (MU)	0.46	0.00	0.00	1.51	0.00	1.97
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61568	74611	46210	22217	2833	202180
Time Of Maximum Demand Met	09:42	09:51	18:25	17:49	17:22	09:57

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	0.045	0.00	0.24	3.40	3.65	69.27	27.08

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	9264	0	158.1	68.9	-0.8	857	0.00
	Haryana	8181	0	152.1	116.7	-1.5	785	0.00
	Rajasthan	17261	0	323.0	115.6	-1.3	555	0.00
	Delhi	3853	0	71.5	70.9	-0.8	230	0.00
	UP	17714	0	314.9	104.9	-2.4	440	0.00
	Uttarakhand	2214	0	41.3	30.6	0.1	167	0.00
	HP	2044	0	35.7	28.3	-0.8	100	0.00
	J&K(UT) & Ladakh(UT)	2839	0	58.0	52.8	-0.3	146	0.46
	Chandigarh	210	0	3.7	3.7	-0.1	43	0.00
Railways_NR ISTS	196	0	3.8	3.9	-0.1	28	0.00	
WR	Chhattisgarh	4554	0	90.9	33.9	0.0	302	0.00
	Gujarat	21437	0	413.4	190.7	-1.2	893	0.00
	MP	18057	0	330.6	206.5	-2.9	565	0.00
	Maharashtra	28240	0	585.4	219.5	-5.5	852	0.00
	Goa	707	0	14.4	13.7	0.3	80	0.00
	DNHDDPDCL	1334	0	30.3	30.3	0.0	56	0.00
	AMNSIL	840	0	18.2	8.2	0.4	270	0.00
	BALCO	528	0	12.6	12.7	-0.1	12	0.00
	RIL JAMNAGAR	1	0	0.0	0.0	0.0	0	0.00
SR	Andhra Pradesh	8451	0	178.6	36.6	-1.4	442	0.00
	Telangana	10663	0	205.1	113.4	-0.1	523	0.00
	Karnataka	10215	0	199.4	46.6	-4.4	572	0.00
	Kerala	4175	0	79.8	62.8	1.4	455	0.00
	Tamil Nadu	15739	0	303.1	158.7	-2.2	623	0.00
	Puducherry	332	0	7.1	6.8	-0.2	39	0.00
ER	Bihar	4695	0	85.8	75.1	-0.4	734	1.51
	DVC	3141	0	66.5	-36.9	-0.5	412	0.00
	Jharkhand	1985	0	36.5	25.0	-1.0	146	0.00
	Odisha	5068	0	103.2	29.2	-0.3	402	0.00
	West Bengal	7033	0	136.9	13.7	-2.4	129	0.00
	Sikkim	108	0	1.6	1.7	-0.1	20	0.00
Railways_ER ISTS	16	0	0.2	0.2	0.0	3	0.00	
NER	Arunachal Pradesh	166	0	2.8	2.5	0.1	35	0.00
	Assam	1563	0	26.5	19.5	0.0	104	0.00
	Manipur	356	0	3.3	3.3	0.0	44	0.00
	Meghalaya	376	0	6.4	5.6	-0.1	176	0.00
	Mizoram	140	0	2.4	1.7	0.2	12	0.00
	Nagaland	177	0	2.5	2.4	0.0	27	0.00
Tripura	232	0	4.0	4.8	0.0	25	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-3.7	-0.5	-11.5	-9.0
Day Peak (MW)	-341.1	-85.2	-508.0	-764.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	259.0	-185.5	120.7	-199.2	5.0	0.0
Actual(MU)	254.8	-165.8	99.8	-199.7	5.1	-5.8
O/D/U/D(MU)	-4.2	19.7	-20.8	-0.6	0.1	-5.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5879	8764	8098	3178	705	26624	45
State Sector	10768	12729	5854	2254	332	31936	55
Total	16647	21493	13952	5432	1036	58560	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	621	1463	564	673	9	3329	75
Lignite	26	14	20	0	0	60	1
Hydro	112	31	68	19	14	243	5
Nuclear	31	63	76	0	0	170	4
Gas, Naptha & Diesel	2	14	5	0	24	45	1
RES (Wind, Solar, Biomass & Others)	187	206	203	6	1	603	14
Total	979	1791	935	698	48	4451	100

Share of RES in total generation (%)	19.15	11.49	21.70	0.79	2.24	13.54
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.74	16.75	37.07	3.46	31.04	22.83

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.058

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	202180	9:57	230
Non-Solar hr	194683	18:21	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: 04-Dec-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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	0	1397	0.0	21.0	-21.0
4	765 kV	SASARAM-FATEHPUR	1	0	648	0.0	8.9	-8.9
5	765 kV	GAYA-BALIA	1	0	789	0.0	14.7	-14.7
6	400 kV	PUSAULI-VARANASI	1	0	162	0.0	3.0	-3.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	150	0.0	3.0	-3.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	711	0.0	10.6	-10.6
9	400 kV	PATNA-BALIA	2	0	1261	0.0	22.7	-22.7
10	400 kV	NAUBATPUR-BALIA	2	0	865	0.0	7.4	-7.4
11	400 kV	BIHARSHARIFF-BALIA	2	0	290	0.0	6.6	-6.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	659	0.0	11.5	-11.5
13	400 kV	BIHARSHARIFF-VARANASI	2	0	458	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARMANASA	1	0	95	0.0	0.5	-0.5
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						0.6	115.8	-115.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	878	0.0	12.4	-12.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	441	950	0.0	3.6	-3.6
3	765 kV	JHARSUGUDA-DURG	2	0	744	0.0	12.6	-12.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	879	0.0	12.0	-12.0
5	400 kV	RANCHI-SIPAT	2	76	385	0.0	3.0	-3.0
6	220 kV	BUDHIPADAR-RAIGARH	1	1	111	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	74	149	0.0	0.8	-0.8
ER-WR						0.0	45.7	-45.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	169	0.0	4.0	-4.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1696	0.0	31.9	-31.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2775	0.0	52.0	-52.0
4	400 kV	TALCHER-I/C	2	678	615	6.9	0.0	6.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	87.9	-87.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	294	0	3.2	0.0	3.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	526	0	6.6	0.0	6.6
3	220 kV	ALIPURDUAR-SALAKATI	2	106	0	1.6	0.0	1.6
ER-NER						11.4	0.0	11.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	672	0	16.0	0.0	16.0
NER-NR						16.0	0.0	16.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1019	0.0	23.4	-23.4
2	HVDC	VINDHYACHAL B/B	-	0	307	0.0	7.2	-7.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	689	0.0	14.8	-14.8
4	765 kV	GWALIOR-AGRA	2	0	1941	0.0	27.7	-27.7
5	765 kV	GWALIOR-PHAGI	2	12	2133	0.0	28.9	-28.9
6	765 kV	JABALPUR-ORAI	2	0	910	0.0	32.8	-32.8
7	765 kV	GWALIOR-ORAI	1	923	0	13.5	0.0	13.5
8	765 kV	SATNA-ORAI	1	0	1074	0.0	20.8	-20.8
9	765 kV	BANASKANTHA-CHITTOGARH	2	1189	836	7.0	5.2	1.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2285	0.0	37.6	-37.6
11	400 kV	ZERDA-KANKROLI	1	250	100	1.6	0.5	1.1
12	400 kV	ZERDA -BHINMAL	1	173	69	1.1	0.3	0.8
13	400 kV	VINDHYACHAL -RIHAND	1	970	0	20.5	0.0	20.5
14	400 kV	RAPP-SHUJALPUR	2	496	333	2.2	2.0	0.1
15	400 kV	NEEMUCH-Chittorgarh	2	522	289	1.1	0.0	1.1
16	220 kV	BHANPURA-RANPUR	1	0	199	0.0	3.2	-3.2
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6
18	220 kV	MEHGAON-AURAIYA	1	97	9	0.9	0.0	0.9
19	220 kV	MALANPUR-AURAIYA	1	65	22	0.4	0.0	0.4
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						48.3	206.1	-157.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	408	0.0	9.6	-9.6
2	HVDC	RAIGARH-PUGALUR	2	0	903	0.0	17.1	-17.1
3	765 kV	SOLAPUR-RAICHUR	2	1653	1073	7.7	5.6	2.2
4	765 kV	WARDHA-NIZAMABAD	2	0	1864	0.0	28.7	-28.7
5	765 kV	WARORA-WARANGAL(NEW)	2	0	1905	0.0	30.1	-30.1
6	400 kV	KOLHAPUR-KUDGI	2	1737	0	27.5	0.0	27.5
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	2.2	0.0	2.2
WR-SR						37.5	91.0	-53.6

INTERNATIONAL EXCHANGES					Import(+ve)/Export(-ve) Energy Exchange (MU)		
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)		
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	109	-74	-4	-0.10	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	247	-79	86	2.06	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-254	-142	-231	-5.53	
	NER	132kV GELEPHU-SALAKATI	-35	0	-2	-0.05	
	NER	132kV MOTANGA-RANGIA	-21	8	-3	-0.07	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-38	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-38	0	-14	-0.33	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-96	-4	-8	-0.18	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-450	-424	-434	-10.42	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-764	-39	-375	-9.00	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-58	0	-47	-1.12	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 04-Dec-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	4.64	0.00	0.00	0.00	0.00	0.00	4.64
Nepal	0.13	0.00	0.42	0.00	0.00	0.49	0.00	0.00	1.04
Bangladesh	10.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.77
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	10.90	0.00	5.06	0.00	0.00	0.49	0.00	0.00	16.45

Import by India(in MU)

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76
Nepal	0.00	0.00	0.60	0.00	0.00	0.03	0.00	0.00	0.63
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	0.76	0.00	0.60	0.00	0.00	0.03	0.00	0.00	1.39

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	0.76	0.00	-4.64	0.00	0.00	0.00	0.00	0.00	-3.88
Nepal	-0.13	0.00	0.18	0.00	0.00	-0.46	0.00	0.00	-0.41
Bangladesh	-10.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10.77
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-10.14	0.00	-4.46	0.00	0.00	-0.46	0.00	0.00	-15.06

15 Min (INSTANTANEOUS) ALL INDIA GRID FREQUENCY, GENERATION & DEMAND MET (SCADA DATA)												
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 (MW)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I=A-(C+D))	(J=B+C+D+E+F+G+H)	(K)
0:00	49.98	141745	6683	12703	66	6212	1798	114663	2725	128976	144850	-606
0:15	50.03	141420	6669	12683	63	6421	1810	114402	2718	128674	144766	-658
0:30	49.98	140262	6680	12653	62	6299	1802	113515	2714	127547	143725	-653
0:45	49.98	139782	6679	12538	64	6169	1807	113298	2769	127180	143324	-660
1:00	50.08	138883	6689	12509	70	6050	1809	112865	2723	126304	142715	-665
1:15	50.03	137765	6689	12519	71	5954	1837	111841	2711	125175	141622	-673
1:30	50.08	137427	6680	12568	72	5993	1809	111340	2765	124787	141227	-650
1:45	50.03	136368	6707	12454	65	5803	1789	110857	2675	123849	140350	-634
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2:30	49.98	134092	6531	11949	74	5634	1792	109614	2734	122069	138328	-658
2:45	50.03	133939	6530	11893	68	5620	1785	109486	2744	121978	138126	-669
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3:30	50.08	133638	6695	11508	67	5998	1796	108920	2708	122063	137692	-678
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5:30	50.03	149928	6692	10915	76	7185	1851	123851	2681	138937	153251	-736
5:45	49.97	153460	6678	10892	67	7427	1828	127198	2662	142501	156752	-698
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7:00	50.02	179391	6682	10850	850	16255	1805	143833	2613	167691	182888	-763
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8:45	50.09	195420	6684	10035	18679	11444	1858	147296	2675	166706	198671	-602
9:00	50.14	196723	6698	9618	22356	10665	1831	146428	2764	164749	200360	-695
9:15	50.04	199700	6680	9003	25807	10584	1844	146667	2788	164890	203373	-656
9:30	50.14	201312	6689	8475	29999	10154	1853	145125	2839	162838	205134	-687
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