



**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: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 22.09.2024

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 21.09.2024.**

महोदय/Dear Sir,

आईईजीसी-2023 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-सितंबर-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 21.09.2024, is available at the NLDC website.

धन्यवाद,  
Thanks

Report for previous day

Date of Reporting: 22-Sep-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)	71071	63275	47221	28577	3488	213632
Peak Shortage (MW)	363	910	0	670	93	2036
Energy Met (MU)	1605	1504	1230	643	76	5058
Hydro Gen (MU)	488	128	140	95	28	879
Wind Gen (MU)	9	71	181	-	-	260
Solar Gen (MU)*	156.62	87.85	112.47	3.22	0.99	361
Energy Shortage (MU)	2.05	8.83	0.00	1.68	0.29	12.85
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72036	67382	57466	29987	3545	224585
Time Of Maximum Demand Met	22:19	15:40	09:41	23:02	00:00	14:52

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	0.030	0.00	0.00	6.94	6.94	82.87	10.18

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	15235	0	296.8	163.3	0.0	1481	0.00
	Haryana	10829	0	229.1	172.8	0.5	488	0.00
	Rajasthan	14614	0	317.7	116.1	1.4	577	1.63
	Delhi	5404	0	115.1	105.7	0.1	245	0.00
	UP	25794	0	492.9	201.5	0.8	595	0.00
	Uttarakhand	2381	75	51.2	24.6	0.6	135	0.20
	HP	1783	0	37.9	7.2	-0.4	90	0.00
	J&K(UT) & Ladakh(UT)	2598	132	53.9	32.5	3.9	507	0.22
	Chandigarh	311	0	6.4	5.7	0.7	98	0.00
Railways NR ISTS	202	0	4.2	3.8	0.4	52	0.00	
WR	Chhattisgarh	5873	0	131.8	79.2	-0.6	444	0.00
	Gujarat	23627	0	490.2	193.0	-2.9	537	0.00
	MP	12113	0	259.7	131.8	-3.4	733	0.19
	Maharashtra	25474	1326	550.0	179.6	4.1	1051	8.64
	Goa	702	0	15.1	11.9	2.8	94	0.00
	DNHDDPDCL	1338	0	30.9	31.1	-0.2	30	0.00
	AMNSIL	744	0	13.8	3.9	0.5	214	0.00
	BALCO	527	0	12.6	12.6	0.0	3	0.00
SR	Andhra Pradesh	11228	0	231.9	82.4	-1.5	344	0.00
	Telangana	13120	0	251.3	117.3	-1.4	790	0.00
	Karnataka	14600	0	269.0	97.9	-0.5	792	0.00
	Kerala	4188	0	84.9	53.0	0.5	375	0.00
	Tamil Nadu	17417	0	381.8	136.8	-4.8	549	0.00
	Puducherry	468	0	11.0	10.5	-0.2	53	0.00
ER	Bihar	7768	0	159.9	151.0	-3.0	353	1.68
	DVC	3526	0	73.8	-48.3	-1.8	345	0.00
	Jharkhand	2160	0	45.2	33.7	1.6	197	0.00
	Odisha	5830	0	130.8	27.4	-1.2	562	0.00
	West Bengal	11639	0	232.0	92.3	-2.9	289	0.00
	Sikkim	84	0	1.3	1.5	-0.2	23	0.00
Railways ER ISTS	13	0	0.1	0.1	0.0	8	0.00	
NER	Arunachal Pradesh	181	0	3.4	3.2	-0.1	31	0.00
	Assam	2593	0	55.1	46.9	1.0	145	0.21
	Manipur	176	45	2.4	2.7	-0.3	28	0.08
	Meghalaya	236	0	4.4	1.4	-0.2	60	0.00
	Mizoram	133	0	2.3	0.6	-0.1	9	0.00
	Nagaland	172	0	3.3	2.9	0.0	29	0.00
Tripura	329	0	5.4	5.4	-0.4	28	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	40.8	18.9	-21.9	-24.5
Day Peak (MW)	1875.0	940.5	-971.0	-1124.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	328.5	-260.3	18.3	-101.6	15.1	0.0
Actual(MU)	323.6	-261.7	23.4	-107.6	14.4	-7.9
O/D/U/D(MU)	-4.9	-1.4	5.1	-6.0	-0.7	-7.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4798	13487	4168	5376	280	28110	54
State Sector	6281	9140	6722	1784	155	24081	46
Total	11079	22627	10890	7160	435	52191	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	799	1458	679	712	16	3663	66
Lignite	26	13	61	0	0	100	2
Hydro	488	128	140	95	28	879	16
Nuclear	30	53	66	0	0	149	3
Gas, Naptha & Diesel	21	72	5	0	23	121	2
RES (Wind, Solar, Biomass & Others)	171	162	329	5	1	668	12
Total	1533	1887	1280	812	68	5580	100

Share of RES in total generation (%)	11.14	8.58	25.73	0.62	1.47	11.97
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.88	18.21	41.81	12.36	42.27	30.39

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.092

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	224585	14:52	0
Non-Solar hr	215553	18:57	2320

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: 22-Sep-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	351	0.0	8.6	-8.6
2	HVDC	PUSAULI B/B	-	0	112	0.0	2.6	-2.6
3	765 kV	GAYA-VARANASI	2	250	475	0.0	1.5	-1.5
4	765 kV	SASARAM-FATEHPUR	1	75	238	0.0	1.8	-1.8
5	765 kV	GAYA-BALIA	1	0	781	0.0	12.2	-12.2
6	400 kV	PUSAULI-VARANASI	1	0	158	0.0	3.0	-3.0
7	400 kV	PUSAULI-ALLAHABAD	1	50	5	0.4	0.0	0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	623	0.0	8.4	-8.4
9	400 kV	PATNA-BALIA	2	0	816	0.0	13.2	-13.2
10	400 kV	NAUBATPUR-BALIA	2	0	241	0.0	3.6	-3.6
11	400 kV	BIHARSHARIFF-BALIA	2	114	118	0.0	0.0	0.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	405	0.0	6.3	-6.3
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	73	0.0	0.8	-0.8
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	0	0	0.7	0.0	0.7
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>1.1</b>	<b>62.0</b>	<b>-60.9</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	219	1010	0.0	9.4	-9.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2343	0	34.1	0.0	34.1
3	765 kV	JHARSUGUDA-DURG	2	0	684	0.0	9.5	-9.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	729	0.0	11.7	-11.7
5	400 kV	RANCHI-SIPAT	2	438	155	4.8	0.0	4.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	140	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	0	196	0.0	3.5	-3.5
<b>ER-WR</b>						<b>38.9</b>	<b>36.3</b>	<b>2.6</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	730	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2	0.0	0.0	0.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2459	0.0	37.8	-37.8
4	400 kV	TALCHER-I/C	2	1833	0	37.2	0.0	37.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>50.4</b>	<b>-50.4</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	601	0.0	10.9	-10.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	975	0.0	18.6	-18.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	199	0.0	3.8	-3.8
<b>ER-NER</b>						<b>0.0</b>	<b>33.2</b>	<b>-33.2</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	853	0.0	19.8	-19.8
<b>NER-NR</b>						<b>0.0</b>	<b>19.8</b>	<b>-19.8</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	1	2012	0.0	19.5	-19.5
2	HVDC	VINDHYACHAL B/B	-	47	494	0.5	2.3	-1.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2352	0.0	49.0	-49.0
4	765 kV	GWALIOR-AGRA	2	0	1849	0.2	27.5	-27.3
5	765 kV	GWALIOR-PHAGI	2	0	2043	0.0	31.7	-31.7
6	765 kV	JABALPUR-ORAI	2	0	1372	0.0	45.1	-45.1
7	765 kV	GWALIOR-ORAI	1	692	0	11.1	0.0	11.1
8	765 kV	SATNA-ORAI	1	0	891	0.0	19.2	-19.2
9	765 kV	BANASKANTHA-CHITTOGARH	2	1964	248	19.8	0.3	19.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	4095	0.0	67.7	-67.7
11	400 kV	ZERDA-KANKROLI	1	382	90	3.6	0.3	3.3
12	400 kV	ZERDA-BHINMAL	1	0	225	0.0	2.8	-2.8
13	400 kV	VINDHYACHAL-RIHAND	1	0	1	0.0	0.0	0.0
14	400 kV	RAPP-SHUJALPUR	2	221	619	0.7	6.6	-5.9
15	400 kV	NEEMUCH-Chittorgarh	2	84	703	0.0	8.3	-8.3
16	220 kV	BHANPURA-RANPUR	1	0	85	0.0	1.3	-1.3
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
18	220 kV	MEHGAON-AURAIYA	1	103	30	0.9	0.0	0.9
19	220 kV	MALANPUR-AURAIYA	1	78	46	0.6	0.1	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
<b>WR-NR</b>						<b>37.4</b>	<b>283.8</b>	<b>-246.4</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	507	0.0	12.1	-12.1
2	HVDC	RAIGARH-PUGALUR	2	0	606	0.0	14.7	-14.7
3	765 kV	SOLAPUR-RAICHUR	2	1469	751	16.9	1.1	15.8
4	765 kV	WARDHA-NIZAMABAD	2	487	1896	1.9	17.3	-15.4
5	765 kV	WARORA-WARANGAL(NEW)	2	339	1881	0.9	17.7	-16.8
6	400 kV	KOLHAPUR-KUDGI	2	1704	0	28.7	0.0	28.7
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	80	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	117	2.4	0.0	2.4
<b>WR-SR</b>						<b>50.8</b>	<b>62.9</b>	<b>-12.1</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)	719	637	672	16.12	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	848	796	816	19.58	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	135	78	117	2.80	
	NER	132kV GELEPHU-SALAKATI	41	0	33	0.78	
	NER	132kV MOTANGA-RANGIA	67	0	61	1.47	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	68	0	49	1.18	
	ER	NEPAL IMPORT (FROM BIHAR)	102	41	50	1.20	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	770	555	690	16.55	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-899	-686	-852	-20.45	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1124	-855	-1019	-24.45	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-72	0	-61	-1.46	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 22-Sep-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	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
Bangladesh	20.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.69
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	20.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.72

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	38.19	0.00	1.56	0.00	0.00	0.14	0.00	0.00	39.89
Nepal	7.36	0.00	11.41	0.00	0.00	0.31	0.00	0.00	19.08
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	45.55	0.00	12.97	0.00	0.00	0.45	0.00	0.00	58.97

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	38.19	0.00	1.56	0.00	0.00	0.14	0.00	0.00	39.89
Nepal	7.33	0.00	11.41	0.00	0.00	0.31	0.00	0.00	19.05
Bangladesh	-20.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.69
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	24.83	0.00	12.97	0.00	0.00	0.45	0.00	0.00	38.25