



**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: 12.07.2024

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 11.07.2024.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-जुलाई-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 11.07.2024, is available at the NLDC website.

धन्यवाद,  
Thanks

Report for previous day

Date of Reporting: 12-Jul-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)	76825	59850	48589	26460	3261	214985
Peak Shortage (MW)	75	0	0	0	0	75
Energy Met (MU)	1786	1399	1171	630	62	5049
Hydro Gen (MU)	394	32	70	95	39	629
Wind Gen (MU)	48	170	190	-	-	408
Solar Gen (MU)*	166.27	78.34	120.50	3.01	0.58	369
Energy Shortage (MU)	0.79	0.66	0.00	0.18	0.00	1.63
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	80035	60279	54073	30203	3339	221080
Time Of Maximum Demand Met	14:43	19:35	09:58	00:01	19:16	11:53

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	3.24	3.24	83.97	12.79

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	15240	0	334.4	211.4	0.0	270	0.00
	Haryana	13830	0	288.1	213.5	0.9	278	0.00
	Rajasthan	14808	0	317.9	92.4	0.2	759	0.34
	Delhi	7448	0	144.9	133.2	-0.5	153	0.00
	UP	26799	0	540.8	250.4	1.2	579	0.00
	Uttarakhand	2418	0	52.5	27.9	0.7	128	0.45
	HP	1865	0	40.1	2.0	-0.1	75	0.00
	J&K(UT) & Ladakh(UT)	2553	0	54.3	31.1	-3.0	160	0.00
	Chandigarh	417	0	8.4	8.1	0.2	64	0.00
Railways NR ISTS	211	0	4.4	3.6	0.9	97	0.00	
WR	Chhattisgarh	5944	0	137.1	83.3	2.0	604	0.66
	Gujarat	18537	0	414.0	136.9	-5.8	737	0.00
	MP	12268	0	257.6	131.3	-3.6	477	0.00
	Maharashtra	23295	0	516.1	151.9	-7.3	865	0.00
	Goa	614	0	13.1	12.7	0.1	28	0.00
	DNHDDPDCL	1326	0	30.7	30.7	0.0	57	0.00
	AMNSIL	829	0	18.3	4.8	0.7	328	0.00
	BALCO	525	0	12.5	12.6	-0.1	9	0.00
SR	Andhra Pradesh	10229	0	218.1	45.3	-1.5	903	0.00
	Telangana	12402	0	249.4	150.6	0.2	815	0.00
	Karnataka	12536	0	235.3	45.6	-4.2	581	0.00
	Kerala	4096	0	81.7	48.5	0.7	445	0.00
	Tamil Nadu	17594	0	375.9	171.5	2.2	1311	0.00
	Puducherry	495	0	10.9	10.8	-0.5	29	0.00
ER	Bihar	6833	0	128.6	120.6	-2.5	409	0.18
	DVC	3466	0	75.4	-44.7	-1.3	197	0.00
	Jharkhand	2183	0	45.1	33.8	-0.7	181	0.00
	Odisha	6443	0	137.1	45.3	4.8	487	0.00
	West Bengal	11710	0	242.7	100.8	-1.5	434	0.00
	Sikkim	84	0	1.3	1.3	0.0	30	0.00
	Railways ER ISTS	17	0	0.1	0.1	0.0	5	0.00
NER	Arunachal Pradesh	139	0	2.7	2.4	-0.1	20	0.00
	Assam	2169	0	40.4	31.9	0.2	134	0.00
	Manipur	195	0	2.8	2.9	-0.2	23	0.00
	Meghalaya	320	0	5.9	-0.5	-0.1	50	0.00
	Mizoram	116	0	2.0	0.6	-0.1	5	0.00
	Nagaland	161	0	3.1	2.9	-0.1	19	0.00
	Tripura	307	0	5.6	5.3	-0.2	35	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	40.4	16.8	-24.5	-33.4
Day Peak (MW)	1901.0	795.6	-1043.0	-1527.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	364.3	-327.8	53.4	-82.3	-7.6	0.0
Actual(MU)	359.1	-345.0	70.0	-82.7	-9.8	-8.5
O/D/U/D(MU)	-5.2	-17.3	16.6	-0.4	-2.1	-8.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2348	12404	6638	5701	647	27737	55
State Sector	5656	8963	6348	1924	119	23010	45
Total	8003	21367	12986	7625	766	50746	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	829	1474	648	692	16	3659	67
Lignite	29	16	48	0	0	92	2
Hydro	394	32	70	95	39	629	12
Nuclear	30	47	69	0	0	146	3
Gas, Naptha & Diesel	18	52	5	0	23	99	2
RES (Wind, Solar, Biomass & Others)	222	249	337	4	1	813	15
Total	1522	1871	1176	791	78	5438	100

Share of RES in total generation (%)	14.59	13.33	28.66	0.54	0.74	14.96
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.42	17.56	40.47	12.51	50.38	29.21

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.087

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	221080	11:53	0
Non-Solar hr	217824	22:31	150

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 -> 07:00 to 17:00hrs 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: 12-Jul-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	350	0.0	8.9	-8.9
2	HVDC	PUSAULI B/B	-	1	97	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	712	689	0.0	3.4	-3.4
4	765 kV	SASARAM-FATEHPUR	1	238	434	0.0	3.8	-3.8
5	765 kV	GAYA-BALIA	1	0	554	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	1	0	147	0.0	2.1	-2.1
7	400 kV	PUSAULI-ALLAHABAD	1	51	54	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	747	0.0	11.9	-11.9
9	400 kV	PATNA-BALIA	2	135	631	0.0	9.8	-9.8
10	400 kV	NAUBATPUR-BALIA	2	95	386	0.0	2.7	-2.7
11	400 kV	BIHARSHARIFF-BALIA	2	279	82	1.4	0.0	1.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	444	0.0	7.5	-7.5
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	36	60	0.0	0.3	-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>1.8</b>	<b>62.5</b>	<b>-60.7</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	855	679	2.1	0.0	2.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2235	0	31.1	0.0	31.1
3	765 kV	JHARSUGUDA-DURG	2	86	214	0.0	1.3	-1.3
4	400 kV	JHARSUGUDA-RAIGARH	4	384	216	1.4	0.0	1.4
5	400 kV	RANCHI-SIPAT	2	623	0	7.3	0.0	7.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	153	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	12	123	0.0	1.6	-1.6
<b>ER-WR</b>						<b>41.9</b>	<b>5.4</b>	<b>36.5</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	111	0.0	2.6	-2.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	48.2	-48.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2049	0.0	30.9	-30.9
4	400 kV	TALCHER-I/C	2	0	896	0.0	16.9	-16.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>81.7</b>	<b>-81.7</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	121	199	0.3	1.6	-1.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	113	395	0.0	4.4	-4.4
3	220 kV	ALIPURDUAR-SALAKATI	2	20	79	0.0	0.9	-0.9
<b>ER-NER</b>						<b>0.3</b>	<b>6.9</b>	<b>-6.6</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.9	-16.9
<b>NER-NR</b>						<b>0.0</b>	<b>16.9</b>	<b>-16.9</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	4025	0.0	92.1	-92.1
2	HVDC	VINDHYACHAL B/B	-	94	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1450	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	0	2253	0.0	36.2	-36.2
5	765 kV	GWALIOR-PHAGI	2	823	1387	3.2	16.4	-13.3
6	765 kV	JABALPUR-ORAI	2	0	1142	0.0	34.6	-34.6
7	765 kV	GWALIOR-ORAI	1	622	0	8.8	0.0	8.8
8	765 kV	SATNA-ORAI	1	0	1012	0.0	20.6	-20.6
9	765 kV	BANASKANTHA-CHITTOGARH	2	202	1572	0.1	19.3	-19.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3401	0.0	56.5	-56.5
11	400 kV	ZERDA-KANKROLI	1	144	197	0.5	2.0	-1.5
12	400 kV	ZERDA -BHINMAL	1	100	136	0.3	1.4	-1.1
13	400 kV	VINDHYACHAL -RIHAND	1	973	0	21.3	0.0	21.3
14	400 kV	RAPP-SHUALPUR	2	378	445	1.9	3.9	-2.0
15	400 kV	NEEMUCH-Chittorgarh	2	421	457	2.3	3.2	-0.9
16	220 kV	BHANPURA-RANPUR	1	0	177	0.0	3.6	-3.6
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
18	220 kV	MEHGAON-AURAIYA	1	77	11	0.7	0.0	0.6
19	220 kV	MALANPUR-AURAIYA	1	52	28	0.3	0.1	0.2
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>41.7</b>	<b>328.4</b>	<b>-286.7</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	998	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	0	2508	0.0	39.1	-39.1
3	765 kV	SOLAPUR-RAICHUR	2	1843	822	14.8	0.8	14.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2260	0.0	25.7	-25.7
5	765 kV	WARORA-WARANGAL(NEW)	2	48	2216	0.0	24.5	-24.5
6	400 kV	KOLHAPUR-KUDGI	2	1570	0	27.4	0.0	27.4
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	96	2.0	0.0	2.0
<b>WR-SR</b>						<b>68.1</b>	<b>89.9</b>	<b>-21.8</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)	361	213	361	19.39	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	903	763	804	19.30	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	88	-80	1	0.03	
	NER	132kV GELEPHU-SALAKATI	55	0	21	0.50	
	NER	132kV MOTANGA-RANGIA	61	0	48	1.15	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-42	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	66	0	35	0.85	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	730	622	664	15.93	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-942	-864	-934	-22.42	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1527	-1259	-1393	-33.44	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-101	0	-88	-2.10	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 12-Jul-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	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
Bangladesh	22.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.38
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	35.00	0.00	1.47	0.00	0.00	0.00	0.00	0.00	36.47
Nepal	2.63	0.00	13.35	0.00	0.00	0.05	0.00	0.00	16.03
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	37.63	0.00	14.82	0.00	0.00	0.05	0.00	0.00	52.50

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	35.00	0.00	1.47	0.00	0.00	0.00	0.00	0.00	36.47
Nepal	2.59	0.00	13.35	0.00	0.00	0.05	0.00	0.00	15.99
Bangladesh	-22.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.38
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	15.21	0.00	14.82	0.00	0.00	0.05	0.00	0.00	30.08