



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: 13.07.2024

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, 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 12.07.2024.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-जुलाई-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 12.07.2024, is available at the NLDC website.

धन्यवाद,  
Thanks

Report for previous day

Date of Reporting: 13-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)	75336	58863	45404	27089	3300	209992
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1725	1390	1170	583	65	4934
Hydro Gen (MU)	392	24	68	72	37	594
Wind Gen (MU)	79	246	200	-	-	525
Solar Gen (MU)*	157.43	70.19	113.60	1.64	0.95	344
Energy Shortage (MU)	0.00	0.00	0.00	0.06	0.00	0.06
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	76811	59789	55992	28263	3352	214275
Time Of Maximum Demand Met	21:23	19:37	10:21	00:01	19:06	11:51

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	0.034	0.00	0.81	3.44	4.25	72.46	23.30

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	14729	0	320.8	215.2	-2.8	336	0.00
	Haryana	12734	0	275.5	210.0	-3.2	92	0.00
	Rajasthan	13792	0	295.0	58.8	-6.9	191	0.00
	Delhi	7079	0	140.5	129.8	-1.8	93	0.00
	UP	27280	0	540.3	255.0	1.6	633	0.00
	Uttarakhand	2472	0	51.9	26.2	0.8	175	0.00
	HP	1861	0	39.1	2.1	-0.3	86	0.00
	J&K(UT) & Ladakh(UT)	2471	0	49.8	31.2	-7.6	45	0.00
	Chandigarh	368	0	7.6	8.1	-0.5	42	0.00
Railways NR ISTS	204	0	4.3	3.8	0.4	88	0.00	
WR	Chhattisgarh	5781	0	133.3	82.0	-0.2	290	0.00
	Gujarat	18573	0	413.9	104.9	-12.4	420	0.00
	MP	11672	0	254.4	134.6	-3.1	386	0.00
	Maharashtra	23130	0	514.5	158.1	-5.7	866	0.00
	Goa	605	0	13.0	12.6	0.2	39	0.00
	DNHDDPDCL	1295	0	29.8	29.9	-0.1	105	0.00
	AMNSIL	858	0	18.8	5.8	0.0	245	0.00
	BALCO	522	0	12.5	12.6	-0.1	6	0.00
SR	Andhra Pradesh	10352	0	219.6	54.5	-1.9	483	0.00
	Telangana	12609	0	249.0	162.8	-0.4	831	0.00
	Karnataka	13820	0	241.6	49.1	0.3	1253	0.00
	Kerala	3784	0	80.8	53.3	1.1	613	0.00
	Tamil Nadu	17273	0	368.7	165.9	-4.2	896	0.00
	Puducherry	466	0	10.6	10.4	-0.4	27	0.00
ER	Bihar	6528	0	124.3	113.4	-0.1	425	0.06
	DVC	3457	0	75.1	-38.7	-0.7	210	0.00
	Jharkhand	2119	0	42.1	31.8	-2.2	144	0.00
	Odisha	6153	0	129.0	52.6	-0.9	407	0.00
	West Bengal	10867	0	211.5	82.8	-2.5	396	0.00
	Sikkim	81	0	1.3	1.4	-0.1	36	0.00
Railways ER ISTS	17	0	0.1	0.2	0.0	4	0.00	
NER	Arunachal Pradesh	169	0	2.8	2.4	-0.1	52	0.00
	Assam	2178	0	43.0	33.3	1.1	110	0.00
	Manipur	190	0	2.8	3.0	-0.2	18	0.00
	Meghalaya	331	0	5.7	-0.4	-0.3	28	0.00
	Mizoram	116	0	1.9	0.9	-0.1	52	0.00
	Nagaland	165	0	3.2	2.8	0.0	22	0.00
Tripura	290	0	5.7	5.0	-0.2	29	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	40.4	17.9	-24.3	-29.2
Day Peak (MW)	2172.9	791.4	-1039.0	-1378.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	347.7	-342.6	76.0	-77.4	-3.8	-0.1
Actual(MU)	329.8	-357.7	99.7	-71.0	-5.7	-4.9
O/D/U/D(MU)	-17.9	-15.1	23.6	6.4	-1.9	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3157	12701	6138	5176	597	27768	57
State Sector	4346	8656	6693	1324	119	21137	43
Total	7503	21356	12831	6500	716	48905	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	787	1427	607	645	14	3480	66
Lignite	25	14	47	0	0	86	2
Hydro	392	24	68	72	37	594	11
Nuclear	30	47	73	0	0	150	3
Gas, Naptha & Diesel	16	37	5	0	23	80	2
RES (Wind, Solar, Biomass & Others)	244	319	340	3	1	907	17
Total	1494	1869	1139	719	76	5297	100

Share of RES in total generation (%)	16.32	17.08	29.88	0.41	1.26	17.13
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.54	20.90	42.26	10.37	50.89	31.16

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.046
Based on State Max Demands	1.103

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	214275	11:51	0
Non-Solar hr	211041	0:10	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 -> 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: 13-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	351	0.0	8.7	-8.7
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	881	725	0.0	0.6	-0.6
4	765 kV	SASARAM-FATEHPUR	1	301	382	0.0	2.2	-2.2
5	765 kV	GAYA-BALIA	1	0	574	0.0	7.6	-7.6
6	400 kV	PUSAULI-VARANASI	1	0	143	0.0	2.2	-2.2
7	400 kV	PUSAULI-ALLAHABAD	1	49	47	0.0	0.1	-0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	31	819	0.0	11.5	-11.5
9	400 kV	PATNA-BALIA	2	269	654	0.0	6.9	-6.9
10	400 kV	NAUBATPUR-BALIA	2	142	201	0.0	1.5	-1.5
11	400 kV	BIHARSHARIFF-BALIA	2	363	154	1.6	0.0	1.6
12	400 kV	MOTIHARI-GORAKHPUR	2	53	453	0.0	6.2	-6.2
13	400 kV	BIHARSHARIFF-VARANASI	2	233	237	0.0	1.4	-1.4
14	220 kV	SAHUPURI-KARAMNANA	1	43	26	0.0	0.0	0.0
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-CHANDALI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>2.0</b>	<b>51.0</b>	<b>-48.9</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1491	218	13.7	0.0	13.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1958	376	28.8	0.0	28.8
3	765 kV	JHARSUGUDA-DURG	2	110	249	0.0	0.9	-0.9
4	400 kV	JHARSUGUDA-RAIGARH	4	340	320	1.1	0.0	1.1
5	400 kV	RANCHI-SIPAT	2	542	143	6.9	0.0	6.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	153	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	0	145	0.0	1.2	-1.2
<b>ER-WR</b>						<b>50.5</b>	<b>4.5</b>	<b>46.1</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	1989	0.0	48.2	-48.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2544	0.0	36.3	-36.3
4	400 kV	TALCHER-I/C	2	0	1242	0.0	19.9	-19.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>87.0</b>	<b>-87.0</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	117	224	0.0	2.3	-2.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	71	538	0.0	6.0	-6.0
3	220 kV	ALIPURDUAR-SALAKATI	2	12	108	0.0	1.2	-1.2
<b>ER-NER</b>						<b>0.0</b>	<b>9.5</b>	<b>-9.5</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	4041	0.0	87.0	-87.0
2	HVDC	VINDHYACHAL B/B	-	94	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1909	0.0	42.9	-42.9
4	765 kV	GWALIOR-AGRA	2	0	2258	0.0	32.5	-32.5
5	765 kV	GWALIOR-PHAGI	2	1739	1071	8.9	11.4	-2.5
6	765 kV	JABALPUR-ORAI	2	0	1067	0.0	28.8	-28.8
7	765 kV	GWALIOR-ORAI	1	518	252	6.7	0.7	6.0
8	765 kV	SATNA-ORAI	1	0	1031	0.0	18.6	-18.6
9	765 kV	BANASKANTHA-CHITTOGARH	2	0	1850	0.0	23.4	-23.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	3198	0.0	57.9	-57.9
11	400 kV	ZERDA-KANKROLI	1	62	238	0.1	2.0	-1.9
12	400 kV	ZERDA-BHINMAL	1	43	164	0.1	1.4	-1.3
13	400 kV	VINDHYACHAL-RIHAND	1	970	0	20.9	0.0	20.9
14	400 kV	RAPP-SHUJALPUR	2	589	357	3.9	2.7	1.2
15	400 kV	NEEMUCH-Chittorgarh	2	691	340	5.1	2.1	3.1
16	220 kV	BHANPURA-RANPUR	1	0	189	0.0	3.8	-3.8
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
18	220 kV	MEHGAON-AURAIYA	1	88	17	0.6	0.0	0.6
19	220 kV	MALANPUR-AURAIYA	1	63	31	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>49.1</b>	<b>317.5</b>	<b>-268.4</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	999	0	15.6	0.0	15.6
2	HVDC	RAIGARH-PUGALUR	2	0	1105	0.0	24.7	-24.7
3	765 kV	SOLAPUR-RAICHUR	2	1398	1579	10.9	4.5	6.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2932	0.0	34.5	-34.5
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2870	0.0	32.1	-32.1
6	400 kV	KOLHAPUR-KUDGI	2	1433	0	24.3	0.0	24.3
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	98	2.0	0.0	2.0
<b>WR-SR</b>						<b>52.7</b>	<b>95.8</b>	<b>-43.1</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 MANGDECHU HEP 4*180MW)	805	699	744	17.87	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	977	835	854	20.49	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	219	0	-4	-0.10	
	NER	132kV GELEPHU-SALAKATI	48	-6	37	0.88	
	NER	132kV MOTANGA-RANGIA	68	35	52	1.25	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-11	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	59	0	42	1.00	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	732	636	705	16.92	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-949	0	-939	-22.53	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1378	-1052	-1216	-29.19	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-90	0	-73	-1.74	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 13-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	22.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.56
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.56

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	37.63	0.00	1.47	0.00	0.00	0.00	0.00	0.00	39.10
Nepal	2.63	0.00	13.26	0.00	0.00	0.07	0.00	0.00	15.96
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	40.26	0.00	14.73	0.00	0.00	0.07	0.00	0.00	55.06

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	37.63	0.00	1.47	0.00	0.00	0.00	0.00	0.00	39.10
Nepal	2.63	0.00	13.26	0.00	0.00	0.07	0.00	0.00	15.96
Bangladesh	-22.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.56
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	17.70	0.00	14.73	0.00	0.00	0.07	0.00	0.00	32.50