



**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: 21-June-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 20.06.2024.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-जून-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 20-June-2024, is available at the NLDC website.

धन्यवाद,  
Thanks

Report for previous day

Date of Reporting: 21-Jun-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)	78143	61229	47541	26519	3049	216481
Peak Shortage (MW)	225	0	0	0	0	225
Energy Met (MU)	1794	1477	1111	609	54	5045
Hydro Gen (MU)	359	33	47	54	35	527
Wind Gen (MU)	58	250	201	-	-	508
Solar Gen (MU)*	168.72	84.71	119.58	3.23	0.60	377
Energy Shortage (MU)	3.78	0.00	0.10	0.27	0.00	4.15
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	85448	65174	50787	29839	3043	229780
Time Of Maximum Demand Met	15:16	14:52	09:51	00:00	19:00	14:59

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	0.00	6.31	6.31	71.74	21.95

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	15343	0	307.4	205.3	-5.8	229	0.00
	Haryana	12869	0	259.6	184.8	-4.4	288	0.00
	Rajasthan	17078	0	364.5	119.6	-2.5	687	0.60
	Delhi	7710	0	159.3	127.6	-1.7	532	0.00
	UP	27201	338	547.0	275.2	-0.8	969	1.80
	Uttarakhand	2536	0	54.4	24.7	0.4	343	0.61
	HP	1684	0	36.1	1.2	0.3	108	0.00
	J&K(UT) & Ladakh(UT)	2610	0	53.9	27.9	-0.1	323	0.77
	Chandigarh	381	0	7.8	8.8	-1.0	29	0.00
Railways NR ISTS	221	0	4.4	3.6	0.7	86	0.00	
WR	Chhattisgarh	5002	0	110.1	62.3	-1.7	386	0.00
	Gujarat	23629	0	493.0	116.7	-4.9	749	0.00
	MP	11922	0	257.6	146.1	-4.7	652	0.00
	Maharashtra	23711	0	540.6	173.4	-4.7	587	0.00
	Goa	692	0	14.4	14.2	-0.2	43	0.00
	DNHDDPDCL	1294	0	29.7	30.2	-0.5	28	0.00
	AMNSIL	850	0	18.6	9.1	0.4	278	0.00
	BALCO	525	0	12.5	12.5	0.0	13	0.00
SR	Andhra Pradesh	10234	0	217.2	54.7	-3.8	370	0.00
	Telangana	10209	0	215.7	121.7	0.3	580	0.00
	Karnataka	12022	0	225.8	41.9	-5.3	364	0.00
	Kerala	3987	0	82.7	59.1	0.4	427	0.10
	Tamil Nadu	16681	0	359.9	175.1	4.8	1454	0.00
	Puducherry	459	0	10.2	10.0	-0.4	28	0.00
ER	Bihar	6728	0	125.3	120.1	-5.0	497	0.27
	DVC	3508	0	75.1	-33.8	-0.2	386	0.00
	Jharkhand	2225	0	45.3	35.3	-0.8	410	0.00
	Odisha	6771	0	140.2	58.8	1.0	453	0.00
	West Bengal	10637	0	221.2	96.7	-3.8	137	0.00
	Sikkim	88	0	1.4	1.6	-0.2	27	0.00
Railways ER ISTS	18	0	0.2	0.2	0.0	0	0.00	
NER	Arunachal Pradesh	144	0	3.1	2.7	0.0	12	0.00
	Assam	1927	0	33.6	25.0	0.3	112	0.00
	Manipur	225	0	3.4	3.4	0.0	32	0.00
	Meghalaya	309	0	5.5	-0.7	-0.1	39	0.00
	Mizoram	117	0	1.8	1.1	-0.3	17	0.00
	Nagaland	158	0	2.8	2.3	0.0	13	0.00
Tripura	280	0	3.9	4.6	-1.0	32	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	32.7	12.1	-24.1	-11.2
Day Peak (MW)	1717.0	676.0	-1043.0	-614.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	411.4	-395.8	50.4	-58.3	-7.7	0.0
Actual(MU)	370.7	-416.6	72.9	-23.5	-10.6	-7.1
O/D/U/D(MU)	-40.7	-20.8	22.5	34.9	-2.8	-7.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3256	7226	5372	3876	255	19984	51
State Sector	3351	7119	6128	2554	119	19271	49
Total	6607	14345	11500	6430	374	39254	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	803	1476	601	650	11	3541	65
Lignite	29	16	44	0	0	88	2
Hydro	359	33	47	54	35	527	10
Nuclear	29	60	51	0	0	140	3
Gas, Naptha & Diesel	59	119	10	0	24	212	4
RES (Wind, Solar, Biomass & Others)	235	337	345	5	1	922	17
Total	1513	2040	1098	708	70	5430	100

Share of RES in total generation (%)	15.51	16.52	31.42	0.67	0.86	16.98
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.13	21.05	40.34	8.26	50.50	29.26

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.053

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	229780	14:59	163
Non-Solar hr	218187	22:43	1679

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: 21-Jun-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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	822	705	0.0	1.3	-1.3
4	765 kV	SASARAM-FATEHPUR	1	155	585	0.0	5.4	-5.4
5	765 kV	GAYA-BALIA	1	0	611	0.0	7.9	-7.9
6	400 kV	PUSAULI-VARANASI	1	45	102	0.0	0.7	-0.7
7	400 kV	PUSAULI-ALLAHABAD	1	8	141	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	949	0.0	14.6	-14.6
9	400 kV	PATNA-BALIA	2	138	680	0.0	6.9	-6.9
10	400 kV	NAUBATPUR-BALIA	2	97	200	0.0	1.7	-1.7
11	400 kV	BIHARSHARIFF-BALIA	2	236	190	0.0	0.8	-0.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	571	0.0	8.1	-8.1
13	400 kV	BIHARSHARIFF-VARANASI	2	208	293	0.0	2.4	-2.4
14	220 kV	SAHUPURI-KARAMNANA	1	39	68	0.0	0.4	-0.4
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-CHANDALI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.6</b>	<b>54.1</b>	<b>-53.5</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	752	567	3.6	0.0	3.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2724	0	42.3	0.0	42.3
3	765 kV	JHARSUGUDA-DURG	2	150	379	0.0	4.0	-4.0
4	400 kV	JHARSUGUDA-RAIGARH	4	496	101	4.6	0.0	4.6
5	400 kV	RANCHI-SIPAT	2	714	0	9.6	0.0	9.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	177	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	0	158	0.0	2.2	-2.2
<b>ER-WR</b>						<b>60.0</b>	<b>8.0</b>	<b>52.0</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	209	0	5.0	0.0	5.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1702	0.0	40.9	-40.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2632	0.0	47.3	-47.3
4	400 kV	TALCHER-I/C	2	12	579	0.0	7.3	-7.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>5.0</b>	<b>88.2</b>	<b>-83.2</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	556	0	10.1	0.0	10.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	727	0	13.6	0.0	13.6
3	220 kV	ALIPURDUAR-SALAKATI	2	147	0	2.7	0.0	2.7
<b>ER-NER</b>						<b>26.5</b>	<b>0.0</b>	<b>26.5</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	945	0	14.0	0.0	14.0
<b>NER-NR</b>						<b>14.0</b>	<b>0.0</b>	<b>14.0</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3530	0.0	44.0	-44.0
2	HVDC	VINDHYACHAL B/B	-	0	495	0.0	6.0	-6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1660	0.0	28.7	-28.7
4	765 kV	GWALIOR-AGRA	2	0	3084	0.0	58.8	-58.8
5	765 kV	GWALIOR-PHAGI	2	699	1394	2.1	18.0	-15.9
6	765 kV	JABALPUR-ORAI	2	0	1162	0.0	42.6	-42.6
7	765 kV	GWALIOR-ORAI	1	0	0	0.0	0.0	0.0
8	765 kV	SATNA-ORAI	1	0	1139	0.0	22.5	-22.5
9	765 kV	BANASKANTHA-CHITTOGARH	2	0	2559	0.0	39.2	-39.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	4029	0.0	73.6	-73.6
11	400 kV	ZERDA-KANKROLI	1	0	374	0.0	4.6	-4.6
12	400 kV	ZERDA -BHINMAL	1	0	373	0.0	4.6	-4.6
13	400 kV	VINDHYACHAL -RIHAND	1	964	0	19.9	0.0	19.9
14	400 kV	RAPP-SHUJALPUR	2	146	588	0.3	6.5	-6.2
15	400 kV	NEEMUCH-Chittorgarh	2	298	534	1.2	5.3	-4.1
16	220 kV	BHANPURA-RANPUR	1	30	99	0.0	1.3	-1.2
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.8	-2.8
18	220 kV	MEHGAON-AURAIYA	1	37	75	0.2	0.4	-0.2
19	220 kV	MALANPUR-AURAIYA	1	20	77	0.1	0.5	-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
<b>WR-NR</b>						<b>23.8</b>	<b>359.5</b>	<b>-335.8</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	501	0	10.7	0.0	10.7
2	HVDC	RAIGARH-PUGALUR	2	0	1004	0.0	17.8	-17.8
3	765 kV	SOLAPUR-RAICHUR	2	1946	1026	12.6	3.4	9.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2355	0.0	32.2	-32.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2352	0.0	30.6	-30.6
6	400 kV	KOLHAPUR-KUDGI	2	1942	0	30.2	0.0	30.2
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	74	1.5	0.0	1.5
9	220 kV	XELDEM-AMBEWADI	1	0	107	2.0	0.0	2.0
<b>WR-SR</b>						<b>56.9</b>	<b>84.1</b>	<b>-27.2</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 MANGDECHU HEP 4*180MW)	665	451	589	14.13	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	936	478	739	17.73	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-214	27	-10	-0.24	
	NER	132kV GELEPHU-SALAKATI	18	1	8	0.19	
	NER	132kV MOTANGA-RANGIA	63	27	38	0.91	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	-0.16	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.00	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	676	373	509	12.22	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-946	-943	-945	-22.69	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-614	-405	-465	-11.15	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-97	0	-58	-1.38	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 21-Jun-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	0.60	0.00	0.00	0.00	0.00	0.00	0.60
Bangladesh	22.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.64
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.64	0.00	0.60	0.00	0.00	0.00	0.00	0.00	23.24

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	29.69	0.00	0.57	0.00	0.00	0.08	0.00	0.00	30.34
Nepal	2.63	0.00	4.53	0.00	0.00	4.63	0.00	0.00	11.79
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	32.32	0.00	5.10	0.00	0.00	4.71	0.00	0.00	42.13

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	29.69	0.00	0.57	0.00	0.00	0.08	0.00	0.00	30.34
Nepal	2.63	0.00	3.93	0.00	0.00	4.63	0.00	0.00	11.19
Bangladesh	-22.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.64
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	9.68	0.00	4.50	0.00	0.00	4.71	0.00	0.00	18.89