



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: 18-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, 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 17.06.2024.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17-June-2024, is available at the NLDC website.

धन्यवाद,  
Thanks

Report for previous day

Date of Reporting: 18-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)	82152	61955	47902	28772	2884	223665
Peak Shortage (MW)	1523	0	0	319	0	1842
Energy Met (MU)	1973	1495	1123	665	53	5309
Hydro Gen (MU)	356	48	64	62	29	558
Wind Gen (MU)	37	101	121	-	-	259
Solar Gen (MU)*	174.50	79.57	124.33	4.07	0.38	383
Energy Shortage (MU)	32.83	0.00	0.00	3.42	0.00	36.25
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	89513	67425	53819	31226	2955	240135
Time Of Maximum Demand Met	13:50	14:52	14:58	23:32	18:56	15:12

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	0.036	0.00	0.20	3.52	3.71	83.61	12.67

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	15444	0	331.8	195.7	-2.1	177	0.00
	Haryana	12943	0	283.0	204.5	0.4	334	0.00
	Rajasthan	17333	0	365.6	111.4	1.9	444	17.30
	Delhi	8155	0	163.9	136.7	-0.3	426	0.00
	UP	29045	188	658.8	343.2	-0.7	543	13.79
	Uttarakhand	2784	0	59.5	33.1	-0.7	123	1.29
	HP	1801	0	38.4	2.8	0.4	128	0.00
	J&K(UT) & Ladakh(UT)	2675	0	58.7	29.6	3.9	696	0.45
	Chandigarh	427	0	8.6	8.1	0.5	69	0.00
Railways_NR ISTS	214	0	4.4	3.5	0.9	112	0.00	
WR	Chhattisgarh	5333	0	119.9	66.9	1.7	323	0.00
	Gujarat	24010	0	493.5	176.4	0.1	1606	0.00
	MP	12358	0	269.5	138.0	-5.2	760	0.00
	Maharashtra	23611	0	537.0	183.0	-4.4	764	0.00
	Goa	685	0	14.1	12.9	0.7	72	0.00
	DNHDDPDCL	1332	0	30.3	30.1	0.2	82	0.00
	AMNSIL	828	0	18.0	8.7	-0.1	260	0.00
	BALCO	524	0	12.5	12.5	0.0	8	0.00
SR	Andhra Pradesh	11138	0	220.5	59.3	3.9	1137	0.00
	Telangana	10249	0	203.1	93.2	1.9	790	0.00
	Karnataka	11960	0	224.3	55.0	-1.6	1042	0.00
	Kerala	4285	0	83.6	52.0	1.7	560	0.00
	Tamil Nadu	18149	0	379.9	177.1	1.1	1078	0.00
	Puducherry	512	0	11.1	10.5	0.0	69	0.00
ER	Bihar	7201	273	157.4	147.5	-2.3	588	1.48
	DVC	3666	0	77.9	-47.5	-0.2	311	0.00
	Jharkhand	2269	0	48.1	37.8	2.4	549	1.94
	Odisha	6501	0	136.0	53.8	0.3	734	0.00
	West Bengal	12014	0	244.3	98.4	-0.7	377	0.00
	Sikkim	95	0	1.4	1.4	0.0	64	0.00
Railways_ER ISTS	18	0	0.2	0.2	0.0	6	0.00	
NER	Arunachal Pradesh	143	0	2.6	2.7	-0.4	28	0.00
	Assam	1842	0	32.1	24.1	-0.2	142	0.00
	Manipur	196	0	3.0	3.1	-0.1	28	0.00
	Meghalaya	315	0	5.4	0.3	0.1	112	0.00
	Mizoram	117	0	1.9	1.4	-0.2	26	0.00
	Nagaland	155	0	2.8	2.8	0.0	30	0.00
Tripura	308	0	5.5	5.0	0.4	145	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	23.8	4.8	-24.0	-25.4
Day Peak (MW)	1521.0	428.0	-1047.0	-1341.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	485.5	-407.9	6.3	-74.9	-9.1	0.0
Actual(MU)	465.3	-405.8	14.2	-75.4	-10.0	-11.6
O/D/U/D(MU)	-20.3	2.1	8.0	-0.5	-1.0	-11.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2546	4505	5048	3446	234	15778	48
State Sector	2381	9026	3838	1564	119	16928	52
Total	4926	13531	8886	5010	353	32706	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	923	1669	738	752	17	4099	71
Lignite	26	16	55	0	0	97	2
Hydro	356	48	64	62	29	558	10
Nuclear	29	60	51	0	0	140	2
Gas, Naptha & Diesel	69	65	6	0	23	162	3
RES (Wind, Solar, Biomass & Others)	219	184	269	5	0	677	12
Total	1622	2042	1183	818	69	5734	100

Share of RES in total generation (%)	13.48	8.99	22.77	0.59	0.57	11.80
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.22	14.25	32.50	8.11	42.99	23.98

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.043

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	240135	15:12	1596
Non-Solar hr	227633	22:59	3610

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: 18-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	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	207	765	0.0	8.7	-8.7
4	765 kV	SASARAM-FATEHPUR	1	0	462	0.0	7.7	-7.7
5	765 kV	GAYA-BALIA	1	0	639	0.0	12.5	-12.5
6	400 kV	PUSAULI-VARANASI	1	44	77	0.0	0.7	-0.7
7	400 kV	PUSAULI-ALLAHABAD	1	40	115	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	987	0.0	16.5	-16.5
9	400 kV	PATNA-BALIA	2	0	894	0.0	16.1	-16.1
10	400 kV	NAUBATPUR-BALIA	2	0	392	0.0	4.5	-4.5
11	400 kV	BIHARSHARIFF-BALIA	2	150	199	0.0	1.4	-1.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	643	0.0	11.7	-11.7
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	5	66	0.0	1.0	-1.0
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
<b>ER-NR</b>						<b>0.6</b>	<b>81.7</b>	<b>-81.1</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	752	1041	0.0	8.9	-8.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2473	0	34.2	0.0	34.2
3	765 kV	JHARSUGUDA-DURG	2	0	482	0.0	6.1	-6.1
4	400 kV	JHARSUGUDA-RAIGARH	4	369	7	4.3	0.0	4.3
5	400 kV	RANCHI-SIPAT	2	562	0	8.2	0.0	8.2
6	220 kV	BUDHIPADAR-RAIGARH	1	6	191	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	41	223	0.0	2.1	-2.1
<b>ER-WR</b>						<b>46.8</b>	<b>19.8</b>	<b>27.0</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	407	0	7.2	0.0	7.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1692	0.0	40.9	-40.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2340	0.0	41.3	-41.3
4	400 kV	TALCHER-IC	2	68	493	0.0	6.1	-6.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>7.2</b>	<b>82.2</b>	<b>-75.0</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	586	0	9.1	0.0	9.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	819	0	13.0	0.0	13.0
3	220 kV	ALIPURDUAR-SALAKATI	2	146	0	2.1	0.0	2.1
<b>ER-NER</b>						<b>24.1</b>	<b>0.0</b>	<b>24.1</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	602	0	13.0	0.0	13.0
<b>NER-NR</b>						<b>13.0</b>	<b>0.0</b>	<b>13.0</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	6047	0.0	115.4	-115.4
2	HVDC	VINDHYACHAL B/B	-	0	254	0.0	12.0	-12.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1660	0.0	41.6	-41.6
4	765 kV	GWALIOR-AGRA	2	0	4135	0.0	61.5	-61.5
5	765 kV	GWALIOR-PHAGI	2	11	1891	0.0	24.2	-24.2
6	765 kV	JABALPUR-ORAI	2	0	1317	0.0	52.1	-52.1
7	765 kV	GWALIOR-ORAI	1	1357	0	11.5	0.0	11.5
8	765 kV	SATNA-ORAI	1	0	1211	0.0	26.1	-26.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1213	1292	4.2	12.2	-8.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	4006	0.0	71.9	-71.9
11	400 kV	ZERDA-KANKROLI	1	292	210	1.3	1.6	-0.2
12	400 kV	ZERDA -BHINMAL	1	294	209	1.3	1.6	-0.2
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	234	583	0.3	7.1	-6.7
15	400 kV	NEEMUCH-Chittorgarh	2	277	647	0.6	7.4	-6.8
16	220 kV	BHANPURA-RANPUR	1	0	114	0.0	2.0	-2.0
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.9	-2.9
18	220 kV	MEHGAON-AURAIYA	1	84	25	0.7	0.0	0.7
19	220 kV	MALANPUR-AURAIYA	1	55	38	0.2	0.1	0.1
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>41.9</b>	<b>439.6</b>	<b>-397.7</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	1203	0.0	20.5	-20.5
3	765 kV	SOLAPUR-RAICHUR	2	1705	0	21.1	0.0	21.1
4	765 kV	WARDHA-NIZAMABAD	2	0	1411	0.0	19.3	-19.3
5	765 kV	WARORA-WARANGAL(NEW)	2	0	1725	0.0	22.4	-22.4
6	400 kV	KOLHAPUR-KUDGI	2	1966	0	36.5	0.0	36.5
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	59	0.0	1.4	-1.4
9	220 kV	XELDEM-AMBEWADI	1	0	115	2.2	0.0	2.2
<b>WR-SR</b>						<b>83.7</b>	<b>63.6</b>	<b>20.2</b>

INTERNATIONAL EXCHANGES				Import(+ve)/Export(-ve) Energy Exchange (MU)			
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)	647	261	440	10.57	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	804	332	511	12.27	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-54	33	3	0.07	
	NER	132kV GELEPHU-SALAKATI	12	0	3	0.08	
	NER	132kV MOTANGA-RANGIA	47	0	34	0.82	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-73	0	-10	-0.24	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-35	-0.85	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	428	49	245	5.89	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-956	-784	-928	-22.27	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1341	-806	-1060	-25.44	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-91	0	-73	-1.76	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 18-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	0.22	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.82
Bangladesh	22.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.31
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.53	0.00	0.60	0.00	0.00	0.00	0.00	0.00	23.13

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	20.64	0.00	0.59	0.00	0.00	0.13	0.00	0.00	21.36
Nepal	2.63	0.00	2.97	0.00	0.00	0.48	0.00	0.00	6.08
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	23.27	0.00	3.56	0.00	0.00	0.61	0.00	0.00	27.44

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	20.64	0.00	0.59	0.00	0.00	0.13	0.00	0.00	21.36
Nepal	2.41	0.00	2.37	0.00	0.00	0.48	0.00	0.00	5.26
Bangladesh	-22.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.31
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	0.74	0.00	2.96	0.00	0.00	0.61	0.00	0.00	4.31