



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: 25-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 24.06.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-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 24-June-2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 25-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)	79015	62805	46462	29175	3342	220799
Peak Shortage (MW)	313	0	0	317	0	630
Energy Met (MU)	1871	1417	1086	653	67	5093
Hydro Gen (MU)	357	44	54	59	36	547
Wind Gen (MU)	10	78	217	-	-	305
Solar Gen (MU)*	163.88	68.83	114.01	3.24	0.81	351
Energy Shortage (MU)	9.31	0.00	0.00	2.24	0.00	11.55
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	84861	63199	50509	31346	3360	227001
Time Of Maximum Demand Met	12:28	22:39	15:23	23:38	19:56	14:50

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	0.040	0.00	1.25	7.18	8.42	77.82	13.76

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	15452	0	339.2	209.8	0.2	381	0.00
	Haryana	13313	0	269.2	206.6	-0.4	567	0.95
	Rajasthan	16773	0	345.9	129.1	-0.2	335	7.63
	Delhi	7472	0	153.0	127.5	-1.3	136	0.00
	UP	27875	0	599.9	299.0	-0.7	964	0.15
	Uttarakhand	2600	0	56.4	28.2	0.2	242	0.52
	HP	1791	0	38.1	1.4	-0.4	70	0.00
	J&K(UT) & Ladakh(UT)	2770	60	56.5	31.4	-0.7	320	0.06
	Chandigarh	434	0	8.2	8.4	-0.2	42	0.00
Railways NR ISTS	217	0	4.4	3.5	0.9	103	0.00	
WR	Chhattisgarh	5346	0	115.9	60.9	-1.0	212	0.00
	Gujarat	21137	0	455.1	179.4	0.7	1706	0.00
	MP	11245	0	240.8	125.6	-2.8	486	0.00
	Maharashtra	24376	0	534.4	160.7	-4.7	533	0.00
	Goa	687	0	14.0	13.6	0.3	41	0.00
	DNHDDPDCL	1311	0	29.9	29.8	0.1	77	0.00
	AMNSIL	651	0	14.2	2.6	-0.5	259	0.00
	BALCO	523	0	12.5	12.6	-0.1	4	0.00
SR	Andhra Pradesh	10403	0	214.5	42.3	0.6	794	0.00
	Telangana	10152	0	209.0	105.4	-0.3	462	0.00
	Karnataka	12280	0	220.5	47.1	-1.6	464	0.00
	Kerala	3608	0	75.4	50.9	0.6	319	0.00
	Tamil Nadu	17150	0	356.1	164.6	-2.8	4078	0.00
	Puducherry	483	0	10.4	9.9	-0.1	46	0.00
ER	Bihar	7319	0	156.2	144.8	-0.7	385	0.80
	DVC	3673	0	77.3	-43.9	0.2	315	0.00
	Jharkhand	2212	0	48.9	34.4	2.4	379	1.44
	Odisha	6286	0	129.4	47.1	-0.6	422	0.00
	West Bengal	12175	0	239.5	102.8	0.3	331	0.00
	Sikkim	86	0	1.3	1.6	-0.2	17	0.00
	Railways ER ISTS	14	0	0.2	0.2	0.0	4	0.00
NER	Arunachal Pradesh	147	0	2.9	3.1	-0.6	18	0.00
	Assam	2207	0	43.2	34.7	0.2	148	0.00
	Manipur	217	0	3.4	3.4	0.0	17	0.00
	Meghalaya	318	0	5.8	-0.2	0.1	97	0.00
	Mizoram	107	0	1.8	1.2	-0.4	1	0.00
	Nagaland	152	0	3.1	2.6	0.0	9	0.00
Tripura	321	0	6.4	6.7	0.5	56	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	26.1	5.9	-24.6	-8.9
Day Peak (MW)	1802.0	352.0	-1033.0	-380.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	471.1	-384.6	-26.4	-59.8	-0.4	0.0
Actual(MU)	462.7	-395.5	-28.7	-53.5	-3.0	-18.0
O/D/U/D(MU)	-8.4	-10.8	-2.3	6.3	-2.7	-18.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2271	6370	5188	4016	255	18099	51
State Sector	3916	6480	5588	1554	119	17657	49
Total	6187	12850	10776	5570	374	35757	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	872	1614	560	719	15	3781	71
Lignite	30	19	80	0	0	129	2
Hydro	357	44	54	59	36	550	10
Nuclear	29	59	51	0	0	139	3
Gas, Naptha & Diesel	46	54	0	0	24	123	2
RES (Wind, Solar, Biomass & Others)	181	148	349	4	1	683	12
Total	1515	1938	1095	782	76	5406	100

Share of RES in total generation (%)	11.96	7.45	29.58	0.54	1.08	12.38
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.44	12.76	38.54	8.10	48.18	24.94

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.071

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	227001	14:50	0
Non-Solar hr	223505	22:24	2139

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: 25-Jun-2024

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	2	95	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	157	425	0.0	2.5	-2.5
4	765 kV	SASARAM-FATEHPUR	1	0	305	0.0	4.2	-4.2
5	765 kV	GAYA-BALIA	1	0	623	0.0	10.1	-10.1
6	400 kV	PUSAULI-VARANASI	1	29	73	0.0	0.8	-0.8
7	400 kV	PUSAULI-ALLAHABAD	1	0	95	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	2060	721	0.0	12.8	-12.8
9	400 kV	PATNA-BALIA	2	0	618	0.0	11.6	-11.6
10	400 kV	NAUBATPUR-BALIA	2	0	169	0.0	2.9	-2.9
11	400 kV	BIHARSHARIFF-BALIA	2	203	64	0.0	1.1	-1.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	469	0.0	9.3	-9.3
13	400 kV	BIHARSHARIFF-VARANASI	2	244	218	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	18	68	0.0	0.5	-0.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.6	0.0	0.6
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
ER-NR						0.7	59.5	-58.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1655	0.0	18.8	-18.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2337	0	44.1	0.0	44.1
3	765 kV	JHARSUGUDA-DURG	2	0	520	0.0	8.0	-8.0
4	400 kV	JHARSUGUDA-RAIGARH	4	450	1	6.5	0.0	6.5
5	400 kV	RANCHI-SPAT	2	633	0	10.0	0.0	10.0
6	220 kV	BUDHIPADAR-RAIGARH	1	9	147	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	58	124	0.0	0.7	-0.7
ER-WR						60.6	29.2	31.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	403	0	9.6	0.0	9.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1715	0.0	40.9	-40.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2087	0.0	33.6	-33.6
4	400 kV	TALCHER-I/C	2	0	730	0.0	12.5	-12.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						9.6	74.6	-64.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	353	0	5.5	0.0	5.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	397	23	5.6	0.0	5.6
3	220 kV	ALIPURDUAR-SALAKATI	2	76	1	1.0	0.0	1.0
ER-NER						12.1	0.0	12.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	315	0	7.2	0.0	7.2
NER-NR						7.2	0.0	7.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	6056	0.0	130.0	-130.0
2	HVDC	VINDHYACHAL B/B	-	302	249	0.5	4.5	-4.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2356	0.0	46.8	-46.8
4	765 kV	GWALIOR-AGRA	2	0	3287	0.0	58.5	-58.5
5	765 kV	GWALIOR-PHAGI	2	0	2019	0.0	29.3	-29.3
6	765 kV	JABALPUR-ORAI	2	0	1449	0.0	52.3	-52.3
7	765 kV	GWALIOR-ORAI	1	692	0	11.9	0.0	11.9
8	765 kV	SATNA-ORAI	1	0	1240	0.0	26.1	-26.1
9	765 kV	BANASKANTHA-CHITTOORGARH	2	1304	1390	6.2	9.6	-3.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	4211	0.0	80.2	-80.2
11	400 kV	ZERDA-KANKROLI	1	267	248	0.0	1.5	-1.5
12	400 kV	ZERDA -BHINMAL	1	267	247	0.0	2.0	-2.0
13	400 kV	VINDHYACHAL -RIHAND	1	967	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUALPUR	2	0	713	0.0	8.8	-8.8
15	400 kV	NEEMUCH-Chittorgarh	2	36	675	0.0	7.9	-7.9
16	220 kV	BHANPURA-RANPUR	1	0	72	0.0	1.2	-1.2
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.6	-2.6
18	220 kV	MEHGAON-AURAIYA	1	44	52	0.4	0.0	0.4
19	220 kV	MALANPUR-AURAIYA	1	22	64	0.0	0.0	0.0
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
WR-NR						41.1	461.2	-420.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	998	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	0	1203	0.0	24.7	-24.7
3	765 kV	SOLAPUR-RAICHUR	2	2439	0	35.8	0.0	35.8
4	765 kV	WARDHA-NIZAMABAD	2	361	1234	0.5	10.5	-10.0
5	765 kV	WARORA-WARANGAL(NEW)	2	503	1374	0.9	11.2	-10.2
6	400 kV	KOLHAPUR-KUDGI	2	2168	0	41.2	0.0	41.2
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	71	0.0	1.7	-1.7
9	220 kV	XELDEM-AMBEWADI	1	0	103	2.0	0.0	2.0
WR-SR						104.4	48.1	56.3

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)	712	438	584	14.02	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	884	344	445	10.69	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	60	-27	0	0.01	
	NER	132kV GELEPHU-SALAKATI	33	9	18	0.42	
	NER	132kV MOTANGA-RANGIA	61	15	41	0.98	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	-1.19	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-0.80	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	425	25	328	7.88	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-938	-870	-934	-22.41	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-380	-364	-371	-8.91	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-95	0	-90	-2.16	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 25-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	0.00
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	0.92
Bangladesh	22.38	0.00	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	0.00
Total Export	22.38	0.00	0.00	0.00	0.00	0.00	0.92	0.00	0.00	23.30

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL	
		BILATERAL TOTAL	COLLECTIVE							
			IDAM			RTM				
			IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	22.86	0.00	0.63	0.00	0.00	0.48	0.00	0.00	0.00	23.97
Nepal	2.63	0.00	7.37	0.00	0.00	0.00	0.00	0.00	0.00	10.00
Bangladesh	0.00	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	0.00
Total Import	25.49	0.00	8.00	0.00	0.00	0.48	0.00	0.00	0.00	33.97

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	22.86	0.00	0.63	0.00	0.00	0.48	0.00	0.00	0.00	23.97
Nepal	2.63	0.00	7.37	0.00	0.00	-0.92	0.00	0.00	0.00	9.08
Bangladesh	-22.38	0.00	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	0.00
Total Net	3.11	0.00	8.00	0.00	0.00	-0.44	0.00	0.00	0.00	10.67