



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: 07-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 06.06.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-जून-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेंकें 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 06-June-2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 07-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)	71717	64777	43436	28415	3432	211777
Peak Shortage (MW)	25	0	0	0	0	25
Energy Met (MU)	1591	1593	1034	637	64	4919
Hydro Gen (MU)	319	43	46	31	30	469
Wind Gen (MU)	34	134	55	-	-	223
Solar Gen (MU)*	170.81	87.24	104.90	4.01	1.00	368
Energy Shortage (MU)	0.13	0.00	0.00	1.81	0.00	1.94
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	78903	73055	47761	30924	3448	230073
Time Of Maximum Demand Met	15:01	15:01	11:57	23:06	20:07	15:01

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	0.34	2.23	2.57	71.59	25.84

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	11192	0	192.2	94.7	-3.5	330	0.00
	Haryana	11352	0	216.5	161.4	-4.3	519	0.00
	Rajasthan	16846	0	359.0	123.7	-1.7	692	0.00
	Delhi	7395	0	146.8	118.9	-3.4	291	0.00
	UP	28043	0	526.4	268.9	-2.1	627	0.00
	Uttarakhand	2718	0	54.1	28.5	0.0	191	0.08
	HP	1692	0	35.5	2.3	-0.1	114	0.00
	J&K(UT) & Ladakh(UT)	2533	25	48.7	22.9	-0.5	232	0.05
	Chandigarh	385	0	7.1	7.9	-0.9	10	0.00
Railways NR ISTS	220	0	4.3	4.0	0.3	52	0.00	
WR	Chhattisgarh	5136	0	117.2	57.5	0.1	347	0.00
	Gujarat	24604	0	502.5	139.7	-2.7	738	0.00
	MP	13305	0	293.8	165.1	-3.5	500	0.00
	Maharashtra	26223	0	606.0	218.8	1.2	654	0.00
	Goa	772	0	16.2	14.4	1.6	75	0.00
	DNHDDPDCL	1308	0	27.5	28.6	-1.1	23	0.00
	AMNSIL	785	0	17.1	7.0	0.4	277	0.00
	BALCO	523	0	12.5	12.6	-0.1	20	0.00
SR	Andhra Pradesh	9337	0	195.4	56.6	-2.3	774	0.00
	Telangana	9281	0	190.3	79.0	-1.8	652	0.00
	Karnataka	10324	0	206.8	73.2	-3.7	450	0.00
	Kerala	4153	0	87.6	58.0	1.1	876	0.00
	Tamil Nadu	16355	0	343.6	198.2	-5.0	688	0.00
	Puducherry	432	0	9.8	9.8	-0.5	28	0.00
ER	Bihar	7035	0	128.9	120.6	-2.6	685	1.81
	DVC	3344	0	73.6	-39.6	-0.2	378	0.00
	Jharkhand	2184	0	45.2	32.9	0.7	252	0.00
	Odisha	6932	0	146.9	69.0	-0.1	470	0.00
	West Bengal	11555	0	241.0	103.3	-1.4	216	0.00
	Sikkim	90	0	1.5	1.5	0.0	26	0.00
Railways ER ISTS	12	0	0.1	0.2	-0.1	2	0.00	
NER	Arunachal Pradesh	168	0	2.6	2.5	-0.1	40	0.00
	Assam	2311	0	42.9	33.9	0.6	400	0.00
	Manipur	215	0	3.0	3.1	-0.1	42	0.00
	Meghalaya	313	0	5.6	0.1	-0.1	34	0.00
	Mizoram	111	0	1.7	1.5	-0.4	9	0.00
	Nagaland	180	0	2.7	2.9	-0.2	21	0.00
Tripura	315	0	5.4	5.5	-0.1	51	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	2.6	-0.7	-23.7	-30.8
Day Peak (MW)	125.0	132.4	-1043.0	-1477.5

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	300.4	-341.1	63.7	-24.8	1.8	0.0
Actual(MU)	269.1	-347.5	84.5	-18.2	3.2	-9.0
O/D/U/D(MU)	-31.4	-6.4	20.7	6.6	1.4	-9.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4096	4310	4822	3216	301	16745	53
State Sector	4876	4451	3478	2164	120	15088	47
Total	8972	8760	8300	5380	421	31833	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	782	1635	674	702	11	3804	71
Lignite	22	11	62	0	0	95	2
Hydro	319	43	46	31	30	469	9
Nuclear	30	60	51	0	0	141	3
Gas, Naptha & Diesel	46	108	10	0	24	189	4
RES (Wind, Solar, Biomass & Others)	212	222	181	6	1	622	12
Total	1411	2080	1024	739	66	5320	100

Share of RES in total generation (%)	15.06	10.70	17.67	0.75	1.51	11.70
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.77	15.64	27.14	4.97	47.23	23.17

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.041

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	230073	15:01	0
Non-Solar hr	214743	22:23	279

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: 07-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	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	793	345	1.7	0.0	1.7
4	765 kV	SASARAM-FATEHPUR	1	114	300	0.0	3.3	-3.3
5	765 kV	GAYA-BALIA	1	0	666	0.0	8.4	-8.4
6	400 kV	PUSAULI-VARANASI	1	95	62	0.0	0.1	-0.1
7	400 kV	PUSAULI-ALLAHABAD	1	184	56	0.7	0.0	0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	132	381	0.0	3.7	-3.7
9	400 kV	PATNA-BALIA	2	0	753	0.0	10.1	-10.1
10	400 kV	NAUBATPUR-BALIA	2	31	482	0.0	2.9	-2.9
11	400 kV	BIHARSHARIFF-BALIA	2	281	41	2.0	0.0	2.0
12	400 kV	MOTIHARI-GORAKHPUR	2	87	425	0.0	4.7	-4.7
13	400 kV	BIHARSHARIFF-VARANASI	2	162	196	0.0	1.5	-1.5
14	220 kV	SAHUPURI-KARAMNANA	1	9	59	0.0	0.9	-0.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
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-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						4.9	35.5	-30.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1016	343	6.7	0.0	6.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2297	0	34.9	0.0	34.9
3	765 kV	JHARSUGUDA-DURG	2	47	417	0.0	3.5	-3.5
4	400 kV	JHARSUGUDA-RAIGARH	4	299	146	1.6	0.0	1.6
5	400 kV	RANCHI-SIPAT	2	662	0	9.4	0.0	9.4
6	220 kV	BUDHIPADAR-RAIGARH	1	54	79	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	177	8	1.4	0.0	1.4
ER-WR						54.1	4.2	49.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	106	154	0.0	2.2	-2.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1697	0.0	40.9	-40.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2269	0.0	32.4	-32.4
4	400 kV	TALCHER-I/C	2	0	713	0.0	13.7	-13.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	75.6	-75.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	334	8	4.6	0.0	4.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	479	0	7.2	0.0	7.2
3	220 kV	ALIPURDUAR-SALAKATI	2	118	0	1.5	0.0	1.5
ER-NER						13.3	0.0	13.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	657	0	15.6	0.0	15.6
NER-NR						15.6	0.0	15.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	5069	0.0	85.3	-85.3
2	HVDC	VINDHYACHAL B/B	-	295	52	6.1	0.3	5.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1661	0.0	25.5	-25.5
4	765 kV	GWALIOR-AGRA	2	0	2642	0.0	41.8	-41.8
5	765 kV	GWALIOR-PHAGI	2	954	961	4.4	9.9	-5.5
6	765 kV	JABALPUR-ORAI	2	0	1148	0.0	31.5	-31.5
7	765 kV	GWALIOR-ORAI	1	611	0	8.2	0.0	8.2
8	765 kV	SATNA-ORAI	1	0	1186	0.0	21.0	-21.0
9	765 kV	BANASKANTHA-CHITTOGARH	2	479	1681	1.4	12.1	-10.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3719	0.0	66.1	-66.1
11	400 kV	ZERDA-KANKROLI	1	155	304	0.7	1.8	-1.1
12	400 kV	ZERDA-BHINMAL	1	155	303	0.7	1.8	-1.1
13	400 kV	VINDHYACHAL-RIHAND	1	972	0	20.6	0.0	20.6
14	400 kV	RAPP-SHUALPUR	2	411	390	2.4	2.5	-0.1
15	400 kV	NEEMUCH-Chittorgarh	2	488	380	2.7	2.2	0.5
16	220 kV	BHANPURA-RANPUR	1	0	108	0.0	1.9	-1.9
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.7	-2.7
18	220 kV	MEHGAON-AURAIYA	1	51	17	0.1	0.0	0.1
19	220 kV	MALANPUR-AURAIYA	1	28	34	0.1	0.0	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
WR-NR						47.1	306.3	-259.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	306	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	2501	0.0	38.6	-38.6
3	765 kV	SOLAPUR-RAICHUR	2	2095	925	12.3	2.4	10.0
4	765 kV	WARDHA-NIZAMABAD	2	425	1693	0.2	14.1	-13.9
5	765 kV	WARORA-WARANGAL(NEW)	2	189	1948	0.0	19.9	-19.9
6	400 kV	KOLHAPUR-KUDGI	2	1825	0	27.3	0.0	27.3
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	64	1.5	0.0	1.5
9	220 kV	XELDEM-AMBEWADI	1	0	124	2.4	0.0	2.4
WR-SR						43.8	82.1	-38.3

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)	382	125	246	5.91	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-72	47	-14	-0.33	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-248	-106	-165	-3.97	
	NER	132kV GELEPHU-SALAKATI	-12	7	-8	-0.19	
	NER	132kV MOTANGA-RANGIA	56	0	47	1.13	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-72	0	-43	-1.03	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-43	-1.04	
	ER	NEPAL IMPORT (FROM BIHAR)	-134	0	-55	-1.33	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	266	0	111	2.67	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-947	-788	-902	-21.65	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1478	-1056	-1285	-30.84	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-96	0	-84	-2.02	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 07-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	0.59	0.00	0.00	0.58	0.00	0.00	1.39
Bangladesh	21.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.67
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.89	0.00	0.59	0.00	0.00	0.58	0.00	0.00	23.06

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.67	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.87
Nepal	2.63	0.00	0.00	0.00	0.00	0.45	0.00	0.00	3.08
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	3.30	0.00	0.20	0.00	0.00	0.45	0.00	0.00	3.95

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	0.67	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.87
Nepal	2.41	0.00	-0.59	0.00	0.00	-0.13	0.00	0.00	1.69
Bangladesh	-21.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.67
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-18.59	0.00	-0.39	0.00	0.00	-0.13	0.00	0.00	-19.11