



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: 24-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 23.06.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23-June-2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 24-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)	77328	57660	41181	28120	3307	207596
Peak Shortage (MW)	848	0	0	0	0	848
Energy Met (MU)	1817	1394	1029	626	65	4930
Hydro Gen (MU)	337	44	43	54	32	510
Wind Gen (MU)	7	84	216	-	-	307
Solar Gen (MU)*	164.37	71.26	111.84	3.31	0.88	352
Energy Shortage (MU)	8.78	0.00	0.00	2.05	0.00	10.83
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	81526	60899	46130	30106	3331	216260
Time Of Maximum Demand Met	14:24	00:00	09:59	22:54	19:03	14:56

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	0.037	0.00	0.73	7.23	7.96	76.83	15.21

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	15259	0	328.3	200.0	-1.5	237	0.00
	Haryana	12246	0	260.8	193.2	0.3	424	0.00
	Rajasthan	15797	0	336.9	129.0	-0.5	625	8.23
	Delhi	7262	0	142.1	115.5	-1.1	239	0.00
	UP	28036	0	590.0	309.6	-1.4	688	0.13
	Uttarakhand	2536	0	54.4	26.6	0.5	124	0.34
	HP	1726	0	37.3	4.1	-0.3	70	0.00
	J&K(UT) & Ladakh(UT)	2533	0	55.2	33.8	-2.6	118	0.08
	Chandigarh	377	0	7.4	7.5	-0.1	53	0.00
Railways_NR ISTS	212	0	4.3	3.7	0.7	92	0.00	
WR	Chhattisgarh	4891	0	107.2	57.0	-1.1	275	0.00
	Gujarat	21969	0	459.1	174.9	-3.5	941	0.00
	MP	10656	0	235.4	125.8	-2.6	352	0.00
	Maharashtra	22434	0	521.1	160.2	1.4	960	0.00
	Goa	619	0	12.6	12.6	-0.2	38	0.00
	DNHDDPDCL	1291	0	29.8	29.7	0.1	106	0.00
	AMNSIL	710	0	16.2	3.5	-0.1	176	0.00
BALCO	525	0	12.5	12.6	-0.1	4	0.00	
SR	Andhra Pradesh	9765	0	207.0	50.6	-2.3	641	0.00
	Telangana	9072	0	195.7	101.0	0.9	566	0.00
	Karnataka	11602	0	209.2	41.1	-2.1	524	0.00
	Kerala	3547	0	72.0	50.6	0.4	235	0.00
	Tamil Nadu	14844	0	334.9	133.9	-8.8	970	0.00
	Puducherry	432	0	9.9	9.6	-0.3	21	0.00
ER	Bihar	7273	0	154.9	143.7	-1.0	342	0.15
	DVC	3698	0	76.0	-37.3	-0.8	464	0.00
	Jharkhand	2301	0	46.7	33.5	0.7	265	1.90
	Odisha	5992	0	125.8	46.9	-0.4	451	0.00
	West Bengal	11096	0	221.5	84.9	-0.2	492	0.00
	Sikkim	64	0	1.0	1.3	-0.3	0	0.00
Railways_ER ISTS	18	0	0.1	0.2	0.0	1	0.00	
NER	Arunachal Pradesh	151	0	2.7	2.7	-0.3	24	0.00
	Assam	2236	0	43.7	35.4	-0.2	101	0.00
	Manipur	211	0	3.4	3.5	-0.1	20	0.00
	Meghalaya	356	0	5.6	-0.6	0.0	128	0.00
	Mizoram	94	0	2.0	1.1	-0.1	0	0.00
	Nagaland	155	0	2.7	2.6	-0.3	9	0.00
Tripura	327	0	4.9	7.2	-0.8	76	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	22.5	9.4	-24.4	-15.1
Day Peak (MW)	1213.0	552.9	-1034.0	-758.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	461.3	-347.9	-43.3	-73.0	2.8	0.0
Actual(MU)	446.2	-341.9	-57.7	-58.6	-0.2	-12.2
O/D/U/D(MU)	-15.2	5.9	-14.4	14.4	-3.0	-12.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4347	10271	5038	4766	234	24655	54
State Sector	4681	6859	7193	2054	262	21049	46
Total	9028	17130	12231	6820	496	45703	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	859	1549	649	698	14	3770	71
Lignite	27	19	53	0	0	98	2
Hydro	337	44	43	54	32	510	10
Nuclear	29	60	51	0	0	141	3
Gas, Naptha & Diesel	40	35	5	0	24	104	2
RES (Wind, Solar, Biomass & Others)	180	158	353	5	1	697	13
Total	1472	1866	1154	757	71	5320	100

Share of RES in total generation (%)	12.24	8.48	30.55	0.65	1.24	13.10
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.09	14.08	38.76	7.76	46.57	25.34

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.074

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	216260	14:56	0
Non-Solar hr	214354	0:00	1509

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: 24-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	-	0	95	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	319	668	0.0	2.7	-2.7
4	765 kV	SASARAM-FATEHPUR	1	0	449	0.0	5.4	-5.4
5	765 kV	GAYA-BALIA	1	0	613	0.0	11.5	-11.5
6	400 kV	PUSAULI-VARANASI	1	14	65	0.0	0.7	-0.7
7	400 kV	PUSAULI-ALLAHABAD	1	0	108	0.0	1.7	-1.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	839	0.0	13.6	-13.6
9	400 kV	PATNA-BALIA	2	0	696	0.0	9.9	-9.9
10	400 kV	NAUBATPUR-BALIA	2	13	202	0.0	2.2	-2.2
11	400 kV	BIHARSHARIFF-BALIA	2	156	170	0.0	0.3	-0.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	497	0.0	8.2	-8.2
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNUSA	1	26	50	0.0	0.5	-0.5
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-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.6	59.0	-58.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1547	0.0	23.4	-23.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2412	0	39.2	0.0	39.2
3	765 kV	JHARSUGUDA-DURG	2	0	528	0.0	7.8	-7.8
4	400 kV	JHARSUGUDA-RAIGARH	4	446	0	7.2	0.0	7.2
5	400 kV	RANCHI-SIPAT	2	646	0	11.7	0.0	11.7
6	220 kV	BUDHIPADAR-RAIGARH	1	18	146	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	66	123	0.0	0.5	-0.5
ER-WR						58.1	33.3	24.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	414	0	6.7	0.0	6.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1691	0.0	40.9	-40.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	1951	0.0	27.5	-27.5
4	400 kV	TALCHER-I/C	2	0	660	0.0	11.2	-11.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						6.7	68.4	-61.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	330	0	4.0	0.0	4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	416	17	4.2	0.0	4.2
3	220 kV	ALIPURDUAR-SALAKATI	2	81	7	0.8	0.0	0.8
ER-NER						8.9	0.0	8.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	319	0	7.4	0.0	7.4
NER-NR						7.4	0.0	7.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	6063	0.0	126.3	-126.3
2	HVDC	VINDHYACHAL B/B	-	0	347	0.0	5.0	-5.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1211	0.0	16.1	-16.1
4	765 kV	GWALIOR-AGRA	2	0	3181	0.0	60.5	-60.5
5	765 kV	GWALIOR-PHAGI	2	0	1970	0.0	28.8	-28.8
6	765 kV	JABALPUR-ORAI	2	0	1390	0.0	52.0	-52.0
7	765 kV	GWALIOR-ORAI	1	653	0	11.1	0.0	11.1
8	765 kV	SATNA-ORAI	1	0	1246	0.0	26.4	-26.4
9	765 kV	BANASKANTHA-CHITORGARH	2	521	2080	1.2	14.3	-13.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	4190	0.0	81.7	-81.7
11	400 kV	ZERDA-KANKROLI	1	139	328	0.5	2.3	-1.8
12	400 kV	ZERDA -BHINMAL	1	139	327	0.5	2.3	-1.8
13	400 kV	VINDHYACHAL -RIHAND	1	969	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	10	671	0.0	9.5	-9.5
15	400 kV	NEEMUCH-Chittorgarh	2	121	676	0.2	8.5	-8.3
16	220 kV	BHANPURA-RANPUR	1	0	79	0.0	1.3	-1.3
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.6	-2.6
18	220 kV	MEHGAON-AURAIYA	1	31	44	0.1	0.3	-0.2
19	220 kV	MALANPUR-AURAIYA	1	12	60	0.0	0.8	-0.8
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						35.2	438.6	-403.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	1001	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	0	1201	0.0	17.1	-17.1
3	765 kV	SOLAPUR-RAICHUR	2	2703	0	44.4	0.0	44.4
4	765 kV	WARDHA-NIZAMABAD	2	360	1218	1.3	6.3	-5.0
5	765 kV	WARORA-WARANGAL(NEW)	2	473	1218	2.0	5.6	-3.6
6	400 kV	KOLHAPUR-KUDGI	2	2139	0	41.4	0.0	41.4
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	46	1.0	0.0	1.0
9	220 kV	XELDEM-AMBEWADI	1	0	99	1.9	0.0	1.9
WR-SR						116.0	29.0	87.1

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)	508	405	447	10.72	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	610	364	457	10.96	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-34	17	-30	-0.73	
	NER	132kV GELEPHU-SALAKATI	15	5	10	0.25	
	NER	132kV MOTANGA-RANGIA	65	41	52	1.25	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-72	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-28	-0.66	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	535	276	419	10.06	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-941	0	-935	-22.43	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-758	-355	-627	-15.06	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-93	0	-83	-2.00	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 24-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	0.00	0.00	0.00	0.58	0.00	0.00	0.58
Bangladesh	22.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.42
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.42	0.00	0.00	0.00	0.00	0.58	0.00	0.00	23.00

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	20.40	0.00	0.52	0.00	0.00	0.12	0.00	0.00	21.04
Nepal	2.63	0.00	7.10	0.00	0.00	0.52	0.00	0.00	10.25
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	23.03	0.00	7.62	0.00	0.00	0.64	0.00	0.00	31.29

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	20.40	0.00	0.52	0.00	0.00	0.12	0.00	0.00	21.04
Nepal	2.63	0.00	7.10	0.00	0.00	-0.06	0.00	0.00	9.67
Bangladesh	-22.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.42
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	0.61	0.00	7.62	0.00	0.00	0.06	0.00	0.00	8.29