



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: 28.06.2024

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 27.06.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27.06.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 28-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)	76974	60896	45327	28413	3460	215070
Peak Shortage (MW)	170	0	0	91	0	261
Energy Met (MU)	1716	1428	1094	641	70	4949
Hydro Gen (MU)	362	38	63	61	45	568
Wind Gen (MU)	10	74	266	-	-	351
Solar Gen (MU)*	134.48	65.14	83.67	2.94	0.82	287
Energy Shortage (MU)	2.18	0.00	0.00	1.09	0.00	3.27
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	78855	62190	50359	30370	3478	216122
Time Of Maximum Demand Met	21:34	14:51	10:54	00:36	19:05	22:25

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	0.024	0.00	0.00	2.93	2.93	79.02	18.05

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	15183	0	317.5	205.0	-4.4	430	0.00
	Haryana	12353	0	268.4	203.8	-2.7	86	0.00
	Rajasthan	14367	0	301.7	108.8	-4.9	498	1.40
	Delhi	7145	0	143.6	125.7	0.6	247	0.00
	UP	26632	0	526.9	269.5	-1.8	667	0.33
	Uttarakhand	2519	0	53.3	24.3	-1.0	112	0.14
	HP	1787	0	38.5	0.9	-0.5	48	0.00
	J&K(UT) & Ladakh(UT)	2540	0	54.2	30.9	-2.6	194	0.31
	Chandigarh	393	0	8.1	8.3	-0.2	54	0.00
Railways NR ISTS	201	0	4.1	3.7	0.4	91	0.00	
WR	Chhattisgarh	5347	0	120.4	67.1	-1.4	209	0.00
	Gujarat	20326	0	446.0	159.7	-0.2	608	0.00
	MP	11148	0	240.9	136.4	-4.4	407	0.00
	Maharashtra	23767	0	548.0	158.3	-6.6	568	0.00
	Goa	641	0	13.4	13.5	-0.3	64	0.00
	DNHDDPDCL	1339	0	31.1	31.1	0.0	115	0.00
	AMNSIL	718	0	15.8	3.9	0.2	259	0.00
	BALCO	525	0	12.5	12.6	-0.1	8	0.00
SR	Andhra Pradesh	9778	0	209.0	23.9	-4.2	446	0.00
	Telangana	10223	0	213.9	127.8	-0.9	1411	0.00
	Karnataka	11550	0	218.5	40.3	-1.9	542	0.00
	Kerala	3755	0	76.0	48.9	0.2	338	0.00
	Tamil Nadu	17163	0	366.0	147.1	-6.7	507	0.00
	Puducherry	464	0	10.4	10.1	-0.3	71	0.00
ER	Bihar	7296	0	147.5	143.5	-2.2	403	0.64
	DVC	3627	0	78.9	-36.5	-0.4	349	0.00
	Jharkhand	2295	0	48.2	36.4	-0.5	308	0.45
	Odisha	5721	0	123.6	45.3	-0.7	337	0.00
	West Bengal	12079	0	241.1	98.5	-2.3	209	0.00
	Sikkim	86	0	1.6	1.6	-0.1	17	0.00
	Railways ER ISTS	15	0	0.1	0.1	0.0	4	0.00
NER	Arunachal Pradesh	149	0	2.7	2.8	-0.6	25	0.00
	Assam	2333	0	48.3	37.8	2.3	206	0.00
	Manipur	217	0	3.0	3.2	-0.3	61	0.00
	Meghalaya	330	0	6.1	-0.1	-0.1	48	0.00
	Mizoram	70	0	1.9	1.0	-0.3	9	0.00
	Nagaland	149	0	2.6	2.6	-0.5	40	0.00
Tripura	300	0	5.8	5.3	-0.2	40	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	33.4	10.8	-24.2	-9.9
Day Peak (MW)	1708.0	645.8	-1027.0	-760.5

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	453.5	-350.0	-32.7	-69.7	-1.1	0.0
Actual(MU)	414.8	-335.1	-31.9	-59.9	-3.9	-16.0
O/D/U/D(MU)	-38.8	14.9	0.8	9.8	-2.8	-16.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3212	8316	5398	2801	597	20324	53
State Sector	4321	5946	5978	1582	119	17945	47
Total	7533	14261	11376	4383	716	38268	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	771	1583	633	710	11	3709	70
Lignite	31	21	54	0	0	107	2
Hydro	362	38	63	61	45	568	11
Nuclear	30	59	52	0	0	141	3
Gas, Naptha & Diesel	45	54	6	0	23	127	2
RES (Wind, Solar, Biomass & Others)	151	142	379	4	1	677	13
Total	1390	1897	1187	775	79	5328	100

Share of RES in total generation (%)	10.88	7.49	31.94	0.54	1.03	12.72
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.06	12.61	41.61	8.36	57.36	26.02

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.085

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	215581	15:26	0
Non-Solar hr	216122	22:25	1059

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: 28-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	2.3	-2.3	
3	765 kV	GAYA-VARANASI	2	564	740	0.0	4.8	-4.8	
4	765 kV	SASARAM-FATEHPUR	1	121	523	0.0	5.8	-5.8	
5	765 kV	GAYA-BALIA	1	0	831	0.0	11.1	-11.1	
6	400 kV	PUSAULI-VARANASI	1	38	67	0.0	0.2	-0.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	134	0.0	2.1	-2.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	886	0.0	15.2	-15.2	
9	400 kV	PATNA-BALIA	2	60	712	0.0	9.4	-9.4	
10	400 kV	NAUBATPUR-BALIA	2	71	211	0.0	2.7	-2.7	
11	400 kV	BIHARSHARIF-BALIA	2	207	186	0.0	1.2	-1.2	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	571	0.0	9.3	-9.3	
13	400 kV	BIHARSHARIF-VARANASI	2	299	299	0.0	3.4	-3.4	
14	220 kV	SAHUPURI-KARAMNANA	1	34	60	0.0	0.7	-0.7	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
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	
						ER-NR	0.5	68.2	-67.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	247	1889	0.0	17.3	-17.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2524	0	42.1	0.0	42.1	
3	765 kV	JHARSUGUDA-DURG	2	0	522	0.0	7.4	-7.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	379	213	2.7	0.0	2.7	
5	400 kV	RANCHI-SPAT	2	610	0	9.6	0.0	9.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	148	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	2	0	163	0.0	1.7	-1.7	
						ER-WR	54.4	28.5	25.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	659	0	10.5	0.0	10.5	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1688	0.0	39.9	-39.9	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2374	0.0	36.0	-36.0	
4	400 kV	TALCHER-I/C	2	0	742	0.0	10.6	-10.6	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	10.5	75.9	-65.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	1621	0	7.5	0.0	7.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	677	0	8.2	0.0	8.2	
3	220 kV	ALIPURDUAR-SALAKATI	2	128	0	1.5	0.0	1.5	
						ER-NER	17.2	0.0	17.2
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	510	0	12.0	0.0	12.0	
						NER-NR	12.0	0.0	12.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5560	0.0	84.5	-84.5	
2	HVDC	VINDHYACHAL B/B	-	0	512	0.0	11.9	-11.9	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2361	0.0	47.4	-47.4	
4	765 kV	GWALIOR-AGRA	2	0	3801	0.0	60.1	-60.1	
5	765 kV	GWALIOR-PHAGI	2	192	2424	0.2	31.8	-31.6	
6	765 kV	JABALPUR-ORAI	2	0	1505	0.0	50.1	-50.1	
7	765 kV	GWALIOR-ORAI	1	729	0	12.8	0.0	12.8	
8	765 kV	SATNA-ORAI	1	0	1412	0.0	25.6	-25.6	
9	765 kV	BANASKANTHA-CHITTOGARH	2	1454	981	5.8	5.6	0.2	
10	765 kV	VINDHYACHAL-VARANASI	2	0	4348	0.0	76.4	-76.4	
11	400 kV	ZERDA-KANKROLI	1	290	204	1.2	1.0	0.2	
12	400 kV	ZERDA -BHINMAL	1	289	204	1.2	0.9	0.2	
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	20.0	0.0	20.0	
14	400 kV	RAPP-SHUALPUR	2	307	845	0.7	8.3	-7.7	
15	400 kV	NEEMUCH-Chittorgarh	2	318	879	0.7	8.7	-8.0	
16	220 kV	BHANPURA-RANPUR	1	0	116	0.0	1.7	-1.7	
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.9	-1.9	
18	220 kV	MEHGAON-AURAIYA	1	31	46	0.1	0.4	-0.3	
19	220 kV	MALANPUR-AURAIYA	1	0	50	0.0	0.4	-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	
						WR-NR	42.5	416.5	-374.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	1004	0	24.0	0.0	24.0	
2	HVDC	RAIGARH-PUGALUR	2	774	1203	2.5	17.5	-15.0	
3	765 kV	SOLAPUR-RAICHUR	2	2576	0	37.4	0.0	37.4	
4	765 kV	WARDHA-NIZAMABAD	2	516	1810	0.8	14.1	-13.3	
5	765 kV	WARORA-WARANGAL(NEW)	2	654	1766	1.2	12.9	-11.7	
6	400 kV	KOLHAPUR-KUDGI	2	2079	0	40.8	0.0	40.8	
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
8	220 kV	PONDA-AMBEWADI	1	0	56	1.1	0.0	1.1	
9	220 kV	XELDEM-AMBEWADI	1	0	107	2.0	0.0	2.0	
						WR-SR	109.8	44.5	65.3
INTERNATIONAL EXCHANGES									
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)			
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	700	487	628	15.08			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	2127	639	681	16.33			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	52	-26	16	0.38			
	NER	132kV GELEPHU-SALAKATI	23	0	11	0.27			
	NER	132kV MOTANGA-RANGIA	65	0	54	1.30			
NEPAL	NR	NEPAL IMPORT (FROM UP)	-44	0	0	0.00			
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	50	0	5	0.11			
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	596	276	445	10.69			
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-933	-865	-922	-22.13			
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-761	-183	-414	-9.93			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-94	0	-85	-2.05			

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 28-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	0.04	0.00	0.00	0.04
Bangladesh	22.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.15
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.15	0.00	0.00	0.00	0.00	0.04	0.00	0.00	22.19

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	29.26	0.00	0.91	0.00	0.00	0.06	0.00	0.00	30.23
Nepal	2.63	0.00	7.71	0.00	0.00	0.57	0.00	0.00	10.91
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	31.89	0.00	8.62	0.00	0.00	0.63	0.00	0.00	41.14

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	29.26	0.00	0.91	0.00	0.00	0.06	0.00	0.00	30.23
Nepal	2.63	0.00	7.71	0.00	0.00	0.54	0.00	0.00	10.88
Bangladesh	-22.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.15
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	9.74	0.00	8.62	0.00	0.00	0.60	0.00	0.00	18.96