



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: 30.06.2024

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 29.06.2024.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-जून-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 29.06.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 30-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)	76015	58305	46753	25851	3164	210088
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1712	1365	1138	610	63	4888
Hydro Gen (MU)	368	34	70	62	41	575
Wind Gen (MU)	14	136	197	-	-	347
Solar Gen (MU)*	112.63	67.56	113.65	2.35	0.53	297
Energy Shortage (MU)	0.00	0.00	0.00	0.00	0.00	0.00
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	77917	58876	52874	29167	3302	212167
Time Of Maximum Demand Met	22:43	19:54	09:53	00:07	19:28	22:37

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	0.023	0.00	0.14	3.01	3.15	84.41	12.44

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	15980	0	352.2	209.5	-1.2	278	0.00
	Haryana	12204	0	263.1	195.1	-1.2	256	0.00
	Rajasthan	12987	0	294.2	97.3	-2.1	598	0.00
	Delhi	6125	0	129.3	117.2	-0.7	201	0.00
	UP	25494	0	511.1	265.0	-1.3	635	0.00
	Uttarakhand	2525	0	55.2	24.7	0.1	123	0.00
	HP	1873	0	39.9	1.9	-0.2	68	0.00
	J&K(UT) & Ladakh(UT)	2608	0	54.4	30.7	-2.1	225	0.00
	Chandigarh	396	0	8.1	8.0	0.1	37	0.00
Railways NR ISTS	211	0	4.2	3.8	0.4	45	0.00	
WR	Chhattisgarh	5191	0	113.8	64.9	-2.2	129	0.00
	Gujarat	18742	0	415.3	152.8	-2.6	578	0.00
	MP	10555	0	230.7	122.8	-4.2	343	0.00
	Maharashtra	23964	0	530.0	161.5	-5.7	698	0.00
	Goa	677	0	14.5	14.0	0.4	69	0.00
	DNHDDPDCL	1316	0	30.7	30.7	0.0	44	0.00
	AMNSIL	788	0	17.2	4.2	0.1	214	0.00
	BALCO	525	0	12.5	12.6	-0.1	9	0.00
SR	Andhra Pradesh	10250	0	213.6	48.6	-1.4	596	0.00
	Telangana	10363	0	211.1	117.1	-0.2	696	0.00
	Karnataka	12691	0	238.3	69.5	2.0	987	0.00
	Kerala	3923	0	79.4	49.6	1.3	338	0.00
	Tamil Nadu	18044	0	384.6	160.5	-3.0	599	0.00
	Puducherry	478	0	10.8	10.2	-0.1	46	0.00
ER	Bihar	7186	0	146.9	138.6	-2.7	476	0.00
	DVC	3487	0	74.6	-35.2	0.6	345	0.00
	Jharkhand	2212	0	44.5	35.0	-0.3	207	0.00
	Odisha	5611	0	118.5	46.3	-1.3	373	0.00
	West Bengal	10581	0	224.2	88.2	-1.1	195	0.00
	Sikkim	78	0	1.2	1.6	-0.3	15	0.00
	Railways ER ISTS	14	0	0.1	0.1	0.0	0	0.00
NER	Arunachal Pradesh	121	0	3.3	2.9	-0.1	1	0.00
	Assam	2078	0	40.5	32.6	-0.1	200	0.00
	Manipur	200	0	3.0	3.1	-0.1	20	0.00
	Meghalaya	424	0	5.8	0.3	-0.4	106	0.00
	Mizoram	116	0	2.3	1.1	-0.1	24	0.00
	Nagaland	153	0	3.2	2.7	0.0	20	0.00
	Tripura	294	0	5.3	5.2	0.1	97	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	36.1	11.8	-24.3	0.5
Day Peak (MW)	1752.3	635.3	-1031.0	25.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	428.2	-380.6	37.4	-80.7	-4.3	0.0
Actual(MU)	418.7	-391.4	55.0	-82.2	-8.7	-8.6
O/D/U/D(MU)	-9.5	-10.8	17.6	-1.5	-4.4	-8.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4467	7881	6048	4271	597	23263	52
State Sector	3341	9280	6848	1732	220	21420	48
Total	7808	17161	12896	6003	817	44683	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	804	1524	627	703	14	3672	70
Lignite	30	19	56	0	0	105	2
Hydro	368	34	70	62	41	575	11
Nuclear	30	60	52	0	0	142	3
Gas, Naptha & Diesel	20	39	6	0	22	86	2
RES (Wind, Solar, Biomass & Others)	135	204	339	4	1	684	13
Total	1386	1880	1150	770	78	5263	100

Share of RES in total generation (%)	9.75	10.87	29.50	0.58	0.70	12.99
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.48	15.86	40.10	8.63	53.83	26.61

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.046
Based on State Max Demands	1.086

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	211360	11:49	0
Non-Solar hr	212167	22:37	0

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: 30-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	2.2	-2.2
3	765 kV	GAYA-VARANASI	2	316	698	0.0	8.7	-8.7
4	765 kV	SASARAM-FATEHPUR	1	12	501	0.0	7.3	-7.3
5	765 kV	GAYA-BALIA	1	0	667	0.0	10.5	-10.5
6	400 kV	PUSAULI-VARANASI	1	65	48	0.0	0.2	-0.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	120	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	988	0.0	17.3	-17.3
9	400 kV	PATNA-BALIA	2	0	819	0.0	14.0	-14.0
10	400 kV	NAUBATPUR-BALIA	2	11	244	0.0	4.1	-4.1
11	400 kV	BIHARSHARIF-BALIA	2	121	205	0.0	2.0	-2.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	625	0.0	10.2	-10.2
13	400 kV	BIHARSHARIF-VARANASI	2	145	313	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	35	56	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	0.6	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						0.6	78.8	-78.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	846	784	0.0	4.9	-4.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2011	0	34.6	0.0	34.6
3	765 kV	JHARSUGUDA-DURG	2	0	510	0.0	8.6	-8.6
4	400 kV	JHARSUGUDA-RAIGARH	4	361	213	1.7	0.0	1.7
5	400 kV	RANCHI-SIPAT	2	507	0	7.6	0.0	7.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	190	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	6	156	0.0	1.9	-1.9
ER-WR						43.9	17.8	26.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	202	0	4.8	0.0	4.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1690	0.0	40.9	-40.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2770	0.0	43.3	-43.3
4	400 kV	TALCHER-I/C	2	0	732	0.0	10.8	-10.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						4.8	84.2	-79.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	578	0	9.5	0.0	9.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	716	0	11.5	0.0	11.5
3	220 kV	ALIPURDUAR-SALAKATI	2	132	0	2.2	0.0	2.2
ER-NER						23.2	0.0	23.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	508	0	12.4	0.0	12.4
NER-NR						12.4	0.0	12.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	4021	0.0	48.2	-48.2
2	HVDC	VINDHYACHAL B/B	-	0	511	0.0	12.0	-12.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2358	0.0	44.5	-44.5
4	765 kV	GWALIOR-AGRA	2	0	3222	0.0	60.4	-60.4
5	765 kV	GWALIOR-PHAGI	2	0	1988	0.0	33.2	-33.2
6	765 kV	JABALPUR-ORAI	2	0	1460	0.0	54.7	-54.7
7	765 kV	GWALIOR-ORAI	1	724	0	12.1	0.0	12.1
8	765 kV	SATNA-ORAI	1	0	1285	0.0	26.9	-26.9
9	765 kV	BANASKANTHA-CHITTOGARH	2	71	1184	0.0	12.8	-12.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	3783	0.0	73.1	-73.1
11	400 kV	ZERDA-KANKROLI	1	89	260	0.2	1.8	-1.6
12	400 kV	ZERDA -BHINMAL	1	89	153	0.2	0.8	-0.6
13	400 kV	VINDHYACHAL -RIHAND	1	966	0	21.4	0.0	21.4
14	400 kV	RAPP-SHUALPUR	2	16	746	0.0	9.5	-9.5
15	400 kV	NEEMUCH-Chittorgarh	2	49	732	0.0	8.6	-8.6
16	220 kV	BHANPURA-RANPUR	1	0	75	0.0	1.3	-1.3
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.2	-2.2
18	220 kV	MEHGAON-AURAIYA	1	10	57	0.0	0.7	-0.7
19	220 kV	MALANPUR-AURAIYA	1	0	67	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						34.0	391.6	-357.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	501	0	12.0	0.0	12.0
2	HVDC	RAIGARH-PUGALUR	2	0	1403	0.0	18.7	-18.7
3	765 kV	SOLAPUR-RAICHUR	2	1590	1275	17.6	1.8	15.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2654	0.0	27.2	-27.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2592	0.0	25.4	-25.4
6	400 kV	KOLHAPUR-KUDGI	2	1913	0	33.8	0.0	33.8
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	58	1.3	0.0	1.3
9	220 kV	XELDEM-AMBEWADI	1	1	102	0.8	0.0	0.8
WR-SR						65.6	73.1	-7.5

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)	845	660	725	17.41	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	784	512	692	16.60	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	107	1	24	0.58	
	NER	132kV GELEPHU-SALAKATI	23	6	17	0.40	
	NER	132kV MOTANGA-RANGIA	60	35	47	1.12	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-18	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	50	0	23	0.56	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	585	385	470	11.27	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-943	-861	-938	-22.52	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	25	0	20	0.48	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-88	0	-74	-1.77	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 30-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	0.00	0.00	0.00	0.00
Bangladesh	22.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.47
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.47

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	32.16	0.00	0.55	0.00	0.00	0.12	0.00	0.00	32.83
Nepal	2.63	0.00	9.17	0.00	0.00	0.29	0.00	0.00	12.09
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	34.79	0.00	9.72	0.00	0.00	0.41	0.00	0.00	44.92

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	32.16	0.00	0.55	0.00	0.00	0.12	0.00	0.00	32.83
Nepal	2.63	0.00	9.17	0.00	0.00	0.29	0.00	0.00	12.09
Bangladesh	-22.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.47
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	12.32	0.00	9.72	0.00	0.00	0.41	0.00	0.00	22.45