



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-May-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 24.05.2024.

महोदय/Dear Sir,

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

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 25-May-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)	74580	67240	46457	28757	3544	220578
Peak Shortage (MW)	1310	0	0	375	0	1685
Energy Met (MU)	1822	1625	1097	657	69	5269
Hydro Gen (MU)	363	61	51	28	17	520
Wind Gen (MU)	9	173	77	-	-	259
Solar Gen (MU)*	168.61	96.97	112.75	3.86	1.32	384
Energy Shortage (MU)	8.91	0.00	0.00	1.33	0.47	10.71
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	83668	73795	52312	31056	3657	239963
Time Of Maximum Demand Met	14:14	15:32	14:55	23:23	18:44	14:37

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	0.00	2.73	2.73	87.42	9.85

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	14203	0	267.2	136.2	-3.3	870	0.00
	Haryana	12336	0	259.1	185.1	-0.7	263	0.00
	Rajasthan	17227	0	363.1	149.6	4.7	866	8.57
	Delhi	7774	0	157.7	127.3	-0.6	296	0.00
	UP	28714	0	613.4	296.1	1.6	1049	0.00
	Uttarakhand	2716	0	59.4	30.5	1.2	220	0.00
	HP	1817	0	38.2	1.0	-0.7	87	0.00
	J&K(UT) & Ladakh(UT)	2440	0	50.9	27.2	-2.1	289	0.34
	Chandigarh	417	0	8.4	8.4	0.0	32	0.00
Railways NR ISTS	216	0	4.4	3.7	0.7	86	0.00	
WR	Chhattisgarh	5070	0	112.8	58.2	-2.1	253	0.00
	Gujarat	24574	0	507.5	141.6	-7.5	633	0.00
	MP	14159	0	311.2	165.7	-3.3	385	0.00
	Maharashtra	27014	0	616.6	193.6	-5.5	635	0.00
	Goa	767	0	15.9	14.2	1.7	64	0.00
	DNHDDPDCL	1300	0	30.4	30.3	0.1	48	0.00
	AMNSIL	794	0	17.6	6.9	0.8	334	0.00
	BALCO	522	0	12.5	12.5	0.0	8	0.00
SR	Andhra Pradesh	11558	0	227.3	78.7	1.0	1216	0.00
	Telangana	9912	0	202.8	79.6	-0.3	333	0.00
	Karnataka	11480	0	225.8	82.8	-3.2	607	0.00
	Kerala	3977	0	79.4	49.9	0.0	358	0.00
	Tamil Nadu	16525	0	351.4	194.6	-4.7	1002	0.00
	Puducherry	474	0	10.6	10.2	-0.3	30	0.00
ER	Bihar	7062	0	148.0	134.5	2.8	592	0.39
	DVC	3629	0	77.9	-47.6	0.0	288	0.00
	Jharkhand	2212	0	48.0	32.8	2.3	354	0.94
	Odisha	6690	0	141.1	51.3	2.4	506	0.00
	West Bengal	11936	0	240.1	92.4	0.1	275	0.00
	Sikkim	95	0	1.6	1.5	0.1	47	0.00
	Railways ER ISTS	23	0	0.2	0.2	0.0	4	0.00
NER	Arunachal Pradesh	147	0	2.9	2.8	-0.1	23	0.00
	Assam	2404	0	46.4	39.3	0.5	183	0.47
	Manipur	217	0	3.1	3.1	0.0	26	0.00
	Meghalaya	316	0	5.6	2.2	-0.2	78	0.00
	Mizoram	114	0	1.9	1.6	-0.1	16	0.00
	Nagaland	167	0	2.9	2.9	0.0	18	0.00
Tripura	362	0	6.5	5.9	0.2	80	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	1.7	-10.3	-22.4	-25.6
Day Peak (MW)	205.0	-731.5	-1040.0	-1445.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	381.8	-377.0	30.9	-53.7	17.0	-1.0
Actual(MU)	379.9	-396.5	41.1	-52.6	20.8	-7.3
O/D/U/D(MU)	-2.0	-19.5	10.3	1.1	3.8	-6.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1476	5980	3212	3206	381	14255	45
State Sector	4896	5637	4713	2114	99	17458	55
Total	6371	11616	7925	5320	480	31712	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	888	1683	742	754	13	4080	71
Lignite	21	16	65	0	0	102	2
Hydro	363	61	51	28	17	520	9
Nuclear	30	52	51	0	0	133	2
Gas, Naptha & Diesel	62	98	9	0	24	193	3
RES (Wind, Solar, Biomass & Others)	187	273	215	5	1	681	12
Total	1551	2182	1135	787	54	5709	100

Share of RES in total generation (%)	12.04	12.52	18.96	0.58	2.30	11.93
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.40	17.67	27.99	4.18	32.98	23.37

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.047

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	239963	14:37	0
Non-Solar hr	223439	23:37	1655

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-May-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	343	464	0.0	1.1	-1.1
4	765 kV	SASARAM-FATEHPUR	1	0	283	0.0	3.4	-3.4
5	765 kV	GAYA-BALIA	1	0	649	0.0	6.5	-6.5
6	400 kV	PUSAULI-VARANASI	1	2	59	0.0	0.6	-0.6
7	400 kV	PUSAULI-ALLAHABAD	1	58	0	0.1	0.0	0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	293	224	1.0	0.0	1.0
9	400 kV	PATNA-BALIA	2	0	622	0.0	10.0	-10.0
10	400 kV	NAUBATPUR-BALIA	2	0	406	0.0	2.7	-2.7
11	400 kV	BIHARSHARIFF-BALIA	2	287	0	4.2	0.0	4.2
12	400 kV	MOTIHARI-GORAKHPUR	2	13	307	0.0	3.7	-3.7
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	8	33	0.0	0.4	-0.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.7	0.0	0.7
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						6.0	28.3	-22.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	531	529	1.3	0.0	1.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2177	0	27.2	0.0	27.2
3	765 kV	JHARSUGUDA-DURG	2	0	825	0.0	14.9	-14.9
4	400 kV	JHARSUGUDA-RAIGARH	4	184	121	0.6	0.0	0.6
5	400 kV	RANCHI-SIPAT	2	618	0	9.3	0.0	9.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	117	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	69	21	0.4	0.0	0.4
ER-WR						38.9	16.4	22.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	414	0.0	7.6	-7.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1696	0.0	40.9	-40.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	1777	0.0	29.5	-29.5
4	400 kV	TALCHER-I/C	2	86	243	0.0	1.7	-1.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	78.0	-78.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	330	0.0	3.5	-3.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	20	533	0.0	7.6	-7.6
3	220 kV	ALIPURDUAR-SALAKATI	2	15	63	0.0	0.7	-0.7
ER-NER						0.0	11.9	-11.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	318	0	7.9	0.0	7.9
NER-NR						7.9	0.0	7.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	6064	0.0	127.3	-127.3
2	HVDC	VINDHYACHAL B/B	-	0	254	0.0	7.5	-7.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1660	0.0	42.4	-42.4
4	765 kV	GWALIOR-AGRA	2	0	2481	0.0	44.9	-44.9
5	765 kV	GWALIOR-PHAGI	2	306	1514	0.8	16.7	-15.9
6	765 kV	JABALPUR-ORAI	2	0	1055	0.0	36.4	-36.4
7	765 kV	GWALIOR-ORAI	1	648	0	10.2	0.0	10.2
8	765 kV	SATNA-ORAI	1	0	1056	0.0	22.5	-22.5
9	765 kV	BANASKANTHA-CHITTOGARH	2	125	1422	0.1	14.7	-14.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3944	0.0	77.0	-77.0
11	400 kV	ZERDA-KANKROLI	1	97	226	0.4	1.8	-1.5
12	400 kV	ZERDA-BHINMAL	1	96	225	0.4	1.8	-1.5
13	400 kV	VINDHYACHAL-RIHAND	1	962	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	189	412	0.8	4.3	-3.5
15	400 kV	NEEMUCH-Chittorgarh	2	319	365	1.8	3.7	-1.9
16	220 kV	BHANPURA-RANPUR	1	0	148	0.0	2.8	-2.8
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.9	-2.9
18	220 kV	MEHGAON-AURAIYA	1	59	0	0.9	0.0	0.9
19	220 kV	MALANPUR-AURAIYA	1	33	7	0.4	0.0	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						37.2	406.7	-369.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	801	0	19.2	0.0	19.2
2	HVDC	RAIGARH-PUGALUR	2	0	1304	0.0	31.4	-31.4
3	765 kV	SOLAPUR-RAICHUR	2	1512	395	12.3	0.7	11.6
4	765 kV	WARDHA-NIZAMABAD	2	13	1347	0.0	16.9	-16.9
5	765 kV	WARORA-WARANGAL(NEW)	2	26	1445	0.0	18.4	-18.4
6	400 kV	KOLHAPUR-KUDGI	2	1467	0	27.5	0.0	27.5
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	76	0.0	1.7	-1.7
9	220 kV	XELDEM-AMBEWADI	1	0	126	2.3	0.0	2.3
WR-SR						61.3	69.2	-7.9

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 MANGDECHU HEP 4*180MW)	190	71	128	3.08	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-104	73	-1	-0.03	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-137	-73	-97	-2.32	
	NER	132kV GELEPHU-SALAKATI	6	-9	0	0.00	
	NER	132kV MOTANGA-RANGIA	61	0	42	1.01	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-74	0	-48	-1.16	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-49	-1.18	
	ER	NEPAL IMPORT (FROM BIHAR)	-299	0	-129	-3.10	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-432	-3	-201	-4.82	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-953	-641	-856	-20.55	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1445	-745	-1067	-25.61	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-87	0	-75	-1.80	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 25-May-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	0.35	0.00	3.67	0.00	0.00	0.58	0.00	0.00	4.60
Bangladesh	20.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.64
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	20.99	0.00	3.67	0.00	0.00	0.58	0.00	0.00	25.24

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.54	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.72
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.54	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.72

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	0.54	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.72
Nepal	-0.35	0.00	-3.67	0.00	0.00	-0.58	0.00	0.00	-4.60
Bangladesh	-20.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.64
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-20.45	0.00	-3.49	0.00	0.00	-0.58	0.00	0.00	-24.52