



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रिड 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: 12-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, 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 11.05.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-मई-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड 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 11-May-2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 12-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)	65676	61894	49370	22925	2939	202804
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1397	1565	1201	532	55	4749
Hydro Gen (MU)	301	52	36	19	18	425
Wind Gen (MU)	31	62	29	-	-	122
Solar Gen (MU)*	157.02	94.33	120.45	3.33	1.17	376
Energy Shortage (MU)	0.00	0.00	0.00	0.30	0.00	0.30
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67377	72368	56240	25723	3031	216337
Time Of Maximum Demand Met	22:27	15:08	14:59	00:02	18:54	14:55

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	1.04	5.77	6.82	84.02	9.17

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	8991	0	181.8	78.4	-0.6	252	0.00
	Haryana	8992	0	163.6	118.4	-2.0	211	0.00
	Rajasthan	14654	0	293.9	91.1	-3.4	400	0.00
	Delhi	5697	0	115.7	98.4	-0.2	225	0.00
	UP	25419	0	498.8	219.1	1.2	613	0.00
	Uttarakhand	2341	0	50.1	29.2	-2.0	77	0.00
	HP	1609	0	32.9	5.7	-0.8	84	0.00
	J&K(UT) & Ladakh(UT)	2550	0	50.4	26.0	-1.1	194	0.00
	Chandigarh	275	0	5.9	6.4	-0.6	2	0.00
Railways NR ISTS	201	0	4.1	3.9	0.2	32	0.00	
WR	Chhattisgarh	5020	0	114.3	55.6	-1.3	307	0.00
	Gujarat	24460	0	492.2	195.3	-0.9	600	0.00
	MP	13176	0	281.7	147.3	-1.7	813	0.00
	Maharashtra	26867	0	599.5	200.2	-5.2	803	0.00
	Goa	743	0	15.9	14.8	0.8	83	0.00
	DNHDDPDCL	1304	0	30.2	30.2	0.0	33	0.00
	AMNSIL	881	0	18.6	8.9	0.4	300	0.00
BALCO	524	0	12.5	12.5	0.0	10	0.00	
SR	Andhra Pradesh	11255	0	224.2	71.7	-1.6	492	0.00
	Telangana	9590	0	199.8	81.1	-0.1	731	0.00
	Karnataka	13625	0	264.2	125.7	-1.1	919	0.00
	Kerala	4585	0	95.8	84.1	0.0	213	0.00
	Tamil Nadu	18511	0	406.0	262.4	0.0	606	0.00
	Puducherry	516	0	11.5	11.1	-0.2	44	0.00
ER	Bihar	6156	0	121.6	117.2	-3.3	1031	0.30
	DVC	3226	0	70.6	-34.9	-0.2	363	0.00
	Jharkhand	1822	0	38.7	27.2	-1.1	312	0.00
	Odisha	5615	0	119.7	43.9	-0.3	513	0.00
	West Bengal	8419	0	179.4	48.2	-2.2	332	0.00
	Sikkim	95	0	1.6	1.7	-0.1	27	0.00
Railways ER ISTS	11	0	0.1	0.2	-0.1	0	0.00	
NER	Arunachal Pradesh	150	0	2.8	2.9	-0.3	3	0.00
	Assam	1896	0	34.3	27.1	0.7	144	0.00
	Manipur	196	0	2.9	2.9	-0.1	26	0.00
	Meghalaya	321	0	5.7	3.9	-0.3	80	0.00
	Mizoram	122	0	1.8	1.7	-0.3	14	0.00
	Nagaland	143	0	2.5	2.6	-0.1	3	0.00
Tripura	253	0	4.5	4.5	-0.1	22	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-3.7	-11.0	-20.6	-12.3
Day Peak (MW)	-518.0	-701.9	-1036.0	-761.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	170.6	-278.1	199.4	-96.2	4.3	0.0
Actual(MU)	151.3	-277.6	210.0	-92.8	3.8	-5.4
O/D/U/D(MU)	-19.3	0.5	10.5	3.4	-0.5	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2961	6039	3852	2606	351	15809	51
State Sector	3768	6325	3625	1231	110	15059	49
Total	6729	12364	7477	3837	461	30868	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	765	1648	715	704	14	3846	74
Lignite	15	17	57	0	0	89	2
Hydro	301	52	36	19	18	425	8
Nuclear	31	55	75	0	0	161	3
Gas, Naptha & Diesel	31	77	11	0	24	143	3
RES (Wind, Solar, Biomass & Others)	196	158	176	5	1	535	10
Total	1337	2008	1071	727	57	5200	100

Share of RES in total generation (%)	14.62	7.88	16.40	0.64	2.08	10.29
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.44	13.21	26.76	3.23	33.07	21.57

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.038
Based on State Max Demands	1.064

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	216337	14:55	0
Non-Solar hr	211045	22:47	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: 12-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	-	3	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	624	1112	0.0	9.6	-9.6
4	765 kV	SASARAM-FATEHPUR	1	187	605	0.0	6.9	-6.9
5	765 kV	GAYA-BALIA	1	0	835	0.0	11.2	-11.2
6	400 kV	PUSAULI-VARANASI	1	51	65	0.0	0.3	-0.3
7	400 kV	PUSAULI-ALLAHABAD	1	69	49	0.3	0.0	0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	508	728	0.0	4.1	-4.1
9	400 kV	PATNA-BALIA	2	262	996	0.0	11.8	-11.8
10	400 kV	NAUBATPUR-BALIA	2	134	322	0.0	3.8	-3.8
11	400 kV	BIHARSHARIFF-BALIA	2	434	274	1.1	0.0	1.1
12	400 kV	MOTIHARI-GORAKHPUR	2	203	528	0.0	5.9	-5.9
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	29	141	0.0	1.6	-1.6
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						2.2	55.2	-53.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1763	0	24.0	0.0	24.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	837	479	4.6	0.0	4.6
3	765 kV	JHARSUGUDA-DURG	2	0	1199	0.0	20.1	-20.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	524	0.0	7.4	-7.4
5	400 kV	RANCHI-SIPAT	2	344	43	3.6	0.0	3.6
6	220 kV	BUDHIPADAR-RAIGARH	1	37	105	0.0	0.8	-0.8
7	220 kV	BUDHIPADAR-KORBA	2	150	48	1.0	0.0	1.0
ER-WR						33.2	28.3	4.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	622	0.0	7.9	-7.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1493	0.0	34.7	-34.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2754	0.0	52.4	-52.4
4	400 kV	TALCHER-I/C	2	1449	482	2.3	0.0	2.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	95.0	-95.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	356	0	4.2	0.0	4.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	582	0	8.2	0.0	8.2
3	220 kV	ALIPURDUAR-SALAKATI	2	83	0	1.1	0.0	1.1
ER-NER						13.5	0.0	13.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	656	0	16.8	0.0	16.8
NER-NR						16.8	0.0	16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	1	1154	0.0	20.0	-20.0
2	HVDC	VINDHYACHAL B/B	-	198	103	0.6	4.2	-3.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	975	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	2603	0.0	28.3	-28.3
5	765 kV	GWALIOR-PHAGI	2	1029	1385	4.4	17.3	-12.9
6	765 kV	JABALPUR-ORAI	2	69	1142	0.0	23.9	-23.9
7	765 kV	GWALIOR-ORAI	1	624	0	10.2	0.0	10.2
8	765 kV	SATNA-ORAI	1	0	1224	0.0	19.5	-19.5
9	765 kV	BANASKANTHA-CHITTOGARH	2	1877	598	20.6	1.4	19.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2957	0.0	46.1	-46.1
11	400 kV	ZERDA-KANKROLI	1	413	69	4.8	0.1	4.7
12	400 kV	ZERDA-BHINMAL	1	412	68	4.8	0.1	4.7
13	400 kV	VINDHYACHAL-RIHAND	1	971	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	625	421	3.9	2.4	1.5
15	400 kV	NEEMUCH-Chittorgarh	2	659	373	4.2	2.4	1.8
16	220 kV	BHANPURA-RANPUR	1	0	118	0.0	2.1	-2.1
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.6	-2.6
18	220 kV	MEHGAON-AURAIYA	1	78	21	0.9	0.0	0.8
19	220 kV	MALANPUR-AURAIYA	1	54	38	0.4	0.1	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						76.9	194.7	-117.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1008	0.0	17.7	-17.7
2	HVDC	RAIGARH-PUGALUR	2	0	5005	0.0	83.7	-83.7
3	765 kV	SOLAPUR-RAICHUR	2	231	1283	0.3	7.1	-6.8
4	765 kV	WARDHA-NIZAMABAD	2	0	1745	0.0	27.5	-27.5
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2171	0.0	35.8	-35.8
6	400 kV	KOLHAPUR-KUDGI	2	1018	118	12.8	0.0	12.8
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	96	1.7	0.0	1.7
9	220 kV	XELDEM-AMBEWADI	1	1	113	2.2	0.0	2.2
WR-SR						16.9	171.8	-154.9

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 MANGDECHHU HEP 4*180MW)	-210	209	27	0.65	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-225	166	-44	-1.06	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-239	-6	-141	-3.37	
	NER	132kV GELEPHU-SALAKATI	-39	-10	-14	-0.33	
	NER	132kV MOTANGA-RANGIA	32	12	19	0.45	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-68	0	-46	-1.10	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-68	0	-47	-1.12	
	ER	NEPAL IMPORT (FROM BIHAR)	-241	-41	-110	-2.63	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-461	-12	-255	-6.12	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-927	-211	-763	-18.32	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-761	-404	-512	-12.28	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-109	0	-96	-2.30	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 12-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	4.17	0.00	0.00	0.56	0.00	0.00	4.73
Nepal	0.35	0.00	5.17	0.00	0.00	0.41	0.00	0.00	5.93
Bangladesh	19.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.78
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	20.13	0.00	9.34	0.00	0.00	0.97	0.00	0.00	30.44

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34
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	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34

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	0.34	0.00	-4.17	0.00	0.00	-0.56	0.00	0.00	-4.39
Nepal	-0.35	0.00	-5.17	0.00	0.00	-0.41	0.00	0.00	-5.93
Bangladesh	-19.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-19.78
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-19.79	0.00	-9.34	0.00	0.00	-0.97	0.00	0.00	-30.10