



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: 11th April 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 10.04.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-अप्रैल-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 10th April 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 11-Apr-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)	56130	60620	51883	26063	2808	197997
Peak Shortage (MW)	20	0	0	0	0	20
Energy Met (MU)	1222	1523	1345	574	57	4721
Hydro Gen (MU)	138	27	45	17	9	236
Wind Gen (MU)	15	97	56	-	-	169
Solar Gen (MU)*	146.00	75.64	136.77	2.52	0.99	362
Energy Shortage (MU)	0.22	0.00	0.00	0.37	0.00	0.59
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56606	69639	64228	26760	3069	209647
Time Of Maximum Demand Met	19:40	15:01	15:54	20:19	18:30	10:29

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	0.026	0.00	0.00	2.19	2.19	84.80	13.01

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	7949	0	160.4	48.7	0.2	238	0.00
	Haryana	8106	0	156.5	97.6	-2.2	317	0.00
	Rajasthan	13147	0	269.5	58.6	-1.7	435	0.00
	Delhi	4345	0	92.2	84.9	-1.0	96	0.00
	UP	20811	0	410.7	138.4	1.4	486	0.00
	Uttarakhand	2169	0	35.7	25.3	0.6	178	0.00
	HP	1776	0	32.8	19.9	-0.1	53	0.22
	J&K(UT) & Ladakh(UT)	2827	0	55.8	45.9	-2.7	39	0.00
	Chandigarh	221	0	4.4	4.5	-0.1	10	0.00
Railways NR ISTS	202	0	3.9	3.8	0.2	34	0.00	
WR	Chhattisgarh	5568	0	125.2	65.2	-1.3	305	0.00
	Gujarat	22133	0	470.7	196.7	-2.9	593	0.00
	MP	11728	0	243.3	129.7	-6.4	385	0.00
	Maharashtra	27661	0	608.1	209.9	-3.5	624	0.00
	Goa	750	0	15.7	11.4	4.0	57	0.00
	DNHDDPDCL	1277	0	29.4	29.4	0.0	44	0.00
	AMNSIL	834	0	18.4	5.7	0.2	257	0.00
	BALCO	524	0	12.5	12.6	0.0	8	0.00
SR	Andhra Pradesh	12230	0	234.4	70.6	-1.1	569	0.00
	Telangana	12314	0	248.5	126.6	-1.7	768	0.00
	Karnataka	16224	0	320.2	144.3	0.2	662	0.00
	Kerala	5388	0	104.4	85.3	1.4	405	0.00
	Tamil Nadu	19557	0	426.4	272.3	-5.9	395	0.00
	Puducherry	478	0	10.7	10.3	-0.3	61	0.00
ER	Bihar	6159	0	126.4	116.0	-1.2	234	0.11
	DVC	3349	0	72.9	-40.9	0.0	269	0.00
	Jharkhand	2032	0	40.2	30.2	-2.2	228	0.26
	Odisha	5833	0	124.5	47.2	-0.6	407	0.00
	West Bengal	9402	0	208.3	71.4	-1.6	281	0.00
	Sikkim	91	0	1.7	1.6	0.1	29	0.00
Railways ER ISTS	13	0	0.1	0.1	0.0	0	0.00	
NER	Arunachal Pradesh	169	0	1.9	2.3	-0.4	95	0.00
	Assam	1852	0	36.0	30.2	0.1	99	0.00
	Manipur	204	0	3.1	3.0	0.1	24	0.00
	Meghalaya	351	0	5.9	4.7	-0.2	132	0.00
	Mizoram	116	0	1.9	1.8	-0.1	18	0.00
	Nagaland	155	0	2.4	2.3	0.0	22	0.00
Tripura	295	0	5.5	4.8	0.2	51	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-6.3	-10.4	-24.8	-20.4
Day Peak (MW)	-659.0	-842.8	-1054.0	-1031.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	106.1	-331.7	302.4	-90.0	13.3	0.0
Actual(MU)	106.3	-336.8	307.8	-100.0	13.6	-9.0
O/D/U/D(MU)	0.3	-5.1	5.4	-10.0	0.4	-9.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3898	6395	4668	3266	155	18381	52
State Sector	4786	7879	2095	2162	150	17071	48
Total	8684	14273	6763	5427	305	35451	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	821	1664	726	749	15	3975	77
Lignite	24	18	73	0	0	115	2
Hydro	138	27	45	17	9	236	5
Nuclear	31	60	55	0	0	146	3
Gas, Naptha & Diesel	12	49	6	0	24	90	2
RES (Wind, Solar, Biomass & Others)	178	175	225	4	1	583	11
Total	1203	1992	1130	771	49	5146	100

Share of RES in total generation (%)	14.79	8.76	19.92	0.54	2.04	11.32
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.85	13.16	28.82	2.93	20.59	18.80

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.050
Based on State Max Demands	1.088

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	209647	10:29	0
Non-Solar hr	200634	19:37	20

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: 11-Apr-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	48	0.0	0.7	-0.7
3	765 kV	GAYA-VARANASI	2	662	682	0.0	4.7	-4.7
4	765 kV	SASARAM-FATEHPUR	1	0	460	0.0	7.1	-7.1
5	765 kV	GAYA-BALIA	1	0	515	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	1	0	73	0.0	0.9	-0.9
7	400 kV	PUSAULI-ALLAHABAD	1	72	35	0.2	0.0	0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	840	358	2.4	0.0	2.4
9	400 kV	PATNA-BALIA	2	279	780	0.0	9.9	-9.9
10	400 kV	NAUBATPUR-BALIA	2	160	266	0.0	2.9	-2.9
11	400 kV	BIHARSHARIFF-BALIA	2	588	74	4.8	0.0	4.8
12	400 kV	MOTIHARI-GORAKHPUR	2	298	383	0.0	3.0	-3.0
13	400 kV	BIHARSHARIFF-VARANASI	2	193	132	0.0	0.4	-0.4
14	220 kV	SAHUPURI-KARAMNANA	1	26	92	0.0	1.0	-1.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.9	0.0	0.9
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	8.2	38.8	-30.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1500	0	20.5	0.0	20.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	690	534	2.0	0.0	2.0
3	765 kV	JHARSUGUDA-DURG	2	0	825	0.0	15.2	-15.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	431	0.0	5.7	-5.7
5	400 kV	RANCHI-SIPAT	2	165	202	0.0	0.6	-0.6
6	220 kV	BUDHIPADAR-RAIGARH	1	94	75	0.5	0.0	0.5
7	220 kV	BUDHIPADAR-KORBA	2	0	2	0.0	0.0	0.0
					ER-WR	22.9	21.5	1.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	623	0.0	14.8	-14.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1492	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2762	0.0	55.6	-55.6
4	400 kV	TALCHER-I/C	2	121	73	0.6	0.0	0.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	106.5	-106.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	197	323	1.1	2.4	-1.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	379	384	0.2	0.0	0.2
3	220 kV	ALIPURDUAR-SALAKATI	2	26	45	0.0	0.2	-0.2
					ER-NER	1.3	2.6	-1.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	659	0	12.0	0.0	12.0
					NER-NR	12.0	0.0	12.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2025	0.0	41.8	-41.8
2	HVDC	VINDHYACHAL B/B	-	570	0	9.5	0.0	9.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	788	0.0	19.4	-19.4
4	765 kV	GWALIOR-AGRA	2	90	1780	0.0	20.5	-20.4
5	765 kV	GWALIOR-PHAGI	2	798	1140	3.0	12.8	-9.8
6	765 kV	JABALPUR-ORAI	2	281	702	0.0	13.1	-13.1
7	765 kV	GWALIOR-ORAI	1	606	0	9.1	0.0	9.1
8	765 kV	SATNA-ORAI	1	0	1041	0.0	20.6	-20.6
9	765 kV	BANASKANTHA-CHITTOGARH	2	2072	174	17.0	0.2	16.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2615	0.0	43.4	-43.4
11	400 kV	ZERDA-KANKROLI	1	428	0	4.9	0.0	4.9
12	400 kV	ZERDA-BHINMAL	1	427	0	4.9	0.0	4.9
13	400 kV	VINDHYACHAL-RIHAND	1	973	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	767	151	5.4	0.4	5.0
15	400 kV	NEEMUCH-Chittorgarh	2	830	164	5.6	0.4	5.1
16	220 kV	BHANPURA-RANPUR	1	0	134	0.0	2.5	-2.5
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
18	220 kV	MEHGAON-AURAIYA	1	63	0	0.9	0.0	0.9
19	220 kV	MALANPUR-AURAIYA	1	49	1	0.6	0.0	0.6
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	82.8	176.6	-93.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	21.4	-21.4
2	HVDC	RAIGARH-PUGALUR	2	0	6024	0.0	114.1	-114.1
3	765 kV	SOLAPUR-RAICHUR	2	0	1786	0.0	22.0	-22.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2594	0.0	46.3	-46.3
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2931	0.0	54.5	-54.5
6	400 kV	KOLHAPUR-KUDGI	2	1159	0	15.3	0.0	15.3
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	75	0.0	1.6	-1.6
9	220 kV	XELDEM-AMBEWADI	1	0	128	2.5	0.0	2.5
					WR-SR	17.7	259.9	-242.2

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)	-170	165	-47	-1.12	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-329	129	-104	-2.50	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-203	-44	-129	-3.08	
	NER	132kV GELEPHU-SALAKATI	-12	11	0	-0.01	
	NER	132kV MOTANGA-RANGIA	30	9	19	0.45	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	1.26	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-54	-1.30	
	ER	NEPAL IMPORT (FROM BIHAR)	-341	-3	-144	-3.47	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-502	-18	-285	-6.85	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-950	-808	-947	-22.73	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1031	-800	-848	-20.35	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-104	0	-88	-2.10	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 11-Apr-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	5.83	0.00	0.00	1.28	0.00	0.00	7.11
Nepal	0.19	0.00	6.36	0.00	0.00	0.00	0.00	0.00	6.55
Bangladesh	22.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.71
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.90	0.00	12.19	0.00	0.00	1.28	0.00	0.00	36.37

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36
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	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36

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	0.36	0.00	-5.83	0.00	0.00	-1.28	0.00	0.00	-6.75
Nepal	-0.19	0.00	-6.36	0.00	0.00	0.00	0.00	0.00	-6.55
Bangladesh	-22.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.71
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-22.54	0.00	-12.19	0.00	0.00	-1.28	0.00	0.00	-36.01