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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 08th April 2024

To,

1. कार्यकारी निदेशक, पू.क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. 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
3. 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
4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
   Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. 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 07.04.2024.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-अप्रैल-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 07th April 2024, is available at the NLDC website.

धन्यवाद,

ग्रिड कंट्रलर ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day **Date of Reporting: 08-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)	53488	60789	50474	23968	2604	191323
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1153	1529	1343	574	51	4649
Hydro Gen (MU)	127	36	49	18	15	245
Wind Gen (MU)	7	89	52	-	-	149
Solar Gen (MU)*	163.97	81.20	134.94	2.24	1.10	383
Energy Shortage (MU)	0.03	0.36	0.00	0.10	0.00	0.49
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54757	67050	61531	28451	2763	204312
Time Of Maximum Demand Met	19:37	11:03	14:53	00:00	18:50	00:00

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	0.030	0.00	0.21	2.25	2.45	80.07	17.47

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	6883	0	148.8	44.4	-0.5	216	0.00
	Haryana	6630	0	132.2	81.3	-2.6	300	0.00
	Rajasthan	12783	0	262.4	49.0	-2.2	150	0.00
	Delhi	3757	0	82.1	73.9	0.1	141	0.00
	UP	20767	0	396.0	134.9	-2.9	487	0.00
	Uttarakhand	1845	0	39.1	24.4	-0.2	115	0.03
	HP	1594	0	30.5	18.1	0.1	103	0.00
	J&K(UT) & Ladakh(UT)	2646	0	54.5	45.0	-0.5	594	0.00
	Chandigarh	192	0	3.6	3.7	-0.1	12	0.00
	Railways_NR ISTS	193	0	4.0	3.8	0.2	41	0.00
WR	Chhattisgarh	6159	0	134.8	87.1	-2.0	425	0.36
	Gujarat	20529	0	441.0	156.7	-1.1	707	0.00
	MP	12645	0	264.4	143.9	-5.6	370	0.00
	Maharashtra	26392	0	612.7	208.9	-1.8	705	0.00
	Goa	689	0	15.3	10.6	4.4	39	0.00
	DNHDDPDCL	1213	0	28.0	28.1	-0.1	35	0.00
	AMNSIL	887	0	20.2	7.6	0.2	264	0.00
	BALCO	525	0	12.5	12.6	-0.1	10	0.00
SR	Andhra Pradesh	12830	0	244.7	80.2	-1.1	522	0.00
	Telangana	12756	0	267.5	151.9	-0.1	818	0.00
	Karnataka	15565	0	316.3	137.3	1.0	661	0.00
	Kerala	5412	0	103.4	81.3	1.5	311	0.00
	Tamil Nadu	18112	0	400.8	257.9	-6.3	472	0.00
	Puducherry	453	0	10.3	9.8	-0.1	39	0.00
ER	Bihar	5915	0	123.9	114.7	-1.5	159	0.10
	DVC	3255	0	73.0	-38.8	0.4	307	0.00
	Jharkhand	1977	0	39.1	29.9	-3.0	202	0.00
	Odisha	6132	0	128.9	54.6	-2.3	377	0.00
	West Bengal	11140	0	207.3	80.2	-4.2	279	0.00
	Sikkim	83	0	1.6	1.6	0.0	26	0.00
	Railways_ER ISTS	11	0	0.2	0.1	0.0	8	0.00
NER	Arunachal Pradesh	176	0	2.8	2.8	-0.1	65	0.00
	Assam	1703	0	31.6	24.0	1.0	194	0.00
	Manipur	163	0	2.3	2.8	-0.4	23	0.00
	Meghalaya	308	0	5.5	4.4	-0.2	104	0.00
	Mizoram	107	0	1.5	1.7	-0.5	18	0.00
	Nagaland	142	0	2.1	2.3	-0.2	13	0.00
	Tripura	269	0	5.1	5.4	0.1	74	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-2.6	-12.1	-24.2	-33.5
Day Peak (MW)	-441.2	-792.3	-1070.0	-1430.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	71.3	-334.9	324.9	-63.2	1.9	0.0
Actual(MU)	64.0	-332.8	327.6	-66.9	1.8	-6.4
O/D/U/D(MU)	-7.4	2.1	2.7	-3.7	-0.1	-6.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4338	6560	4878	3106	176	19057	51
State Sector	3926	9277	2508	2642	150	18502	49
Total	8263	15836	7386	5748	326	37558	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	783	1651	709	715	15	3873	77
Lignite	24	19	64	0	0	107	2
Hydro	127	36	49	18	15	245	5
Nuclear	31	60	51	0	0	142	3
Gas, Naptha & Diesel	17	44	6	0	25	92	2
RES (Wind, Solar, Biomass & Others)	190	172	221	3	1	587	12
Total	1173	1982	1100	736	56	5046	100

Share of RES in total generation (%)	16.23	8.66	20.05	0.44	1.97	11.64
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.75	13.55	29.22	2.53	28.81	19.30

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.050
Based on State Max Demands	1.090

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	201046	10:54	0
Non-Solar hr	204312	0:00	546

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: 08-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	-	0	49	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	568	464	0.0	0.2	-0.2
4	765 kV	SASARAM-FATEHPUR	1	121	345	0.0	3.8	-3.8
5	765 kV	GAYA-BALIA	1	0	533	0.0	8.7	-8.7
6	400 kV	PUSAULI-VARANASI	1	0	96	0.0	1.5	-1.5
7	400 kV	PUSAULI -ALLAHABAD	1	49	29	0.3	0.0	0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	595	436	2.1	0.0	2.1
9	400 kV	PATNA-BALIA	2	150	656	0.0	6.4	-6.4
10	400 kV	NAUBATPUR-BALIA	2	140	198	0.0	0.4	-0.4
11	400 kV	BIHARSHARIFF-BALIA	2	352	102	3.8	0.0	3.8
12	400 kV	MOTIHARI-GORAKHPUR	2	262	327	0.0	1.7	-1.7
13	400 kV	BIHARSHARIFF-VARANASI	2	160	117	0.4	0.0	0.4
14	220 kV	SAHUPURI-KARAMNASA	1	35	114	0.0	1.1	-1.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.8	0.0	0.8
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	7.3	25.1	-17.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1589	0	27.2	0.0	27.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	811	811	4.6	0.0	4.6
3	765 kV	JHARSUGUDA-DURG	2	0	853	0.0	13.4	-13.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	540	0.0	9.3	-9.3
5	400 kV	RANCHI-SIPAT	2	113	287	0.0	0.7	-0.7
6	220 kV	BUDHIPADAR-RAIGARH	1	73	66	1.6	0.1	1.5
7	220 kV	BUDHIPADAR-KORBA	2	0	1	0.0	0.0	0.0
					ER-WR	33.4	23.5	9.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	678	0.0	11.5	-11.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1485	0.0	27.9	-27.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	3045	0.0	57.5	-57.5
4	400 kV	TALCHER-I/C	2	703	835	0.0	5.4	-5.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	96.9	-96.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	419	0	4.1	0.0	4.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	791	0	9.4	0.0	9.4
3	220 kV	ALIPURDUAR-SALAKATI	2	64	0	0.9	0.0	0.9
					ER-NER	14.3	0.0	14.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	664	0	16.1	0.0	16.1
					NER-NR	16.1	0.0	16.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2136	0.0	48.3	-48.3
2	HVDC	VINDHYACHAL B/B	-	259	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	980	0.0	17.5	-17.5
4	765 kV	GWALIOR-AGRA	2	579	1422	1.4	13.4	-12.0
5	765 kV	GWALIOR-PHAGI	2	1338	895	7.3	7.2	0.1
6	765 kV	JABALPUR-ORAI	2	476	531	0.0	4.2	-4.2
7	765 kV	GWALIOR-ORAI	1	598	0	8.7	0.0	8.7
8	765 kV	SATNA-ORAI	1	0	950	0.0	16.5	-16.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1993	158	18.8	0.0	18.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2223	0.0	38.2	-38.2
11	400 kV	ZERDA-KANKROLI	1	406	0	4.3	0.0	4.3
12	400 kV	ZERDA -BHINMAL	1	406	0	4.3	0.0	4.3
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	966	42	9.2	0.0	9.2
15	400 kV	NEEMUCH-Chittorgarh	2	97	0	0.1	0.0	0.1
16	220 kV	BHANPURA-RANPUR	1	0	137	0.0	2.5	-2.5
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6
18	220 kV	MEHGAON-AURAIYA	1	104	0	1.3	0.0	1.3
19	220 kV	MALANPUR-AURAIYA	1	82	0	0.8	0.0	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	84.1	149.4	-65.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1011	0.0	23.9	-23.9
2	HVDC	RAIGARH-PUGALUR	2	0	6022	0.0	100.3	-100.3
3	765 kV	SOLAPUR-RAICHUR	2	0	2021	0.0	30.1	-30.1
4	765 kV	WARDHA-NIZAMABAD	2	0	3361	0.0	59.2	-59.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3255	0.0	59.6	-59.6
6	400 kV	KOLHAPUR-KUDGI	2	927	0	13.0	0.0	13.0
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	82	0.0	1.4	-1.4
9	220 kV	XELDEM-AMBEWADI	1	0	123	2.4	0.0	2.4
					WR-SR	15.4	274.4	-259.0

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)	112	-78	38	0.90
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-245	146	-7	-0.16
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-228	-91	-149	-3.58
	NER	132kV GELEPHU-SALAKATI	-18	2	-7	-0.16
	NER	132kV MOTANGA-RANGIA	36	5	15	0.36
NEPAL	NR	NEPAL IMPORT (FROM UP)	-71	0	-23	-0.55
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-47	-1.13
	ER	NEPAL IMPORT (FROM BIHAR)	-328	-4	-150	-3.61
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-464	-32	-284	-6.81
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-946	-797	-903	-21.66
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1430	-1306	-1395	-33.48
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-124	0	-107	-2.56

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 08-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	4.35	0.00	0.00	0.00	0.00	0.00	4.35
Nepal	0.18	0.00	6.35	0.00	0.00	0.00	0.00	0.00	6.53
Bangladesh	21.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.53
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.71	0.00	10.70	0.00	0.00	0.00	0.00	0.00	32.41

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98
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	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98

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	0.98	0.00	-4.35	0.00	0.00	0.00	0.00	0.00	-3.37
Nepal	-0.18	0.00	-6.35	0.00	0.00	0.00	0.00	0.00	-6.53
Bangladesh	-21.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.53
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-20.73	0.00	-10.70	0.00	0.00	0.00	0.00	0.00	-31.43