



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: 30th March 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., डोंगतेिह, 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 29.03.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-मार्च -2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड 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 29th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 30-Mar-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 19:00 hrs; from RLDCs)	54944	65061	52942	25559	2805	201311
Peak Shortage (MW)	0	0	0	267	0	267
Energy Met (MU)	1216	1580	1390	564	52	4803
Hydro Gen (MU)	154	37	54	19	11	275
Wind Gen (MU)	25	92	36	-	-	152
Solar Gen (MU)*	153.23	76.83	134.98	2.92	1.15	369
Energy Shortage (MU)	0.09	0.00	0.00	1.45	0.00	1.54
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56179	71739	66641	26192	2902	219734
Time Of Maximum Demand Met	10:27	11:28	11:47	19:02	18:33	11:42

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	0.036	0.00	0.17	6.53	6.70	77.94	15.36

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	7485	0	155.3	41.9	-0.4	191	0.00
	Haryana	6912	0	149.8	105.9	-3.0	132	0.00
	Rajasthan	14022	0	287.9	65.6	-3.3	256	0.00
	Delhi	4177	0	84.3	75.1	0.5	240	0.00
	UP	19125	0	402.7	124.8	-0.9	219	0.00
	Uttarakhand	2046	0	43.2	29.4	0.8	125	0.00
	HP	1696	0	31.3	19.3	-0.1	62	0.00
	J&K(UT) & Ladakh(UT)	2760	0	54.0	42.0	0.6	514	0.09
	Chandigarh	215	0	4.0	3.8	0.2	42	0.00
Railways NR ISTS	197	0	3.8	3.6	0.2	28	0.00	
WR	Chhattisgarh	6148	0	139.8	77.4	-1.1	202	0.00
	Gujarat	21843	0	463.1	186.5	-3.5	543	0.00
	MP	12755	0	265.7	140.3	-3.7	561	0.00
	Maharashtra	28179	0	634.6	225.1	-5.0	648	0.00
	Goa	724	0	16.0	12.8	3.0	52	0.00
	DNHDDPDCL	1263	0	29.4	29.4	0.0	41	0.00
	AMNSIL	899	0	19.3	8.4	0.2	262	0.00
	BALCO	523	0	12.5	12.6	-0.1	6	0.00
SR	Andhra Pradesh	12806	0	241.5	73.5	-1.1	513	0.00
	Telangana	14558	0	293.1	160.1	1.1	860	0.00
	Karnataka	16520	0	330.9	163.7	1.4	966	0.00
	Kerala	5040	0	97.2	76.4	1.1	319	0.00
	Tamil Nadu	19204	0	417.2	259.7	0.5	615	0.00
	Puducherry	457	0	10.5	10.1	-0.3	44	0.00
ER	Bihar	5489	0	106.6	95.3	-0.8	226	0.00
	DVC	3473	0	74.4	-40.9	-0.5	257	0.00
	Jharkhand	1753	0	39.1	28.2	-1.2	230	1.45
	Odisha	5879	0	129.8	52.1	-0.2	377	0.00
	West Bengal	9790	0	212.5	60.9	1.1	543	0.00
	Sikkim	103	0	1.7	1.7	0.0	32	0.00
Railways ER ISTS	10	0	0.1	0.1	0.0	10	0.00	
NER	Arunachal Pradesh	177	0	3.0	2.9	0.0	40	0.00
	Assam	1732	0	31.4	24.4	0.3	123	0.00
	Manipur	202	0	3.0	3.0	0.0	28	0.00
	Meghalaya	343	0	5.7	4.5	-0.2	76	0.00
	Mizoram	108	0	1.8	1.6	-0.1	29	0.00
	Nagaland	142	0	2.3	2.2	-0.1	18	0.00
Tripura	256	0	4.3	4.6	0.0	53	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-6.6	-11.6	-24.5	-22.8
Day Peak (MW)	-493.0	-521.0	-1074.0	-1029.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	79.3	-276.5	283.1	-90.9	5.1	0.1
Actual(MU)	70.4	-274.1	294.0	-102.9	4.7	-8.0
O/D/U/D(MU)	-8.9	2.4	10.9	-12.0	-0.4	-8.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6380	10066	3868	3542	226	24081	55
State Sector	7036	7965	1533	2729	170	19433	45
Total	13416	18031	5401	6271	396	43514	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	808	1664	809	728	16	4026	77
Lignite	27	19	70	0	0	116	2
Hydro	153	36	54	19	10	272	5
Nuclear	27	58	52	0	0	137	3
Gas, Naptha & Diesel	10	47	7	0	25	89	2
RES (Wind, Solar, Biomass & Others)	198	172	197	4	1	572	11
Total	1224	1996	1187	751	52	5211	100

Share of RES in total generation (%)	16.17	8.60	16.56	0.55	2.17	10.97
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.98	13.34	25.48	3.09	22.02	18.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.042

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	219734	11:42	111
Non-Solar hr	202722	19:13	267

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-Mar-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	48	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	243	594	0.0	4.3	-4.3
4	765 kV	SASARAM-FATEHPUR	1	0	331	0.0	7.2	-7.2
5	765 kV	GAYA-BALIA	1	0	571	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	1	0	83	0.0	1.3	-1.3
7	400 kV	PUSAULI-ALLAHABAD	1	36	32	0.2	0.0	0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	213	376	0.0	2.0	-2.0
9	400 kV	PATNA-BALIA	2	0	369	0.0	8.0	-8.0
10	400 kV	NAUBATPUR-BALIA	2	15	176	0.0	2.0	-2.0
11	400 kV	BIHARSHARIFF-BALIA	2	197	63	1.3	0.0	1.3
12	400 kV	MOTIHARI-GORAKHPUR	2	17	326	0.0	3.7	-3.7
13	400 kV	BIHARSHARIFF-VARANASI	2	182	65	0.8	0.0	0.8
14	220 kV	SAHUPURI-KARAMNANA	1	5	67	0.0	0.8	-0.8
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	0	0	0.0	0.0	0.0
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	2.3	38.3	-36.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1440	0	22.7	0.0	22.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	675	784	0.0	9.5	-9.5
3	765 kV	JHARSUGUDA-DURG	2	0	870	0.0	15.8	-15.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	543	0.0	8.9	-8.9
5	400 kV	RANCHI-SIPAT	2	104	260	0.0	2.5	-2.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	132	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	86	12	0.8	0.0	0.8
					ER-WR	23.6	38.6	-15.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	593	0.0	14.1	-14.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1496	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2682	0.0	54.6	-54.6
4	400 kV	TALCHER-I/C	2	410	216	5.0	0.0	5.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	104.8	-104.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	161	5	2.0	0.1	1.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	690	99	7.7	0.0	7.7
3	220 kV	ALIPURDUAR-SALAKATI	2	90	29	1.1	0.0	1.1
					ER-NER	10.7	0.1	10.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	657	0	15.5	0.0	15.5
					NER-NR	15.5	0.0	15.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2266	0.0	36.2	-36.2
2	HVDC	VINDHYACHAL B/B	-	256	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	595	0.0	14.6	-14.6
4	765 kV	GWALIOR-AGRA	2	262	1771	0.1	13.5	-13.3
5	765 kV	GWALIOR-PHAGI	2	1000	1121	4.7	8.8	-4.2
6	765 kV	JABALPUR-ORAI	2	175	721	0.0	7.5	-7.5
7	765 kV	GWALIOR-ORAI	1	628	0	10.2	0.0	10.2
8	765 kV	SATNA-ORAI	1	0	949	0.0	16.6	-16.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1920	161	18.2	0.0	18.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2591	0.0	36.6	-36.6
11	400 kV	ZERDA-KANKROLI	1	387	0	7.2	0.0	7.2
12	400 kV	ZERDA -BHINMAL	1	381	0	4.5	0.0	4.5
13	400 kV	VINDHYACHAL -RIHAND	1	973	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	766	296	7.6	0.6	7.0
15	220 kV	BHANPURA-RANPUR	1	0	134	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
17	220 kV	MEHGAON-AURAIYA	1	98	15	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	69	24	0.7	0.0	0.7
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	82.4	138.1	-55.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	21.2	-21.2
2	HVDC	RAIGARH-PUGALUR	2	0	5509	0.0	97.6	-97.6
3	765 kV	SOLAPUR-RAICHUR	2	0	1948	0.0	26.3	-26.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2926	0.0	52.9	-52.9
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2855	0.0	55.0	-55.0
6	400 kV	KOLHAPUR-KUDGI	2	985	0	17.0	0.0	17.0
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	125	2.6	0.0	2.6
					WR-SR	19.5	253.0	-233.5

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)	-181	92	-47	-1.13
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-256	143	-51	-1.22
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-229	-119	-175	-4.19
	NER	132kV GELEPHU-SALAKATI	23	0	-12	-0.29
	NER	132kV MOTANGA-RANGIA	34	0	10	0.25
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.89
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-44	-1.05
	ER	NEPAL IMPORT (FROM BIHAR)	-187	-3	-101	-2.43
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-334	-125	-300	-7.21
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-938	-794	-907	-21.77
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1029	-804	-952	-22.85
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-136	0	-115	-2.75

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 30-Mar-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	7.49	0.00	0.00	0.00	0.00	0.00	0.00	7.49
Nepal	0.23	0.00	8.09	0.00	0.00	0.00	0.00	0.00	0.00	8.32
Bangladesh	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.70
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.93	0.00	15.58	0.00	0.00	0.00	0.00	0.00	0.00	37.51

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL	
		BILATERAL TOTAL	COLLECTIVE							
			IDAM			RTM				
			IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12
Bangladesh	0.00	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	0.00
Total Import	0.63	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.75

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	0.63	0.00	-7.49	0.00	0.00	0.00	0.00	0.00	0.00	-6.86
Nepal	-0.23	0.00	-8.09	0.00	0.00	0.00	0.12	0.00	0.00	-8.20
Bangladesh	-21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.70
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-21.30	0.00	-15.58	0.00	0.00	0.00	0.12	0.00	0.00	-36.76