

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: 31st 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 30.03.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-मार्च -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 30th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 31-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)	56198	64045	52603	26731	2897	202474
Peak Shortage (MW)	0	0	0	269	0	269
Energy Met (MU)	1170	1552	1378	582	53	4735
Hydro Gen (MU)	157	27	47	22	12	265
Wind Gen (MU)	39	95	38	-	-	172
Solar Gen (MU)*	162.00	82.69	140.20	2.55	0.87	388
Energy Shortage (MU)	0.10	0.00	0.00	1.28	0.00	1.38
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56657	69629	65669	27094	2925	213485
Time Of Maximum Demand Met	19:22	11:02	11:46	19:22	18:29	11:30

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	1.77	1.77	84.20	14.03

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	6651	0	126.1	31.2	-1.3	281	0.00
	Haryana	6915	0	142.8	109.4	-0.4	187	0.00
	Rajasthan	13426	0	283.1	55.1	-3.3	378	0.00
	Delhi	4040	0	84.8	75.9	0.4	265	0.00
	UP	20763	0	407.9	130.4	0.2	296	0.00
	Uttarakhand	1966	0	40.0	27.6	-0.6	179	0.00
	HP	1322	0	26.0	14.2	-0.7	103	0.10
	J&K(UT) & Ladakh(UT)	2705	0	51.2	39.7	-2.3	150	0.00
	Chandigarh	205	0	3.8	3.6	0.1	41	0.00
Railways NR ISTS	194	0	3.9	3.7	0.2	32	0.00	
WR	Chhattisgarh	6110	0	142.1	76.9	0.7	275	0.00
	Gujarat	21639	0	456.6	170.0	-3.0	764	0.00
	MP	11935	0	256.6	130.6	-4.2	596	0.00
	Maharashtra	27655	0	620.2	224.8	-7.1	618	0.00
	Goa	747	0	15.9	12.7	2.9	33	0.00
	DNHDDPDCL	1220	0	28.6	29.1	-0.5	23	0.00
	AMNSIL	899	0	19.3	7.6	1.0	275	0.00
	BALCO	523	0	12.5	12.6	-0.1	6	0.00
SR	Andhra Pradesh	12590	0	241.0	78.4	-0.7	595	0.00
	Telangana	14199	0	289.1	161.2	-0.5	608	0.00
	Karnataka	16348	0	327.4	158.2	-3.3	743	0.00
	Kerala	4977	0	101.6	81.5	0.9	335	0.00
	Tamil Nadu	18914	0	409.3	248.0	-2.1	550	0.00
	Puducherry	426	0	10.1	9.9	-0.3	31	0.00
ER	Bihar	5758	0	111.0	99.8	-0.3	258	0.00
	DVC	3393	0	76.3	-40.5	0.1	305	0.00
	Jharkhand	1893	0	39.0	29.2	-1.9	226	1.28
	Odisha	5838	0	132.5	63.6	0.5	297	0.00
	West Bengal	10188	0	221.3	69.9	-0.5	372	0.00
	Sikkim	99	0	1.7	1.8	-0.1	8	0.00
Railways ER ISTS	17	0	0.2	0.1	0.1	8	0.00	
NER	Arunachal Pradesh	169	0	2.8	3.0	-0.3	39	0.00
	Assam	1782	0	32.7	26.3	0.2	156	0.00
	Manipur	192	0	3.2	3.2	0.0	26	0.00
	Meghalaya	319	0	6.0	5.0	-0.3	71	0.00
	Mizoram	129	0	1.9	1.8	-0.3	20	0.00
	Nagaland	156	0	2.3	2.4	-0.2	14	0.00
Tripura	226	0	4.2	4.5	0.1	45	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-4.4	-11.3	-24.9	-23.9
Day Peak (MW)	-447.0	-467.0	-1093.0	-1032.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	64.5	-281.6	285.2	-74.7	6.6	0.0
Actual(MU)	61.6	-280.5	302.1	-96.4	5.9	-7.2
O/D/U/D(MU)	-2.9	1.1	17.0	-21.7	-0.7	-7.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5868	10331	3868	3542	146	23754	56
State Sector	6826	6300	2675	2897	170	18867	44
Total	12694	16631	6543	6438	316	42621	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	750	1646	788	742	16	3941	77
Lignite	26	17	71	0	0	114	2
Hydro	157	27	47	22	12	265	5
Nuclear	10	53	52	0	0	115	2
Gas, Naptha & Diesel	10	43	4	0	25	83	2
RES (Wind, Solar, Biomass & Others)	220	181	201	4	1	607	12
Total	1174	1967	1163	768	54	5125	100

Share of RES in total generation (%)	18.77	9.22	17.24	0.49	1.50	11.85
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.12	13.29	25.80	2.61	24.28	19.21

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.039
Based on State Max Demands	1.061

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	213485	11:30	0
Non-Solar hr	203223	19:25	269

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: 31-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	49	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	425	719	0.0	6.6	-6.6
4	765 kV	SASARAM-FATEHPUR	1	138	408	0.0	4.3	-4.3
5	765 kV	GAYA-BALIA	1	0	598	0.0	8.0	-8.0
6	400 kV	PUSAULI-VARANASI	1	0	104	0.0	1.4	-1.4
7	400 kV	PUSAULI-ALLAHABAD	1	55	25	0.3	0.0	0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	336	303	0.0	0.5	-0.5
9	400 kV	PATNA-BALIA	2	42	382	0.0	9.3	-9.3
10	400 kV	NAUBATPUR-BALIA	2	51	182	0.0	2.6	-2.6
11	400 kV	BIHARSHARIFF-BALIA	2	340	18	3.0	0.0	3.0
12	400 kV	MOTIHARI-GORAKHPUR	2	82	293	0.0	3.8	-3.8
13	400 kV	BIHARSHARIFF-VARANASI	2	302	84	1.1	0.0	1.1
14	220 kV	SAHUPURI-KARAMNANA	1	9	101	0.0	1.0	-1.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.1	-0.1
16	132 kV	GARWAH-RIHAND	1	30	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-CHANDALI	1	0	0	0.0	0.0	0.0
					ER-NR	4.4	38.8	-34.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1716	0	27.3	0.0	27.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	538	822	0.0	10.5	-10.5
3	765 kV	JHARSUGUDA-DURG	2	0	885	0.0	15.4	-15.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	517	0.0	8.2	-8.2
5	400 kV	RANCHI-SIPAT	2	34	259	0.0	3.3	-3.3
6	220 kV	BUDHIPADAR-RAIGARH	1	39	125	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	115	1	1.3	0.0	1.3
					ER-WR	28.6	38.4	-9.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	593	0.0	14.5	-14.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1492	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2820	0.0	57.6	-57.6
4	400 kV	TALCHER-I/C	2	404	0	8.4	0.0	8.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	108.2	-108.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	312	127	2.6	0.3	2.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	581	54	7.2	0.0	7.2
3	220 kV	ALIPURDUAR-SALAKATI	2	76	19	0.9	0.0	0.9
					ER-NER	10.6	0.3	10.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	660	0	15.9	0.0	15.9
					NER-NR	15.9	0.0	15.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2257	0.0	39.5	-39.5
2	HVDC	VINDHYACHAL B/B	-	258	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	595	0.0	14.6	-14.6
4	765 kV	GWALIOR-AGRA	2	638	1645	3.1	9.5	-6.4
5	765 kV	GWALIOR-PHAGI	2	1247	970	7.2	10.2	-3.0
6	765 kV	JABALPUR-ORAI	2	400	698	0.0	3.2	-3.2
7	765 kV	GWALIOR-ORAI	1	602	0	9.4	0.0	9.4
8	765 kV	SATNA-ORAI	1	0	936	0.0	15.4	-15.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1872	400	19.3	0.7	18.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2404	0.0	33.9	-33.9
11	400 kV	ZERDA-KANKROLI	1	368	57	4.3	0.1	4.2
12	400 kV	ZERDA -BHINMAL	1	367	56	4.3	0.1	4.2
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUALPUR	2	689	299	6.1	1.0	5.2
15	220 kV	BHANPURA-RANPUR	1	0	132	0.0	2.5	-2.5
16	220 kV	BHANPURA-MORAK	1	0	30	0.2	1.6	-1.4
17	220 kV	MEHGAON-AURAIYA	1	99	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	74	8	0.8	0.0	0.8
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	83.8	132.0	-48.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	19.1	-19.1
2	HVDC	RAIGARH-PUGALUR	2	0	6015	0.0	96.1	-96.1
3	765 kV	SOLAPUR-RAICHUR	2	0	1852	0.0	27.2	-27.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2987	0.0	57.3	-57.3
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2961	0.0	58.9	-58.9
6	400 kV	KOLHAPUR-KUDGI	2	892	0	14.0	0.0	14.0
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	133	2.5	0.0	2.5
					WR-SR	16.6	258.6	-242.1

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)	-168	119	38	0.90
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-234	175	-49	-1.19
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-216	-115	-169	-4.05
	NER	132kV GELEPHU-SALAKATI	-21	-1	-11	-0.26
	NER	132kV MOTANGA-RANGIA	42	2	10	0.25
NEPAL	NR	NEPAL IMPORT (FROM UP)	-63	0	-50	-1.21
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-63	0	-42	-1.00
	ER	NEPAL IMPORT (FROM BIHAR)	-92	-63	-87	-2.09
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-375	-201	-293	-7.02
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-940	-793	-910	-21.84
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1032	-809	-995	-23.89
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-153	0	-128	-3.06

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 31-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	7.61	0.00	0.00	0.00	0.00	0.00	7.61
Nepal	0.27	0.00	7.31	0.00	0.00	0.61	0.00	0.00	8.19
Bangladesh	21.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.73
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.00	0.00	14.92	0.00	0.00	0.61	0.00	0.00	37.53

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
IEX	PXIL	HPX	IEX	PXIL	HPX				
Bhutan	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27
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	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27

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	1.27	0.00	-7.61	0.00	0.00	0.00	0.00	0.00	-6.34
Nepal	-0.27	0.00	-7.31	0.00	0.00	-0.61	0.00	0.00	-8.19
Bangladesh	-21.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.73
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	-14.92	0.00	0.00	-0.61	0.00	0.00	-36.26