



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: 26th 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., 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 25.03.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 25-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 25th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 26-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)	42042	52025	49168	19689	2431	165355
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	958	1303	1302	451	46	4059
Hydro Gen (MU)	131	25	39	16	11	222
Wind Gen (MU)	6	63	47	-	-	116
Solar Gen (MU)*	142.93	84.90	133.42	3.21	1.15	366
Energy Shortage (MU)	0.00	0.00	0.00	0.13	0.00	0.13
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	44156	58225	62820	20592	2511	182600
Time Of Maximum Demand Met	09:25	00:40	11:11	18:34	18:27	10:55

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	0.041	0.00	0.82	5.79	6.61	81.45	11.94

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	5729	0	124.9	48.7	-0.6	214	0.00
	Haryana	4772	0	100.0	76.4	-1.7	166	0.00
	Rajasthan	12295	0	239.3	56.0	-1.7	358	0.00
	Delhi	2682	0	55.7	47.1	0.2	137	0.00
	UP	15026	0	330.2	107.7	-1.1	235	0.00
	Uttarakhand	1380	0	26.7	16.6	0.3	120	0.00
	HP	1228	0	21.8	12.8	-1.3	0	0.00
	J&K(UT) & Ladakh(UT)	2587	0	52.8	44.8	-1.2	137	0.00
	Chandigarh	153	0	2.8	3.4	-0.6	4	0.00
Railways NR ISTS	192	0	4.0	3.8	0.2	38	0.00	
WR	Chhattisgarh	5219	0	108.2	48.9	-0.9	320	0.00
	Gujarat	15632	0	328.3	169.1	-3.2	592	0.00
	MP	11720	0	240.9	136.7	-4.4	410	0.00
	Maharashtra	24208	0	561.0	185.7	-1.4	681	0.00
	Goa	599	0	13.7	10.7	2.6	55	0.00
	DNHDDPDCL	1137	0	18.5	18.6	-0.1	62	0.00
	AMNSIL	874	0	19.4	9.0	0.0	278	0.00
	BALCO	522	0	12.5	12.6	-0.1	4	0.00
SR	Andhra Pradesh	12274	0	226.7	82.7	-1.8	695	0.00
	Telangana	13542	0	272.9	160.4	-1.3	585	0.00
	Karnataka	16272	0	318.1	158.3	-4.8	369	0.00
	Kerala	5115	0	101.7	87.5	1.0	209	0.00
	Tamil Nadu	17711	0	373.5	233.9	-7.5	358	0.00
	Puducherry	380	0	8.9	8.7	-0.4	14	0.00
ER	Bihar	4509	0	87.3	81.1	0.3	381	0.13
	DVC	3074	0	63.3	-31.2	-0.3	293	0.00
	Jharkhand	1539	0	33.9	24.7	-2.8	188	0.00
	Odisha	5246	0	113.3	43.0	-0.5	277	0.00
	West Bengal	7361	0	151.9	23.1	-3.0	278	0.00
	Sikkim	76	0	1.4	1.5	-0.2	22	0.00
Railways ER ISTS	12	0	0.1	0.1	0.0	0	0.00	
NER	Arunachal Pradesh	159	0	3.4	2.9	0.4	46	0.00
	Assam	1331	0	25.3	19.2	-0.2	63	0.00
	Manipur	205	0	3.1	3.2	-0.1	20	0.00
	Meghalaya	321	0	5.9	5.5	-0.2	27	0.00
	Mizoram	93	0	1.9	1.6	-0.2	6	0.00
	Nagaland	140	0	2.4	2.3	0.0	6	0.00
Tripura	264	0	3.9	4.0	0.4	94	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-6.6	-4.9	-23.7	-22.9
Day Peak (MW)	-373.0	-272.0	-1107.0	-1026.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	38.4	-255.4	338.0	-124.4	3.4	0.0
Actual(MU)	34.8	-248.4	353.7	-147.4	3.9	-3.3
O/D/U/D(MU)	-3.6	7.0	15.7	-23.0	0.6	-3.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5434	7864	3768	2797	226	20089	42
State Sector	8611	12433	3563	2757	170	27533	58
Total	14045	20296	7331	5554	396	47621	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	623	1391	661	669	13	3357	76
Lignite	27	20	67	0	0	114	3
Hydro	131	25	39	16	11	222	5
Nuclear	31	59	52	0	0	141	3
Gas, Naptha & Diesel	10	24	6	0	24	65	1
RES (Wind, Solar, Biomass & Others)	169	151	206	5	1	533	12
Total	991	1670	1032	690	49	4432	100

Share of RES in total generation (%)	17.03	9.06	20.00	0.73	2.37	12.02
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.37	14.06	28.82	3.08	24.59	20.22

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.071

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	182600	10:55	0
Non-Solar hr	170390	0:15	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: 26-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	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	494	927	0.0	8.6	-8.6
4	765 kV	SASARAM-FATEHPUR	1	124	446	0.0	5.1	-5.1
5	765 kV	GAYA-BALIA	1	4	542	0.0	6.5	-6.5
6	400 kV	PUSAULI-VARANASI	1	0	93	0.0	1.2	-1.2
7	400 kV	PUSAULI-ALLAHABAD	1	44	43	0.0	0.0	0.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	251	444	0.0	2.8	-2.8
9	400 kV	PATNA-BALIA	2	15	484	0.0	9.0	-9.0
10	400 kV	NAUBATPUR-BALIA	2	38	246	0.0	2.6	-2.6
11	400 kV	BIHARSHARIFF-BALIA	2	256	160	1.2	0.0	1.2
12	400 kV	MOTIHARI-GORAKHPUR	2	60	388	0.0	4.2	-4.2
13	400 kV	BIHARSHARIFF-VARANASI	2	217	246	0.0	0.4	-0.4
14	220 kV	SAHUPURI-KARAMNANA	1	16	76	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-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						1.2	42.3	-41.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	806	50	8.4	0.0	8.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1721	0.0	22.0	-22.0
3	765 kV	JHARSUGUDA-DURG	2	0	1221	0.0	23.1	-23.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	499	0.0	6.3	-6.3
5	400 kV	RANCHI-SIPAT	2	0	471	0.0	6.0	-6.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	148	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	103	0	1.2	0.0	1.2
ER-WR						9.6	59.3	-49.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	86	745	0.0	17.6	-17.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1496	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	3018	0.0	60.4	-60.4
4	400 kV	TALCHER-I/C	2	425	490	6.9	0.0	6.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	114.1	-114.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	2	6	2.5	0.0	2.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	743	0	9.3	0.0	9.3
3	220 kV	ALIPURDUAR-SALAKATI	2	108	0	1.5	0.0	1.5
ER-NER						13.4	0.0	13.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	660	0	16.2	0.0	16.2
NER-NR						16.2	0.0	16.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2514	0.0	58.6	-58.6
2	HVDC	VINDHYACHAL B/B	-	257	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	301	0.0	7.3	-7.3
4	765 kV	GWALIOR-AGRA	2	728	1053	5.2	4.1	1.1
5	765 kV	GWALIOR-PHAGI	2	1377	1050	5.9	11.2	-5.3
6	765 kV	JABALPUR-ORAI	2	485	403	4.3	0.0	4.3
7	765 kV	GWALIOR-ORAI	1	671	0	10.7	0.0	10.7
8	765 kV	SATNA-ORAI	1	0	886	0.0	14.9	-14.9
9	765 kV	BANASKANTHA-CHITORGARH	2	2016	0	30.8	0.0	30.8
10	765 kV	VINDHYACHAL-VARANASI	2	111	1579	0.0	20.7	-20.7
11	400 kV	ZERDA-KANKROLI	1	385	171	6.1	0.0	6.1
12	400 kV	ZERDA -BHINMAL	1	384	183	6.8	1.0	5.8
13	400 kV	VINDHYACHAL -RIHAND	1	967	0	18.7	0.0	18.7
14	400 kV	RAPP-SHUALPUR	2	918	87	9.2	0.1	9.1
15	220 kV	BHANPURA-RANPUR	1	0	91	0.0	1.5	-1.5
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
17	220 kV	MEHGAON-AURAIYA	1	111	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	78	1	1.1	0.0	1.1
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						106.7	120.0	-13.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	23.9	-23.9
2	HVDC	RAIGARH-PUGALUR	2	0	6620	0.0	124.6	-124.6
3	765 kV	SOLAPUR-RAICHUR	2	0	2251	0.0	31.2	-31.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3411	0.0	59.2	-59.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3354	0.0	58.0	-58.0
6	400 kV	KOLHAPUR-KUDGI	2	749	87	10.3	0.0	10.3
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	2	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	101	1.6	0.0	1.6
WR-SR						12.0	296.9	-284.9

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)	185	-101	-5	-0.11
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	237	-202	-71	-1.70
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-265	-40	-198	-4.74
	NER	132kV GELEPHU-SALAKATI	-21	0	-12	-0.28
	NER	132kV MOTANGA-RANGIA	21	0	11	0.27
NEPAL	NR	NEPAL IMPORT (FROM UP)	-50	0	0	0.00
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-50	0	-33	-0.79
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-272	-60	-171	-4.11
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-947	-513	-857	-20.58
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1026	-816	-954	-22.89
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-160	0	-132	-3.16

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 26-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	7.33	0.00	0.00	0.45	0.00	0.00	7.78
Nepal	0.24	0.00	4.52	0.00	0.00	0.17	0.00	0.00	4.93
Bangladesh	20.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.57
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	20.81	0.00	11.85	0.00	0.00	0.62	0.00	0.00	33.28

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48
Nepal	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.08
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	0.48	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.56

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	0.48	0.00	-7.33	0.00	0.00	-0.45	0.00	0.00	-7.30
Nepal	-0.24	0.00	-4.52	0.00	0.00	-0.09	0.00	0.00	-4.85
Bangladesh	-20.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.57
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-20.33	0.00	-11.85	0.00	0.00	-0.54	0.00	0.00	-32.72