

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: 28th 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 27.03.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 28-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)	52972	65150	52949	24150	2676	197897
Peak Shortage (MW)	0	0	0	443	0	443
Energy Met (MU)	1137	1544	1369	510	48	4609
Hydro Gen (MU)	132	31	59	23	15	260
Wind Gen (MU)	27	80	45	-	-	151
Solar Gen (MU)*	148.23	84.03	137.06	3.34	0.74	373
Energy Shortage (MU)	0.36	0.00	0.00	0.61	0.00	0.97
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54048	70339	65227	24936	2723	211199
Time Of Maximum Demand Met	19:12	11:12	10:24	19:27	18:36	10:45

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	0.049	0.00	1.01	10.44	11.45	73.08	15.47

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	7092	0	148.2	54.0	-0.6	215	0.00
	Haryana	6712	0	137.7	106.7	0.2	182	0.00
	Rajasthan	14043	0	280.9	73.7	-1.7	261	0.00
	Delhi	3892	0	77.5	68.5	0.6	270	0.00
	UP	18569	0	362.4	102.4	0.0	494	0.00
	Uttarakhand	1954	0	39.1	28.2	0.4	104	0.00
	HP	1717	0	30.7	19.8	1.3	154	0.36
	J&K(UT) & Ladakh(UT)	2591	0	53.5	45.0	-1.2	139	0.00
	Chandigarh	204	0	3.8	3.6	0.2	25	0.00
Railways NR ISTS	190	0	3.7	3.9	-0.1	21	0.00	
WR	Chhattisgarh	5853	0	129.0	68.2	-0.1	314	0.00
	Gujarat	20708	0	441.2	204.9	-0.3	707	0.00
	MP	12356	0	261.9	146.0	-5.4	690	0.00
	Maharashtra	28304	0	636.8	225.3	-2.6	713	0.00
	Goa	730	0	15.8	12.7	2.8	46	0.00
	DNHDDPDCL	1276	0	28.5	28.5	0.0	48	0.00
	AMNSIL	867	0	18.4	8.1	0.3	269	0.00
	BALCO	523	0	12.5	12.6	-0.1	1	0.00
SR	Andhra Pradesh	12476	0	234.5	83.4	-2.1	539	0.00
	Telangana	13982	0	286.5	159.4	-0.1	777	0.00
	Karnataka	16852	0	330.6	165.8	-0.9	641	0.00
	Kerala	5197	0	104.7	83.8	2.1	586	0.00
	Tamil Nadu	18601	0	403.3	244.8	0.5	504	0.00
	Puducherry	435	0	10.0	9.7	-0.3	25	0.00
ER	Bihar	5082	284	94.1	81.9	0.9	343	0.13
	DVC	3236	0	70.5	-45.1	-0.1	242	0.00
	Jharkhand	1617	159	35.6	25.2	-1.5	213	0.48
	Odisha	5682	0	123.7	44.0	0.8	432	0.00
	West Bengal	9056	0	184.4	34.4	-0.9	204	0.00
	Sikkim	112	0	1.7	1.7	0.0	30	0.00
Railways ER ISTS	12	0	0.1	0.1	0.0	4	0.00	
NER	Arunachal Pradesh	167	0	2.9	3.0	-0.2	38	0.00
	Assam	1523	0	27.5	21.1	0.6	118	0.00
	Manipur	204	0	3.0	3.0	0.0	23	0.00
	Meghalaya	338	0	6.1	5.4	-0.1	29	0.00
	Mizoram	125	0	2.0	1.7	-0.2	14	0.00
	Nagaland	132	0	2.3	2.1	0.0	0	0.00
Tripura	288	0	4.7	4.8	0.2	53	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-5.7	-9.8	-24.4	-22.5
Day Peak (MW)	-571.4	-526.5	-1074.0	-1042.1

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	103.9	-244.7	288.9	-147.4	-0.7	0.0
Actual(MU)	91.4	-229.8	297.0	-161.5	-3.0	-5.9
O/D/U/D(MU)	-12.5	14.9	8.1	-14.0	-2.3	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5399	8434	3828	5227	205	23092	47
State Sector	8861	10798	4053	2439	170	26320	53
Total	14260	19231	7881	7666	375	49412	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	724	1596	755	737	17	3830	77
Lignite	27	23	72	0	0	123	2
Hydro	131	31	58	23	15	256	5
Nuclear	31	60	51	0	0	142	3
Gas, Naptha & Diesel	10	33	6	0	25	74	1
RES (Wind, Solar, Biomass & Others)	195	166	213	5	1	579	12
Total	1117	1909	1157	765	58	5006	100

Share of RES in total generation (%)	17.42	8.67	18.43	0.65	1.32	11.57
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.95	13.46	27.95	3.64	27.90	19.60

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.054

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	211199	10:45	65
Non-Solar hr	199645	19:13	443

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: 28-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	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	927	0.0	16.6	-16.6
4	765 kV	SASARAM-FATEHPUR	1	0	484	0.0	8.9	-8.9
5	765 kV	GAYA-BALIA	1	0	649	0.0	9.1	-9.1
6	400 kV	PUSAULI-VARANASI	1	0	60	0.0	0.9	-0.9
7	400 kV	PUSAULI-ALLAHABAD	1	12	43	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	76	486	0.0	6.2	-6.2
9	400 kV	PATNA-BALIA	2	0	455	0.0	12.9	-12.9
10	400 kV	NAUBATPUR-BALIA	2	0	231	0.0	3.8	-3.8
11	400 kV	BIHARSHARIFF-BALIA	2	131	166	0.0	1.2	-1.2
12	400 kV	MOTIHARI-GORAKHPUR	2	31	390	0.0	5.6	-5.6
13	400 kV	BIHARSHARIFF-VARANASI	2	29	225	0.0	2.9	-2.9
14	220 kV	SAHUPURI-KARAMNANA	1	0	81	0.0	1.2	-1.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
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-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.0	70.9	-70.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1017	0	15.2	0.0	15.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	42	1513	0.0	22.5	-22.5
3	765 kV	JHARSUGUDA-DURG	2	0	1105	0.0	21.9	-21.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	565	0.0	10.0	-10.0
5	400 kV	RANCHI-SIPAT	2	0	455	0.0	6.5	-6.5
6	220 kV	BUDHIPADAR-RAIGARH	1	3	150	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	70	7	0.5	0.0	0.5
ER-WR						15.7	62.8	-47.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	741	0.0	14.1	-14.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1495	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2829	0.0	58.5	-58.5
4	400 kV	TALCHER-I/C	2	421	0	8.7	0.0	8.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	108.7	-108.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	241	3	3.7	0.0	3.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	843	0	13.3	0.0	13.3
3	220 kV	ALIPURDUAR-SALAKATI	2	128	0	1.9	0.0	1.9
ER-NER						18.9	0.0	18.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	664	0	16.3	0.0	16.3
NER-NR						16.3	0.0	16.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2519	0.0	45.3	-45.3
2	HVDC	VINDHYACHAL B/B	-	256	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	595	0.0	11.4	-11.4
4	765 kV	GWALIOR-AGRA	2	256	1593	0.4	9.6	-9.2
5	765 kV	GWALIOR-PHAGI	2	771	1416	2.4	14.7	-12.4
6	765 kV	JABALPUR-ORAI	2	282	716	0.0	4.6	-4.6
7	765 kV	GWALIOR-ORAI	1	725	0	12.2	0.0	12.2
8	765 kV	SATNA-ORAI	1	0	1020	0.0	18.6	-18.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1985	0	25.4	0.0	25.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	1960	0.0	21.3	-21.3
11	400 kV	ZERDA-KANKROLI	1	387	0	5.8	0.0	5.8
12	400 kV	ZERDA -BHINMAL	1	400	0	5.7	0.0	5.7
13	400 kV	VINDHYACHAL -RIHAND	1	973	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	780	197	6.8	0.5	6.3
15	220 kV	BHANPURA-RANPUR	1	0	134	0.0	2.2	-2.2
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.3	-0.3
17	220 kV	MEHGAON-AURAIYA	1	93	0	1.4	0.0	1.4
18	220 kV	MALANPUR-AURAIYA	1	61	2	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						88.8	128.6	-39.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1011	0.0	19.8	-19.8
2	HVDC	RAIGARH-PUGALUR	2	0	6019	0.0	107.9	-107.9
3	765 kV	SOLAPUR-RAICHUR	2	0	1752	0.0	21.9	-21.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2924	0.0	53.0	-53.0
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2946	0.0	55.4	-55.4
6	400 kV	KOLHAPUR-KUDGI	2	1278	0	19.0	0.0	19.0
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	136	2.6	0.0	2.6
WR-SR						21.6	257.9	-236.3

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)	-198	154	-47	-1.13
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	191	-189	12	0.29
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-260	-117	-192	-4.61
	NER	132kV GELEPHU-SALAKATI	-29	-11	-20	-0.48
	NER	132kV MOTANGA-RANGIA	18	0	11	0.25
NEPAL	NR	NEPAL IMPORT (FROM UP)	-66	0	-40	-0.95
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-66	0	-47	-1.12
	ER	NEPAL IMPORT (FROM BIHAR)	-154	0	-41	-0.98
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-373	-59	-281	-6.74
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-939	-789	-900	-21.60
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1042	-812	-937	-22.48
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-135	0	-118	-2.84

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 28-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	5.57	0.00	0.00	1.06	0.00	0.00	6.63
Nepal	0.24	0.00	4.52	0.00	0.00	2.65	0.00	0.00	7.41
Bangladesh	21.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.63
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.87	0.00	10.09	0.00	0.00	3.71	0.00	0.00	35.67

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51
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	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51

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	0.51	0.00	-5.57	0.00	0.00	-1.06	0.00	0.00	-6.12
Nepal	-0.24	0.00	-4.52	0.00	0.00	-2.65	0.00	0.00	-7.41
Bangladesh	-21.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.63
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-21.36	0.00	-10.09	0.00	0.00	-3.71	0.00	0.00	-35.16