



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: 08th 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 07.03.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 07th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 08-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)	51288	62833	52787	22520	2667	192095
Peak Shortage (MW)	50	0	0	269	0	319
Energy Met (MU)	1096	1447	1374	490	48	4456
Hydro Gen (MU)	123	34	56	18	9	241
Wind Gen (MU)	15	68	29	-	-	113
Solar Gen (MU)*	160.75	87.14	134.65	3.02	1.30	387
Energy Shortage (MU)	0.34	0.00	0.00	0.98	0.00	1.32
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57479	68110	67290	23215	2713	214946
Time Of Maximum Demand Met	09:44	11:02	11:53	18:45	18:30	10:29

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	0.00	4.72	4.72	81.84	13.44

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	7815	0	152.2	51.4	0.6	207	0.00
	Haryana	7062	0	144.1	99.9	-0.8	216	0.00
	Rajasthan	16119	0	302.3	100.1	1.2	337	0.00
	Delhi	4022	0	68.4	61.7	-0.4	245	0.00
	UP	15591	0	289.3	54.0	0.4	511	0.00
	Uttarakhand	2210	0	40.3	25.7	0.4	235	0.00
	HP	1885	0	33.5	26.6	-0.1	91	0.00
	J&K(UT) & Ladakh(UT)	2758	0	59.2	54.0	-0.5	154	0.34
	Chandigarh	228	0	3.6	3.7	-0.1	18	0.00
Railways NR ISTS	172	0	3.5	3.7	-0.2	5	0.00	
WR	Chhattisgarh	5691	0	127.7	64.8	0.1	277	0.00
	Gujarat	19566	0	403.6	173.5	-0.3	593	0.00
	MP	13132	0	245.3	141.3	-4.7	380	0.00
	Maharashtra	27097	0	596.4	195.9	-4.0	554	0.00
	Goa	706	0	13.0	11.8	0.8	182	0.00
	DNHDDPDCL	1239	0	29.1	28.7	0.4	39	0.00
	AMNSIL	902	0	19.5	9.2	0.2	291	0.00
	BALCO	522	0	12.5	12.5	0.0	522	0.00
SR	Andhra Pradesh	13255	0	242.0	88.6	-0.8	741	0.00
	Telangana	15353	0	303.8	177.0	0.8	987	0.00
	Karnataka	16818	0	326.1	166.3	1.3	1495	0.00
	Kerala	4818	0	97.1	76.1	1.1	330	0.00
	Tamil Nadu	18467	0	395.3	238.4	1.1	659	0.00
	Puducherry	427	0	9.7	9.3	-0.2	39	0.00
ER	Bihar	4681	0	87.1	75.6	-1.2	218	0.00
	DVC	3296	0	71.6	-41.0	0.6	302	0.00
	Jharkhand	1649	0	35.1	22.6	-0.4	268	0.98
	Odisha	6121	0	133.9	62.7	-2.0	360	0.00
	West Bengal	7533	0	160.6	22.2	-1.9	166	0.00
	Sikkim	113	0	1.9	1.8	0.1	59	0.00
Railways ER ISTS	12	0	0.1	0.1	0.0	8	0.00	
NER	Arunachal Pradesh	164	0	2.8	3.0	-0.2	21	0.00
	Assam	1583	0	28.4	22.8	0.0	99	0.00
	Manipur	220	0	3.1	3.2	-0.1	36	0.00
	Meghalaya	354	0	6.1	5.1	-0.1	37	0.00
	Mizoram	127	0	1.8	1.6	-0.2	3	0.00
	Nagaland	152	0	2.1	2.2	-0.1	32	0.00
Tripura	221	0	3.9	3.8	-0.1	31	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-10.9	-11.7	-22.3	-26.0
Day Peak (MW)	-595.0	-675.2	-1066.0	-1418.3

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	85.3	-302.0	318.5	-107.4	5.5	0.0
Actual(MU)	76.1	-302.8	339.0	-124.9	5.7	-7.0
O/D/U/D(MU)	-9.2	-0.8	20.5	-17.6	0.2	-7.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6457	7409	5238	5092	788	24983	48
State Sector	7826	10997	5064	3597	99	27582	52
Total	14282	18405	10302	8689	887	52564	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	710	1584	736	685	14	3729	77
Lignite	27	18	66	0	0	111	2
Hydro	123	34	56	18	9	241	5
Nuclear	31	37	52	0	0	120	2
Gas, Naptha & Diesel	12	48	6	0	24	90	2
RES (Wind, Solar, Biomass & Others)	194	157	200	5	1	557	11
Total	1096	1877	1117	708	49	4847	100

Share of RES in total generation (%)	17.68	8.39	17.87	0.69	2.65	11.50
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.73	12.17	27.55	2.67	21.41	18.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.033

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	214946	10:29	0
Non-Solar hr	195116	19:14	319

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-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	304	665	0.0	6.7	-6.7
4	765 kV	SASARAM-FATEHPUR	1	0	408	0.0	7.3	-7.3
5	765 kV	GAYA-BALIA	1	30	473	0.0	4.1	-4.1
6	400 kV	PUSAULI-VARANASI	1	0	95	0.0	1.1	-1.1
7	400 kV	PUSAULI-ALLAHABAD	1	48	34	0.0	0.1	-0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	352	446	0.0	1.7	-1.7
9	400 kV	PATNA-BALIA	2	29	432	0.0	11.2	-11.2
10	400 kV	NAUBATPUR-BALIA	2	43	215	0.0	3.1	-3.1
11	400 kV	BIHARSHARIF-BALIA	2	238	141	0.6	0.0	0.6
12	400 kV	MOTIHARI-GORAKHPUR	2	69	403	0.0	5.5	-5.5
13	400 kV	BIHARSHARIF-VARANASI	2	146	295	0.0	2.7	-2.7
14	220 kV	SAHUPURI-KARAMNANA	1	36	76	0.0	0.4	-0.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.4	0.0	0.4
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						1.0	45.0	-44.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1371	0	20.8	0.0	20.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1072	0.0	18.8	-18.8
3	765 kV	JHARSUGUDA-DURG	2	0	620	0.0	12.3	-12.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	486	0.0	5.9	-5.9
5	400 kV	RANCHI-SIPAT	2	0	342	0.0	5.5	-5.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	167	0.0	2.8	-2.8
7	220 kV	BUDHIPADAR-KORBA	2	149	26	1.7	0.0	1.7
ER-WR						22.5	45.3	-22.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	638	0.0	14.5	-14.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	38.3	-38.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2978	0.0	62.5	-62.5
4	400 kV	TALCHER-I/C	2	1167	240	6.4	0.0	6.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	115.4	-115.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	6	1.9	0.0	1.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	630	0	8.3	0.0	8.3
3	220 kV	ALIPURDUAR-SALAKATI	2	58	0	0.7	0.0	0.7
ER-NER						10.9	0.0	10.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	710	0	17.3	0.0	17.3
NER-NR						17.3	0.0	17.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1995	0.0	46.0	-46.0
2	HVDC	VINDHYACHAL B/B	-	431	2	9.1	0.0	9.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	692	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	298	1487	0.4	10.1	-9.7
5	765 kV	GWALIOR-PHAGI	2	739	1543	2.2	16.4	-14.2
6	765 kV	JABALPUR-ORAI	2	420	642	0.0	4.0	-4.0
7	765 kV	GWALIOR-ORAI	1	798	0	12.5	0.0	12.5
8	765 kV	SATNA-ORAI	1	0	1054	0.0	18.8	-18.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1488	299	16.7	0.3	16.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	1912	0.0	24.0	-24.0
11	400 kV	ZERDA-KANKROLI	1	391	38	4.9	0.0	4.9
12	400 kV	ZERDA-BHINMAL	1	766	97	6.0	0.1	5.9
13	400 kV	VINDHYACHAL-RIHAND	1	972	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUALPUR	2	809	218	6.5	0.3	6.2
15	220 kV	BHANPURA-RANPUR	1	0	148	0.0	2.5	-2.5
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
17	220 kV	MEHGAON-AURAIYA	1	103	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	73	0	1.0	0.0	1.0
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						82.9	136.2	-53.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1014	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	5514	0.0	108.7	-108.7
3	765 kV	SOLAPUR-RAICHUR	2	0	2149	0.0	33.6	-33.6
4	765 kV	WARDHA-NIZAMABAD	2	0	3247	0.0	60.4	-60.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3062	0.0	60.7	-60.7
6	400 kV	KOLHAPUR-KUDGI	2	972	0	13.1	0.0	13.1
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	118	2.2	0.0	2.2
WR-SR						15.3	287.4	-272.1

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)	-202	80	-115	-2.75
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-267	154	-133	-3.18
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-229	-109	-191	-4.58
	NER	132kV GELEPHU-SALAKATI	-29	-5	-18	-0.42
	NER	132kV MOTANGA-RANGIA	20	0	2	0.05
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	1.21
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-60	-1.43
	ER	NEPAL IMPORT (FROM BIHAR)	-191	-1	-89	-2.13
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-484	-153	-388	-9.30
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-930	-641	-817	-19.60
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1418	-808	-1084	-26.02
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-136	0	-114	-2.73

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 08-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	10.72	0.00	0.00	1.30	0.00	0.00	12.02
Nepal	0.27	0.00	9.95	0.00	0.00	0.00	0.00	0.00	10.22
Bangladesh	19.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.66
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	19.93	0.00	20.67	0.00	0.00	1.30	0.00	0.00	41.90

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
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	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37

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	0.37	0.00	-10.72	0.00	0.00	-1.30	0.00	0.00	-11.65
Nepal	-0.27	0.00	-9.95	0.00	0.00	0.00	0.00	0.00	-10.22
Bangladesh	-19.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-19.66
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-19.56	0.00	-20.67	0.00	0.00	-1.30	0.00	0.00	-41.53