



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रीड 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: 06th 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 05.03.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-मार्च -2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 05th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 06-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)	51708	60889	51404	22125	2682	188808
Peak Shortage (MW)	92	0	0	527	0	619
Energy Met (MU)	1089	1416	1359	466	48	4378
Hydro Gen (MU)	130	25	50	14	11	230
Wind Gen (MU)	33	105	31	-	-	170
Solar Gen (MU)*	148.50	88.75	140.96	3.41	1.20	383
Energy Shortage (MU)	0.39	0.00	0.00	1.23	0.00	1.75
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56675	67235	66832	22755	2709	211528
Time Of Maximum Demand Met	09:41	10:35	11:21	18:28	18:32	09:44

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	0.047	0.00	0.76	6.91	7.67	73.19	19.14

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	7502	0	146.9	58.2	-0.9	188	0.00
	Haryana	6934	0	141.1	97.2	-0.4	289	0.00
	Rajasthan	16350	0	298.3	83.9	-1.3	291	0.00
	Delhi	4028	0	69.8	61.1	0.2	267	0.00
	UP	15746	0	290.8	79.4	-1.9	470	0.00
	Uttarakhand	2212	0	41.4	22.8	0.9	274	0.00
	HP	1901	0	33.4	26.6	-0.6	48	0.13
	J&K(UT) & Ladakh(UT)	2910	0	60.0	54.3	0.1	195	0.39
	Chandigarh	237	0	3.7	3.7	0.1	31	0.00
Railways NR ISTS	183	0	3.7	3.6	0.1	24	0.00	
WR	Chhattisgarh	5816	0	129.8	64.7	-0.2	262	0.00
	Gujarat	18860	0	387.6	141.1	-1.0	989	0.00
	MP	12593	0	235.4	139.8	-6.1	350	0.00
	Maharashtra	27306	0	591.0	200.7	-4.1	687	0.00
	Goa	716	0	13.0	14.0	-1.3	79	0.00
	DNHDDPDCL	1233	0	28.5	28.4	0.1	96	0.00
	AMNSIL	863	0	18.0	9.0	-0.1	285	0.00
	BALCO	523	0	12.5	12.5	0.0	16	0.00
SR	Andhra Pradesh	13050	0	239.2	93.0	-1.0	958	0.00
	Telangana	15180	0	297.3	177.5	-0.9	1147	0.00
	Karnataka	16812	0	325.7	172.0	-0.3	903	0.00
	Kerala	4875	0	98.2	76.3	1.1	321	0.00
	Tamil Nadu	18467	0	388.7	239.4	-0.9	489	0.00
	Puducherry	426	0	9.6	9.4	-0.5	40	0.00
ER	Bihar	4387	0	82.0	72.7	-2.8	346	0.54
	DVC	3441	0	70.8	-36.7	0.1	478	0.00
	Jharkhand	1646	0	33.6	22.7	-1.3	297	0.69
	Odisha	5495	0	118.5	46.8	0.4	291	0.00
	West Bengal	8013	0	159.3	20.9	-2.2	276	0.00
	Sikkim	111	0	1.9	1.8	0.1	25	0.00
Railways ER ISTS	11	0	0.1	0.2	0.0	4	0.00	
NER	Arunachal Pradesh	168	0	3.1	3.4	-0.4	31	0.00
	Assam	1550	0	27.3	21.7	0.2	128	0.00
	Manipur	210	0	3.0	3.1	-0.1	22	0.00
	Meghalaya	375	0	6.2	5.4	-0.1	37	0.00
	Mizoram	128	0	2.3	1.6	0.1	13	0.00
	Nagaland	142	0	2.3	2.4	-0.2	6	0.00
Tripura	237	0	4.0	4.1	-0.2	27	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-7.9	-10.5	-21.2	-24.2
Day Peak (MW)	-677.0	-321.3	-1080.0	-1272.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	107.0	-292.9	323.1	-143.0	5.7	0.0
Actual(MU)	94.4	-301.3	352.6	-156.6	5.4	-5.4
O/D/U/D(MU)	-12.6	-8.4	29.5	-13.6	-0.2	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6338	7214	3868	3757	383	21559	45
State Sector	7066	11704	4231	2747	99	25846	55
Total	13403	18918	8099	6504	482	47405	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	654	1524	712	699	13	3602	76
Lignite	28	18	68	0	0	114	2
Hydro	130	25	50	14	11	230	5
Nuclear	32	43	52	0	0	127	3
Gas, Naptha & Diesel	12	41	6	0	24	82	2
RES (Wind, Solar, Biomass & Others)	205	197	209	5	1	618	13
Total	1061	1849	1096	718	49	4772	100

Share of RES in total generation (%)	19.37	10.63	19.09	0.70	2.52	12.94
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.62	14.35	28.36	2.64	25.15	20.42

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.043

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	211528	9:44	12
Non-Solar hr	192564	18:57	12

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: 06-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	110	766	0.0	9.4	-9.4
4	765 kV	SASARAM-FATEHPUR	1	0	522	0.0	9.2	-9.2
5	765 kV	GAYA-BALIA	1	0	429	0.0	4.6	-4.6
6	400 kV	PUSAULI-VARANASI	1	12	62	0.0	0.6	-0.6
7	400 kV	PUSAULI-ALLAHABAD	1	16	59	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	210	566	0.0	5.5	-5.5
9	400 kV	PATNA-BALIA	2	0	592	0.0	9.0	-9.0
10	400 kV	NAUBATPUR-BALIA	2	0	236	0.0	3.5	-3.5
11	400 kV	BIHARSHARIFF-BALIA	2	182	113	0.0	0.2	-0.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	532	0.0	7.8	-7.8
13	400 kV	BIHARSHARIFF-VARANASI	2	10	331	0.0	4.6	-4.6
14	220 kV	SAHUPURI-KARAMNUSA	1	0	90	0.0	1.4	-1.4
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-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.4	57.7	-57.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	928	0	10.4	0.0	10.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1492	0.0	17.7	-17.7
3	765 kV	JHARSUGUDA-DURG	2	0	727	0.0	14.4	-14.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	515	0.0	8.5	-8.5
5	400 kV	RANCHI-SIPAT	2	0	393	0.0	6.2	-6.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	177	0.0	3.2	-3.2
7	220 kV	BUDHIPADAR-KORBA	2	105	47	1.1	0.0	1.1
ER-WR						11.4	50.0	-38.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	2780	507	0.0	10.8	-10.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	42.3	-42.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	3149	0.0	63.9	-63.9
4	400 kV	TALCHER-I/C	2	423	227	2.2	0.0	2.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	117.0	-117.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	1	7	0.2	0.0	0.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	769	0	9.3	0.0	9.3
3	220 kV	ALIPURDUAR-SALAKATI	2	75	8	0.7	0.0	0.7
ER-NER						10.3	0.0	10.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	709	0	17.4	0.0	17.4
NER-NR						17.4	0.0	17.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1997	0.0	45.6	-45.6
2	HVDC	VINDHYACHAL B/B	-	426	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1072	0.0	13.1	-13.1
4	765 kV	GWALIOR-AGRA	2	255	1571	0.1	10.3	-10.2
5	765 kV	GWALIOR-PHAGI	2	996	1605	3.2	12.7	-9.4
6	765 kV	JABALPUR-ORAI	2	402	696	0.0	2.4	-2.4
7	765 kV	GWALIOR-ORAI	1	704	0	10.0	0.0	10.0
8	765 kV	SATNA-ORAI	1	0	1062	0.0	18.5	-18.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1053	399	10.6	0.6	10.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	1841	0.0	23.3	-23.3
11	400 kV	ZERDA-KANKROLI	1	249	0	3.2	0.0	3.2
12	400 kV	ZERDA -BHINMAL	1	634	0	6.7	0.0	6.7
13	400 kV	VINDHYACHAL -RIHAND	1	974	0	19.5	0.0	19.5
14	400 kV	RAPP-SHUALPUR	2	788	276	7.3	0.6	6.7
15	220 kV	BHANPURA-RANPUR	1	0	138	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
17	220 kV	MEHGAON-AURAIYA	1	92	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	64	1	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						74.8	130.9	-56.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1014	0.0	23.5	-23.5
2	HVDC	RAIGARH-PUGALUR	2	0	6035	0.0	120.0	-120.0
3	765 kV	SOLAPUR-RAICHUR	2	0	2288	0.0	31.1	-31.1
4	765 kV	WARDHA-NIZAMABAD	2	0	3504	0.0	61.3	-61.3
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3326	0.0	61.0	-61.0
6	400 kV	KOLHAPUR-KUDGI	2	904	0	11.1	0.0	11.1
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	122	2.2	0.0	2.2
WR-SR						13.3	296.9	-283.6

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)	-229	40	-103	-2.48
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-257	92	-82	-1.96
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-228	-25	-139	-3.33
	NER	132kV GELEPHU-SALAKATI	-35	-7	-18	-0.42
	NER	132kV MOTANGA-RANGIA	20	-3	11	0.27
NEPAL	NR	NEPAL IMPORT (FROM UP)	-74	0	-61	-1.46
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-63	-1.51
	ER	NEPAL IMPORT (FROM BIHAR)	144	4	62	1.50
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-465	0	-377	-9.04
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-938	-459	-766	-18.38
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1272	-802	-1006	-24.15
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-142	0	-119	-2.86

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 06-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	7.40	0.00	0.00	0.00	1.65	0.00	0.00	9.05
Nepal	0.31	0.00	9.95	0.00	0.00	0.00	0.00	0.00	0.00	10.26
Bangladesh	18.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.33
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	18.64	0.00	17.35	0.00	0.00	0.00	1.65	0.00	0.00	37.64

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	0.00	0.37
Nepal	0.00	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	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	0.37	0.00	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	-7.40	0.00	0.00	0.00	-1.65	0.00	0.00	-8.68
Nepal	-0.31	0.00	-9.95	0.00	0.00	0.00	0.00	0.00	0.00	-10.26
Bangladesh	-18.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18.33
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-18.27	0.00	-17.35	0.00	0.00	0.00	-1.65	0.00	0.00	-37.27