



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: 04th 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 03.03.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-मार्च -2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 03rd March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 04-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)	46073	57440	46830	21273	2484	174100
Peak Shortage (MW)	25	0	0	107	0	132
Energy Met (MU)	948	1343	1269	451	47	4058
Hydro Gen (MU)	160	21	36	15	9	239
Wind Gen (MU)	12	110	30	-	-	153
Solar Gen (MU)*	161.02	82.67	137.42	2.49	1.01	385
Energy Shortage (MU)	0.43	0.00	0.00	0.59	0.00	1.02
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49395	61979	62119	21622	2566	193298
Time Of Maximum Demand Met	10:12	10:14	11:55	18:35	18:08	10:12

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	0.072	0.00	0.00	0.98	0.98	68.12	30.90

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	6313	0	120.8	46.3	-0.6	216	0.00
	Haryana	5480	0	113.0	77.6	-2.8	151	0.00
	Rajasthan	14585	0	275.7	85.3	-0.8	396	0.00
	Delhi	3838	0	66.7	56.2	2.6	325	0.00
	UP	14439	0	253.6	59.1	-0.2	403	0.00
	Uttarakhand	1829	0	35.2	15.4	-1.2	143	0.00
	HP	1585	23	26.8	20.3	-1.2	190	0.43
	J&K(UT) & Ladakh(UT)	2687	0	48.9	38.3	-2.3	113	0.00
	Chandigarh	210	0	3.5	3.9	-0.5	21	0.00
Railways NR ISTS	194	0	3.7	3.5	0.2	25	0.00	
WR	Chhattisgarh	5661	0	125.9	65.1	-1.3	466	0.00
	Gujarat	17203	0	361.5	147.1	-6.7	1131	0.00
	MP	11388	0	213.5	119.0	-2.9	750	0.00
	Maharashtra	25878	0	569.1	181.9	-3.6	733	0.00
	Goa	639	0	12.6	12.3	0.2	98	0.00
	DNHDDPDCL	1198	0	27.6	27.6	0.0	63	0.00
	AMNSIL	883	0	20.3	10.1	-0.2	253	0.00
	BALCO	523	0	12.5	12.5	0.0	7	0.00
SR	Andhra Pradesh	12914	0	233.7	98.9	-3.6	791	0.00
	Telangana	14477	0	285.4	174.8	-0.2	630	0.00
	Karnataka	15769	0	303.6	165.0	-0.8	746	0.00
	Kerala	4629	0	87.1	75.5	0.5	233	0.00
	Tamil Nadu	16210	0	350.6	220.0	-2.9	346	0.00
	Puducherry	384	0	8.9	8.8	-0.4	17	0.00
	Bihar	4421	0	80.4	73.1	-2.9	543	0.17
ER	DVC	3297	0	67.8	-29.9	-1.5	303	0.00
	Jharkhand	1662	0	33.4	23.1	-1.6	236	0.42
	Odisha	5354	0	116.7	47.8	-0.9	373	0.00
	West Bengal	7077	0	150.6	26.1	-1.5	263	0.00
	Sikkim	85	0	1.5	1.8	-0.3	20	0.00
	Railways ER ISTS	10	0	0.1	0.1	0.0	4	0.00
NER	Arunachal Pradesh	171	0	3.2	3.0	0.1	21	0.00
	Assam	1427	0	26.7	20.4	0.5	120	0.00
	Manipur	212	0	3.2	3.2	0.0	35	0.00
	Meghalaya	329	0	6.2	5.4	-0.1	48	0.00
	Mizoram	109	0	1.9	1.7	-0.3	13	0.00
	Nagaland	124	0	2.5	2.4	0.0	0	0.00
	Tripura	242	0	3.2	3.5	-0.6	31	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-5.7	-11.2	-22.9	-26.6
Day Peak (MW)	-492.6	-757.2	-1070.0	-1420.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	23.9	-253.2	333.3	-110.5	6.5	0.0
Actual(MU)	10.0	-258.9	352.9	-121.1	7.6	-9.4
O/D/U/D(MU)	-13.9	-5.8	19.6	-10.5	1.1	-9.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6868	8919	4078	3509	408	23781	47
State Sector	9096	9327	5551	2957	99	27029	53
Total	15963	18245	9629	6465	507	50809	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	586	1398	638	637	11	3270	74
Lignite	22	13	56	0	0	90	2
Hydro	160	21	36	15	9	239	5
Nuclear	31	48	52	0	0	132	3
Gas, Naptha & Diesel	12	33	6	0	25	76	2
RES (Wind, Solar, Biomass & Others)	196	196	201	5	1	599	14
Total	1007	1709	989	657	45	4406	100

Share of RES in total generation (%)	19.44	11.48	20.35	0.74	2.25	13.60
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.40	15.55	29.20	2.95	21.17	22.01

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.052

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	193298	10:12	126
Non-Solar hr	176410	19:00	132

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: 04-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	459	712	0.0	2.5	-2.5
4	765 kV	SASARAM-FATEHPUR	1	0	465	0.0	6.1	-6.1
5	765 kV	GAYA-BALIA	1	50	406	0.0	2.3	-2.3
6	400 kV	PUSAULI-VARANASI	1	7	80	0.0	1.2	-1.2
7	400 kV	PUSAULI-ALLAHABAD	1	31	54	0.0	0.2	-0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	374	419	1.2	0.0	1.2
9	400 kV	PATNA-BALIA	2	0	592	0.0	6.6	-6.6
10	400 kV	NAUBATPUR-BALIA	2	32	254	0.0	2.2	-2.2
11	400 kV	BIHARSHARIFF-BALLA	2	283	147	2.8	0.0	2.8
12	400 kV	MOTIHARI-GORAKHPUR	2	68	466	0.0	4.0	-4.0
13	400 kV	BIHARSHARIFF-VARANASI	2	157	309	0.0	0.8	-0.8
14	220 kV	SAHUPURI-KARAMNUSA	1	2	90	0.0	0.9	-0.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.3	0.0	0.3
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						4.3	27.8	-23.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1297	0	16.7	0.0	16.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1364	0.0	19.1	-19.1
3	765 kV	JHARSUGUDA-DURG	2	0	622	0.0	11.9	-11.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	533	0.0	8.9	-8.9
5	400 kV	RANCHI-SIPAT	2	0	399	0.0	5.7	-5.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	160	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	126	0	1.3	0.0	1.3
ER-WR						17.9	48.0	-30.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	639	0.0	14.7	-14.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	46.0	-46.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2946	0.0	60.2	-60.2
4	400 kV	TALCHER-I/C	2	395	984	0.0	2.9	-2.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	120.9	-120.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	1	7	1.7	0.1	1.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	688	0	6.6	0.0	6.6
3	220 kV	ALIPURDUAR-SALAKATI	2	87	24	0.8	0.0	0.8
ER-NER						9.0	0.1	9.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	707	0	17.3	0.0	17.3
NER-NR						17.3	0.0	17.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1497	0.0	31.3	-31.3
2	HVDC	VINDHYACHAL B/B	-	431	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	789	0.0	15.8	-15.8
4	765 kV	GWALIOR-AGRA	2	508	1220	3.3	5.0	-1.7
5	765 kV	GWALIOR-PHAGI	2	1609	1349	8.1	10.7	-2.6
6	765 kV	JABALPUR-ORAI	2	540	522	0.0	5.6	-5.6
7	765 kV	GWALIOR-ORAI	1	619	23	7.6	0.0	7.6
8	765 kV	SATNA-ORAI	1	0	1011	0.0	15.2	-15.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1108	203	14.4	0.1	14.4
10	765 kV	VINDHYACHAL-VARANASI	2	501	1544	0.0	13.3	-13.3
11	400 kV	ZERDA-KANKROLI	1	286	30	3.9	0.0	3.9
12	400 kV	ZERDA-BHINMAL	1	681	122	6.6	0.1	6.5
13	400 kV	VINDHYACHAL-RIHAND	1	965	0	15.4	0.0	15.4
14	400 kV	RAPP-SHUJALPUR	2	834	242	8.6	0.6	8.1
15	220 kV	BHANPURA-RANPUR	1	110	37	1.2	0.0	1.2
16	220 kV	BHANPURA-MORAK	1	0	30	3.2	0.0	3.2
17	220 kV	MEHGAON-AURAIYA	1	103	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	81	0	0.9	0.0	0.9
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						86.7	97.6	-10.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	21.3	-21.3
2	HVDC	RAIGARH-PUGALUR	2	0	6022	0.0	114.4	-114.4
3	765 kV	SOLAPUR-RAICHUR	2	0	2106	0.0	33.1	-33.1
4	765 kV	WARDHA-NIZAMABAD	2	0	3089	0.0	58.2	-58.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3143	0.0	60.7	-60.7
6	400 kV	KOLHAPUR-KUDGI	2	897	0	8.8	0.0	8.8
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	62	0.0	0.8	-0.8
9	220 kV	XELDEM-AMBEWADI	1	0	109	2.2	0.0	2.2
WR-SR						11.0	288.3	-277.3

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)	-187	113	-68	-1.63	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-263	141	-30	-0.71	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-251	-28	-132	-3.17	
	NER	132kV GELEPHU-SALAKATI	-28	0	-14	-0.34	
	NER	132kV MOTANGA-RANGIA	21	-5	8	0.19	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	-1.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.00	
	ER	NEPAL IMPORT (FROM BIHAR)	-160	0	-54	-1.29	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-597	-14	-373	-8.96	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-931	-640	-844	-20.26	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1420	-808	-1109	-26.62	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-139	0	-112	-2.68	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 04-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	7.94	0.00	0.00	0.00	0.00	0.00	7.94
Nepal	0.21	0.00	9.62	0.00	0.00	0.12	0.00	0.00	9.95
Bangladesh	20.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.28
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	20.49	0.00	17.56	0.00	0.00	0.12	0.00	0.00	38.17

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68
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	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68

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	0.68	0.00	-7.94	0.00	0.00	0.00	0.00	0.00	-7.26
Nepal	-0.21	0.00	-9.62	0.00	0.00	-0.12	0.00	0.00	-9.95
Bangladesh	-20.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.28
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-19.81	0.00	-17.56	0.00	0.00	-0.12	0.00	0.00	-37.49