



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: 01st 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 29.02.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-फ़रवरी-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 29th February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 01-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)	53400	63566	51744	21679	2718	193107
Peak Shortage (MW)	257	0	0	325	0	582
Energy Met (MU)	1163	1495	1333	468	49	4508
Hydro Gen (MU)	107	26	48	18	7	207
Wind Gen (MU)	20	74	82	-	-	176
Solar Gen (MU)*	155.43	77.52	138.31	6.37	0.98	379
Energy Shortage (MU)	1.58	0.00	0.00	1.89	0.03	3.50
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60975	70350	65063	22692	2824	218040
Time Of Maximum Demand Met	10:26	10:51	11:24	18:32	18:20	10:20

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	0.036	0.00	0.00	2.80	2.80	77.40	19.80

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	8491	0	158.4	68.8	-0.8	214	0.00
	Haryana	7643	0	148.5	100.0	0.1	252	0.00
	Rajasthan	16813	0	317.8	105.7	-3.9	188	0.00
	Delhi	4014	0	72.0	62.1	2.2	412	0.00
	UP	17458	0	327.7	109.1	-0.6	712	0.00
	Uttarakhand	2336	0	41.4	31.8	0.3	187	0.00
	HP	2017	0	35.1	30.2	0.5	128	0.00
	J&K(UT) & Ladakh(UT)	2924	390	55.1	49.5	-0.1	679	1.58
	Chandigarh	224	0	3.5	3.8	-0.3	10	0.00
Railways NR ISTS	174	0	3.5	3.5	0.0	14	0.00	
WR	Chhattisgarh	5732	0	125.3	62.3	-2.5	196	0.00
	Gujarat	20254	0	423.5	164.4	-0.3	843	0.00
	MP	13486	0	260.7	162.1	-3.8	542	0.00
	Maharashtra	27973	0	610.7	183.6	-1.5	759	0.00
	Goa	749	0	14.0	14.9	-1.0	260	0.00
	DNHDDPDCL	1254	0	29.1	29.3	-0.2	43	0.00
	AMNSIL	860	0	19.2	10.0	-0.2	303	0.00
	BALCO	523	0	12.5	12.5	0.0	10	0.00
SR	Andhra Pradesh	12824	0	237.2	102.5	0.5	766	0.00
	Telangana	15022	0	289.8	155.2	0.0	997	0.00
	Karnataka	16466	0	320.9	140.3	1.2	1359	0.00
	Kerala	4841	0	96.7	73.0	1.8	851	0.00
	Tamil Nadu	18205	0	378.4	198.5	0.8	538	0.00
	Puducherry	440	0	9.7	9.4	-0.3	32	0.00
ER	Bihar	4672	0	89.3	76.6	0.5	204	0.00
	DVC	3470	0	70.5	-41.1	-1.4	349	0.00
	Jharkhand	1626	0	32.8	22.0	-1.5	250	1.89
	Odisha	5236	0	111.5	26.0	-2.1	410	0.00
	West Bengal	7644	0	162.2	16.3	-1.4	312	0.00
	Sikkim	120	0	2.1	2.1	0.0	17	0.00
Railways ER ISTS	18	0	0.1	0.1	0.0	0	0.00	
NER	Arunachal Pradesh	182	0	3.2	2.8	0.3	41	0.00
	Assam	1634	0	28.5	22.6	-0.1	83	0.00
	Manipur	220	0	3.1	3.1	0.0	29	0.03
	Meghalaya	360	0	6.3	5.6	-0.1	44	0.00
	Mizoram	134	0	1.9	1.7	-0.2	20	0.00
	Nagaland	151	0	2.5	2.5	-0.1	8	0.00
Tripura	233	0	3.7	3.8	-0.2	24	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-11.2	-14.6	-22.2	-26.2
Day Peak (MW)	-684.0	-624.0	-1064.0	-1422.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	187.8	-269.1	242.5	-168.8	7.7	0.0
Actual(MU)	188.4	-265.7	267.6	-204.3	8.4	-5.6
O/D/U/D(MU)	0.6	3.4	25.1	-35.5	0.8	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6098	8536	4628	4004	408	23673	49
State Sector	8711	8621	4961	2297	149	24738	51
Total	14809	17156	9589	6300	557	48410	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	676	1605	704	730	13	3728	76
Lignite	31	20	67	0	0	118	2
Hydro	107	26	48	18	7	207	4
Nuclear	31	53	52	0	0	136	3
Gas, Naptha & Diesel	8	27	7	0	25	67	1
RES (Wind, Solar, Biomass & Others)	199	154	263	9	1	626	13
Total	1052	1885	1140	757	47	4881	100

Share of RES in total generation (%)	18.88	8.19	23.05	1.13	2.07	12.81
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.14	12.41	31.86	3.51	17.97	19.88

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.038

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	218040	10:20	110
Non-Solar hr	198405	18:45	138

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: 01-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	0	1066	0.0	19.9	-19.9
4	765 kV	SASARAM-FATEHPUR	1	0	634	0.0	11.7	-11.7
5	765 kV	GAYA-BALIA	1	0	593	0.0	10.5	-10.5
6	400 kV	PUSAULI-VARANASI	1	46	16	0.4	0.0	0.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	92	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	48	541	0.0	6.5	-6.5
9	400 kV	PATNA-BALIA	2	0	656	0.0	20.1	-20.1
10	400 kV	NAUBATPUR-BALIA	2	0	658	0.0	6.5	-6.5
11	400 kV	BIHARSHARIFF-BALIA	2	143	172	0.0	1.6	-1.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	524	0.0	8.5	-8.5
13	400 kV	BIHARSHARIFF-VARANASI	2	0	489	0.0	8.0	-8.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	113	0.0	1.8	-1.8
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	0.4	0.0	0.4
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						1.2	97.7	-96.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	766	44	7.6	0.0	7.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1220	0.0	19.8	-19.8
3	765 kV	JHARSUGUDA-DURG	2	0	719	0.0	13.9	-13.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	534	0.0	10.2	-10.2
5	400 kV	RANCHI-SIPAT	2	0	388	0.0	6.2	-6.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	155	0.0	2.9	-2.9
7	220 kV	BUDHIPADAR-KORBA	2	85	64	0.2	0.0	0.2
ER-WR						7.9	53.0	-45.1
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	1986	0.0	43.4	-43.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2985	0.0	58.3	-58.3
4	400 kV	TALCHER-I/C	2	296	288	1.1	0.0	1.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	116.4	-116.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	7	1.1	0.2	0.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	586	0	6.2	0.0	6.2
3	220 kV	ALIPURDUAR-SALAKATI	2	85	13	0.8	0.0	0.8
ER-NER						8.1	0.2	7.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	703	0	15.6	0.0	15.6
NER-NR						15.6	0.0	15.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1504	0.0	36.2	-36.2
2	HVDC	VINDHYACHAL B/B	-	435	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1452	0.0	20.6	-20.6
4	765 kV	GWALIOR-AGRA	2	0	1898	0.0	22.7	-22.7
5	765 kV	GWALIOR-PHAGI	2	94	1733	0.0	20.5	-20.5
6	765 kV	JABALPUR-ORAI	2	0	892	0.0	19.7	-19.7
7	765 kV	GWALIOR-ORAI	1	754	0	13.0	0.0	13.0
8	765 kV	SATNA-ORAI	1	0	1099	0.0	21.7	-21.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1115	289	9.2	0.7	8.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	1950	0.0	26.1	-26.1
11	400 kV	ZERDA-KANKROLI	1	215	19	2.2	0.0	2.2
12	400 kV	ZERDA -BHINMAL	1	605	79	5.3	0.2	5.1
13	400 kV	VINDHYACHAL -RIHAND	1	486	0	10.7	0.0	10.7
14	400 kV	RAPP-SHUJALPUR	2	388	344	2.8	1.4	1.4
15	220 kV	BHANPURA-RANPUR	1	56	87	0.4	0.4	-0.1
16	220 kV	BHANPURA-MORAK	1	0	30	1.5	0.0	1.5
17	220 kV	MEHGAON-AURAIYA	1	100	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	65	8	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						59.5	170.3	-110.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	17.9	-17.9
2	HVDC	RAIGARH-PUGALUR	2	0	6020	0.0	95.8	-95.8
3	765 kV	SOLAPUR-RAICHUR	2	742	1498	2.6	15.4	-12.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2889	0.0	47.4	-47.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2964	0.0	50.3	-50.3
6	400 kV	KOLHAPUR-KUDGI	2	1534	0	22.5	0.0	22.5
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	126	2.4	0.0	2.4
WR-SR						27.4	226.8	-199.4

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)	-204	46	-133	-3.19
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-288	143	-103	-2.47
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-276	-105	-226	-5.44
	NER	132kV GELEPHU-SALAKATI	-29	-1	-17	-0.42
	NER	132kV MOTANGA-RANGIA	38	2	14	0.33
NEPAL	NR	NEPAL IMPORT (FROM UP)	-75	0	-60	-1.44
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-62	-1.49
	ER	NEPAL IMPORT (FROM BIHAR)	-166	-57	-101	-2.41
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-458	-102	-385	-9.24
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-933	-642	-817	-19.60
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1422	-802	-1090	-26.15
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-131	0	-110	-2.64

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 01-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	12.29	0.00	0.00	1.67	0.00	0.00	13.96
Nepal	0.20	0.00	9.73	0.00	0.00	0.00	0.00	0.00	9.93
Bangladesh	19.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.75
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	19.95	0.00	22.02	0.00	0.00	1.67	0.00	0.00	43.64

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
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	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38

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	0.38	0.00	-12.29	0.00	0.00	-1.67	0.00	0.00	-13.58
Nepal	-0.20	0.00	-9.73	0.00	0.00	0.00	0.00	0.00	-9.93
Bangladesh	-19.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-19.75
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-19.57	0.00	-22.02	0.00	0.00	-1.67	0.00	0.00	-43.26