

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: 29th February 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 28.02.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-फ़रवरी-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 28th February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 29-Feb-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)	53564	62571	51108	21908	2712	191863
Peak Shortage (MW)	180	0	0	293	0	473
Energy Met (MU)	1159	1454	1327	459	50	4449
Hydro Gen (MU)	107	26	50	20	8	211
Wind Gen (MU)	24	107	75	-	-	205
Solar Gen (MU)*	158.00	77.81	140.80	2.96	1.19	381
Energy Shortage (MU)	1.48	0.00	0.00	0.90	0.05	2.43
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62155	68788	65434	22704	2776	218553
Time Of Maximum Demand Met	10:25	10:41	11:56	18:43	18:02	10:23

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	0.033	0.00	0.00	2.62	2.62	78.75	18.63

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	8781	0	160.9	68.8	0.6	229	0.00
	Haryana	7875	0	149.5	103.0	-0.5	239	0.00
	Rajasthan	16941	0	315.2	104.8	-2.6	246	0.00
	Delhi	4089	0	71.5	63.1	1.9	335	0.00
	UP	17651	0	320.3	101.4	0.3	637	0.00
	Uttarakhand	2338	0	42.1	32.3	0.2	185	0.00
	HP	2229	0	36.7	32.3	-0.3	151	0.16
	J&K(UT) & Ladakh(UT)	2908	0	55.4	50.2	0.4	629	1.32
	Chandigarh	243	0	3.7	3.9	-0.2	14	0.00
Railways NR ISTS	181	0	3.7	3.5	0.2	25	0.00	
WR	Chhattisgarh	5525	0	120.3	58.0	-1.9	257	0.00
	Gujarat	19812	0	412.0	143.7	-0.3	644	0.00
	MP	12786	0	246.9	156.1	-5.2	1098	0.00
	Maharashtra	27905	0	601.1	182.6	-3.8	669	0.00
	Goa	747	0	13.5	14.5	-1.1	116	0.00
	DNHDDPDCL	1258	0	29.1	29.0	0.1	35	0.00
	AMNSIL	819	0	18.2	8.7	0.0	310	0.00
	BALCO	523	0	12.5	12.5	0.0	9	0.00
SR	Andhra Pradesh	13084	0	237.5	99.9	0.3	494	0.00
	Telangana	15164	0	286.8	150.1	0.2	745	0.00
	Karnataka	16632	0	319.5	144.8	0.1	917	0.00
	Kerala	4771	0	96.2	74.4	1.6	337	0.00
	Tamil Nadu	18060	0	377.6	201.8	-0.2	570	0.00
	Puducherry	420	0	9.7	9.4	-0.3	23	0.00
ER	Bihar	4589	0	89.1	75.7	1.2	267	0.00
	DVC	3181	0	71.5	-40.6	-0.1	919	0.00
	Jharkhand	1544	0	32.7	21.9	-2.4	180	0.90
	Odisha	5512	0	108.6	24.6	-0.8	358	0.00
	West Bengal	7531	0	155.3	18.9	-1.9	167	0.00
	Sikkim	123	0	2.0	2.1	-0.1	22	0.00
Railways ER ISTS	21	0	0.2	0.2	0.0	16	0.00	
NER	Arunachal Pradesh	178	0	3.2	2.9	0.2	29	0.00
	Assam	1568	0	28.4	21.9	0.5	132	0.00
	Manipur	213	0	3.2	3.1	0.1	38	0.05
	Meghalaya	361	0	6.5	5.8	-0.1	45	0.00
	Mizoram	131	0	2.0	1.7	-0.2	16	0.00
	Nagaland	155	0	2.5	2.5	0.0	11	0.00
Tripura	234	0	4.0	3.7	0.0	28	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-10.5	-15.0	-17.4	-27.0
Day Peak (MW)	-674.7	-565.2	-1055.0	-1425.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	189.2	-286.4	254.6	-168.1	10.7	0.0
Actual(MU)	183.1	-284.8	284.5	-199.6	10.8	-6.0
O/D/U/D(MU)	-6.0	1.5	29.9	-31.5	0.1	-6.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6208	10286	5088	4004	378	25963	50
State Sector	8796	9221	5171	2447	149	25783	50
Total	15004	19506	10259	6450	527	51745	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	674	1563	689	711	11	3647	76
Lignite	29	21	66	0	0	116	2
Hydro	107	26	50	20	8	211	4
Nuclear	31	37	52	0	0	120	2
Gas, Naptha & Diesel	8	21	7	0	25	61	1
RES (Wind, Solar, Biomass & Others)	204	187	261	5	1	657	14
Total	1053	1854	1125	736	45	4811	100

Share of RES in total generation (%)	19.35	10.06	23.25	0.62	2.66	13.68
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.51	13.43	32.30	2.78	19.67	20.46

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.034

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	218553	10:23	142
Non-Solar hr	196483	18:54	57

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: 29-Feb-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	-	6	48	0.0	0.4	-0.4
3	765 kV	GAYA-VARANASI	2	0	1173	0.0	17.9	-17.9
4	765 kV	SASARAM-FATEHPUR	1	0	641	0.0	10.6	-10.6
5	765 kV	GAYA-BALIA	1	0	650	0.0	10.0	-10.0
6	400 kV	PUSAULI-VARANASI	1	82	23	0.6	0.0	0.6
7	400 kV	PUSAULI-ALLAHABAD	1	0	80	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	21	637	0.0	6.6	-6.6
9	400 kV	PATNA-BALIA	2	0	679	0.0	18.0	-18.0
10	400 kV	NAUBATPUR-BALIA	2	0	610	0.0	5.7	-5.7
11	400 kV	BIHARSHARIF-BALIA	2	104	213	0.0	1.8	-1.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	561	0.0	9.0	-9.0
13	400 kV	BIHARSHARIF-VARANASI	2	0	495	0.0	7.1	-7.1
14	220 kV	SAHUPURI-KARAMNANA	1	0	121	0.0	1.5	-1.5
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	89.6	-88.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	649	185	6.9	0.0	6.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1255	0.0	19.8	-19.8
3	765 kV	JHARSUGUDA-DURG	2	0	713	0.0	14.3	-14.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	556	0.0	10.7	-10.7
5	400 kV	RANCHI-SIPAT	2	0	412	0.0	6.3	-6.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	168	0.0	2.9	-2.9
7	220 kV	BUDHIPADAR-KORBA	2	89	65	0.4	0.0	0.4
ER-WR						7.3	54.0	-46.7
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	42.2	-42.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2807	0.0	59.0	-59.0
4	400 kV	TALCHER-I/C	2	315	235	2.5	0.0	2.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	115.9	-115.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	7	1.0	0.4	0.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	625	64	5.2	0.0	5.2
3	220 kV	ALIPURDUAR-SALAKATI	2	88	30	0.7	0.0	0.7
ER-NER						6.8	0.4	6.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	703	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	1505	0.0	36.3	-36.3
2	HVDC	VINDHYACHAL B/B	-	428	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1171	0.0	26.7	-26.7
4	765 kV	GWALIOR-AGRA	2	0	1997	0.0	22.5	-22.5
5	765 kV	GWALIOR-PHAGI	2	106	1616	0.1	16.0	-15.9
6	765 kV	JABALPUR-ORAI	2	70	933	0.0	16.2	-16.2
7	765 kV	GWALIOR-ORAI	1	739	0	11.8	0.0	11.8
8	765 kV	SATNA-ORAI	1	0	1114	0.0	21.4	-21.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1137	748	6.6	4.6	2.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	1955	0.0	24.9	-24.9
11	400 kV	ZERDA-KANKROLI	1	223	64	1.9	0.2	1.7
12	400 kV	ZERDA-BHINMAL	1	655	244	4.7	0.9	3.9
13	400 kV	VINDHYACHAL-RIHAND	1	482	0	10.7	0.0	10.7
14	400 kV	RAPP-SHUALPUR	2	524	357	4.1	1.1	3.0
15	220 kV	BHANPURA-RANPUR	1	73	77	0.6	0.3	0.3
16	220 kV	BHANPURA-MORAK	1	0	30	1.7	0.0	1.7
17	220 kV	MEHGAON-AURAIYA	1	97	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	60	12	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						56.6	171.1	-114.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	23.9	-23.9
2	HVDC	RAIGARH-PUGALUR	2	0	6022	0.0	101.9	-101.9
3	765 kV	SOLAPUR-RAICHUR	2	395	1827	0.9	16.6	-15.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2814	0.0	46.9	-46.9
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2906	0.0	51.1	-51.1
6	400 kV	KOLHAPUR-KUDGI	2	1313	0	20.1	0.0	20.1
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	20	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	1	130	2.3	0.0	2.3
WR-SR						23.3	240.3	-217.1

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)	-207	48	-118	-2.84
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-292	158	-98	-2.35
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-276	-116	-219	-5.25
	NER	132kV GELEPHU-SALAKATI	-29	0	-17	-0.41
	NER	132kV MOTANGA-RANGIA	30	0	16	0.39
NEPAL	NR	NEPAL IMPORT (FROM UP)	-73	0	-60	-1.43
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-62	-1.49
	ER	NEPAL IMPORT (FROM BIHAR)	-148	-29	-96	-2.30
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-417	-136	-408	-9.78
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-926	-212	-617	-14.81
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1425	-811	-1123	-26.95
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-129	0	-110	-2.64

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 29-Feb-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	12.08	0.00	0.00	0.03	0.00	0.00	12.11
Nepal	0.22	0.00	10.06	0.00	0.00	0.00	0.00	0.00	10.28
Bangladesh	14.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.95
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	15.17	0.00	22.14	0.00	0.00	0.03	0.00	0.00	37.34

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	-12.08	0.00	0.00	-0.03	0.00	0.00	-11.73
Nepal	-0.22	0.00	-10.06	0.00	0.00	0.00	0.00	0.00	-10.28
Bangladesh	-14.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-14.95
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-14.79	0.00	-22.14	0.00	0.00	-0.03	0.00	0.00	-36.96