



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: 28th 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., डोंगतिह, 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 27.02.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27th February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 28-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)	53067	60430	51253	20501	2775	188026
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1164	1464	1320	457	49	4455
Hydro Gen (MU)	110	23	44	19	8	203
Wind Gen (MU)	48	146	102	-	-	296
Solar Gen (MU)*	140.79	68.35	136.78	2.75	1.15	350
Energy Shortage (MU)	1.07	0.00	0.00	0.60	0.00	1.67
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61894	70281	64831	22461	2776	219272
Time Of Maximum Demand Met	10:09	10:35	11:24	07:41	18:02	09:51

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	0.029	0.00	0.00	1.56	1.56	79.56	18.88

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	8679	0	168.1	83.8	-1.2	228	0.00
	Haryana	7960	0	150.7	108.3	-1.8	155	0.00
	Rajasthan	16828	0	310.6	83.9	-4.3	252	0.00
	Delhi	4059	0	71.5	62.6	1.3	289	0.00
	UP	17084	0	318.8	102.2	-2.5	513	0.00
	Uttarakhand	2347	0	43.7	34.1	0.5	143	0.00
	HP	2026	0	37.2	32.9	-0.2	106	0.00
	J&K(UT) & Ladakh(UT)	2780	0	56.1	52.3	-1.0	235	1.07
	Chhattisgarh	237	0	3.8	4.1	-0.4	29	0.00
	Railways NR ISTS	180	0	3.5	3.6	-0.1	20	0.00
	Chhattisgarh	5773	0	122.2	61.6	-3.0	325	0.00
	Gujarat	20151	0	414.6	140.5	1.4	887	0.00
WR	MP	13853	0	255.5	169.1	-4.8	470	0.00
	Maharashtra	27749	0	596.7	185.8	-3.6	2548	0.00
	Goa	722	0	13.3	14.4	-1.2	231	0.00
	DNHDDPDCL	1266	0	29.0	28.8	0.2	59	0.00
	AMNSIL	902	0	20.1	10.1	-0.1	246	0.00
	BALCO	523	0	12.5	12.5	0.0	520	0.00
	Andhra Pradesh	12904	0	237.1	94.3	0.2	664	0.00
	Telangana	14810	0	283.0	149.8	-0.1	880	0.00
	Karnataka	16214	0	318.8	137.2	-0.5	739	0.00
	Kerala	4773	0	95.0	74.5	1.7	467	0.00
SR	Tamil Nadu	17785	0	376.7	193.4	-1.5	474	0.00
	Puducherry	441	0	9.8	9.6	-0.3	28	0.00
	Bihar	4710	0	88.9	77.5	-0.5	292	0.00
	DVC	3286	0	70.5	-35.7	0.8	991	0.00
ER	Jharkhand	1630	102	34.1	22.5	-1.3	311	0.60
	Odisha	5198	0	107.6	22.4	-1.5	490	0.00
	West Bengal	7282	0	154.3	19.1	-2.2	161	0.00
	Sikkim	120	0	2.0	2.0	0.0	25	0.00
	Railways ER ISTS	19	0	0.1	0.1	0.0	14	0.00
	Assam	171	0	3.0	2.9	0.1	29	0.00
NER	Assam	1565	0	28.6	22.6	-0.2	116	0.00
	Manipur	212	0	3.1	3.0	0.0	43	0.00
	Meghalaya	364	0	6.6	5.8	-0.1	42	0.00
	Mizoram	136	0	2.0	1.7	-0.2	19	0.00
	Nagaland	155	0	2.6	2.5	0.0	19	0.00
	Tripura	231	0	3.6	3.6	-0.2	30	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-12.6	-14.6	-12.5	-26.6
Day Peak (MW)	-674.5	-572.9	-633.0	-1373.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	197.8	-282.7	256.7	-183.7	12.0	0.0
Actual(MU)	184.4	-281.0	281.8	-200.3	12.8	-2.3
OD/UD(MU)	-13.4	1.7	25.1	-16.6	0.8	-2.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6208	9521	5538	4059	713	26038	50
State Sector	9046	9407	4781	2377	149	25759	50
Total	15254	18927	10319	6435	862	51796	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	666	1532	669	705	9	3581	75
Lignite	31	19	64	0	0	113	2
Hydro	110	23	44	19	8	203	4
Nuclear	30	34	46	0	0	110	2
Gas, Naptha & Diesel	8	20	6	0	25	60	1
RES (Wind, Solar, Biomass & Others)	211	218	291	5	1	726	15
Total	1056	1847	1119	728	43	4793	100
Share of RES in total generation (%)	20.01	11.82	25.96	0.63	2.69	15.16	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.32	14.96	34.00	2.68	20.55	21.66	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.013
Based on State Max Demands	1.026

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	219272	9:51	552
Non-Solar hr	193860	18:58	0

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: 28-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	PUSALI B/B	2	0	48	0.0	0.7	-0.7
3	765 kV	GAYA-VARANASI	2	0	1151	0.0	18.1	-18.1
4	765 kV	SARAM-FATEHPUR	1	0	623	0.0	10.6	-10.6
5	765 kV	GAYA-BALIA	1	0	647	0.0	9.8	-9.8
6	400 kV	PUSALI-VARANASI	1	75	23	0.5	0.0	0.5
7	400 kV	PUSALI-ALLAHABAD	1	0	90	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	714	0.0	6.0	-6.0
9	400 kV	PATNA-BALIA	2	0	678	0.0	16.4	-16.4
10	400 kV	NAUBATPUR-BALIA	2	0	728	0.0	5.5	-5.5
11	400 kV	BHARSHARIFF-BALIA	2	92	291	0.0	1.7	-1.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	570	0.0	8.8	-8.8
13	400 kV	BHARSHARIFF-VARANASI	2	0	484	0.0	6.7	-6.7
14	220 kV	SAHUPUR-KARAMNANA	1	0	120	0.0	1.4	-1.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.0
16	132 kV	GARWAR-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-CHANDOLI	1	0	0	0.0	0.4	-0.4
ER-NR						0.9	87.0	-86.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAGARI	4	1370	0	13.7	0.0	13.7
2	765 kV	NEW RANCHI-DHARAMJAGARI	2	0	1203	0.0	18.1	-18.1
3	765 kV	JHARSUGUDA-DURG	2	0	1065	0.0	21.9	-21.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	711	0.0	11.6	-11.6
5	400 kV	RANCHI-SIPAT	2	0	415	0.0	6.1	-6.1
6	220 kV	BUDHPADAR-RAIGARH	1	29	178	0.0	2.9	-2.9
7	220 kV	BUDHPADAR-KORBA	2	122	100	0.4	0.0	0.4
ER-WR						14.1	60.5	-46.5
Import/Export of ER (With SR)								
1	HVDC	DEYPUR-GAZUWAKA B/B	2	0	640	0.0	14.7	-14.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	41.5	-41.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	3144	0.0	61.1	-61.1
4	400 kV	TALCHER-IC	2	715	220	3.1	0.0	3.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	117.3	-117.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAN	2	0	8	0.7	0.6	0.1
2	400 kV	ALIPURDUAR-BONGAIGAN	2	532	112	3.6	0.0	3.6
3	220 kV	ALIPURDUAR-SALAKATI	2	72	26	0.6	0.0	0.6
ER-NER						4.8	0.6	4.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARALI-AGRA	2	704	0	17.0	0.0	17.0
NER-NR						17.0	0.0	17.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1505	0.0	36.4	-36.4
2	HVDC	VINDHYACHAL B/B	-	424	0	11.6	0.0	11.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1914	0.0	28.7	-28.7
4	765 kV	GWALIOR-AGRA	2	0	2127	0.0	22.4	-22.4
5	765 kV	GWALIOR-PHAGI	2	325	1469	0.9	12.1	-11.2
6	765 kV	JABALPUR-ORAI	2	38	905	0.0	15.7	-15.7
7	765 kV	GWALIOR-ORAI	1	743	0	11.2	0.0	11.2
8	765 kV	SATNA-ORAI	1	0	1155	0.0	20.2	-20.2
9	765 kV	BANASKANTHA-CHITTORGARH	2	1018	1013	4.2	9.3	-5.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	1782	0.0	24.0	-24.0
11	400 kV	ZERDA-KANKROLI	1	195	100	1.4	0.3	1.1
12	400 kV	ZERDA-BHINMAL	1	685	194	5.9	0.5	5.4
13	400 kV	VINDHYACHAL-RIHAND	1	491	0	10.4	0.0	10.4
14	400 kV	RAPP-SHILAPUR	2	558	323	5.6	0.9	4.7
15	220 kV	BHANPURA-RANPUR	1	86	68	0.6	0.3	0.3
16	220 kV	BHANPURA-MORAK	1	0	30	2.0	0.0	2.0
17	220 kV	MEHGAON-AURAIYA	1	101	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	66	15	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						56.0	170.8	-114.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	21.4	-21.4
2	HVDC	RAIGARH-PUGALUR	2	0	5014	0.0	100.4	-100.4
3	765 kV	SOLAPUR-RAICHUR	2	463	1683	1.0	15.9	-14.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2757	0.0	47.1	-47.1
5	765 kV	WARDHA-WARANGAL(NEW)	2	0	2935	0.0	51.7	-51.7
6	400 kV	KOLHAPUR-KUDGI	2	1321	0	21.2	0.0	21.2
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	NELDEEM-AMBEWADI	1	0	121	2.3	0.0	2.3
WR-SR						24.5	236.4	-211.9

INTERNATIONAL EXCHANGES

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)	-222	62	-173	-4.14
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-279	139	-136	-3.27
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-283	-120	-214	-5.13
	NER	132kV GELEPHU-SALAKATI	-28	-4	-17	-0.41
NEPAL	NR	132kV MOTANGA-RANGIA	35	4	17	0.40
	NR	NEPAL IMPORT (FROM UP)	-73	0	-62	-1.48
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-61	-1.46
	ER	NEPAL IMPORT (FROM BHAR)	-168	-35	-101	-2.43
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-405	-132	-386	-9.26
	ER	BHERAMARA B/B HVDC (B'DESH)	-502	-210	-412	-9.90
	ER (Isolated from Indian Grid)	400kV GODDA, TPS-RAHANPUR (B'DESH) DC	-1374	-803	-1106	-26.55
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-131	0	-109	-2.62

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 28-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	11.73	0.00	0.00	0.69	0.00	0.00	12.42
Nepal	0.17	0.00	10.38	0.00	0.00	0.00	0.00	0.00	10.55
Bangladesh	9.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.94
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	10.11	0.00	22.11	0.00	0.00	0.69	0.00	0.00	32.91

Import by India(in MU)

Country	GNA (ISGS/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	-11.73	0.00	0.00	-0.69	0.00	0.00	-12.04
Nepal	-0.17	0.00	-10.38	0.00	0.00	0.00	0.00	0.00	-10.55
Bangladesh	-9.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-9.94
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-9.73	0.00	-22.11	0.00	0.00	-0.69	0.00	0.00	-32.53