

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: 27<sup>th</sup> 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 26.02.2024.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-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 26<sup>th</sup> February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 27-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)	52452	61234	50821	21671	2600	188778
Peak Shortage (MW)	160	0	0	267	0	427
Energy Met (MU)	1178	1471	1287	450	51	4437
Hydro Gen (MU)	113	28	41	18	8	208
Wind Gen (MU)	31	131	118	-	-	280
Solar Gen (MU)*	101.09	58.10	130.34	2.55	1.28	293
Energy Shortage (MU)	1.54	0.00	0.00	1.02	0.00	2.56
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61459	71632	63604	23044	2728	219480
Time Of Maximum Demand Met	10:05	10:43	11:51	09:38	18:50	09:41

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	0.048	0.00	0.53	4.14	4.68	70.37	24.95

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	8684	0	174.4	88.0	-1.3	174	0.00
	Haryana	8265	0	153.7	107.7	-1.3	176	0.00
	Rajasthan	16831	0	313.5	100.7	-6.6	169	0.00
	Delhi	3943	0	71.0	60.9	2.0	364	0.00
	UP	18076	0	324.0	82.2	-1.2	651	0.00
	Uttarakhand	2285	0	42.1	32.7	0.3	175	0.00
	HP	2068	0	36.2	31.8	-0.1	93	0.31
	J&K(UT) & Ladakh(UT)	2831	0	56.0	51.7	-1.2	351	1.23
	Chandigarh	228	0	3.6	3.8	-0.2	25	0.00
Railways NR ISTS	180	0	3.5	3.7	-0.1	11	0.00	
WR	Chhattisgarh	5807	0	128.0	62.4	0.8	345	0.00
	Gujarat	19983	0	398.2	136.6	0.0	949	0.00
	MP	14770	0	282.5	178.2	-4.0	645	0.00
	Maharashtra	28060	0	589.1	173.7	-4.6	701	0.00
	Goa	701	0	12.5	13.8	-1.4	73	0.00
	DNHDDPDCL	1252	0	28.2	28.2	0.0	83	0.00
	AMNSIL	888	0	19.8	9.8	0.2	256	0.00
	BALCO	523	0	12.5	12.5	0.0	8	0.00
SR	Andhra Pradesh	12477	0	232.9	83.1	-2.3	728	0.00
	Telangana	14565	0	277.3	151.6	-2.2	421	0.00
	Karnataka	15756	0	309.3	142.7	-1.4	600	0.00
	Kerala	4647	0	91.7	71.1	1.2	406	0.00
	Tamil Nadu	17714	0	366.2	188.5	-2.0	454	0.00
	Puducherry	429	0	9.5	9.2	-0.3	43	0.00
ER	Bihar	4744	0	87.2	74.9	0.3	261	0.03
	DVC	3308	0	71.5	-50.2	0.8	949	0.00
	Jharkhand	1612	0	34.4	23.2	-1.3	225	0.99
	Odisha	5229	0	110.0	23.5	-0.8	358	0.00
	West Bengal	7191	0	145.2	9.9	-2.3	298	0.00
	Sikkim	111	0	2.0	1.9	0.1	39	0.00
	Railways ER ISTS	10	0	0.1	0.1	0.0	5	0.00
NER	Arunachal Pradesh	169	0	2.9	2.6	0.2	72	0.00
	Assam	1546	0	30.8	21.1	3.4	95	0.00
	Manipur	214	0	3.1	3.0	0.1	40	0.00
	Meghalaya	346	0	6.4	5.1	0.0	75	0.00
	Mizoram	136	0	2.1	1.5	0.0	26	0.00
	Nagaland	141	0	2.5	2.4	0.0	26	0.00
	Tripura	225	0	3.4	3.2	-0.5	37	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-8.7	-14.1	-16.2	-21.4
Day Peak (MW)	-585.3	-270.2	-1049.0	-1123.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	221.9	-274.1	256.2	-217.9	13.9	0.0
Actual(MU)	216.2	-264.8	260.6	-233.6	14.3	-7.4
O/D/U/D(MU)	-5.7	9.3	4.3	-15.7	0.5	-7.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6927	11271	5438	3132	963	27730	54
State Sector	6791	9209	4684	2627	199	23509	46
Total	13717	20480	10122	5759	1162	51239	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	698	1560	671	734	5	3667	77
Lignite	32	17	49	0	0	98	2
Hydro	113	28	41	18	8	208	4
Nuclear	31	24	42	0	0	98	2
Gas, Naptha & Diesel	8	21	6	0	25	60	1
RES (Wind, Solar, Biomass & Others)	155	192	297	4	1	650	14
Total	1038	1842	1105	756	39	4781	100

Share of RES in total generation (%)	14.93	10.43	26.87	0.57	3.26	13.59
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.89	13.26	34.37	2.96	23.95	19.99

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.013
Based on State Max Demands	1.029

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	219480	9:41	247
Non-Solar hr	196532	18:50	279

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: 27-Feb-2024

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
<b>Import/Export of ER (With NR)</b>								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	2	49	0.0	0.7	-0.7
3	765 kV	GAYA-VARANASI	2	0	1429	0.0	25.3	-25.3
4	765 kV	SASARAM-FATEHPUR	1	0	744	0.0	13.0	-13.0
5	765 kV	GAYA-BALIA	1	0	698	0.0	11.6	-11.6
6	400 kV	PUSAULI-VARANASI	1	65	18	0.0	0.7	-0.7
7	400 kV	PUSAULI-ALLAHABAD	1	0	86	0.7	0.0	0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	652	0.0	8.3	-8.3
9	400 kV	PATNA-BALIA	2	0	662	0.0	18.4	-18.4
10	400 kV	NAUBATPUR-BALIA	2	0	601	0.0	6.2	-6.2
11	400 kV	BIHARSHARIFF-BALIA	2	0	246	0.0	3.3	-3.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	556	0.0	9.9	-9.9
13	400 kV	BIHARSHARIFF-VARANASI	2	0	537	0.0	9.5	-9.5
14	220 kV	SAHUPURI-KARAMNANA	1	0	110	0.0	1.6	-1.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
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
<b>ER-NR</b>						<b>1.3</b>	<b>108.4</b>	<b>-107.1</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	873	201	10.3	0.0	10.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1323	0.0	19.8	-19.8
3	765 kV	JHARSUGUDA-DURG	2	0	1147	0.0	22.6	-22.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	751	0.0	14.7	-14.7
5	400 kV	RANCHI-SIPAT	2	0	484	0.0	8.0	-8.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	176	0.0	3.0	-3.0
7	220 kV	BUDHIPADAR-KORBA	2	23	115	0.0	1.2	-1.2
<b>ER-WR</b>						<b>10.3</b>	<b>69.2</b>	<b>-58.9</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	639	0.0	14.7	-14.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1985	0.0	35.3	-35.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	3101	0.0	64.9	-64.9
4	400 kV	TALCHER-I/C	2	713	188	9.2	0.0	9.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>114.9</b>	<b>-114.9</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	8	0.3	0.7	-0.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	337	141	2.0	0.0	2.0
3	220 kV	ALIPURDUAR-SALAKATI	2	63	30	0.5	0.0	0.5
<b>ER-NER</b>						<b>2.8</b>	<b>0.7</b>	<b>2.1</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	702	0	17.2	0.0	17.2
<b>NER-NR</b>						<b>17.2</b>	<b>0.0</b>	<b>17.2</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1516	0.0	34.7	-34.7
2	HVDC	VINDHYACHAL B/B	-	176	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1172	0.0	23.9	-23.9
4	765 kV	GWALIOR-AGRA	2	0	2107	0.0	26.5	-26.5
5	765 kV	GWALIOR-PHAGI	2	0	1875	0.0	23.4	-23.4
6	765 kV	JABALPUR-ORAI	2	0	963	0.0	20.4	-20.4
7	765 kV	GWALIOR-ORAI	1	811	0	13.9	0.0	13.9
8	765 kV	SATNA-ORAI	1	0	1144	0.0	21.3	-21.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1103	996	5.2	6.6	-1.4
10	765 kV	VINDHYACHAL-VARANASI	2	30	1448	0.0	18.2	-18.2
11	400 kV	ZERDA-KANKROLI	1	169	128	1.2	0.5	0.8
12	400 kV	ZERDA -BHINMAL	1	573	286	3.3	1.2	2.1
13	400 kV	VINDHYACHAL -RIHAND	1	489	0	10.8	0.0	10.8
14	400 kV	RAPP-SHUJALPUR	2	503	213	4.1	0.5	3.6
15	220 kV	BHANPURA-RANPUR	1	60	130	0.3	0.7	-0.4
16	220 kV	BHANPURA-MORAK	1	0	30	1.2	0.2	1.0
17	220 kV	MEHGAON-AURAIYA	1	106	0	1.4	0.0	1.4
18	220 kV	MALANPUR-AURAIYA	1	68	5	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
<b>WR-NR</b>						<b>48.2</b>	<b>178.0</b>	<b>-129.8</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1014	0.0	13.0	-13.0
2	HVDC	RAIGARH-PUGALUR	2	0	4512	0.0	72.6	-72.6
3	765 kV	SOLAPUR-RAICHUR	2	340	1657	0.5	23.1	-22.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2888	0.0	49.8	-49.8
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3087	0.0	55.9	-55.9
6	400 kV	KOLHAPUR-KUDGI	2	1517	0	18.1	0.0	18.1
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	73	0.0	0.1	-0.1
9	220 kV	XELDEM-AMBEWADI	1	0	111	2.0	0.0	2.0
<b>WR-SR</b>						<b>20.6</b>	<b>214.5</b>	<b>-193.9</b>

**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)	-222	106	-111	-2.66
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-256	138	-56	-1.34
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-247	-93	-194	-4.66
	NER	132kV GELEPHU-SALAKATI	-24	-2	-16	-0.39
	NER	132kV MOTANGA-RANGIA	28	1	13	0.32
NEPAL	NR	NEPAL IMPORT (FROM UP)	-77	0	-55	-1.33
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-63	-1.52
	ER	NEPAL IMPORT (FROM BIHAR)	145	35	-96	-2.31
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-415	-71	-373	-8.95
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-932	-208	-582	-13.96
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1124	-801	-891	-21.38
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-117	0	-93	-2.24

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 27-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	11.02	0.00	0.00	0.15	0.00	0.00	11.17
Nepal	0.17	0.00	9.61	0.00	0.00	0.00	0.00	0.00	9.78
Bangladesh	14.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.07
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	14.24	0.00	20.63	0.00	0.00	0.15	0.00	0.00	35.02

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	-11.02	0.00	0.00	-0.15	0.00	0.00	-10.79
Nepal	-0.17	0.00	-9.61	0.00	0.00	0.00	0.00	0.00	-9.78
Bangladesh	-14.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-14.07
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-13.86	0.00	-20.63	0.00	0.00	-0.15	0.00	0.00	-34.64