

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: 16<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 15.02.2024.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-फ़रवरी-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 15<sup>th</sup> February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 16-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)	54572	62873	49847	21166	2666	191124
Peak Shortage (MW)	0	0	0	297	0	297
Energy Met (MU)	1185	1489	1277	445	49	4445
Hydro Gen (MU)	97	37	40	20	8	202
Wind Gen (MU)	10	118	82	-	-	211
Solar Gen (MU)*	143.63	68.99	136.84	5.16	0.78	355
Energy Shortage (MU)	0.40	0.00	0.00	0.85	0.25	1.50
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62197	72876	62585	22067	2821	219502
Time Of Maximum Demand Met	10:21	10:34	11:47	18:26	17:49	10:26

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	0.040	0.00	0.32	3.43	3.75	72.49	23.76

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	8701	0	163.5	62.9	-0.5	152	0.00
	Haryana	7865	0	155.2	114.5	-0.5	240	0.00
	Rajasthan	17641	0	325.4	108.2	-3.1	65	0.00
	Delhi	4267	0	74.1	60.9	-0.1	449	0.00
	UP	18059	0	323.7	82.8	0.4	652	0.00
	Uttarakhand	2329	0	42.5	30.4	-0.1	104	0.00
	HP	2025	0	35.0	30.5	0.0	145	0.00
	J&K(UT) & Ladakh(UT)	2846	0	58.2	54.7	-0.7	181	0.40
	Chandigarh	250	0	3.8	4.2	-0.4	3	0.00
Railways NR ISTS	163	0	3.5	3.6	-0.1	29	0.00	
WR	Chhattisgarh	5678	0	118.8	54.6	-1.5	254	0.00
	Gujarat	20146	0	404.7	118.0	-0.2	692	0.00
	MP	15453	0	293.1	175.0	-5.7	823	0.00
	Maharashtra	28535	0	599.1	186.8	-1.5	1059	0.00
	Goa	706	0	13.7	14.3	-0.7	47	0.00
	DNHDDPDCL	1263	0	29.3	29.4	-0.1	33	0.00
	AMNSIL	805	0	18.1	8.3	0.0	353	0.00
	BALCO	522	0	12.5	12.5	0.0	10	0.00
SR	Andhra Pradesh	12344	0	226.6	81.6	0.3	1014	0.00
	Telangana	14535	0	276.0	151.5	-0.5	633	0.00
	Karnataka	16118	0	309.1	134.3	-0.9	956	0.00
	Kerala	4458	0	90.1	74.3	1.1	286	0.00
	Tamil Nadu	17266	0	365.4	182.5	-0.3	617	0.00
	Puducherry	425	0	9.5	9.1	-0.2	89	0.00
ER	Bihar	4704	0	87.2	77.0	-1.4	306	0.00
	DVC	3413	0	70.3	-47.6	0.6	366	0.00
	Jharkhand	1482	0	28.2	22.1	-2.6	226	0.85
	Odisha	5221	0	110.0	26.2	-0.6	333	0.00
	West Bengal	7165	0	147.1	12.7	-2.3	293	0.00
	Sikkim	114	0	2.0	1.9	0.1	35	0.00
Railways ER ISTS	14	0	0.2	0.2	0.0	2	0.00	
NER	Arunachal Pradesh	182	0	3.1	2.6	0.4	44	0.00
	Assam	1589	0	27.6	22.5	-0.2	125	0.00
	Manipur	219	0	2.9	2.9	0.0	39	0.25
	Meghalaya	354	0	6.6	5.3	-0.1	87	0.00
	Mizoram	139	0	2.3	1.7	0.0	33	0.00
	Nagaland	153	0	2.5	2.4	0.0	23	0.00
Tripura	243	0	4.0	3.4	0.2	41	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-9.5	-12.8	-21.1	-28.9
Day Peak (MW)	-400.0	-578.0	-1049.0	-1473.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	213.7	-267.6	202.5	-160.1	11.5	0.0
Actual(MU)	205.8	-281.2	226.0	-170.4	12.6	-7.2
O/D/U/D(MU)	-7.9	-13.6	23.5	-10.2	1.0	-7.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7910	10427	4639	4512	877	28365	55
State Sector	7841	8237	4561	2089	219	22946	45
Total	15751	18663	9200	6601	1096	51312	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	703	1582	706	679	9	3679	76
Lignite	32	20	63	0	0	115	2
Hydro	97	37	40	20	8	202	4
Nuclear	31	24	52	0	0	107	2
Gas, Naptha & Diesel	15	34	7	0	24	80	2
RES (Wind, Solar, Biomass & Others)	178	191	255	7	1	633	13
Total	1057	1888	1123	706	42	4816	100

Share of RES in total generation (%)	16.82	10.13	22.72	1.05	1.89	13.13
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.04	13.40	30.94	3.86	20.32	19.59

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.013
Based on State Max Demands	1.035

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	219502	10:26	21
Non-Solar hr	196771	18:54	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: 16-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	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	1033	0.0	18.0	-18.0
4	765 kV	SASARAM-FATEHPUR	1	0	564	0.0	10.0	-10.0
5	765 kV	GAYA-BALIA	1	0	634	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	1	25	40	0.0	0.3	-0.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	73	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	90	602	0.0	4.4	-4.4
9	400 kV	PATNA-BALIA	2	0	571	0.0	15.0	-15.0
10	400 kV	NAUBATPUR-BALIA	2	0	434	0.0	4.5	-4.5
11	400 kV	BIHARSHARIFF-BALIA	2	141	229	0.0	1.2	-1.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	519	0.0	7.5	-7.5
13	400 kV	BIHARSHARIFF-VARANASI	2	0	338	0.0	5.2	-5.2
14	220 kV	SAHUPURI-KARAMNUSA	1	1	110	0.0	1.4	-1.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
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
<b>ER-NR</b>						<b>0.4</b>	<b>79.1</b>	<b>-78.8</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	482	313	4.0	0.0	4.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	205	1287	0.0	12.8	-12.8
3	765 kV	JHARSUGUDA-DURG	2	0	642	0.0	11.6	-11.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	652	0.0	10.8	-10.8
5	400 kV	RANCHI-SIPAT	2	37	375	0.0	4.1	-4.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	164	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	87	61	0.5	0.0	0.5
<b>ER-WR</b>						<b>4.6</b>	<b>41.7</b>	<b>-37.1</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	390	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2009	0.0	39.2	-39.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2921	0.0	56.3	-56.3
4	400 kV	TALCHER-I/C	2	667	240	5.4	0.0	5.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>104.2</b>	<b>-104.2</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	111	78	0.4	0.4	0.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	359	94	3.0	0.0	3.0
3	220 kV	ALIPURDUAR-SALAKATI	2	73	21	0.8	0.0	0.8
<b>ER-NER</b>						<b>4.1</b>	<b>0.4</b>	<b>3.7</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	703	0	16.7	0.0	16.7
<b>NER-NR</b>						<b>16.7</b>	<b>0.0</b>	<b>16.7</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2004	0.0	48.0	-48.0
2	HVDC	VINDHYACHAL B/B	-	224	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	980	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	93	2409	0.0	27.3	-27.3
5	765 kV	GWALIOR-PHAGI	2	29	1505	0.0	20.1	-20.1
6	765 kV	JABALPUR-ORAI	2	89	989	0.0	19.7	-19.7
7	765 kV	GWALIOR-ORAI	1	927	0	14.5	0.0	14.5
8	765 kV	SATNA-ORAI	1	0	1070	0.0	18.9	-18.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1183	1159	6.0	7.8	-1.8
10	765 kV	VINDHYACHAL-VARANASI	2	52	2168	0.0	25.1	-25.1
11	400 kV	ZERDA-KANKROLI	1	120	208	0.6	1.2	-0.6
12	400 kV	ZERDA-BHINMAL	1	573	451	3.5	3.2	0.3
13	400 kV	VINDHYACHAL-RIHAND	1	491	0	10.5	0.0	10.5
14	400 kV	RAPP-SHUALPUR	2	761	287	4.9	1.0	3.9
15	220 kV	BHANPURA-RANPUR	1	145	121	0.6	0.6	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.6	0.1	0.5
17	220 kV	MEHGAON-AURAIYA	1	115	0	1.4	0.0	1.4
18	220 kV	MALANPUR-AURAIYA	1	79	19	0.8	0.0	0.7
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>49.4</b>	<b>197.4</b>	<b>-147.9</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	16.6	-16.6
2	HVDC	RAIGARH-PUGALUR	2	0	4516	0.0	80.2	-80.2
3	765 kV	SOLAPUR-RAICHUR	2	1051	1308	2.5	11.8	-9.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2507	0.0	44.7	-44.7
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2462	0.0	43.7	-43.7
6	400 kV	KOLHAPUR-KUDGI	2	1464	0	23.1	0.0	23.1
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	70	0.0	0.8	-0.8
9	220 kV	XELDEM-AMBEWADI	1	0	122	2.3	0.0	2.3
<b>WR-SR</b>						<b>27.8</b>	<b>197.7</b>	<b>-169.9</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)	-188	87	-82	-1.97
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-260	223	-82	-1.96
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-360	34	-228	-5.47
	NER	132kV GELEPHU-SALAKATI	-23	0	-13	-0.32
	NER	132kV MOTANGA-RANGIA	22	0	10	0.23
NEPAL	NR	NEPAL IMPORT (FROM UP)	-72	0	-22	-0.54
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-59	-1.41
	ER	NEPAL IMPORT (FROM BIHAR)	-181	-7	-69	-1.65
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-397	-117	-382	-9.16
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-923	-637	-774	-18.57
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1473	-820	-1204	-28.90
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-126	0	-106	-2.55

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 16-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	12.27	0.00	0.00	0.44	0.00	0.00	12.71
Nepal	0.27	0.00	9.57	0.00	0.00	0.00	0.00	0.00	9.84
Bangladesh	18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.60
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	18.87	0.00	21.84	0.00	0.00	0.44	0.00	0.00	41.15

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
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	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40

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	0.40	0.00	-12.27	0.00	0.00	-0.44	0.00	0.00	-12.31
Nepal	-0.27	0.00	-9.57	0.00	0.00	0.00	0.00	0.00	-9.84
Bangladesh	-18.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18.60
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-18.47	0.00	-21.84	0.00	0.00	-0.44	0.00	0.00	-40.75