



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: 19th 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 18.02.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 19-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)	49875	59423	44972	20668	2528	177466
Peak Shortage (MW)	0	0	0	333	0	333
Energy Met (MU)	1112	1467	1201	438	47	4264
Hydro Gen (MU)	98	29	33	18	7	186
Wind Gen (MU)	50	62	62	-	-	174
Solar Gen (MU)*	130.74	75.67	138.48	3.03	0.92	349
Energy Shortage (MU)	0.40	0.00	0.00	1.50	0.08	1.98
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59794	71247	59251	21034	2560	211372
Time Of Maximum Demand Met	10:13	10:41	09:43	18:26	18:00	10:30

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	0.082	0.84	1.05	6.99	8.89	65.02	26.10

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	7584	0	139.0	57.4	-0.6	240	0.00
	Haryana	7189	0	138.0	96.0	-1.0	136	0.01
	Rajasthan	16975	0	311.3	94.2	-7.0	487	0.00
	Delhi	4113	0	67.0	58.2	-0.4	300	0.00
	UP	17457	0	320.6	86.9	0.0	391	0.00
	Uttarakhand	2150	0	38.7	26.9	0.0	114	0.08
	HP	1861	0	33.1	28.6	-0.3	60	0.31
	J&K(UT) & Ladakh(UT)	2751	0	57.5	54.8	-1.1	63	0.00
	Chandigarh	215	0	3.5	3.7	-0.2	25	0.00
Railways NR ISTS	186	0	3.8	3.6	0.3	27	0.00	
WR	Chhattisgarh	5668	0	122.5	58.5	-0.6	253	0.00
	Gujarat	19270	0	394.5	142.2	-3.0	710	0.00
	MP	14905	0	292.2	194.1	-3.3	815	0.00
	Maharashtra	27305	0	582.5	187.3	-3.8	652	0.00
	Goa	666	0	14.0	13.0	0.9	59	0.00
	DNHDDPDCL	1221	0	28.3	28.3	0.0	40	0.00
	AMNSIL	902	0	20.2	10.3	-0.1	239	0.00
	BALCO	521	0	12.4	12.5	-0.1	7	0.00
SR	Andhra Pradesh	12114	0	217.9	78.1	-2.9	525	0.00
	Telangana	13952	0	266.9	143.4	-0.1	654	0.00
	Karnataka	15450	0	291.0	130.4	-1.1	502	0.00
	Kerala	4331	0	84.9	70.5	1.4	313	0.00
	Tamil Nadu	15232	0	331.7	168.2	-2.4	384	0.00
	Puducherry	396	0	8.6	8.8	-0.2	20	0.00
ER	Bihar	4398	97	84.3	71.2	0.8	326	0.19
	DVC	3308	0	70.1	-48.4	0.8	480	0.00
	Jharkhand	1539	41	29.5	21.3	-1.4	218	1.31
	Odisha	5183	0	111.5	27.0	-0.6	462	0.00
	West Bengal	6582	0	140.3	14.6	-2.2	289	0.00
	Sikkim	101	0	1.7	1.9	-0.3	8	0.00
Railways ER ISTS	14	0	0.2	0.1	0.0	4	0.00	
NER	Arunachal Pradesh	172	0	3.0	2.7	0.2	30	0.00
	Assam	1428	0	26.1	20.6	0.1	108	0.00
	Manipur	186	0	2.9	3.1	-0.2	30	0.08
	Meghalaya	315	0	6.5	5.8	-0.1	30	0.00
	Mizoram	121	0	2.2	1.7	0.1	18	0.00
	Nagaland	140	0	2.2	2.3	-0.2	21	0.00
Tripura	226	0	3.7	3.2	-0.2	28	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-10.0	-13.5	-15.2	-28.9
Day Peak (MW)	-614.0	-504.3	-1038.0	-1421.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	177.8	-221.8	203.8	-169.4	9.6	0.0
Actual(MU)	170.8	-213.6	213.1	-188.6	10.6	-7.7
O/D/U/D(MU)	-7.0	8.1	9.4	-19.2	1.0	-7.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8140	8924	5389	4312	738	27503	53
State Sector	9081	9254	4071	1837	219	24461	47
Total	17221	18178	9460	6149	957	51964	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	645	1554	688	674	9	3570	77
Lignite	28	21	47	0	0	96	2
Hydro	98	29	33	18	7	186	4
Nuclear	31	37	52	0	0	120	3
Gas, Naptha & Diesel	11	16	6	0	25	58	1
RES (Wind, Solar, Biomass & Others)	208	140	234	5	1	588	13
Total	1021	1797	1061	697	42	4617	100

Share of RES in total generation (%)	20.34	7.80	22.09	0.71	2.25	12.74
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.09	11.52	30.15	3.26	18.88	19.39

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.011
Based on State Max Demands	1.022

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	211372	10:30	57
Non-Solar hr	182726	6:59	24

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: 19-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	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	1032	0.0	18.7	-18.7
4	765 kV	SASARAM-FATEHPUR	1	0	591	0.0	11.0	-11.0
5	765 kV	GAYA-BALIA	1	0	539	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	1	21	54	0.0	0.4	-0.4
7	400 kV	PUSAULI-ALLAHABAD	1	7	67	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	96	582	0.0	6.6	-6.6
9	400 kV	PATNA-BALIA	2	0	501	0.0	14.5	-14.5
10	400 kV	NAUBATPUR-BALIA	2	0	251	0.0	4.7	-4.7
11	400 kV	BIHARSHARIF-BALIA	2	121	234	0.0	2.7	-2.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	443	0.0	8.0	-8.0
13	400 kV	BIHARSHARIF-VARANASI	2	0	306	0.0	5.3	-5.3
14	220 kV	SAHUPURI-KARAMNANA	1	0	97	0.0	1.5	-1.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.6	0.0	0.6
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						0.7	84.4	-83.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	652	406	3.6	0.0	3.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1406	0.0	20.4	-20.4
3	765 kV	JHARSUGUDA-DURG	2	0	641	0.0	12.3	-12.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	726	0.0	13.5	-13.5
5	400 kV	RANCHI-SIPAT	2	0	418	0.0	7.5	-7.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	194	0.0	3.1	-3.1
7	220 kV	BUDHIPADAR-KORBA	2	53	97	0.0	0.4	-0.4
ER-WR						3.6	57.2	-53.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	650	0.0	13.6	-13.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	36.7	-36.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2991	0.0	54.2	-54.2
4	400 kV	TALCHER-I/C	2	714	161	8.1	0.0	8.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	104.5	-104.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	7	0.8	0.2	0.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	492	62	4.9	0.0	4.9
3	220 kV	ALIPURDUAR-SALAKATI	2	87	9	1.4	0.0	1.4
ER-NER						7.0	0.2	6.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	702	0	17.4	0.0	17.4
NER-NR						17.4	0.0	17.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	3005	0.0	48.6	-48.6
2	HVDC	VINDHYACHAL B/B	-	220	0	5.8	0.0	5.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	980	0.0	18.3	-18.3
4	765 kV	GWALIOR-AGRA	2	0	1835	0.0	21.8	-21.8
5	765 kV	GWALIOR-PHAGI	2	616	1766	1.2	22.5	-21.4
6	765 kV	JABALPUR-ORAI	2	60	793	0.0	15.6	-15.6
7	765 kV	GWALIOR-ORAI	1	1052	0	15.6	0.0	15.6
8	765 kV	SATNA-ORAI	1	0	1032	0.0	18.4	-18.4
9	765 kV	BANASKANTHA-CHITORGARH	2	824	522	6.9	2.8	4.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	1598	0.0	19.8	-19.8
11	400 kV	ZERDA-KANKROLI	1	157	58	1.2	0.1	1.1
12	400 kV	ZERDA -BHINMAL	1	645	41	6.1	0.0	6.1
13	400 kV	VINDHYACHAL -RIHAND	1	498	0	10.9	0.0	10.9
14	400 kV	RAPP-SHUJALPUR	2	719	70	6.9	0.1	6.8
15	220 kV	BHANPURA-RANPUR	1	84	89	0.5	0.5	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	1.7	0.0	1.6
17	220 kV	MEHGAON-AURAIYA	1	111	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	76	1	0.9	0.0	0.9
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						59.1	168.4	-109.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	18.9	-18.9
2	HVDC	RAIGARH-PUGALUR	2	0	5514	0.0	69.9	-69.9
3	765 kV	SOLAPUR-RAICHUR	2	557	1707	1.4	12.1	-10.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2428	0.0	38.6	-38.6
5	765 kV	WARORA-WARANGAL(NEW)	2	0	0	0.0	42.2	-42.2
6	400 kV	KOLHAPUR-KUDGI	2	1339	0	20.2	0.0	20.2
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	70	0.0	1.0	-1.0
9	220 kV	XELDEM-AMBEWADI	1	0	120	3.0	0.0	3.0
WR-SR						24.6	182.7	-158.1

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)	-228	77	-119	-2.85
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	261	-245	3	0.08
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-374	-136	-286	-6.86
	NER	132kV GELEPHU-SALAKATI	-32	0	-20	-0.49
	NER	132kV MOTANGA-RANGIA	16	0	5	0.12
NEPAL	NR	NEPAL IMPORT (FROM UP)	-73	0	-47	-1.12
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-62	-1.49
	ER	NEPAL IMPORT (FROM BIHAR)	-127	0	-76	-1.82
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-377	-185	-377	-9.10
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-924	-197	-538	-12.92
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1421	-909	-1205	-28.93
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-114	0	-96	-2.30

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 19-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	11.50	0.00	0.00	0.05	0.00	0.00	11.55	
Nepal	0.26	0.00	9.94	0.00	0.00	0.00	0.00	0.00	10.20	
Bangladesh	12.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.86	
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total Export	13.12	0.00	21.44	0.00	0.00	0.05	0.00	0.00	34.61	

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	0.08	0.00	0.00	0.08	
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	0.08	0.00	0.00	0.48	

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	-11.50	0.00	0.00	-0.05	0.00	0.00	-11.15	
Nepal	-0.26	0.00	-9.94	0.00	0.00	0.08	0.00	0.00	-10.12	
Bangladesh	-12.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-12.86	
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total Net	-12.72	0.00	-21.44	0.00	0.00	0.03	0.00	0.00	-34.13	