



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रीड 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 January 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 18.01.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-जनवरी-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 18th January 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 19-Jan-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)	59591	60945	46043	20862	2687	190128
Peak Shortage (MW)	1360	0	0	692	117	2169
Energy Met (MU)	1303	1482	1139	442	48	4413
Hydro Gen (MU)	95	44	59	23	10	232
Wind Gen (MU)	15	64	29	-	-	108
Solar Gen (MU)*	94.55	60.47	103.94	1.70	0.72	261
Energy Shortage (MU)	12.73	0.50	0.00	3.52	1.55	18.30
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65894	74204	57110	21676	2666	214834
Time Of Maximum Demand Met	12:20	10:29	11:53	18:39	17:29	10:40

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	0.026	0.00	0.00	1.71	1.71	81.06	17.23

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	8772	0	159.2	58.2	1.3	400	0.00
	Haryana	9154	30	165.7	98.2	-0.1	142	3.97
	Rajasthan	17428	38	328.5	117.9	-0.8	226	5.81
	Delhi	5414	0	91.9	77.0	0.4	454	0.00
	UP	20937	0	401.1	133.2	-1.4	385	0.00
	Uttarakhand	2479	0	47.0	35.4	1.0	237	0.90
	HP	2078	0	37.6	31.6	1.4	252	0.00
	J&K(UT) & Ladakh(UT)	2970	0	63.7	59.0	0.0	297	2.05
	Chandigarh	305	0	5.0	4.9	0.1	59	0.00
Railways NR ISTS	177	0	3.6	3.3	0.3	55	0.00	
WR	Chhattisgarh	4858	0	103.8	53.2	-0.8	458	0.50
	Gujarat	21007	0	411.4	148.7	-0.3	439	0.00
	MP	17247	0	319.2	185.9	-3.2	886	0.00
	Maharashtra	27813	0	573.8	177.9	1.8	946	0.00
	Goa	646	0	13.0	12.7	-0.2	73	0.00
	DNHDDPDCL	1268	0	29.0	28.6	0.4	87	0.00
	AMNSIL	849	0	19.3	8.0	0.3	285	0.00
	BALCO	521	0	12.4	12.5	-0.1	10	0.00
SR	Andhra Pradesh	11307	0	205.1	86.7	3.6	897	0.00
	Telangana	13695	0	255.1	122.6	2.1	1206	0.00
	Karnataka	15438	0	282.9	119.6	0.2	1033	0.00
	Kerala	4160	0	82.2	64.5	0.4	171	0.00
	Tamil Nadu	15261	0	305.7	170.1	1.3	921	0.00
	Puducherry	374	0	7.6	7.5	-0.4	24	0.00
ER	Bihar	5210	249	102.2	94.2	-0.6	245	0.84
	DVC	3233	0	69.2	-45.7	-0.6	395	0.00
	Jharkhand	1600	208	31.4	22.8	-0.6	208	2.68
	Odisha	4517	0	93.6	13.5	-1.9	220	0.00
	West Bengal	6749	0	143.2	16.5	-3.2	141	0.00
	Sikkim	126	0	2.0	2.0	0.0	34	0.00
Railways ER ISTS	4	0	0.1	0.1	0.0	1	0.00	
NER	Arunachal Pradesh	179	0	2.9	2.6	0.1	43	0.00
	Assam	1491	60	26.9	21.0	1.2	198	0.55
	Manipur	206	19	3.1	2.9	0.3	40	0.63
	Meghalaya	335	38	6.3	4.9	-0.3	50	0.37
	Mizoram	156	0	2.3	1.8	-0.2	22	0.00
	Nagaland	142	0	2.2	2.1	0.0	33	0.00
Tripura	239	0	4.0	3.3	-0.1	23	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-11.1	-8.1	-18.8	-28.5
Day Peak (MW)	-701.2	-443.7	-895.0	-1437.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	296.5	-265.1	128.2	-164.8	5.3	0.0
Actual(MU)	295.0	-287.1	142.2	-168.4	5.8	-12.4
O/D/U/D(MU)	-1.4	-21.9	14.0	-3.6	0.6	-12.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7915	8081	4158	4516	642	25312	50
State Sector	6611	9994	6408	2339	281	25632	50
Total	14525	18075	10566	6855	923	50944	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	796	1619	714	671	11	3811	79
Lignite	27	21	59	0	0	107	2
Hydro	95	44	59	23	10	232	5
Nuclear	26	32	76	0	0	134	3
Gas, Naptha & Diesel	17	40	4	0	26	88	2
RES (Wind, Solar, Biomass & Others)	133	126	160	3	1	423	9
Total	1095	1883	1072	697	48	4795	100

Share of RES in total generation (%)	12.17	6.70	14.88	0.45	1.53	8.82
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.28	10.76	27.46	3.76	23.13	16.46

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.062

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	214834	10:40	2269
Non-Solar hr	195653	18:00	2341

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-Jan-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	-	1	48	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	793	0.0	10.9	-10.9
4	765 kV	SASARAM-FATEHPUR	1	0	522	0.0	8.8	-8.8
5	765 kV	GAYA-BALIA	1	0	1030	0.0	15.8	-15.8
6	400 kV	PUSAULI-VARANASI	1	25	39	0.0	0.4	-0.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	74	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	709	0.0	9.6	-9.6
9	400 kV	PATNA-BALIA	2	0	656	0.0	12.1	-12.1
10	400 kV	NAUBATPUR-BALIA	2	0	694	0.0	12.7	-12.7
11	400 kV	BIHARSHARIF-BALIA	2	0	377	0.0	5.4	-5.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	577	0.0	10.1	-10.1
13	400 kV	BIHARSHARIF-VARANASI	2	0	437	0.0	7.0	-7.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	130	0.0	1.9	-1.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
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-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	96.4	-95.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	10	1337	0.0	17.8	-17.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	388	795	0.0	5.8	-5.8
3	765 kV	JHARSUGUDA-DURG	2	0	752	0.0	14.5	-14.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	778	0.0	13.3	-13.3
5	400 kV	RANCHI-SIPAT	2	36	320	0.0	3.5	-3.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	142	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	83	115	0.0	0.5	-0.5
ER-WR						0.0	57.0	-57.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	666	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	16	1192	0.0	11.9	-11.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2577	0.0	49.3	-49.3
4	400 kV	TALCHER-I/C	2	1926	0	32.8	0.0	32.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	71.2	-71.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	182	63	1.4	0.1	1.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	591	0	6.5	0.0	6.5
3	220 kV	ALIPURDUAR-SALAKATI	2	105	0	1.3	0.0	1.3
ER-NER						9.2	0.1	9.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	662	0	16.1	0.0	16.1
NER-NR						16.1	0.0	16.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3016	0.0	72.7	-72.7
2	HVDC	VINDHYACHAL B/B	-	0	100	0.0	2.4	-2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1450	0.0	26.8	-26.8
4	765 kV	GWALIOR-AGRA	2	0	2937	0.0	38.3	-38.3
5	765 kV	GWALIOR-PHAGI	2	0	1120	0.0	18.1	-18.1
6	765 kV	JABALPUR-ORAI	2	0	1247	0.0	30.9	-30.9
7	765 kV	GWALIOR-ORAI	1	881	0	14.5	0.0	14.5
8	765 kV	SATNA-ORAI	1	0	1172	0.0	21.6	-21.6
9	765 kV	BANASKANTHA-CHITORGARH	2	920	1103	5.7	3.7	1.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	3281	0.0	48.9	-48.9
11	400 kV	ZERDA-KANKROLI	1	110	182	0.8	0.7	0.1
12	400 kV	ZERDA -BHINMAL	1	460	447	2.1	2.3	-0.2
13	400 kV	VINDHYACHAL -RIHAND	1	979	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUALPUR	2	155	626	0.7	3.9	-3.2
15	220 kV	BHANPURA-RANPUR	1	149	115	1.1	0.4	0.8
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2
17	220 kV	MEHGAON-AURAIYA	1	72	16	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	39	39	0.3	0.1	0.3
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						48.2	271.9	-223.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	609	0.0	12.4	-12.4
2	HVDC	RAIGARH-PUGALUR	2	0	2503	0.0	38.6	-38.6
3	765 kV	SOLAPUR-RAICHUR	2	812	1552	1.1	13.6	-12.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2621	0.0	37.8	-37.8
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2362	0.0	37.1	-37.1
6	400 kV	KOLHAPUR-KUDGI	2	1311	0	17.3	0.0	17.3
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	XELDEM-AMBEWADI	1	0	109	2.1	0.0	2.1
WR-SR						20.5	139.5	-119.1

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)	-242	-7	-158	-3.79
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-261	199	-103	-2.48
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-231	-76	-171	-4.09
	NER	132kV GELEPHU-SALAKATI	-34	-17	-27	-0.64
	NER	132kV MOTANGA-RANGIA	-19	14	-2	-0.04
NEPAL	NR	NEPAL IMPORT (FROM UP)	-32	0	0	0.00
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-32	0	-7	-0.16
	ER	NEPAL IMPORT (FROM BIHAR)	-45	0	-2	-0.04
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-410	-81	-330	-7.93
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-785	-587	-691	-16.59
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1437	-822	-1189	-28.53
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-110	0	-94	-2.26

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 19-Jan-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	11.34	0.00	0.00	0.12	0.00	0.00	11.46
Nepal	0.24	0.00	7.26	0.00	0.00	0.07	0.00	0.00	7.57
Bangladesh	16.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.55
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	16.79	0.00	18.60	0.00	0.00	0.19	0.00	0.00	35.58

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53
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	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53

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	0.53	0.00	-11.34	0.00	0.00	-0.12	0.00	0.00	-10.93
Nepal	-0.24	0.00	-7.26	0.00	0.00	-0.07	0.00	0.00	-7.57
Bangladesh	-16.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-16.55
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-16.26	0.00	-18.60	0.00	0.00	-0.19	0.00	0.00	-35.05