



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: 09th 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 08.01.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 08th January 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 09-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)	60775	59671	43373	20592	2614	187025
Peak Shortage (MW)	35	0	0	161	88	284
Energy Met (MU)	1236	1410	1062	423	47	4178
Hydro Gen (MU)	99	28	42	16	11	197
Wind Gen (MU)	16	126	72	-	-	214
Solar Gen (MU)*	69.11	52.38	60.53	2.27	1.12	185
Energy Shortage (MU)	6.12	0.00	0.00	3.63	0.58	10.33
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63734	70962	53548	21713	2711	204828
Time Of Maximum Demand Met	18:25	10:53	09:24	18:11	17:30	11:54

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	0.062	0.29	2.84	7.65	10.77	72.10	17.13

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	8249	0	157.4	66.3	0.2	216	0.00
	Haryana	8268	0	157.5	99.4	-0.6	146	1.44
	Rajasthan	17160	0	319.8	114.9	-2.4	410	3.69
	Delhi	5256	0	88.4	75.6	-1.5	220	0.00
	UP	20463	0	358.8	137.8	-0.1	1421	0.00
	Uttarakhand	2368	0	44.9	33.9	0.3	90	0.45
	HP	2044	0	35.9	30.4	0.3	208	0.07
	J&K(UT) & Ladakh(UT)	3015	0	64.4	59.5	-0.1	151	0.47
	Chandigarh	308	0	5.3	4.6	0.7	97	0.00
Railways NR ISTS	159	0	3.2	3.2	0.0	29	0.00	
WR	Chhattisgarh	5081	0	103.4	41.7	-0.7	303	0.00
	Gujarat	20978	0	405.4	130.0	-0.4	820	0.00
	MP	15215	0	276.2	162.9	-3.2	507	0.00
	Maharashtra	26858	0	553.5	169.9	-4.1	883	0.00
	Goa	720	0	12.0	13.7	-2.3	53	0.00
	DNHDDPDCL	1272	0	28.9	28.9	0.0	41	0.00
	AMNSIL	798	0	17.9	9.6	-0.4	231	0.00
BALCO	522	0	12.5	12.5	0.0	12	0.00	
SR	Andhra Pradesh	10425	0	195.7	66.2	1.3	933	0.00
	Telangana	13442	0	240.7	111.2	-0.8	644	0.00
	Karnataka	13502	0	245.2	93.3	-0.2	748	0.00
	Kerala	3895	0	80.9	66.8	0.4	304	0.00
	Tamil Nadu	14680	0	291.6	181.9	-2.2	439	0.00
	Puducherry	377	0	7.6	7.4	-0.4	47	0.00
ER	Bihar	5071	0	91.4	82.4	-2.8	321	1.14
	DVC	3432	0	72.3	-48.8	0.2	246	0.00
	Jharkhand	1687	0	30.8	22.5	-1.1	249	2.49
	Odisha	4523	0	88.2	24.3	-1.3	275	0.00
	West Bengal	6882	0	138.3	32.5	-1.4	307	0.00
	Sikkim	125	0	2.0	2.1	-0.1	10	0.00
Railways ER ISTS	14	0	0.1	0.1	0.0	12	0.00	
NER	Arunachal Pradesh	170	0	3.0	2.7	0.2	34	0.00
	Assam	1546	0	26.7	21.3	0.5	134	0.00
	Manipur	202	17	3.1	3.1	0.0	22	0.31
	Meghalaya	332	39	6.3	5.1	-0.3	47	0.27
	Mizoram	150	0	2.1	1.9	-0.3	20	0.00
	Nagaland	139	0	2.3	2.2	0.0	14	0.00
Tripura	220	0	3.6	2.7	-0.5	28	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-10.1	-7.4	-19.5	-15.0
Day Peak (MW)	-677.0	-382.0	-1039.0	-770.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	320.4	-349.3	137.5	-110.5	1.9	0.0
Actual(MU)	313.8	-355.8	148.2	-114.9	1.4	-7.2
O/D/U/D(MU)	-6.5	-6.5	10.7	-4.4	-0.5	-7.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6479	8679	5758	5291	678	26885	51
State Sector	7736	9367	5240	3422	281	26046	49
Total	14215	18045	10998	8713	959	52930	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	726	1613	654	602	16	3610	79
Lignite	29	13	51	0	0	94	2
Hydro	99	28	42	16	11	197	4
Nuclear	20	37	76	0	0	133	3
Gas, Naptha & Diesel	22	25	7	0	24	78	2
RES (Wind, Solar, Biomass & Others)	108	180	160	4	1	453	10
Total	1005	1897	990	621	52	4565	100

Share of RES in total generation (%)	10.80	9.51	16.13	0.62	2.15	9.93
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	22.65	12.94	28.11	3.19	24.05	17.17

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.038
Based on State Max Demands	1.071

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	204828	11:54	989
Non-Solar hr	195571	18:24	236

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 -> 06:00 to 18:00hrs 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: 09-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	-	0	48	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	91	902	0.0	9.9	-9.9
4	765 kV	SASARAM-FATEHPUR	1	0	542	0.0	6.9	-6.9
5	765 kV	GAYA-BALIA	1	0	736	0.0	13.2	-13.2
6	400 kV	PUSAULI-VARANASI	1	65	28	0.2	0.0	0.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	80	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	559	0.0	6.8	-6.8
9	400 kV	PATNA-BALIA	2	0	577	0.0	9.9	-9.9
10	400 kV	NAUBATPUR-BALIA	2	0	610	0.0	10.3	-10.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	327	0.0	4.4	-4.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	435	0.0	7.0	-7.0
13	400 kV	BIHARSHARIFF-VARANASI	2	0	407	0.0	4.9	-4.9
14	220 kV	SAHUPURI-KARAMNANA	1	1	106	0.0	0.8	-0.8
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
ER-NR						0.5	76.5	-76.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	881	572	1.9	0.0	1.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	694	419	4.8	0.0	4.8
3	765 kV	JHARSUGUDA-DURG	2	0	810	0.0	14.5	-14.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	441	0.0	5.8	-5.8
5	400 kV	RANCHI-SIPAT	2	170	166	0.7	0.0	0.7
6	220 kV	BUDHIPADAR-RAIGARH	1	9	107	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	141	44	0.9	0.0	0.9
ER-WR						8.4	21.8	-13.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	19	0.0	0.0	0.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1995	0.0	37.5	-37.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2567	0.0	43.7	-43.7
4	400 kV	TALCHER-I/C	2	652	253	3.3	0.0	3.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	81.2	-81.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	202	111	2.2	0.1	2.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	680	104	9.3	0.0	9.3
3	220 kV	ALIPURDUAR-SALAKATI	2	106	19	1.7	0.0	1.7
ER-NER						13.3	0.1	13.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	664	0	15.3	0.0	15.3
NER-NR						15.3	0.0	15.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4527	0.0	70.9	-70.9
2	HVDC	VINDHYACHAL B/B	-	91	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1544	0.0	38.5	-38.5
4	765 kV	GWALIOR-AGRA	2	0	2772	0.0	44.3	-44.3
5	765 kV	GWALIOR-PHAGI	2	0	1461	0.0	19.2	-19.2
6	765 kV	JABALPUR-ORAI	2	0	1193	0.0	34.8	-34.8
7	765 kV	GWALIOR-ORAI	1	915	0	13.9	0.0	13.9
8	765 kV	SATNA-ORAI	1	0	1247	0.0	22.4	-22.4
9	765 kV	BANASKANTHA-CHITORGARH	2	602	880	1.4	5.8	-4.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	3024	0.0	52.4	-52.4
11	400 kV	ZERDA-KANKROLI	1	85	125	0.3	0.8	-0.5
12	400 kV	ZERDA -BHINMAL	1	293	333	0.6	3.1	-2.5
13	400 kV	VINDHYACHAL -RIHAND	1	982	0	21.2	0.0	21.2
14	400 kV	RAPP-SHUALPUR	2	126	542	0.3	4.8	-4.5
15	220 kV	BHANPURA-RANPUR	1	0	133	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.1	-1.1
17	220 kV	MEHGAON-AURAIYA	1	83	7	0.7	0.0	0.7
18	220 kV	MALANPUR-AURAIYA	1	53	29	0.3	0.1	0.2
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						41.2	300.4	-259.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	509	0.0	12.0	-12.0
2	HVDC	RAIGARH-PUGALUR	2	0	2006	0.0	37.6	-37.6
3	765 kV	SOLAPUR-RAICHUR	2	965	1730	2.1	11.4	-9.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2723	0.0	35.6	-35.6
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2828	0.0	36.2	-36.2
6	400 kV	KOLHAPUR-KUDGI	2	1430	0	18.7	0.0	18.7
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	119	2.2	0.0	2.2
WR-SR						23.0	132.8	-109.8

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)	0	0	0	-3.60
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	0	0	0	-1.68
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-4.31
	NER	132kV GELEPHU-SALAKATI	-34	-14	-19	-0.46
	NER	132kV MOTANGA-RANGIA	-17	0	-4	-0.10
NEPAL	NR	NEPAL IMPORT (FROM UP)	-71	0	0	0.00
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-49	-1.18
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-382	-31	-259	-6.21
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-916	-343	-723	-17.36
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-770	-398	-624	-14.97
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-123	0	-88	-2.10

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 09-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	10.73	0.00	0.00	0.20	0.00	0.00	10.93
Nepal	0.24	0.00	5.98	0.00	0.00	0.58	0.00	0.00	6.80
Bangladesh	17.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.33
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	17.57	0.00	16.71	0.00	0.00	0.78	0.00	0.00	35.06

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52
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	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52

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	0.52	0.00	-10.73	0.00	0.00	-0.20	0.00	0.00	-10.41
Nepal	-0.24	0.00	-5.98	0.00	0.00	-0.58	0.00	0.00	-6.80
Bangladesh	-17.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-17.33
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-17.05	0.00	-16.71	0.00	0.00	-0.78	0.00	0.00	-34.54