



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: 08th 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 07.01.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 07th January 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 08-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)	57203	55786	39922	19623	2518	175052
Peak Shortage (MW)	70	0	0	364	0	434
Energy Met (MU)	1206	1381	1033	414	46	4080
Hydro Gen (MU)	95	26	32	15	11	179
Wind Gen (MU)	18	142	74	-	-	233
Solar Gen (MU)*	75.61	51.50	92.77	5.35	1.15	226
Energy Shortage (MU)	1.07	0.00	0.00	3.57	0.25	4.89
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61095	69772	52344	20676	2583	203047
Time Of Maximum Demand Met	11:15	10:47	10:05	18:04	18:02	10:48

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	0.052	0.00	0.36	5.06	5.42	72.10	22.49

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	8254	0	154.1	69.9	-0.3	162	0.00
	Haryana	7195	0	148.6	93.9	-1.8	133	0.00
	Rajasthan	17093	0	320.6	128.0	-2.8	238	0.79
	Delhi	5087	0	81.7	69.7	-0.7	296	0.00
	UP	19408	0	351.3	139.6	0.4	1200	0.00
	Uttarakhand	2286	0	42.9	33.3	0.0	182	0.00
	HP	1966	0	34.4	29.8	-0.2	173	0.00
	J&K(UT) & Ladakh(UT)	3013	70	64.4	60.0	-0.6	241	0.28
	Chandigarh	265	0	4.7	4.7	-0.1	53	0.00
Railways NR ISTS	166	0	3.4	3.4	0.0	38	0.00	
WR	Chhattisgarh	4919	0	102.1	44.3	-1.5	449	0.00
	Gujarat	20556	0	391.3	113.3	-1.2	587	0.00
	MP	15198	0	272.4	168.0	-5.3	312	0.00
	Maharashtra	26073	0	543.9	169.4	-1.2	650	0.00
	Goa	642	0	13.1	12.6	-0.1	49	0.00
	DNHDDPDCL	1205	0	28.1	28.0	0.1	55	0.00
	AMNSIL	772	0	17.6	8.8	0.1	255	0.00
	BALCO	526	0	12.5	12.5	0.0	14	0.00
SR	Andhra Pradesh	11066	0	197.9	59.1	-1.8	537	0.00
	Telangana	12839	0	233.6	112.8	-0.6	468	0.00
	Karnataka	12556	0	228.7	94.1	-8.4	722	0.00
	Kerala	3730	0	75.2	62.9	0.8	320	0.00
	Tamil Nadu	13917	0	290.3	170.8	-2.7	545	0.00
	Puducherry	338	0	7.7	7.6	-0.6	24	0.00
ER	Bihar	4925	0	91.0	81.8	-2.2	256	1.28
	DVC	3332	0	71.6	-46.8	0.6	511	0.00
	Jharkhand	1691	0	30.7	22.3	-1.5	192	2.29
	Odisha	4439	0	89.3	24.6	-1.1	318	0.00
	West Bengal	6185	0	129.9	24.1	-1.6	374	0.00
	Sikkim	117	0	1.7	1.8	-0.1	9	0.00
Railways ER ISTS	14	0	0.1	0.1	0.0	2	0.00	
NER	Arunachal Pradesh	170	0	2.9	2.8	0.0	42	0.00
	Assam	1424	0	25.4	20.4	0.1	166	0.00
	Manipur	207	30	3.2	3.2	0.0	23	0.18
	Meghalaya	358	0	6.4	5.6	-0.4	91	0.07
	Mizoram	132	0	2.0	1.8	-0.4	7	0.00
	Nagaland	149	0	2.3	2.3	-0.1	19	0.00
Tripura	225	0	3.6	2.7	-0.6	6	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-10.7	-7.2	-16.6	-11.1
Day Peak (MW)	-692.0	-391.0	-907.0	-769.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	330.6	-343.1	120.9	-108.8	0.5	0.0
Actual(MU)	342.8	-347.3	114.0	-113.5	-1.2	-5.2
O/D/U/D(MU)	12.2	-4.2	-6.9	-4.7	-1.6	-5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6744	8629	4748	6201	290	26611	48
State Sector	9141	10189	5340	3379	281	28329	52
Total	15885	18818	10088	9580	571	54941	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	682	1569	631	576	15	3473	78
Lignite	30	13	52	0	0	95	2
Hydro	95	26	32	15	11	179	4
Nuclear	9	37	76	0	0	122	3
Gas, Naptha & Diesel	15	10	7	0	25	57	1
RES (Wind, Solar, Biomass & Others)	116	197	196	8	1	518	12
Total	947	1852	994	599	52	4444	100

Share of RES in total generation (%)	12.29	10.64	19.68	1.26	2.19	11.65
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.23	14.02	30.59	3.78	23.82	18.43

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.046

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	203047	10:48	925
Non-Solar hr	183112	18:39	266

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: 08-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	49	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	56	986	0.0	10.4	-10.4
4	765 kV	SASARAM-FATEHPUR	1	0	550	0.0	6.5	-6.5
5	765 kV	GAYA-BALIA	1	0	876	0.0	13.9	-13.9
6	400 kV	PUSAULI-VARANASI	1	45	26	0.1	0.0	0.1
7	400 kV	PUSAULI-ALLAHABAD	1	0	92	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	729	0.0	8.3	-8.3
9	400 kV	PATNA-BALIA	2	0	569	0.0	9.4	-9.4
10	400 kV	NAUBATPUR-BALIA	2	0	600	0.0	9.5	-9.5
11	400 kV	BIHARSHARIFF-BALIA	2	0	387	0.0	5.0	-5.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	480	0.0	6.7	-6.7
13	400 kV	BIHARSHARIFF-VARANASI	2	0	447	0.0	5.3	-5.3
14	220 kV	SAHUPURI-KARAMNANA	1	0	125	0.0	1.2	-1.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.2	0.0	0.2
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	78.6	-78.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	605	887	0.0	3.0	-3.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	739	602	2.6	0.0	2.6
3	765 kV	JHARSUGUDA-DURG	2	0	856	0.0	13.8	-13.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	479	0.0	5.3	-5.3
5	400 kV	RANCHI-SIPAT	2	193	204	0.2	0.0	0.2
6	220 kV	BUDHIPADAR-RAIGARH	1	9	133	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	134	97	0.9	0.0	0.9
ER-WR						3.7	23.5	-19.8
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	1643	0.0	37.3	-37.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2228	0.0	37.0	-37.0
4	400 kV	TALCHER-I/C	2	652	645	4.9	0.0	4.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	74.3	-74.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	202	98	2.6	0.0	2.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	647	79	9.9	0.0	9.9
3	220 kV	ALIPURDUAR-SALAKATI	2	115	12	1.9	0.0	1.9
ER-NER						14.4	0.0	14.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	658	0	14.4	0.0	14.4
NER-NR						14.4	0.0	14.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	5027	0.0	77.4	-77.4
2	HVDC	VINDHYACHAL B/B	-	91	294	1.9	1.2	0.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1913	0.0	32.6	-32.6
4	765 kV	GWALIOR-AGRA	2	0	3106	0.0	46.3	-46.3
5	765 kV	GWALIOR-PHAGI	2	0	1558	0.0	20.6	-20.6
6	765 kV	JABALPUR-ORAI	2	0	1336	0.0	36.2	-36.2
7	765 kV	GWALIOR-ORAI	1	997	0	14.6	0.0	14.6
8	765 kV	SATNA-ORAI	1	0	1224	0.0	22.8	-22.8
9	765 kV	BANASKANTHA-CHITORGARH	2	71	1187	0.0	10.6	-10.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3532	0.0	56.4	-56.4
11	400 kV	ZERDA-KANKROLI	1	37	208	0.0	2.2	-2.2
12	400 kV	ZERDA -BHINMAL	1	189	440	0.5	4.1	-3.6
13	400 kV	VINDHYACHAL -RIHAND	1	978	0	21.2	0.0	21.2
14	400 kV	RAPP-SHUALPUR	2	3	718	0.0	8.2	-8.2
15	220 kV	BHANPURA-RANPUR	1	0	135	0.0	2.4	-2.4
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.1	-1.1
17	220 kV	MEHGAON-AURAIYA	1	72	18	0.6	0.0	0.6
18	220 kV	MALANPUR-AURAIYA	1	40	42	0.2	0.0	0.1
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						39.0	322.1	-283.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	15.9	-15.9
2	HVDC	RAIGARH-PUGALUR	2	0	4015	0.0	46.2	-46.2
3	765 kV	SOLAPUR-RAICHUR	2	2032	1408	11.3	8.8	2.5
4	765 kV	WARDHA-NIZAMABAD	2	74	1729	0.0	19.7	-19.7
5	765 kV	WARORA-WARANGAL(NEW)	2	108	2457	0.0	29.1	-29.0
6	400 kV	KOLHAPUR-KUDGI	2	1749	0	22.4	0.0	22.4
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	112	2.1	0.0	2.1
WR-SR						35.9	119.7	-83.8

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	-3.26
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	0	0	0	-2.06
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-4.56
	NER	132kV GELEPHU-SALAKATI	-38	0	-30	-0.73
	NER	132kV MOTANGA-RANGIA	-15	0	-4	-0.09
NEPAL	NR	NEPAL IMPORT (FROM UP)	-72	0	0	0.00
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-56	-1.34
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-391	-88	-245	-5.88
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-822	-443	-622	-14.92
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-770	-402	-461	-11.06
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-85	0	-71	-1.70

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 08-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	10.94	0.00	0.00	0.55	0.00	0.00	11.49
Nepal	0.20	0.00	6.40	0.00	0.00	0.00	0.00	0.00	6.60
Bangladesh	15.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.07
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	15.27	0.00	17.34	0.00	0.00	0.55	0.00	0.00	33.16

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	-10.94	0.00	0.00	-0.55	0.00	0.00	-10.97
Nepal	-0.20	0.00	-6.40	0.00	0.00	0.00	0.00	0.00	-6.60
Bangladesh	-15.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-15.07
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-14.75	0.00	-17.34	0.00	0.00	-0.55	0.00	0.00	-32.64