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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 06.08.2024

To,

1. कार्यकारी निदेशक, पू.क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. 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
3. 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
4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
   Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. 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 05.08.2024.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 5-अगस्त-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 05.08.2024, is available at the NLDC website.

धन्यवाद,
Thanks

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day **Date of Reporting: 06-Aug-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 20:00 hrs; from RLDCs)	73323	55106	48054	26817	3340	206640
Peak Shortage (MW)	1751	0	0	0	0	1751
Energy Met (MU)	1623	1231	1179	576	65	4673
Hydro Gen (MU)	387	87	181	84	34	773
Wind Gen (MU)	29	184	107	-	-	320
Solar Gen (MU)*	81.21	57.46	114.35	2.64	0.67	256
Energy Shortage (MU)	5.73	0.00	0.00	0.00	0.00	5.73
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	76258	56518	56362	27585	3303	208736
Time Of Maximum Demand Met	22:17	19:36	09:54	21:16	19:35	19:50

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	0.041	0.00	0.45	6.68	7.13	70.37	22.50

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	14767	0	337.9	227.0	0.8	9964	0.00
	Haryana	11845	0	252.5	189.6	-1.4	9212	0.00
	Rajasthan	9828	0	217.2	45.5	-4.8	2418	0.00
	Delhi	6461	0	132.2	121.8	-1.2	5915	0.00
	UP	28083	0	535.5	266.0	2.2	15623	5.04
	Uttarakhand	2328	75	49.5	27.3	1.2	1527	0.60
	HP	1667	0	35.1	3.8	-0.5	494	0.00
	J&K(UT) & Ladakh(UT)	2539	0	51.2	25.8	-6.5	1203	0.09
	Chandigarh	404	0	8.0	7.5	0.5	404	0.00
	Railways_NR ISTS	198	0	3.9	3.9	0.0	198	0.00
WR	Chhattisgarh	4004	0	86.0	49.0	-2.3	1770	0.00
	Gujarat	16973	0	378.4	122.5	-3.0	5049	0.00
	MP	10454	0	208.8	74.3	-2.2	1908	0.00
	Maharashtra	22476	0	485.5	170.2	-6.6	5806	0.00
	Goa	634	0	13.2	10.9	2.1	396	0.00
	DNHDDPDCL	1265	0	28.9	28.8	0.1	1153	0.00
	AMNSIL	817	0	17.9	7.8	0.4	231	0.00
	BALCO	525	0	12.6	12.7	-0.1	523	0.00
SR	Andhra Pradesh	11405	0	234.7	68.9	1.5	1306	0.00
	Telangana	14188	0	282.4	158.5	1.9	5279	0.00
	Karnataka	12580	0	224.6	34.9	-0.5	975	0.00
	Kerala	3997	0	77.8	35.8	0.6	384	0.00
	Tamil Nadu	16591	0	349.6	173.4	-1.8	1050	0.00
	Puducherry	458	0	9.8	9.5	-0.2	64	0.00
ER	Bihar	7366	0	150.9	143.0	-1.3	307	0.00
	DVC	3213	0	66.9	-43.5	-1.5	500	0.00
	Jharkhand	2095	0	40.9	29.2	-0.2	240	0.00
	Odisha	5466	0	113.2	40.6	-2.8	485	0.00
	West Bengal	9466	0	202.2	81.1	-1.2	236	0.00
	Sikkim	104	0	1.4	1.3	0.1	20	0.00
	Railways_ER ISTS	19	0	0.1	0.1	0.0	4	0.00
NER	Arunachal Pradesh	156	0	1.7	2.9	-1.6	11	0.00
	Assam	2194	0	43.6	35.8	0.8	147	0.00
	Manipur	187	0	2.7	2.9	-0.2	19	0.00
	Meghalaya	304	0	5.6	0.4	-0.1	58	0.00
	Mizoram	135	0	1.9	0.7	-0.2	5	0.00
	Nagaland	173	0	3.1	2.7	-0.1	12	0.00
	Tripura	324	0	6.0	5.2	0.1	58	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	42.2	14.0	-24.2	-24.0
Day Peak (MW)	1940.2	672.1	-1023.0	-1231.4

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	386.3	-440.9	113.6	-101.0	-2.3	-44.3
Actual(MU)	383.4	-410.6	92.1	-98.3	1.0	-32.3
O/D/U/D(MU)	-2.9	30.3	-21.5	2.7	3.4	12.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4167	11131	6288	4376	597	26559	47
State Sector	7047	13083	8000	2052	131	30312	53
Total	11214	24213	14288	6428	728	56871	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	758	1326	568	652	14	3318	66
Lignite	25	13	46	0	0	84	2
Hydro	387	87	181	84	34	773	15
Nuclear	34	68	76	0	0	178	4
Gas, Naptha & Diesel	15	29	5	0	22	72	1
RES (Wind, Solar, Biomass & Others)	117	244	251	5	1	617	12
Total	1336	1768	1127	741	70	5041	100

Share of RES in total generation (%)	8.74	13.83	22.24	0.65	0.96	12.24
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.28	22.57	45.05	12.00	49.09	31.10

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.054
Based on State Max Demands	1.081

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	204254	15:25	0
Non-Solar hr	208736	19:50	1364

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: 06-Aug-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	751	0.0	18.5	-18.5
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	650	620	0.0	3.3	-3.3
4	765 kV	SASARAM-FATEHPUR	1	207	304	0.0	5.0	-5.0
5	765 kV	GAYA-BALIA	1	0	770	0.0	11.0	-11.0
6	400 kV	PUSAULI-VARANASI	1	0	88	0.0	1.1	-1.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	79	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	656	0.0	10.1	-10.1
9	400 kV	PATNA-BALIA	2	90	618	0.0	8.8	-8.8
10	400 kV	NAUBATPUR-BALIA	2	122	332	0.0	2.0	-2.0
11	400 kV	BIHARSHARIFF-BALIA	2	258	66	1.3	0.0	1.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	407	0.0	6.3	-6.3
13	400 kV	BIHARSHARIFF-VARANASI	2	47	287	0.0	3.7	-3.7
14	220 kV	SAHUPURI-KARAMNASA	1	0	76	0.0	0.4	-0.4
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
					ER-NR	1.7	73.6	-71.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1204	476	8.2	0.0	8.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1914	154	25.8	0.0	25.8
3	765 kV	JHARSUGUDA-DURG	2	110	646	0.0	5.7	-5.7
4	400 kV	JHARSUGUDA-RAIGARH	4	361	223	0.8	0.0	0.8
5	400 kV	RANCHI-SIPAT	2	501	125	5.3	0.0	5.3
6	220 kV	BUDHIPADAR-RAIGARH	1	30	72	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	90	101	0.0	0.2	-0.2
					ER-WR	40.0	6.2	33.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	306	0.0	7.3	-7.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	32.2	-32.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2740	0.0	44.6	-44.6
4	400 kV	TALCHER-I/C	2	781	1171	0.0	2.1	-2.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	84.1	-84.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	21	287	0.0	2.8	-2.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	98	375	0.0	3.0	-3.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	90	0.0	1.0	-1.0
					ER-NER	0.0	6.8	-6.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	308	0.0	7.4	-7.4
					NER-NR	0.0	7.4	-7.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5025	0.0	89.8	-89.8
2	HVDC	VINDHYACHAL B/B	-	108	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1910	0.0	29.5	-29.5
4	765 kV	GWALIOR-AGRA	2	0	2967	0.0	44.4	-44.4
5	765 kV	GWALIOR-PHAGI	2	476	1274	0.8	16.2	-15.4
6	765 kV	JABALPUR-ORAI	2	0	1335	0.0	38.1	-38.1
7	765 kV	GWALIOR-ORAI	1	497	0	7.9	0.0	7.9
8	765 kV	SATNA-ORAI	1	0	1182	0.0	23.5	-23.5
9	765 kV	BANASKANTHA-CHITORGARH	2	458	2052	1.0	19.7	-18.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3837	0.0	70.2	-70.2
11	400 kV	ZERDA-KANKROLI	1	169	255	0.7	1.9	-1.2
12	400 kV	ZERDA -BHINMAL	1	116	177	0.5	1.3	-0.8
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	21.0	0.0	21.0
14	400 kV	RAPP-SHUJALPUR	2	251	541	0.8	5.4	-4.6
15	400 kV	NEEMUCH-Chittorgarh	2	161	601	0.1	7.3	-7.2
16	220 kV	BHANPURA-RANPUR	1	0	95	0.0	1.4	-1.4
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
18	220 kV	MEHGAON-AURAIYA	1	60	62	0.2	0.4	-0.2
19	220 kV	MALANPUR-AURAIYA	1	40	68	0.1	0.6	-0.5
20	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
21	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	35.5	350.3	-314.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	501	0	8.3	0.0	8.3
2	HVDC	RAIGARH-PUGALUR	2	288	301	6.1	0.7	5.4
3	765 kV	SOLAPUR-RAICHUR	2	966	1933	2.1	8.9	-6.8
4	765 kV	WARDHA-NIZAMABAD	2	0	3466	0.0	49.3	-49.3
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3467	0.0	43.4	-43.4
6	400 kV	KOLHAPUR-KUDGI	2	1263	0	22.1	0.0	22.1
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	95	1.8	0.0	1.8
					WR-SR	40.4	102.3	-61.9

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 MANGDECHU HEP 4*180MW)	771	700	729	17.49
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	946	723	884	21.22
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	93	-35	70	1.68
	NER	132kV GELEPHU-SALAKATI	39	14	32	0.77
	NER	132kV MOTANGA-RANGIA	65	5	42	1.00
NEPAL	NR	NEPAL IMPORT (FROM UP)	-6	0	0	0.00
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	69	0	55	1.33
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	603	407	529	12.69
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-934	-920	-933	-22.39
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1231	-814	-1002	-24.04
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-89	0	-76	-1.82

CROSS BORDER EXCHANGE SCHEDULE **Date of Reporting: 06-Aug-2024**

Export From India (in MU)

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Total Export									

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Total Import									

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	
Total Net									