



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: 03.08.2024

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 02.08.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 2-अगस्त-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 02.08.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 03-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)	74054	54430	47400	21798	3268	200950
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1632	1262	1171	461	63	4589
Hydro Gen (MU)	361	65	177	70	28	700
Wind Gen (MU)	28	262	262	-	-	552
Solar Gen (MU)*	52.58	38.52	100.16	1.47	0.63	193
Energy Shortage (MU)	0.25	0.00	0.00	0.00	0.00	0.25
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	75428	55216	54714	23672	3218	200005
Time Of Maximum Demand Met	21:15	19:31	09:55	00:00	20:10	20:46

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	1.89	1.89	79.33	18.78

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	14464	0	316.4	221.6	-2.1	316	0.00
	Haryana	11276	0	241.0	183.5	-3.3	195	0.00
	Rajasthan	11117	0	247.6	72.6	-9.2	31	0.00
	Delhi	6405	0	137.9	125.9	-0.5	211	0.00
	UP	27394	0	541.9	286.0	0.4	348	0.00
	Uttarakhand	2244	0	48.1	20.1	0.1	295	0.00
	HP	1725	0	36.9	5.1	-0.4	98	0.00
	J&K(UT) & Ladakh(UT)	2577	0	52.0	27.0	-0.1	380	0.25
	Chandigarh	412	0	7.7	8.2	-0.4	15	0.00
Railways NR ISTS	203	0	2.1	3.9	-1.9	41	0.00	
WR	Chhattisgarh	3882	0	84.5	45.7	-3.3	496	0.00
	Gujarat	17260	0	388.6	113.8	-2.5	576	0.00
	MP	10371	0	224.6	105.5	-3.2	375	0.00
	Maharashtra	21961	0	490.1	163.6	-0.2	738	0.00
	Goa	645	0	13.7	13.3	0.2	41	0.00
	DNHDDPDCL	1241	0	28.7	28.8	-0.1	0	0.00
	AMNSIL	824	0	18.9	7.8	0.2	226	0.00
	BALCO	525	0	12.6	12.7	-0.1	1	0.00
SR	Andhra Pradesh	10429	0	221.6	45.9	-3.2	530	0.00
	Telangana	13196	0	264.0	155.6	-0.5	792	0.00
	Karnataka	11508	0	211.0	-2.6	-3.8	403	0.00
	Kerala	3799	0	75.8	36.2	-1.3	493	0.00
	Tamil Nadu	18047	0	388.0	170.9	-6.5	929	0.00
	Puducherry	495	0	10.8	10.5	-0.3	54	0.00
ER	Bihar	5770	0	91.8	88.6	-5.4	536	0.00
	DVC	3074	0	59.8	-34.8	0.1	415	0.00
	Jharkhand	1738	0	30.9	26.3	-4.8	243	0.00
	Odisha	5487	0	106.7	30.4	-1.5	427	0.00
	West Bengal	8489	0	170.6	61.8	-4.0	208	0.00
	Sikkim	81	0	1.3	1.4	-0.1	15	0.00
Railways ER ISTS	14	0	0.1	0.2	-0.1	1	0.00	
NER	Arunachal Pradesh	156	0	3.0	2.9	-0.3	22	0.00
	Assam	2354	0	43.6	38.5	-1.4	179	0.00
	Manipur	181	0	2.5	2.7	-0.2	10	0.00
	Meghalaya	303	0	5.2	1.4	-0.3	151	0.00
	Mizoram	120	0	1.8	0.8	-0.4	8	0.00
	Nagaland	167	0	3.0	2.7	-0.2	11	0.00
Tripura	232	0	4.4	5.7	-0.1	56	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	36.2	14.7	-24.2	-19.9
Day Peak (MW)	1852.8	767.9	-1020.0	-1084.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	463.2	-369.8	24.5	-121.4	3.5	0.0
Actual(MU)	451.9	-371.1	30.6	-127.4	5.5	-10.6
O/D/U/D(MU)	-11.3	-1.4	6.1	-6.0	2.0	-10.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4996	10664	5638	5231	255	26783	47
State Sector	5424	12243	10821	1594	232	30313	53
Total	10420	22906	16459	6825	486	57096	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	738	1257	509	581	11	3096	63
Lignite	29	13	46	0	0	87	2
Hydro	361	65	177	70	28	700	14
Nuclear	34	68	76	0	0	178	4
Gas, Naptha & Diesel	16	41	5	0	24	86	2
RES (Wind, Solar, Biomass & Others)	88	302	390	4	1	784	16
Total	1266	1745	1203	654	63	4931	100

Share of RES in total generation (%)	6.96	17.28	32.43	0.57	0.99	15.90
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.20	24.88	53.44	11.20	45.51	33.72

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.061
Based on State Max Demands	1.100

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	199729	11:24	0
Non-Solar hr	200005	20:46	0

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: 03-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	13.2	-13.2
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	66	944	0.0	9.4	-9.4
4	765 kV	SASARAM-FATEHPUR	1	0	454	0.0	6.4	-6.4
5	765 kV	GAYA-BALIA	1	0	805	0.0	12.1	-12.1
6	400 kV	PUSAULI-VARANASI	1	33	44	0.0	0.2	-0.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	126	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1015	0.0	16.9	-16.9
9	400 kV	PATNA-BALIA	2	0	838	0.0	9.2	-9.2
10	400 kV	NAUBATPUR-BALIA	2	0	360	0.0	5.0	-5.0
11	400 kV	BIHARSHARIF-BALIA	2	4	287	0.0	3.1	-3.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	596	0.0	9.1	-9.1
13	400 kV	BIHARSHARIF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	71	0.0	0.7	-0.7
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						0.4	89.8	-89.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	461	497	0.0	2.6	-2.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1551	117	25.1	0.0	25.1
3	765 kV	JHARSUGUDA-DURG	2	142	555	0.0	3.9	-3.9
4	400 kV	JHARSUGUDA-RAIGARH	4	159	217	0.0	0.6	-0.6
5	400 kV	RANCHI-SIPAT	2	427	73	6.5	0.0	6.5
6	220 kV	BUDHIPADAR-RAIGARH	1	27	75	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	63	60	0.2	0.0	0.2
ER-WR						31.8	7.7	24.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	110	0	2.6	0.0	2.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	36.6	-36.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2573	0.0	39.9	-39.9
4	400 kV	TALCHER-I/C	2	152	1154	0.0	7.7	-7.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						2.6	76.5	-73.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	261	0.0	3.8	-3.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	25	464	0.0	5.9	-5.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	99	0.0	1.5	-1.5
ER-NER						0.0	11.2	-11.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	307	0.0	7.3	-7.3
NER-NR						0.0	7.3	-7.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	4010	0.0	71.3	-71.3
2	HVDC	VINDHYACHAL B/B	-	257	63	2.6	0.7	1.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2358	0.0	40.9	-40.9
4	765 kV	GWALIOR-AGRA	2	0	2933	0.0	55.1	-55.1
5	765 kV	GWALIOR-PHAGI	2	0	1322	0.0	21.1	-21.1
6	765 kV	JABALPUR-ORAI	2	0	1424	0.0	48.8	-48.8
7	765 kV	GWALIOR-ORAI	1	511	0	9.6	0.0	9.6
8	765 kV	SATNA-ORAI	1	0	1177	0.0	23.8	-23.8
9	765 kV	BANASKANTHA-CHITTOGARH	2	0	2354	0.0	35.1	-35.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	3467	0.0	69.1	-69.1
11	400 kV	ZERDA-KANKROLI	1	0	456	0.0	5.4	-5.4
12	400 kV	ZERDA-BHINMAL	1	0	211	0.0	2.7	-2.7
13	400 kV	VINDHYACHAL-RIHAND	1	963	0	21.1	0.0	21.1
14	400 kV	RAPP-SHUALPUR	2	0	546	0.0	6.9	-6.9
15	400 kV	NEEMUCH-Chittorgarh	2	0	507	0.0	7.4	-7.4
16	220 kV	BHANPURA-RANPUR	1	0	98	0.0	1.6	-1.6
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2
18	220 kV	MEHGAON-AURAIYA	1	53	40	0.1	0.4	-0.3
19	220 kV	MALANPUR-AURAIYA	1	27	59	0.0	0.6	-0.6
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						33.6	392.0	-358.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	998	0	13.9	0.0	13.9
2	HVDC	RAIGARH-PUGALUR	2	772	0	9.3	0.0	9.3
3	765 kV	SOLAPUR-RAICHUR	2	2071	909	14.7	1.6	13.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2723	0.0	32.8	-32.8
5	765 kV	WARORA-WARANGAL(NEW)	2	119	2680	0.0	29.6	-29.6
6	400 kV	KOLHAPUR-KUDGI	2	2137	0	35.9	0.0	35.9
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	100	1.9	0.0	1.9
WR-SR						75.7	63.9	11.8

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)	727	656	712	17.08	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1023	559	726	17.43	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-43	0	-15	-0.36	
	NER	132kV GELEPHU-SALAKATI	37	14	29	0.69	
	NER	132kV MOTANGA-RANGIA	66	45	55	1.32	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-31	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	68	0	55	1.33	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	700	239	557	13.37	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-943	-930	-942	-22.60	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1084	-668	-829	-19.90	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-77	0	-66	-1.58	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 03-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				
Bhutan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	22.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.42
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.42

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
IEX	PXIL	HPX	IEX	PXIL	HPX				
Bhutan	31.51	0.00	1.28	0.00	0.00	0.00	0.00	0.00	32.79
Nepal	2.63	0.00	11.79	0.00	0.00	0.21	0.00	0.00	14.63
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	34.14	0.00	13.07	0.00	0.00	0.21	0.00	0.00	47.42

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	31.51	0.00	1.28	0.00	0.00	0.00	0.00	0.00	32.79
Nepal	2.63	0.00	11.79	0.00	0.00	0.21	0.00	0.00	14.63
Bangladesh	-22.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.42
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	11.72	0.00	13.07	0.00	0.00	0.21	0.00	0.00	25.00