



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: 16.08.2024

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 15.08.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15.08.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 16-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)	68825	54376	43691	26828	2932	196652
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1529	1295	1130	589	64	4607
Hydro Gen (MU)	378	109	167	86	32	773
Wind Gen (MU)	23	89	29	-	-	141
Solar Gen (MU)*	105.10	71.36	122.62	9.08	0.84	309
Energy Shortage (MU)	0.61	0.00	0.00	0.03	0.00	0.64
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69243	57552	50796	28121	3346	201364
Time Of Maximum Demand Met	21:26	06:29	11:44	22:48	00:18	00:01

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	0.034	0.00	0.05	6.42	6.47	71.07	22.46

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	12857	0	292.5	194.1	-1.1	309	0.00
	Haryana	10118	0	210.0	147.7	-4.5	88	0.00
	Rajasthan	10173	0	230.8	52.1	-9.4	251	0.00
	Delhi	5897	0	113.0	102.0	-1.9	300	0.00
	UP	26449	0	553.9	274.1	-0.8	769	0.00
	Uttarakhand	2068	0	43.9	21.4	-0.1	180	0.61
	HP	1403	0	29.3	-4.4	-0.1	173	0.00
	J&K(UT) & Ladakh(UT)	2389	0	45.9	23.4	-1.8	269	0.00
	Chandigarh	280	0	5.7	6.3	-0.6	12	0.00
Railways NR ISTS	203	0	4.0	3.7	0.3	62	0.00	
WR	Chhattisgarh	5225	0	114.2	71.3	-2.3	318	0.00
	Gujarat	16882	0	386.9	155.6	0.4	1327	0.00
	MP	10931	0	229.5	111.0	-3.4	549	0.00
	Maharashtra	23339	0	498.5	171.6	-1.2	758	0.00
	Goa	596	0	13.0	10.2	2.4	70	0.00
	DNHDDPDCL	1247	0	22.3	22.4	-0.1	68	0.00
	AMNSIL	828	0	18.1	8.3	0.1	285	0.00
	BALCO	522	0	12.4	12.5	-0.1	5	0.00
SR	Andhra Pradesh	11255	0	230.9	84.5	-1.0	390	0.00
	Telangana	14268	0	287.5	161.6	1.3	1012	0.00
	Karnataka	10163	0	211.1	49.0	-1.2	687	0.00
	Kerala	3879	0	78.5	43.6	1.2	640	0.00
	Tamil Nadu	14605	0	313.4	156.2	-1.1	606	0.00
	Puducherry	426	0	9.0	8.6	-0.2	75	0.00
	Bihar	7179	0	149.1	139.3	-1.6	370	0.03
ER	DVC	3251	0	70.2	-40.5	0.2	457	0.00
	Jharkhand	1982	0	41.2	29.6	-0.1	188	0.00
	Odisha	5971	0	118.5	48.3	-3.1	758	0.00
	West Bengal	10220	0	209.6	82.2	-0.9	305	0.00
	Sikkim	53	0	0.7	1.0	-0.2	13	0.00
	Railways ER ISTS	14	0	0.0	0.2	-0.2	0	0.00
NER	Arunachal Pradesh	158	0	2.9	2.4	-0.1	81	0.00
	Assam	2468	0	41.0	34.5	-0.2	219	0.00
	Manipur	200	0	2.8	2.9	0.0	15	0.00
	Meghalaya	292	0	5.5	0.0	-0.2	55	0.00
	Mizoram	108	0	1.8	0.6	-0.2	33	0.00
	Nagaland	183	0	3.2	2.8	-0.1	14	0.00
Tripura	322	0	6.3	5.5	0.5	87	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	41.6	16.3	-23.5	-18.1
Day Peak (MW)	2077.0	782.8	-999.0	-766.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	289.6	-305.1	94.9	-81.6	2.3	0.0
Actual(MU)	276.7	-308.1	98.0	-74.8	1.1	-7.2
O/D/U/D(MU)	-12.9	-3.0	3.1	6.8	-1.2	-7.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3745	11647	4388	4751	597	25128	46
State Sector	5412	11982	8620	2739	141	28893	54
Total	9157	23629	13008	7490	738	54021	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	752	1332	611	633	14	3342	68
Lignite	29	10	51	0	0	89	2
Hydro	378	109	167	86	32	773	16
Nuclear	34	68	76	0	0	178	4
Gas, Naptha & Diesel	15	34	5	0	21	75	2
RES (Wind, Solar, Biomass & Others)	135	164	182	11	1	492	10
Total	1343	1717	1092	730	69	4950	100

Share of RES in total generation (%)	10.04	9.53	16.71	1.46	1.26	9.95
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.75	19.84	38.93	13.28	48.58	29.16

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.038
Based on State Max Demands	1.084

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	194723	12:21	0
Non-Solar hr	201364	0:01	305

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: 16-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	701	0.0	15.8	-15.8
2	HVDC	PUSAULI B/B	-	0	107	0.0	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	1209	382	2.6	0.0	2.6
4	765 kV	SASARAM-FATEHPUR	1	426	248	0.0	0.5	-0.5
5	765 kV	GAYA-BALIA	1	0	683	0.0	9.6	-9.6
6	400 kV	PUSAULI-VARANASI	1	0	178	0.0	2.8	-2.8
7	400 kV	PUSAULI -ALLAHABAD	1	73	22	0.3	0.0	0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	114	605	0.0	8.7	-8.7
9	400 kV	PATNA-BALIA	2	369	462	0.0	4.8	-4.8
10	400 kV	NAUBATPUR-BALIA	2	174	122	0.0	2.2	-2.2
11	400 kV	BIHARSHARIFF-BALIA	2	379	96	1.2	0.0	1.2
12	400 kV	MOTIHARI-GORAKHPUR	2	124	300	0.0	3.9	-3.9
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNUSA	1	0	66	0.0	0.1	-0.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
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						4.5	50.8	-46.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	646	493	0.0	0.9	-0.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1898	0	24.9	0.0	24.9
3	765 kV	JHARSUGUDA-DURG	2	173	281	0.0	2.3	-2.3
4	400 kV	JHARSUGUDA-RAIGARH	4	157	463	0.0	4.8	-4.8
5	400 kV	RANCHI-SIPAT	2	500	66	4.8	0.0	4.8
6	220 kV	BUDHIPADAR-RAIGARH	1	96	66	0.0	0.0	0.0
7	220 kV	BUDHIPADAR-KORBA	2	37	128	0.0	1.0	-1.0
ER-WR						29.7	9.0	20.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	522	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1795	0.0	38.2	-38.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2094	0.0	29.0	-29.0
4	400 kV	TALCHER-I/C	2	712	773	1.5	0.0	1.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	79.6	-79.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	20	413	0.0	3.1	-3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	71	593	0.0	4.5	-4.5
3	220 kV	ALIPURDUAR-SALAKATI	2	22	135	0.0	1.1	-1.1
ER-NER						0.0	8.7	-8.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	355	0.0	8.5	-8.5
NER-NR						0.0	8.5	-8.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2520	0.0	60.2	-60.2
2	HVDC	VINDHYACHAL B/B	-	92	0	2.5	0.0	2.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1447	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	0	2168	0.0	27.3	-27.3
5	765 kV	GWALIOR-PHAGI	2	923	748	4.0	6.6	-2.6
6	765 kV	JABALPUR-ORAI	2	0	979	0.0	24.9	-24.9
7	765 kV	GWALIOR-ORAI	1	415	61	5.9	0.1	5.9
8	765 kV	SATNA-ORAI	1	0	897	0.0	15.8	-15.8
9	765 kV	BANASKANTHA-CHITTOGARH	2	804	1030	1.3	8.7	-7.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3221	0.0	59.7	-59.7
11	400 kV	ZERDA-KANKROLI	1	233	155	1.0	0.6	0.4
12	400 kV	ZERDA -BHINMAL	1	161	107	0.7	0.4	0.3
13	400 kV	VINDHYACHAL -RIHAND	1	0	1	0.0	0.0	0.0
14	400 kV	RAPP-SHUJALPUR	2	538	279	3.4	1.8	1.6
15	400 kV	NEEMUCH-Chittorgarh	2	491	366	2.4	3.1	-0.7
16	220 kV	BHANPURA-RANPUR	1	0	97	0.0	1.7	-1.7
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.9	-0.9
18	220 kV	MEHGAON-AURAIYA	1	61	20	0.6	0.0	0.6
19	220 kV	MALANPUR-AURAIYA	1	38	37	0.2	0.1	0.1
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						22.0	248.3	-226.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	510	0.0	12.0	-12.0
2	HVDC	RAIGARH-PUGALUR	2	0	2006	0.0	37.2	-37.2
3	765 kV	SOLAPUR-RAICHUR	2	2007	377	14.9	0.4	14.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2361	0.0	30.1	-30.1
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2058	0.0	23.5	-23.5
6	400 kV	KOLHAPUR-KUDGI	2	1654	0	25.7	0.0	25.7
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	109	2.2	0.0	2.2
WR-SR						42.8	103.1	-60.3

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)	894	688	737	17.68
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1012	808	880	21.12
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	97	-33	41	0.99
	NER	132kV GELEPHU-SALAKATI	66	29	42	1.01
	NER	132kV MOTANGA-RANGIA	63	5	35	0.84
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	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	715	471	625	14.99
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-895	-752	-884	-21.21
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-766	-738	-754	-18.10
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	104	0	-94	-2.26

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 16-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	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16
Bangladesh	22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.10
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.26

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	39.83	0.00	1.08	0.00	0.00	0.45	0.00	0.00	41.36
Nepal	2.53	0.00	13.68	0.00	0.00	0.00	0.00	0.00	16.21
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	42.36	0.00	14.76	0.00	0.00	0.45	0.00	0.00	57.57

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	39.83	0.00	1.08	0.00	0.00	0.45	0.00	0.00	41.36
Nepal	2.37	0.00	13.68	0.00	0.00	0.00	0.00	0.00	16.05
Bangladesh	-22.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.10
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	20.10	0.00	14.76	0.00	0.00	0.45	0.00	0.00	35.31