



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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 25.08.2024

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 24.08.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-अगस्त-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड 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 24.08.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 25-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)	74107	53857	45545	25797	3494	202800
Peak Shortage (MW)	102	0	0	0	0	102
Energy Met (MU)	1639	1307	1133	568	69	4716
Hydro Gen (MU)	370	104	152	88	35	749
Wind Gen (MU)	9	145	222	-	-	376
Solar Gen (MU)*	141.68	50.13	104.52	2.31	0.90	300
Energy Shortage (MU)	0.17	0.00	0.00	0.00	0.00	0.17
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	74335	58069	51680	26265	3546	205462
Time Of Maximum Demand Met	21:23	09:59	10:20	20:14	18:46	10:44

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	0.027	0.00	0.00	1.83	1.83	82.78	15.39

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	15139	0	323.4	207.2	-1.4	429	0.00
	Haryana	11308	0	241.9	185.0	-1.6	250	0.00
	Rajasthan	12761	0	277.8	98.4	-0.7	677	0.00
	Delhi	6086	0	127.1	114.7	-0.1	306	0.00
	UP	26187	0	519.9	243.9	1.9	569	0.00
	Uttarakhand	2383	0	50.6	26.0	0.7	115	0.00
	HP	1732	0	35.9	6.6	-0.4	60	0.00
	J&K(UT) & Ladakh(UT)	2653	102	51.9	25.0	2.9	413	0.17
	Chandigarh	318	0	6.6	7.1	-0.5	27	0.00
Railways NR ISTS	207	0	4.2	3.9	0.4	38	0.00	
WR	Chhattisgarh	4667	0	105.7	63.5	-1.6	340	0.00
	Gujarat	19892	0	420.1	172.2	-5.1	480	0.00
	MP	10751	0	228.4	130.2	-3.7	471	0.00
	Maharashtra	21962	0	477.7	166.5	-9.3	721	0.00
	Goa	640	0	14.0	11.6	2.0	26	0.00
	DNHDDPDCL	1314	0	30.4	30.6	-0.2	62	0.00
	AMNSIL	800	0	18.4	7.8	0.9	333	0.00
	BALCO	526	0	12.6	12.6	0.0	6	0.00
SR	Andhra Pradesh	9776	0	213.6	33.9	-2.4	870	0.00
	Telangana	12435	0	242.4	114.4	-1.8	619	0.00
	Karnataka	10616	0	204.2	20.9	-3.4	711	0.00
	Kerala	4115	0	83.9	55.7	1.1	332	0.00
	Tamil Nadu	17546	0	378.1	172.1	-4.0	767	0.00
	Puducherry	477	0	10.8	10.5	-0.3	31	0.00
ER	Bihar	7012	0	137.1	127.7	-1.5	247	0.00
	DVC	3294	0	70.6	-38.9	0.1	376	0.00
	Jharkhand	1937	0	39.7	31.7	-3.0	130	0.00
	Odisha	5154	0	123.3	52.0	-2.7	577	0.00
	West Bengal	9042	0	195.9	67.8	-2.0	183	0.00
	Sikkim	73	0	1.2	1.4	-0.2	11	0.00
Railways ER ISTS	13	0	0.1	0.1	0.0	0	0.00	
NER	Arunachal Pradesh	163	0	2.9	2.8	-0.5	14	0.00
	Assam	2426	0	46.8	38.7	0.6	138	0.00
	Manipur	196	0	2.6	2.8	-0.2	17	0.00
	Meghalaya	325	0	5.7	-0.7	0.0	46	0.00
	Mizoram	128	0	2.7	0.5	-0.2	28	0.00
	Nagaland	169	0	2.7	2.6	-0.4	30	0.00
Tripura	268	0	5.2	4.2	0.6	100	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	41.2	17.6	-22.9	-18.2
Day Peak (MW)	1962.0	822.4	-985.0	-768.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	375.3	-280.3	-0.8	-98.4	4.2	0.0
Actual(MU)	377.6	-275.7	-22.9	-90.6	2.8	-8.7
O/D/U/D(MU)	2.3	4.7	-22.1	7.8	-1.4	-8.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3119	11150	3478	4536	280	22563	40
State Sector	6042	15104	9374	2899	155	33573	60
Total	9161	26253	12852	7435	435	56136	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	742	1281	582	628	12	3245	64
Lignite	23	15	39	0	0	77	2
Hydro	370	104	152	88	35	749	15
Nuclear	34	69	76	0	0	178	4
Gas, Naptha & Diesel	20	40	5	0	22	87	2
RES (Wind, Solar, Biomass & Others)	157	199	358	4	1	719	14
Total	1345	1708	1212	720	70	5056	100

Share of RES in total generation (%)	11.66	11.67	29.53	0.59	1.31	14.22
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.68	21.76	48.34	12.87	50.86	32.57

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.092

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	205462	10:44	0
Non-Solar hr	204948	19:36	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: 25-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	700	0.0	12.0	-12.0
2	HVDC	PUSAULI B/B	-	0	110	0.0	2.7	-2.7
3	765 kV	GAYA-VARANASI	2	345	872	0.0	8.3	-8.3
4	765 kV	SASARAM-FATEHPUR	1	55	489	0.0	5.2	-5.2
5	765 kV	GAYA-BALIA	1	0	873	0.0	12.8	-12.8
6	400 kV	PUSAULI-VARANASI	1	0	122	0.0	1.9	-1.9
7	400 kV	PUSAULI-ALLAHABAD	1	12	63	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	788	0.0	12.2	-12.2
9	400 kV	PATNA-BALIA	2	0	808	0.0	11.9	-11.9
10	400 kV	NAUBATPUR-BALIA	2	7	247	0.0	3.3	-3.3
11	400 kV	BIHARSHARIFF-BALIA	2	111	240	0.0	2.3	-2.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	428	0.0	6.0	-6.0
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	61	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	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	79.5	-79.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	375	788	0.0	3.3	-3.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1569	231	20.7	0.0	20.7
3	765 kV	JHARSUGUDA-DURG	2	145	319	0.0	1.5	-1.5
4	400 kV	JHARSUGUDA-RAIGARH	4	139	406	0.0	3.1	-3.1
5	400 kV	RANCHI-SIPAT	2	402	180	3.9	0.0	3.9
6	220 kV	BUDHIPADAR-RAIGARH	1	58	73	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	72	94	0.0	0.5	-0.5
ER-WR						24.5	8.6	15.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	428	0.0	10.1	-10.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	792	0.0	19.3	-19.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2281	0.0	27.4	-27.4
4	400 kV	TALCHER-I/C	2	1093	0	19.6	0.0	19.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	56.9	-56.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	96	230	0.1	2.3	-2.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	147	380	0.0	3.5	-3.5
3	220 kV	ALIPURDUAR-SALAKATI	2	12	83	0.0	1.1	-1.1
ER-NER						0.1	6.9	-6.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	350	0.0	6.0	-6.0
NER-NR						0.0	6.0	-6.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2522	0.0	58.2	-58.2
2	HVDC	VINDHYACHAL B/B	-	101	105	1.7	0.7	1.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1446	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	0	2754	0.0	43.3	-43.3
5	765 kV	GWALIOR-PHAGI	2	591	1739	1.8	20.8	-19.0
6	765 kV	JABALPUR-ORAI	2	0	1415	0.0	42.7	-42.7
7	765 kV	GWALIOR-ORAI	1	615	0	9.8	0.0	9.8
8	765 kV	SATNA-ORAI	1	0	1104	0.0	20.2	-20.2
9	765 kV	BANASKANTHA-CHITTOGARH	2	411	1689	0.8	17.9	-17.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	3160	0.0	55.9	-55.9
11	400 kV	ZERDA-KANKROLI	1	182	258	0.7	2.4	-1.7
12	400 kV	ZERDA-BHINMAL	1	125	181	0.5	1.6	-1.2
13	400 kV	VINDHYACHAL-RIHAND	1	0	1	0.0	0.0	0.0
14	400 kV	RAPP-SHUJALPUR	2	312	652	1.1	6.0	-5.0
15	400 kV	NEEMUCH-Chittorgarh	2	266	645	0.6	5.9	-5.3
16	220 kV	BHANPURA-RANPUR	1	0	58	0.0	1.2	-1.2
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6
18	220 kV	MEHGAON-AURAIYA	1	86	45	0.5	0.2	0.4
19	220 kV	MALANPUR-AURAIYA	1	58	57	0.2	0.3	-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						17.6	315.1	-297.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	995	0	15.8	0.0	15.8
2	HVDC	RAIGARH-PUGALUR	2	0	602	0.0	12.3	-12.3
3	765 kV	SOLAPUR-RAICHUR	2	2502	741	25.5	1.0	24.5
4	765 kV	WARDHA-NIZAMABAD	2	357	2150	0.7	16.6	-15.9
5	765 kV	WARORA-WARANGAL(NEW)	2	600	1994	1.9	13.5	-11.7
6	400 kV	KOLHAPUR-KUDGI	2	2038	0	35.3	0.0	35.3
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	2.1	0.0	2.1
WR-SR						81.3	43.5	37.8

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 MANGDECHU HEP 4*180MW)	743	551	661	15.85	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	942	0	873	20.96	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	89	89	89	2.16	
	NER	132kV GELEPHU-SALAKATI	40	23	32	0.76	
	NER	132kV MOTANGA-RANGIA	73	45	63	1.51	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-17	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	66	0	56	1.35	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	756	500	675	16.20	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-910	-761	-897	-21.53	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-768	-684	-758	-18.18	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-75	0	-57	-1.36	

