



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: 24.08.2024

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 23.08.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23.08.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 24-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)	72515	58001	47795	26022	3572	207905
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1636	1405	1150	552	69	4812
Hydro Gen (MU)	364	102	163	93	35	756
Wind Gen (MU)	9	86	122	-	-	217
Solar Gen (MU)*	146.52	71.44	124.80	1.94	1.13	346
Energy Shortage (MU)	0.00	0.74	0.00	0.00	0.00	0.74
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	73088	62710	53190	26290	3623	211407
Time Of Maximum Demand Met	19:47	11:09	12:36	20:47	18:58	19:31

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	0.042	0.00	0.00	0.29	0.29	64.48	35.23

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	15280	0	316.5	196.3	0.4	634	0.00
	Haryana	10942	0	237.3	178.3	-0.2	404	0.00
	Rajasthan	12661	0	279.8	99.1	-2.7	696	0.00
	Delhi	6233	0	129.7	117.4	-0.5	346	0.00
	UP	25882	0	521.2	237.9	1.0	399	0.00
	Uttarakhand	2261	0	49.3	25.5	1.1	151	0.00
	HP	1723	0	36.4	6.3	0.5	163	0.00
	J&K(UT) & Ladakh(UT)	2588	0	54.1	27.0	1.9	392	0.00
	Chandigarh	365	0	7.5	7.5	0.0	30	0.00
	Railways NR ISTS	209	0	4.0	3.9	0.2	41	0.00
WR	Chhattisgarh	4877	0	112.2	67.1	-2.1	179	0.00
	Gujarat	21766	0	459.8	196.3	-0.9	463	0.00
	MP	11108	0	243.5	147.0	-3.0	352	0.74
	Maharashtra	23160	0	513.9	190.3	-6.5	612	0.00
	Goa	668	0	14.8	12.1	2.2	59	0.00
	DNHDDPDCL	1317	0	30.6	30.7	-0.1	51	0.00
	AMNSIL	807	0	18.0	8.1	0.3	244	0.00
	BALCO	529	0	12.6	12.6	0.0	10	0.00
	Andhra Pradesh	10338	0	219.1	55.6	-0.6	625	0.00
	Telangana	12823	0	257.5	122.0	0.6	650	0.00
SR	Karnataka	10578	0	209.5	36.0	-1.5	611	0.00
	Kerala	4262	0	83.9	52.6	1.5	437	0.00
	Tamil Nadu	17191	0	369.7	177.5	0.3	1194	0.00
	Puducherry	471	0	10.5	10.0	-0.1	32	0.00
	Bihar	6638	0	125.2	119.0	-2.4	277	0.00
	DVC	3352	0	70.9	-47.1	0.9	326	0.00
ER	Jharkhand	1983	0	39.4	30.2	-2.6	144	0.00
	Odisha	5457	0	113.7	44.2	-1.2	634	0.00
	West Bengal	9238	0	201.5	69.5	-1.8	245	0.00
	Sikkim	85	0	1.3	1.4	-0.1	13	0.00
	Railways ER ISTS	9	0	0.1	0.2	-0.1	0	0.00
	Arunachal Pradesh	176	0	3.3	2.8	-0.2	21	0.00
NER	Assam	2488	0	48.4	39.4	1.0	157	0.00
	Manipur	184	0	1.3	3.0	-1.6	27	0.00
	Meghalaya	328	0	5.9	-0.6	0.2	147	0.00
	Mizoram	114	0	1.9	0.5	-0.3	10	0.00
	Nagaland	180	0	3.1	2.7	-0.1	19	0.00
	Tripura	243	0	4.8	4.1	0.2	61	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	40.7	17.4	-22.5	-18.2
Day Peak (MW)	2279.0	817.8	-980.0	-773.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	337.4	-228.8	10.6	-120.8	1.7	0.0
Actual(MU)	337.2	-233.5	10.7	-122.6	0.6	-7.6
O/D/U/D(MU)	-0.2	-4.7	0.2	-1.8	-1.1	-7.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2709	9966	2678	4536	280	20169	43
State Sector	5422	10081	8635	2832	155	27124	57
Total	8130	20047	11313	7368	435	47293	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	775	1368	644	642	14	3444	67
Lignite	22	15	39	0	0	76	1
Hydro	364	102	163	93	35	756	15
Nuclear	34	67	76	0	0	177	3
Gas, Naptha & Diesel	29	54	5	0	23	111	2
RES (Wind, Solar, Biomass & Others)	162	161	279	3	1	606	12
Total	1386	1767	1205	738	74	5170	100

Share of RES in total generation (%)	11.69	9.09	23.17	0.46	1.54	11.73
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.39	18.66	42.94	12.99	49.59	29.78

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.080

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	211346	11:37	0
Non-Solar hr	211407	19:31	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: 24-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	17.2	-17.2
2	HVDC	PUSAULI B/B	-	0	110	0.0	2.7	-2.7
3	765 kV	GAYA-VARANASI	2	348	950	0.0	10.6	-10.6
4	765 kV	SASARAM-FATEHPUR	1	76	493	0.0	6.3	-6.3
5	765 kV	GAYA-BALIA	1	0	838	0.0	12.6	-12.6
6	400 kV	PUSAULI-VARANASI	1	0	136	0.0	1.9	-1.9
7	400 kV	PUSAULI-ALLAHABAD	1	25	72	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	769	0.0	12.7	-12.7
9	400 kV	PATNA-BALIA	2	0	819	0.0	12.8	-12.8
10	400 kV	NAUBATPUR-BALIA	2	5	417	0.0	3.7	-3.7
11	400 kV	BIHARSHARIFF-BALIA	2	133	256	0.0	2.1	-2.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	434	0.0	6.6	-6.6
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	54	0.0	0.6	-0.6
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-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	90.2	-89.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	291	775	0.0	5.2	-5.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1366	304	15.8	0.0	15.8
3	765 kV	JHARSUGUDA-DURG	2	7	392	0.0	3.7	-3.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	582	0.0	6.8	-6.8
5	400 kV	RANCHI-SIPAT	2	296	238	1.4	0.0	1.4
6	220 kV	BUDHIPADAR-RAIGARH	1	30	85	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	41	138	0.0	1.4	-1.4
ER-WR						17.2	17.8	-0.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	438	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	792	0.0	19.3	-19.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2124	0.0	32.5	-32.5
4	400 kV	TALCHER-I/C	2	1079	0	20.1	0.0	20.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	61.8	-61.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	57	338	0.0	3.0	-3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	123	377	0.0	2.6	-2.6
3	220 kV	ALIPURDUAR-SALAKATI	2	4	100	0.0	1.0	-1.0
ER-NER						0.0	6.6	-6.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	353	0.0	8.4	-8.4
NER-NR						0.0	8.4	-8.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2525	0.0	60.3	-60.3
2	HVDC	VINDHYACHAL B/B	-	111	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1447	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	0	2343	0.0	32.6	-32.6
5	765 kV	GWALIOR-PHAGI	2	611	1566	2.4	18.9	-16.5
6	765 kV	JABALPUR-ORAI	2	0	1259	0.0	34.2	-34.2
7	765 kV	GWALIOR-ORAI	1	642	0	10.6	0.0	10.6
8	765 kV	SATNA-ORAI	1	0	1045	0.0	18.5	-18.5
9	765 kV	BANASKANTHA-CHITTOGARH	2	768	943	2.7	6.3	-3.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2902	0.0	48.6	-48.6
11	400 kV	ZERDA-KANKROLI	1	241	167	1.6	0.9	0.7
12	400 kV	ZERDA -BHINMAL	1	167	115	1.1	0.6	0.5
13	400 kV	VINDHYACHAL -RIHAND	1	0	2	0.0	0.0	0.0
14	400 kV	RAPP-SHUJALPUR	2	345	526	1.9	4.4	-2.5
15	400 kV	NEEMUCH-Chittorgarh	2	311	529	1.8	4.7	-2.9
16	220 kV	BHANPURA-RANPUR	1	0	63	0.0	1.2	-1.2
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
18	220 kV	MEHGAON-AURAIYA	1	109	0	1.2	0.0	1.2
19	220 kV	MALANPUR-AURAIYA	1	77	20	0.5	0.0	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						26.2	269.3	-243.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	299	0	7.2	0.0	7.2
2	HVDC	RAIGARH-PUGALUR	2	0	602	0.0	14.4	-14.4
3	765 kV	SOLAPUR-RAICHUR	2	1777	622	18.9	0.6	18.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2090	0.0	22.5	-22.5
5	765 kV	WARORA-WARANGAL(NEW)	2	138	1901	0.1	17.9	-17.9
6	400 kV	KOLHAPUR-KUDGI	2	1994	0	36.6	0.0	36.6
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	111	2.2	0.0	2.2
WR-SR						64.9	55.5	9.5

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)	846	407	604	14.48	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1030	0	546	13.10	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	174	69	93	2.22	
	NER	132kV GELEPHU-SALAKATI	50	22	31	0.74	
	NER	132kV MOTANGA-RANGIA	75	0	59	1.42	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	70	0	58	1.40	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	748	578	668	16.04	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-910	-761	-886	-21.26	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-773	-663	-757	-18.17	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-70	0	-53	-1.28	

