



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: 20.08.2024

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 19.08.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19.08.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 20-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)	66515	53431	46287	26806	3150	196189
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1554	1318	1157	590	62	4682
Hydro Gen (MU)	384	106	151	86	31	759
Wind Gen (MU)	17	45	50	-	-	112
Solar Gen (MU)*	155.94	86.22	95.66	2.93	0.59	341
Energy Shortage (MU)	0.00	0.00	0.00	0.00	0.00	0.00
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	70240	57038	55344	27212	3172	207670
Time Of Maximum Demand Met	00:00	11:19	11:56	22:54	18:45	11:56

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	0.00	5.67	5.67	76.33	18.00

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	13286	0	292.7	190.1	-3.0	298	0.00
	Haryana	9766	0	218.0	159.0	-2.2	269	0.00
	Rajasthan	10908	0	249.1	80.4	-3.4	295	0.00
	Delhi	6262	0	129.0	108.9	1.8	704	0.00
	UP	24864	0	532.4	252.8	0.3	320	0.00
	Uttarakhand	1931	0	40.3	17.3	-0.9	226	0.00
	HP	1551	0	31.1	-2.8	1.1	167	0.00
	J&K(UT) & Ladakh(UT)	2493	0	51.1	25.5	0.6	175	0.00
	Chandigarh	302	0	6.6	6.6	0.0	73	0.00
Railways NR ISTS	201	0	4.2	3.9	0.2	33	0.00	
WR	Chhattisgarh	4981	0	113.4	69.8	-0.6	259	0.00
	Gujarat	17011	0	373.9	152.9	-2.6	910	0.00
	MP	11261	0	244.4	129.0	-3.2	464	0.00
	Maharashtra	23336	0	514.6	204.9	-5.3	930	0.00
	Goa	660	0	14.7	11.8	2.5	54	0.00
	DNHDDPDCL	1181	0	25.8	25.9	-0.1	51	0.00
	AMNSIL	810	0	18.6	6.9	0.4	237	0.00
	BALCO	523	0	12.5	12.6	-0.1	4	0.00
SR	Andhra Pradesh	11446	0	231.2	102.6	-0.8	641	0.00
	Telangana	14052	0	263.2	144.3	-0.3	892	0.00
	Karnataka	11315	0	219.0	66.5	-1.2	858	0.00
	Kerala	4075	0	83.3	50.8	0.3	619	0.00
	Tamil Nadu	16200	0	350.7	178.2	3.0	1163	0.00
	Puducherry	483	0	10.1	10.3	-0.8	36	0.00
ER	Bihar	7013	0	150.3	139.4	-0.3	206	0.00
	DVC	3324	0	69.8	-39.9	-0.4	994	0.00
	Jharkhand	2013	0	41.9	31.5	-1.4	218	0.00
	Odisha	5782	0	124.9	50.6	-2.6	445	0.00
	West Bengal	9607	0	202.1	76.1	-2.0	380	0.00
	Sikkim	83	0	1.3	1.4	-0.1	19	0.00
Railways ER ISTS	21	0	0.1	0.1	0.0	11	0.00	
NER	Arunachal Pradesh	162	0	2.9	2.7	-0.3	20	0.00
	Assam	2148	0	42.0	34.8	0.2	176	0.00
	Manipur	163	0	2.4	2.6	-0.2	16	0.00
	Meghalaya	313	0	5.7	0.5	-0.1	40	0.00
	Mizoram	115	0	1.5	0.6	-0.4	11	0.00
	Nagaland	159	0	2.7	2.2	-0.1	19	0.00
Tripura	234	0	4.8	3.9	0.2	45	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	40.8	17.4	-23.2	-18.1
Day Peak (MW)	1963.0	832.7	-991.0	-768.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	266.2	-291.5	129.1	-103.9	0.1	0.0
Actual(MU)	245.7	-284.5	138.9	-105.8	-1.7	-7.4
O/D/U/D(MU)	-20.6	7.0	9.9	-1.9	-1.9	-7.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3495	9782	3078	3931	255	20541	42
State Sector	5752	10887	9195	1939	155	27927	58
Total	9247	20669	12273	5870	409	48468	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	740	1379	624	666	15	3424	68
Lignite	29	12	50	0	0	91	2
Hydro	384	106	151	86	31	759	15
Nuclear	34	65	76	0	0	175	3
Gas, Naptha & Diesel	20	30	5	0	23	78	2
RES (Wind, Solar, Biomass & Others)	180	133	178	4	1	496	10
Total	1388	1724	1084	756	69	5022	100
Share of RES in total generation (%)	12.97	7.70	16.40	0.59	0.87	9.87	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.12	17.61	37.32	11.92	46.06	28.45	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.059

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	207670	11:56	0
Non-Solar hr	199887	0:00	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: 20-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	16.2	-16.2
2	HVDC	PUSAULI B/B	-	0	107	0.0	2.6	-2.6
3	765 kV	GAYA-VARANASI	2	840	583	0.0	1.9	-1.9
4	765 kV	SASARAM-FATEHPUR	1	318	288	0.0	1.7	-1.7
5	765 kV	GAYA-BALIA	1	0	677	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	1	0	186	0.0	2.9	-2.9
7	400 kV	PUSAULI-ALLAHABAD	1	79	22	0.4	0.0	0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	67	652	0.0	8.2	-8.2
9	400 kV	PATNA-BALIA	2	291	506	0.0	5.4	-5.4
10	400 kV	NAUBATPUR-BALIA	2	150	150	0.0	0.9	-0.9
11	400 kV	BIHARSHARIFF-BALIA	2	315	98	1.2	0.0	1.2
12	400 kV	MOTIHARI-GORAKHPUR	2	111	317	0.0	3.7	-3.7
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	50	0.0	0.8	-0.8
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	0	0	0.7	0.0	0.7
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						2.3	53.8	-51.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	662	881	0.0	1.5	-1.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1233	231	16.6	0.0	16.6
3	765 kV	JHARSUGUDA-DURG	2	0	417	0.0	5.4	-5.4
4	400 kV	JHARSUGUDA-RAIGARH	4	6	503	0.0	6.7	-6.7
5	400 kV	RANCHI-SIPAT	2	274	195	1.1	0.0	1.1
6	220 kV	BUDHIPADAR-RAIGARH	1	18	65	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	44	129	0.0	1.3	-1.3
ER-WR						17.7	15.5	2.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	527	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	41.0	-41.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2368	0.0	40.9	-40.9
4	400 kV	TALCHER-I/C	2	373	592	2.2	0.0	2.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	94.3	-94.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	72	239	0.2	2.1	-2.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	145	318	0.0	2.0	-2.0
3	220 kV	ALIPURDUAR-SALAKATI	2	7	64	0.0	0.7	-0.7
ER-NER						0.2	4.8	-4.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	353	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	2505	0.0	60.0	-60.0
2	HVDC	VINDHYACHAL B/B	-	94	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1448	0.0	35.7	-35.7
4	765 kV	GWALIOR-AGRA	2	0	1854	0.0	21.0	-21.0
5	765 kV	GWALIOR-PHAGI	2	1117	1229	6.7	13.7	-7.0
6	765 kV	JABALPUR-ORAI	2	47	975	0.0	21.5	-21.5
7	765 kV	GWALIOR-ORAI	1	612	33	8.2	0.0	8.2
8	765 kV	SATNA-ORAI	1	0	922	0.0	16.7	-16.7
9	765 kV	BANASKANTHA-CHITTOGARH	2	982	650	6.9	3.5	3.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2619	0.0	46.6	-46.6
11	400 kV	ZERDA-KANKROLI	1	254	94	2.2	0.3	1.9
12	400 kV	ZERDA-BHINMAL	1	175	65	1.5	0.2	1.3
13	400 kV	VINDHYACHAL-RIHAND	1	0	1	0.0	0.0	0.0
14	400 kV	RAPP-SHUJALPUR	2	526	398	4.3	3.1	1.3
15	400 kV	NEEMUCH-Chittorgarh	2	457	411	3.1	3.3	-0.2
16	220 kV	BHANPURA-RANPUR	1	0	82	0.0	1.3	-1.3
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3
18	220 kV	MEHGAON-AURAIYA	1	98	0	1.1	0.0	1.1
19	220 kV	MALANPUR-AURAIYA	1	68	16	0.6	0.0	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						37.1	228.2	-191.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1004	0.0	20.1	-20.1
2	HVDC	RAIGARH-PUGALUR	2	0	2007	0.0	38.0	-38.0
3	765 kV	SOLAPUR-RAICHUR	2	1261	980	7.2	3.5	3.7
4	765 kV	WARDHA-NIZAMABAD	2	19	2326	0.0	33.6	-33.6
5	765 kV	WARORA-WARANGAL(NEW)	2	21	2255	0.0	30.8	-30.8
6	400 kV	KOLHAPUR-KUDGI	2	1431	0	25.5	0.0	25.5
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	104	2.2	0.0	2.2
WR-SR						34.9	125.9	-91.0

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)	748	0	675	16.20	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	969	876	883	21.19	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	73	29	54	1.31	
	NER	132kV GELEPHU-SALAKATI	38	0	33	0.78	
	NER	132kV MOTANGA-RANGIA	72	0	54	1.30	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.45	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	765	614	666	15.98	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-913	-909	-911	-21.85	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-768	-737	-755	-18.12	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-78	0	-55	-1.32	

