



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: 31.08.2024

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 30.08.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30.08.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 31-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)	72213	56675	45435	28278	3688	206289
Peak Shortage (MW)	0	96	0	264	10	370
Energy Met (MU)	1526	1280	1138	620	73	4637
Hydro Gen (MU)	377	119	163	80	31	770
Wind Gen (MU)	21	107	204	-	-	332
Solar Gen (MU)*	140.42	74.98	95.19	3.16	1.27	315
Energy Shortage (MU)	0.00	0.26	0.00	0.88	0.03	1.17
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72398	58410	54404	28777	3853	208965
Time Of Maximum Demand Met	19:51	19:25	09:11	20:35	18:49	19:26

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	6.50	6.50	78.91	14.58

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	10423	0	211.5	130.7	-2.1	1038	0.00
	Haryana	10308	0	215.0	154.5	-1.4	208	0.00
	Rajasthan	12787	0	282.9	88.6	-1.0	576	0.00
	Delhi	6158	0	124.9	111.7	0.9	268	0.00
	UP	27428	0	546.0	261.2	0.1	567	0.00
	Uttarakhand	2455	0	52.8	26.1	0.0	120	0.00
	HP	1695	0	35.4	0.6	-0.2	94	0.00
	J&K(UT) & Ladakh(UT)	2488	0	46.8	22.5	0.3	319	0.00
	Chandigarh	339	0	6.6	6.6	0.1	65	0.00
Railways NR ISTS	213	0	4.2	3.9	0.3	44	0.00	
WR	Chhattisgarh	5399	0	120.3	71.5	-1.7	265	0.00
	Gujarat	15524	0	322.8	148.6	-6.1	864	0.00
	MP	11642	0	249.8	141.1	-1.9	403	0.26
	Maharashtra	23619	0	512.1	170.0	-5.3	831	0.00
	Goa	650	0	13.9	11.6	2.0	33	0.00
	DNHDDPDCL	1289	0	30.2	30.2	0.0	37	0.00
	AMNSIL	803	0	18.0	8.5	0.2	42	0.00
	BALCO	527	0	12.6	12.6	0.0	7	0.00
SR	Andhra Pradesh	10328	0	212.9	43.8	-0.4	983	0.00
	Telangana	13360	0	268.3	147.2	-2.8	612	0.00
	Karnataka	11839	0	218.5	47.8	0.9	1468	0.00
	Kerala	3965	0	80.4	49.7	0.3	283	0.00
	Tamil Nadu	16260	0	348.3	159.1	-6.2	845	0.00
	Puducherry	453	0	9.9	9.8	-0.5	23	0.00
ER	Bihar	7678	0	156.4	142.9	1.7	355	0.70
	DVC	3436	0	73.4	-34.2	-0.7	337	0.00
	Jharkhand	2091	0	44.7	33.1	1.4	368	0.18
	Odisha	5689	0	118.2	45.8	-2.0	495	0.00
	West Bengal	10707	0	225.6	98.7	-1.7	320	0.00
	Sikkim	101	0	1.3	1.4	-0.1	22	0.00
	Railways ER ISTS	14	0	0.2	0.1	0.0	3	0.00
NER	Arunachal Pradesh	195	0	3.4	2.9	0.1	28	0.00
	Assam	2617	0	50.2	43.9	0.2	148	0.03
	Manipur	196	0	3.1	3.0	0.1	27	0.00
	Meghalaya	301	0	5.7	0.4	0.0	56	0.00
	Mizoram	123	0	1.9	0.5	-0.2	54	0.00
	Nagaland	174	0	3.1	2.7	-0.2	21	0.00
Tripura	341	0	5.9	4.9	0.6	76	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	34.9	18.0	-22.7	-23.5
Day Peak (MW)	1694.2	884.1	-987.0	-1514.1

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	242.1	-212.8	32.5	-73.3	11.6	0.0
Actual(MU)	245.9	-206.2	11.8	-66.0	11.8	-2.8
O/D/U/D(MU)	3.8	6.6	-20.6	7.3	0.2	-2.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2950	14665	2708	3481	280	24084	41
State Sector	6057	14611	11549	2759	155	35130	59
Total	9007	29276	14257	6240	435	59215	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	746	1182	571	661	14	3173	64
Lignite	26	9	51	0	0	86	2
Hydro	377	119	163	80	31	770	15
Nuclear	34	69	76	0	0	179	4
Gas, Naptha & Diesel	15	32	5	0	21	72	1
RES (Wind, Solar, Biomass & Others)	168	185	332	5	1	691	14
Total	1364	1597	1197	747	67	4972	100
Share of RES in total generation (%)	12.29	11.60	27.71	0.73	1.94	13.91	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.39	23.41	47.63	11.48	48.77	33.00	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.070

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	201065	15:08	0
Non-Solar hr	208965	19:26	580

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 -> 06:00 to 18:00hrs 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: 31-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	112	0.0	2.8	-2.8
3	765 kV	GAYA-VARANASI	2	1120	455	2.7	0.0	2.7
4	765 kV	SASARAM-FATEHPUR	1	509	273	0.8	0.0	0.8
5	765 kV	GAYA-BALIA	1	0	790	0.0	10.6	-10.6
6	400 kV	PUSAULI-VARANASI	1	0	165	0.0	2.9	-2.9
7	400 kV	PUSAULI-ALLAHABAD	1	56	15	0.3	0.0	0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	314	480	0.0	3.5	-3.5
9	400 kV	PATNA-BALIA	2	328	673	0.0	6.5	-6.5
10	400 kV	NAUBATPUR-BALIA	2	167	816	0.0	1.2	-1.2
11	400 kV	BIHARSHARIFF-BALIA	2	449	25	3.4	0.0	3.4
12	400 kV	MOTIHARI-GORAKHPUR	2	211	320	0.0	2.3	-2.3
13	400 kV	BIHARSHARIFF-VARANASI	2	66	241	0.0	3.4	-3.4
14	220 kV	SAHUPURI-KARAMNANA	1	0	64	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	30	0	0.4	0.0	0.4
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						7.6	51.0	-43.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	257	1242	0.0	7.0	-7.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2282	0	37.7	0.0	37.7
3	765 kV	JHARSUGUDA-DURG	2	21	446	0.0	5.0	-5.0
4	400 kV	JHARSUGUDA-RAIGARH	4	71	540	0.0	5.6	-5.6
5	400 kV	RANCHI-SIPAT	2	545	95	6.1	0.0	6.1
6	220 kV	BUDHIPADAR-RAIGARH	1	43	65	0.0	0.1	-0.1
7	220 kV	BUDHIPADAR-KORBA	2	46	133	0.0	1.2	-1.2
ER-WR						43.8	18.8	25.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	531	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	792	0.0	19.3	-19.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2167	0.0	30.4	-30.4
4	400 kV	TALCHER-I/C	2	1090	0	16.7	0.0	16.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	62.2	-62.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	522	0.0	8.7	-8.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	688	0.0	11.0	-11.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	144	0.0	2.6	-2.6
ER-NER						0.0	22.3	-22.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.0	-12.0
NER-NR						0.0	12.0	-12.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2525	0.0	59.9	-59.9
2	HVDC	VINDHYACHAL B/B	-	248	125	1.9	1.4	0.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	486	0.0	0.0	0.0
4	765 kV	GWALIOR-AGRA	2	61	2318	0.0	29.4	-29.4
5	765 kV	GWALIOR-PHAGI	2	1136	1555	4.4	15.3	-10.9
6	765 kV	JABALPUR-ORAI	2	0	1271	0.0	30.1	-30.1
7	765 kV	GWALIOR-ORAI	1	612	12	9.2	0.0	9.2
8	765 kV	SATNA-ORAI	1	0	926	0.0	16.6	-16.6
9	765 kV	BANASKANTHA-CHITORGARH	2	979	513	6.7	1.1	5.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3214	0.0	60.9	-60.9
11	400 kV	ZERDA-KANKROLI	1	179	82	1.2	0.4	0.8
12	400 kV	ZERDA -BHINMAL	1	519	176	5.4	0.7	4.7
13	400 kV	VINDHYACHAL -RIHAND	1	0	1	0.0	0.0	0.0
14	400 kV	RAPP-SHUALPUR	2	340	538	2.2	3.4	-1.3
15	400 kV	NEEMUCH-Chittorgarh	2	258	632	1.1	4.5	-3.5
16	220 kV	BHANPURA-RANPUR	1	0	0	0.0	1.3	-1.3
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
18	220 kV	MEHGAON-AURAIYA	1	101	10	1.0	0.0	1.0
19	220 kV	MALANPUR-AURAIYA	1	71	29	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						33.4	227.1	-193.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	500	509	2.3	9.8	-7.5
2	HVDC	RAIGARH-PUGALUR	2	0	501	0.0	12.1	-12.1
3	765 kV	SOLAPUR-RAICHUR	2	2376	548	24.7	0.6	24.1
4	765 kV	WARDHA-NIZAMABAD	2	650	2115	1.6	20.2	-18.6
5	765 kV	WARORA-WARANGAL(NEW)	2	822	1874	2.2	15.8	-13.6
6	400 kV	KOLHAPUR-KUDGI	2	2057	0	38.2	0.0	38.2
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	107	2.1	0.0	2.1
WR-SR						71.1	58.4	12.7

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)	608	437	534	12.82	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	828	678	739	17.75	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	73	73	73	2.46	
	NER	132kV GELEPHU-SALAKATI	65	19	41	0.97	
	NER	132kV MOTANGA-RANGIA	75	0	38	0.91	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-46	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	70	0	55	1.33	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	814	582	694	16.65	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-914	-674	-884	-21.21	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1514	-707	-980	-23.52	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-73	0	-63	-1.50	

