



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: 20.09.2024

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 19.09.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2023 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-सितंबर-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेंकें 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 19.09.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 20-Sep-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)	65549	62511	50987	28428	3787	211262
Peak Shortage (MW)	266	2967	0	740	33	4006
Energy Met (MU)	1433	1446	1328	616	79	4902
Hydro Gen (MU)	350	132	156	92	28	757
Wind Gen (MU)	22	65	151	-	-	238
Solar Gen (MU)*	149.64	93.43	143.00	3.53	1.28	391
Energy Shortage (MU)	0.93	17.87	0.00	2.55	0.14	21.49
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65976	64870	63014	29087	3905	217271
Time Of Maximum Demand Met	19:52	16:33	10:00	23:52	18:23	14:59

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	0.069	0.57	4.80	7.59	12.96	74.63	12.41

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	12937	0	266.6	137.1	-3.4	498	0.00
	Haryana	9579	0	199.7	142.8	-2.5	202	0.00
	Rajasthan	13530	0	299.2	89.8	0.6	686	0.00
	Delhi	4986	0	103.0	101.7	-1.1	200	0.00
	UP	23180	0	421.8	180.8	-0.2	514	0.00
	Uttarakhand	2299	0	45.7	19.5	0.3	284	0.03
	HP	1751	0	35.4	2.1	-0.8	76	0.00
	J&K(UT) & Ladakh(UT)	2552	0	51.4	32.1	1.7	265	0.90
	Chandigarh	285	0	5.9	6.0	-0.1	34	0.00
Railways NR ISTS	194	0	4.0	3.9	0.1	56	0.00	
WR	Chhattisgarh	5354	26	121.2	65.2	1.1	334	2.24
	Gujarat	22425	0	470.3	177.9	2.5	1208	0.00
	MP	11115	159	224.0	87.6	-1.6	709	0.38
	Maharashtra	26543	3311	555.6	169.5	6.0	1074	15.25
	Goa	678	0	14.3	11.5	2.5	82	0.00
	DNHDDPDCL	1345	0	31.0	31.0	0.0	35	0.00
	AMNSIL	798	0	17.3	7.7	0.3	290	0.00
	BALCO	527	0	12.6	12.6	0.0	25	0.00
SR	Andhra Pradesh	12409	0	246.1	99.2	-1.5	386	0.00
	Telangana	15294	0	303.8	155.8	-0.7	759	0.00
	Karnataka	15600	0	277.6	113.2	2.4	1109	0.00
	Kerala	4231	0	86.4	55.2	1.0	316	0.00
	Tamil Nadu	18514	0	403.1	173.8	-4.4	476	0.00
	Puducherry	516	0	11.4	10.8	0.0	45	0.00
ER	Bihar	7309	446	149.3	139.6	-2.0	493	2.55
	DVC	3416	0	71.2	-48.7	-2.0	305	0.00
	Jharkhand	2117	0	41.9	31.7	0.1	113	0.00
	Odisha	6156	0	129.7	27.2	0.5	440	0.00
	West Bengal	11056	0	222.2	87.6	-0.9	316	0.00
	Sikkim	93	0	1.3	1.4	-0.1	12	0.00
Railways ER ISTS	17	0	0.1	0.1	0.0	2	0.00	
NER	Arunachal Pradesh	193	0	3.4	2.9	0.1	27	0.00
	Assam	2599	10	54.5	45.5	1.5	238	0.06
	Manipur	223	0	3.2	3.0	0.2	41	0.08
	Meghalaya	272	0	4.7	1.2	-0.1	110	0.00
	Mizoram	125	0	2.5	0.6	0.1	49	0.00
	Nagaland	182	0	3.3	2.8	0.1	33	0.00
Tripura	359	0	6.8	6.3	0.4	83	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	36.0	18.0	-22.3	-24.9
Day Peak (MW)	1952.0	865.6	-997.0	-1135.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	177.0	-219.0	142.9	-115.8	14.8	0.0
Actual(MU)	155.0	-193.7	134.7	-118.9	15.6	-7.4
O/D/U/D(MU)	-22.1	25.2	-8.2	-3.2	0.8	-7.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4670	17080	3798	5036	280	30864	56
State Sector	4681	9299	8162	2129	176	24446	44
Total	9351	26378	11960	7165	456	55310	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	766.07	1351	653	697	16	3483.46	67
Lignite	26.64	16	65	0	0	107.24	2
Hydro	349.68	132	156	92	28	757.05	15
Nuclear	29.81	53	71	0	0	154.23	3
Gas, Naptha & Diesel	9.59	47	5	0	23	84.10	2
RES (Wind, Solar, Biomass & Others)	176.79	162	322	6	1	668.03	12
Total	1358.58	1760.65	1271.87	794.58	68.43	5254	100

Share of RES in total generation (%)	13.01	9.19	25.32	0.76	1.87	12.01
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.95	19.71	43.15	12.32	42.77	29.49

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.044
Based on State Max Demands	1.108

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	217271	14:59	0
Non-Solar hr	210422	19:06	5095

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: 20-Sep-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	351	0.0	8.5	-8.5
2	HVDC	PUSAULI B/B	-	0	112	0.0	2.8	-2.8
3	765 kV	GAYA-VARANASI	2	285	556	0.0	2.6	-2.6
4	765 kV	SASARAM-FATEHPUR	1	141	166	0.0	0.3	-0.3
5	765 kV	GAYA-BALIA	1	0	559	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	0	187	0.0	3.6	-3.6
7	400 kV	PUSAULI-ALLAHABAD	1	78	0	0.9	0.0	0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	94	423	0.0	5.1	-5.1
9	400 kV	PATNA-BALIA	2	0	466	0.0	6.6	-6.6
10	400 kV	NAUBATPUR-BALIA	2	36	123	0.0	1.3	-1.3
11	400 kV	BIHARSHARIFF-BALIA	2	180	44	2.6	0.0	2.6
12	400 kV	MOTIHARI-GORAKHPUR	2	34	286	0.0	3.8	-3.8
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	66	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	0.5	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						4.0	43.4	-39.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	351	777	0.0	7.0	-7.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1670	346	17.8	0.0	17.8
3	765 kV	JHARSUGUDA-DURG	2	0	711	0.0	10.7	-10.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	701	0.0	10.9	-10.9
5	400 kV	RANCHI-SIPAT	2	309	286	1.0	0.0	1.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	146	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	0	170	0.0	2.2	-2.2
ER-WR						18.8	33.2	-14.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	734	0.0	17.4	-17.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	0	0.0	0.0	0.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2867	0.0	51.8	-51.8
4	400 kV	TALCHER-I/C	2	1887	0	39.9	0.0	39.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	69.2	-69.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	610	0.0	11.5	-11.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	996	0.0	18.8	-18.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	194	0.0	3.7	-3.7
ER-NER						0.0	33.9	-33.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	852	0.0	20.5	-20.5
NER-NR						0.0	20.5	-20.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2117	0.0	37.0	-37.0
2	HVDC	VINDHYACHAL B/B	-	0	60	0.0	1.2	-1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1259	0.0	24.9	-24.9
4	765 kV	GWALIOR-AGRA	2	188	1012	0.4	9.6	-9.2
5	765 kV	GWALIOR-PHAGI	2	686	1381	2.5	17.2	-14.7
6	765 kV	JABALPUR-ORAI	2	41	808	0.0	17.5	-17.5
7	765 kV	GWALIOR-ORAI	1	659	0	8.6	0.0	8.6
8	765 kV	SATNA-ORAI	1	0	625	0.0	11.1	-11.1
9	765 kV	BANASKANTHA-CHITTOGARH	2	2394	0	31.9	0.0	31.9
10	765 kV	VINDHYACHAL-VARANASI	2	269	2366	0.0	27.9	-27.9
11	400 kV	ZERDA-KANKROLI	1	455	16	5.7	0.0	5.7
12	400 kV	ZERDA-BHINMAL	1	108	157	0.3	1.0	-0.7
13	400 kV	VINDHYACHAL-RIHAND	1	0	1	0.0	0.0	0.0
14	400 kV	RAPP-SHUJALPUR	2	479	288	3.0	2.3	0.6
15	400 kV	NEEMUCH-Chittorgarh	2	310	386	1.3	4.0	-2.7
16	220 kV	BHANPURA-RANPUR	1	0	54	0.0	0.7	-0.7
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
18	220 kV	MEHGAON-AURAIYA	1	98	8	1.0	0.0	0.9
19	220 kV	MALANPUR-AURAIYA	1	77	15	0.7	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						55.2	156.5	-101.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	18.8	-18.8
2	HVDC	RAIGARH-PUGALUR	2	0	1500	0.0	25.3	-25.3
3	765 kV	SOLAPUR-RAICHUR	2	607	1608	0.9	7.8	-6.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2754	0.0	41.8	-41.8
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2663	0.0	38.9	-38.9
6	400 kV	KOLHAPUR-KUDGI	2	1233	0	20.7	0.0	20.7
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	86	0	1.5	0.0	1.5
9	220 kV	XELDEM-AMBEWADI	1	0	108	2.3	0.0	2.3
WR-SR						25.4	132.6	-107.3

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)	776	546	575	13.80	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	794	529	707	16.97	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	164	83	118	2.84	
	NER	132kV GELEPHU-SALAKATI	46	27	34	0.81	
	NER	132kV MOTANGA-RANGIA	77	50	66	1.59	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	68	0	47	1.12	
	ER	NEPAL IMPORT (FROM BIHAR)	56	11	41	0.99	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	742	540	662	15.88	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-904	-746	-862	-20.69	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1135	-995	-1037	-24.90	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-93	0	-69	-1.65	

