



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: 28.09.2024

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 27.09.2024.

महोदय/Dear Sir,

आई०ई०जी०सी०-2023 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-सितंबर-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 27.09.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 28-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)	65812	56090	48104	24058	3135	197199
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1529	1333	1167	506	61	4596
Hydro Gen (MU)	317	108	157	96	28	706
Wind Gen (MU)	9	130	132	-	-	270
Solar Gen (MU)*	148.73	60.82	113.72	2.34	1.01	327
Energy Shortage (MU)	0.00	0.19	0.00	0.18	0.00	0.37
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68579	59563	54502	25112	3303	205506
Time Of Maximum Demand Met	00:00	18:53	11:57	18:58	17:58	19:01

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	0.032	0.00	0.84	4.50	5.35	78.57	16.09

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	13000	0	281.4	162.1	-3.6	342	0.00
	Haryana	10706	0	232.0	179.3	-2.3	262	0.00
	Rajasthan	15635	0	341.1	148.1	-4.6	922	0.00
	Delhi	6022	0	129.6	116.8	0.2	330	0.00
	UP	19602	0	400.8	172.2	-2.5	563	0.00
	Uttarakhand	2279	0	48.6	22.9	0.4	193	0.00
	HP	1852	0	37.1	8.9	-0.3	163	0.00
	J&K(UT) & Ladakh(UT)	2533	0	48.3	26.0	-1.0	324	0.00
	Chandigarh	277	0	5.7	6.2	-0.5	25	0.00
Railways NR ISTS	204	0	4.1	3.9	0.2	35	0.00	
WR	Chhattisgarh	4737	0	107.1	60.0	-1.0	335	0.00
	Gujarat	18758	0	412.8	143.9	-0.9	988	0.00
	MP	11784	0	247.1	148.5	-2.1	474	0.19
	Maharashtra	22892	0	492.8	150.0	-2.0	547	0.00
	Goa	671	0	14.3	14.0	0.3	48	0.00
	DNHDDPDCL	1351	0	31.3	31.4	-0.1	202	0.00
	AMNSIL	662	0	14.8	3.0	0.1	120	0.00
	BALCO	529	0	12.6	12.6	0.0	21	0.00
SR	Andhra Pradesh	9491	0	208.6	55.6	-1.2	769	0.00
	Telangana	11426	0	229.6	109.9	-0.1	635	0.00
	Karnataka	13015	0	242.4	52.8	-1.4	492	0.00
	Kerala	4348	0	85.8	56.1	1.1	364	0.00
	Tamil Nadu	18156	0	389.8	195.5	2.0	1428	0.00
	Puducherry	469	0	10.7	10.4	-0.3	28	0.00
ER	Bihar	5222	0	96.3	90.3	-2.8	385	0.18
	DVC	3274	0	70.7	-36.2	-0.3	435	0.00
	Jharkhand	1908	0	38.0	28.3	-0.7	191	0.00
	Odisha	5732	0	118.8	15.2	-0.4	375	0.00
	West Bengal	8838	0	181.1	53.5	-1.9	308	0.00
	Sikkim	89	0	1.2	1.4	-0.2	10	0.00
Railways ER ISTS	19	0	0.1	0.2	-0.1	2	0.00	
NER	Arunachal Pradesh	169	0	2.6	2.6	-0.5	18	0.00
	Assam	2123	0	40.1	32.2	0.8	210	0.00
	Manipur	213	0	3.4	3.3	0.1	48	0.00
	Meghalaya	267	0	4.3	1.7	-0.2	43	0.00
	Mizoram	125	0	1.9	1.4	-0.5	9	0.00
	Nagaland	172	0	3.0	2.5	-0.1	15	0.00
Tripura	316	0	6.1	5.0	0.5	68	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	42.9	18.5	-23.2	-23.4
Day Peak (MW)	1939.0	947.0	-988.0	-1134.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	359.5	-237.8	81.0	-204.4	1.8	0.0
Actual(MU)	348.8	-236.8	87.9	-209.4	-0.4	-9.9
O/D/U/D(MU)	-10.6	1.1	6.9	-5.0	-2.1	-9.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4779	15617	5338	3716	280	29730	51
State Sector	6271	11222	9078	2334	155	29059	49
Total	11050	26839	14416	6050	435	58790	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	730	1262	600	675	15	3280	66
Lignite	18	12	42	0	0	73	1
Hydro	317	108	157	96	28	706	14
Nuclear	30	53	76	0	0	159	3
Gas, Naptha & Diesel	12	58	5	0	22	96	2
RES (Wind, Solar, Biomass & Others)	164	193	271	5	1	633	13
Total	1270	1686	1151	775	66	4948	100

Share of RES in total generation (%)	12.89	11.45	23.55	0.61	1.53	12.80
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.17	21.01	43.82	13.01	44.57	30.29

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.065

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	202018	10:22	0
Non-Solar hr	205506	19:01	153

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: 28-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	352	0.0	8.4	-8.4
2	HVDC	PUSAULI B/B	-	0	112	0.0	2.9	-2.9
3	765 kV	GAYA-VARANASI	2	55	1252	0.0	17.8	-17.8
4	765 kV	SASARAM-FATEHPUR	1	0	637	0.0	9.6	-9.6
5	765 kV	GAYA-BALIA	1	0	641	0.0	8.8	-8.8
6	400 kV	PUSAULI-VARANASI	1	14	77	0.0	0.7	-0.7
7	400 kV	PUSAULI-ALLAHABAD	1	0	125	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	931	0.0	13.5	-13.5
9	400 kV	PATNA-BALIA	2	0	990	0.0	16.2	-16.2
10	400 kV	NAUBATPUR-BALIA	2	0	316	0.0	4.8	-4.8
11	400 kV	BIHARSHARIFF-BALIA	2	36	256	0.0	4.2	-4.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	557	0.0	9.1	-9.1
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	129	0.0	0.8	-0.8
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
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-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	98.6	-98.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1756	0.0	24.8	-24.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	918	1031	0.0	0.9	-0.9
3	765 kV	JHARSUGUDA-DURG	2	0	735	0.0	12.9	-12.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	653	0.0	10.0	-10.0
5	400 kV	RANCHI-SIPAT	2	184	407	0.0	2.9	-2.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	175	0.0	2.8	-2.8
7	220 kV	BUDHIPADAR-KORBA	2	0	191	0.0	2.4	-2.4
ER-WR						0.0	56.6	-56.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	205	0.0	4.8	-4.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	16	1636	0.0	7.3	-7.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2650	0.0	48.4	-48.4
4	400 kV	TALCHER-I/C	2	1340	437	18.0	0.0	18.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	60.5	-60.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	366	0.0	4.4	-4.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	659	0.0	8.9	-8.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	128	0.0	1.6	-1.6
ER-NER						0.0	14.9	-14.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	702	0.0	17.0	-17.0
NER-NR						0.0	17.0	-17.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	5044	0.0	62.2	-62.2
2	HVDC	VINDHYACHAL B/B	-	0	500	0.0	4.8	-4.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1905	0.0	48.3	-48.3
4	765 kV	GWALIOR-AGRA	2	28	1275	0.1	18.7	-18.6
5	765 kV	GWALIOR-PHAGI	2	303	2083	0.5	29.8	-29.3
6	765 kV	JABALPUR-ORAI	2	0	1054	0.0	32.3	-32.3
7	765 kV	GWALIOR-ORAI	1	778	0	11.8	0.0	11.8
8	765 kV	SATNA-ORAI	1	0	1069	0.0	20.9	-20.9
9	765 kV	BANASKANTHA-CHITTOGARH	2	1106	358	11.2	0.7	10.5
10	765 kV	VINDHYACHAL-VARANASI	2	58	2134	0.0	31.1	-31.1
11	400 kV	ZERDA-KANKROLI	1	256	89	2.2	0.3	1.9
12	400 kV	ZERDA-BHINMAL	1	0	218	0.0	3.4	-3.4
13	400 kV	VINDHYACHAL-RIHAND	1	0	1	0.0	0.0	0.0
14	400 kV	RAPP-SHUALPUR	2	305	507	1.4	5.0	-3.6
15	400 kV	NEEMUCH-Chittorgarh	2	0	0	0.0	4.3	-4.3
16	220 kV	BHANPURA-RANPUR	1	0	119	0.0	2.2	-2.2
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
18	220 kV	MEHGAON-AURAIYA	1	106	0	1.3	0.0	1.3
19	220 kV	MALANPUR-AURAIYA	1	78	13	0.3	0.0	0.3
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						28.8	265.5	-236.7
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	1499	0.0	22.1	-22.1
3	765 kV	SOLAPUR-RAICHUR	2	861	1199	2.8	6.4	-3.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2398	0.0	31.6	-31.6
5	765 kV	WARORA-WARANGAL(NEW)	2	0	0	0.0	35.4	-35.4
6	400 kV	KOLHAPUR-KUDGI	2	1564	0	27.8	0.0	27.8
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	88	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	115	2.2	0.0	2.2
WR-SR						40.0	95.5	-55.4

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)	784	724	753	18.07	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	982	826	897	21.53	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	108	-11	58	1.40	
	NER	132kV GELEPHU-SALAKATI	35	20	29	0.70	
	NER	132kV MOTANGA-RANGIA	60	34	51	1.22	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-37	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	69	0	57	1.37	
	ER	NEPAL IMPORT (FROM BIHAR)	34	0	15	0.35	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	844	148	699	16.77	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-922	-907	-911	-21.86	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1134	-810	-976	-23.42	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-66	0	-55	-1.32	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 28-Sep-2024

Export From India (in MU)

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nepal	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
Bangladesh	22.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.57
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.95

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	40.43	0.00	2.16	0.00	0.00	0.13	0.00	0.00	42.72
Nepal	7.81	0.00	9.57	0.00	0.00	3.52	0.00	0.00	20.90
Bangladesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Import	48.24	0.00	11.73	0.00	0.00	3.65	0.00	0.00	63.62

Net from India(in MU)

-ve : Export / +ve : Import

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	40.43	0.00	2.16	0.00	0.00	0.13	0.00	0.00	42.72
Nepal	7.43	0.00	9.57	0.00	0.00	3.52	0.00	0.00	20.52
Bangladesh	-22.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.57
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	25.29	0.00	11.73	0.00	0.00	3.65	0.00	0.00	40.67