



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: 05.09.2024

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 04.09.2024.

महोदय/Dear Sir,

आई०ई०जी०सी०-2023 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04.09.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 05-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)	67531	57900	46257	28365	3417	203470
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1476	1330	1056	624	67	4553
Hydro Gen (MU)	400	116	173	92	31	811
Wind Gen (MU)	2	100	244	-	-	347
Solar Gen (MU)*	97.28	69.02	104.72	3.49	1.04	276
Energy Shortage (MU)	0.09	0.00	0.00	0.35	0.00	0.44
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67599	60263	49110	28840	3562	205849
Time Of Maximum Demand Met	19:44	19:24	10:29	23:17	18:45	19:29

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	0.037	0.00	0.00	2.63	2.63	73.49	23.89

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	11473	0	234.6	140.2	-0.7	459	0.00	
	Haryana	8938	0	196.4	143.1	-5.4	588	0.00	
	Rajasthan	10529	0	238.6	67.8	-6.5	189	0.00	
	Delhi	5783	0	121.3	114.5	-4.5	137	0.00	
	UP	27494	0	540.5	269.3	0.5	396	0.00	
	Uttarakhand	2184	0	48.8	28.6	-0.6	135	0.00	
	HP	1726	0	35.4	1.1	-0.4	120	0.00	
	J&K(UT) & Ladakh(UT)	2520	0	49.5	23.7	1.4	406	0.09	
	Chandigarh	302	0	6.3	6.7	-0.3	24	0.00	
	Railways NR ISTS	209	0	4.3	3.9	0.4	40	0.00	
	Chhattisgarh	5762	0	130.8	77.9	-1.0	420	0.00	
	Gujarat	16238	0	359.8	189.3	-6.7	1306	0.00	
	MP	11964	0	260.4	141.9	-3.2	625	0.00	
WR	Maharashtra	23865	0	503.4	162.8	-6.3	718	0.00	
	Goa	660	0	14.0	11.7	2.2	52	0.00	
	DNHDDPDCL	1316	0	30.6	30.3	0.3	94	0.00	
	AMNSIL	793	0	18.1	9.5	0.1	303	0.00	
	BALCO	529	0	12.6	12.6	0.0	523	0.00	
	SR	Andhra Pradesh	8761	0	194.1	35.9	-0.7	769	0.00
		Telangana	9128	0	187.9	73.4	-0.8	692	0.00
Karnataka		11840	0	213.7	31.1	-0.2	641	0.00	
Kerala		4124	0	82.3	52.7	0.7	303	0.00	
Tamil Nadu		17201	0	367.5	159.5	-1.2	614	0.00	
Puducherry		471	0	10.2	9.8	-0.2	35	0.00	
ER	Bihar	7368	0	156.3	144.6	0.2	226	0.35	
	DVC	3511	0	74.0	-31.4	0.1	425	0.00	
	Jharkhand	2140	0	45.7	35.1	0.5	250	0.00	
	Odisha	5471	0	119.5	42.2	-0.4	518	0.00	
	West Bengal	10896	0	227.0	95.1	-0.3	501	0.00	
	Sikkim	93	0	1.4	1.6	-0.2	24	0.00	
NER	Railways ER ISTS	17	0	0.2	0.2	0.0	2	0.00	
	Arunachal Pradesh	181	0	3.2	2.8	0.0	21	0.00	
	Assam	2348	0	45.0	36.4	0.7	139	0.00	
	Manipur	217	0	2.9	3.0	-0.1	24	0.00	
	Meghalaya	285	0	4.8	0.9	-0.2	48	0.00	
	Mizoram	116	0	2.4	0.6	0.0	11	0.00	
	Nagaland	157	0	2.5	2.2	-0.2	27	0.00	
Tripura	311	0	6.4	5.3	0.6	51	0.00		

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	38.5	15.2	-21.9	-34.7
Day Peak (MW)	1912.0	833.0	-982.0	-1532.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	259.0	-161.3	-50.0	-52.6	4.9	0.0
Actual(MU)	259.3	-166.8	-71.3	-32.3	4.7	-6.3
OD/UD(MU)	0.4	-5.5	-21.3	20.3	-0.2	-6.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3579	14830	3488	4806	643	27347	46
State Sector	4957	12831	12537	2212	155	32691	54
Total	8536	27661	16025	7018	798	60038	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	731	1215	515	617	13	3091	63
Lignite	27	6	49	0	0	81	2
Hydro	400	116	173	92	31	811	17
Nuclear	34	63	74	0	0	170	3
Gas, Naptha & Diesel	11	41	5	0	22	79	2
RES (Wind, Solar, Biomass & Others)	105	172	382	5	1	666	14
Total	1308	1613	1197	714	68	4899	100

Share of RES in total generation (%)	8.07	10.69	31.88	0.72	1.56	13.59
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation (%)	41.23	21.77	52.49	13.54	47.82	33.63

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.053

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	196074	10:29	0
Non-Solar hr	205849	19:29	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 -> 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: 05-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	700	0.0	16.5	-16.5
2	HVDC	PUSAULI B/B	-	0	112	0.0	2.8	-2.8
3	765 kV	GAYA-VARANASI	2	989	260	5.5	0.0	5.5
4	765 kV	SASARAMPATEHPUR	1	386	175	1.4	0.0	1.4
5	765 kV	GAYA-BALIA	1	0	695	0.0	9.5	-9.5
6	400 kV	PUSAULI-VARANASI	1	0	168	0.0	3.0	-3.0
7	400 kV	PUSAULI-ALLAHABAD	1	59	19	0.4	0.0	0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	201	539	0.0	6.0	-6.0
9	400 kV	PATNA-BALIA	2	216	554	0.0	6.3	-6.3
10	400 kV	NAUBATTIPUR-BALIA	2	119	158	0.0	1.8	-1.8
11	400 kV	BIHARSHARIFF-BALIA	2	370	55	2.3	0.0	-2.3
12	400 kV	MOTIHARI-GORAKHPUR	2	172	279	0.0	2.7	-2.7
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHPURI-KARAMNANA	1	0	69	0.0	0.3	-0.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAL-RIHAND	1	0	0	0.6	0.0	0.6
17	132 kV	KARMANASA-SAHPURI	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	10.3	48.7	-38.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	414	824	0.0	6.6	-6.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2449	0	42.4	0.0	42.4
3	765 kV	JHARSUGUDA-DURG	2	185	310	0.0	1.3	-1.3
4	400 kV	JHARSUGUDA-RAIGARH	4	12	491	0.0	5.9	-5.9
5	400 kV	RANCHI-SIPAT	2	599	0	8.8	0.0	8.8
6	220 kV	BIJHPADAR-RAIGARH	1	5	91	0.0	0.6	-0.6
7	220 kV	BIJHPADAR-KORBA	2	27	156	0.0	1.6	-1.6
					ER-WR	51.1	15.9	35.2
Import/Export of ER (With SR)								
1	HVDC	JEVPORE-GAZUWAKA B/B	2	218	0	4.7	0.0	4.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1395	0.0	29.9	-29.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	1822	0.0	29.3	-29.3
4	400 kV	TALCHER-I/C	2	874	367	10.3	0.0	10.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	4.7	59.2	-54.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	367	0.0	5.6	-5.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	497	0.0	6.9	-6.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	120	0.0	1.7	-1.7
					ER-NER	0.0	14.1	-14.1
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-KURUKSHETRA	2	0	3055	0.0	62.0	-62.0
2	HVDC	VINDHYACHAL B/B	-	0	40	0.0	1.2	-1.2
3	HVDC	MINDRA-MOHINDERGARH	2	0	298	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	2154	0.0	31.2	-31.2
5	765 kV	GWALIOR-PHAGI	2	623	1352	2.3	16.5	-14.2
6	765 kV	JABALPUR-ORAI	2	0	1172	0.0	36.2	-36.2
7	765 kV	GWALIOR-ORAI	1	610	0	10.4	0.0	10.4
8	765 kV	SATNA-ORAI	1	0	899	0.0	16.3	-16.3
9	765 kV	BANSKANATHA-CHITTOGARH	2	1395	223	13.4	0.2	13.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3721	0.0	69.2	-69.2
11	400 kV	ZERDA-KANKROLI	1	275	11	2.9	0.0	2.9
12	400 kV	ZERDA-BHNMAL	1	520	103	6.2	0.0	6.2
13	400 kV	VINDHYACHAL -RIHAND	1	0	1	0.0	0.0	0.0
14	400 kV	RAPP-SHUALPUR	2	238	392	1.3	3.0	-1.7
15	400 kV	NEMLUCH-Chittoargarh	2	92	512	0.1	5.1	-4.9
16	220 kV	BHANPURA-RANPUR	1	0	83	0.0	1.5	-1.5
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
18	220 kV	MEHGAON-AURAIYA	1	89	13	0.5	0.0	0.5
19	220 kV	MALANPUR-AURAIYA	1	61	31	0.5	0.1	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	37.4	251.8	-214.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	995	0	14.5	0.0	14.5
2	HVDC	RAIGARH-PUGALUR	2	971	0	18.3	0.0	18.3
3	765 kV	SOLAPUR-RAICHUR	2	1992	185	25.7	0.1	25.6
4	765 kV	WARDHA-NIZAMABAD	2	412	1386	1.2	8.6	-7.4
5	765 kV	WARORA-WARANGAL(NEW)	2	332	1538	0.9	10.5	-9.6
6	400 kV	KOLHAPUR-KUDGI	2	2096	0	39.8	0.0	39.8
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	100	1.9	0.0	1.9
					WR-SR	102.2	19.2	83.0

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 MANGDECHHU HEP 4*180MW)	752	524	625	15.01
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	876	576	802	19.25
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	118	2	84	2.02
	NER	132kV GELEPHU-SALAKATI	46	0	34	0.82
	NER	132kV MOTANGA-RANGIA	70	0	60	1.45
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.38
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	833	574	691	16.59
	ER	BHERAMARA B/B HVDC (B'DESH)	-906	-711	-848	-20.34
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1532	-1346	-1448	-34.74
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-76	0	-64	-1.54

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 05-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	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
Bangladesh	21.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.05
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.11

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	36.95	0.00	1.56	0.00	0.00	0.14	0.00	0.00	38.65
Nepal	5.47	0.00	12.19	0.00	0.00	0.00	0.00	0.00	17.66
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	42.42	0.00	13.75	0.00	0.00	0.14	0.00	0.00	56.31

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	36.95	0.00	1.56	0.00	0.00	0.14	0.00	0.00	38.65
Nepal	5.41	0.00	12.19	0.00	0.00	0.00	0.00	0.00	17.60
Bangladesh	-21.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.05
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	21.31	0.00	13.75	0.00	0.00	0.14	0.00	0.00	35.20