



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: 04.09.2024

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 03.09.2024.

महोदय/Dear Sir,

आईईजीसी-2023 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 3-सितंबर-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 03.09.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 04-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)	70261	57654	45113	28335	3451	204814
Peak Shortage (MW)	0	155	0	0	0	155
Energy Met (MU)	1625	1321	1029	624	70	4669
Hydro Gen (MU)	403	119	167	93	32	815
Wind Gen (MU)	8	65	242	-	-	315
Solar Gen (MU)*	104.82	49.24	107.24	3.50	1.05	266
Energy Shortage (MU)	0.00	0.46	0.00	0.33	0.00	0.79
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	74287	59224	47628	28761	3524	206761
Time Of Maximum Demand Met	11:17	19:26	09:46	23:37	19:41	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	0.039	0.34	1.04	4.55	5.93	81.08	13.00

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	13805	0	256.3	155.8	-4.6	235	0.00
	Haryana	10953	0	231.4	170.4	-3.1	398	0.00
	Rajasthan	12664	0	270.0	88.2	-3.0	365	0.00
	Delhi	6607	0	135.0	124.1	-2.0	292	0.00
	UP	29363	0	585.2	278.3	-0.3	452	0.00
	Uttarakhand	2359	0	52.3	29.1	-0.2	122	0.00
	HP	1724	0	35.7	1.4	0.0	73	0.00
	J&K(UT) & Ladakh(UT)	2376	0	48.2	22.9	0.6	177	0.00
	Chandigarh	374	0	7.0	7.4	-0.4	41	0.00
Railways NR ISTS	203	0	4.2	3.9	0.3	46	0.00	
WR	Chhattisgarh	5657	0	127.7	75.3	0.3	356	0.00
	Gujarat	16470	0	365.5	199.5	-2.0	1196	0.00
	MP	11797	0	255.8	143.8	-1.3	650	0.46
	Maharashtra	23065	0	499.5	158.1	1.2	867	0.00
	Goa	653	0	13.7	11.3	2.3	126	0.00
	DNHDDPDCL	1297	0	29.5	29.5	0.0	70	0.00
	AMNSIL	790	0	17.1	7.4	0.9	331	0.00
	BALCO	526	0	12.6	12.6	0.0	8	0.00
SR	Andhra Pradesh	8614	0	189.9	27.8	-2.6	724	0.00
	Telangana	8848	0	182.2	72.2	0.5	552	0.00
	Karnataka	11486	0	206.3	29.8	-2.7	643	0.00
	Kerala	4039	0	81.5	50.5	0.6	256	0.00
	Tamil Nadu	16732	0	358.7	144.2	0.3	966	0.00
	Puducherry	457	0	10.2	9.8	-0.2	50	0.00
ER	Bihar	7651	0	161.2	149.9	-0.2	0	0.33
	DVC	3400	0	72.0	-33.7	-0.6	0	0.00
	Jharkhand	2187	0	44.1	33.9	0.2	0	0.00
	Odisha	5576	0	116.0	41.4	-1.0	0	0.00
	West Bengal	10745	0	229.0	100.8	-2.1	0	0.00
	Sikkim	84	0	1.3	1.6	-0.3	0	0.00
Railways ER ISTS	14	0	0.1	0.1	0.0	0	0.00	
NER	Arunachal Pradesh	194	0	3.6	2.9	0.3	20	0.00
	Assam	2378	0	46.7	38.3	0.6	227	0.00
	Manipur	217	0	3.1	3.1	0.0	45	0.00
	Meghalaya	310	0	5.6	1.3	-0.2	46	0.00
	Mizoram	115	0	2.6	0.5	-0.2	47	0.00
	Nagaland	165	0	2.8	2.5	-0.1	21	0.00
Tripura	321	0	6.0	5.1	0.5	55	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	39.9	17.4	-21.9	-33.6
Day Peak (MW)	1951.0	822.0	-991.0	-1527.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	305.6	-154.8	-104.1	-51.7	5.0	0.0
Actual(MU)	306.4	-136.9	-126.3	-53.0	3.8	-5.9
O/D/U/D(MU)	0.8	17.9	-22.1	-1.3	-1.2	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3339	14680	4098	5296	330	27743	44
State Sector	4162	13856	14277	2872	155	35321	56
Total	7501	28536	18375	8167	485	63064	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	808	1244	542	637	16	3247	65
Lignite	30	7	48	0	0	85	2
Hydro	403	119	167	93	32	815	16
Nuclear	34	51	76	0	0	161	3
Gas, Naptha & Diesel	17	40	5	0	23	85	2
RES (Wind, Solar, Biomass & Others)	120	115	382	6	1	623	12
Total	1411	1577	1220	735	71	5015	100

Share of RES in total generation (%)	8.47	7.30	31.29	0.78	1.47	12.43
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.44	18.12	51.23	13.37	46.16	31.87

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.084

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	205730	10:54	0
Non-Solar hr	206761	19:26	447

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: 04-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	702	0.0	16.5	-16.5
2	HVDC	PUSAULI B/B	-	0	112	0.0	2.9	-2.9
3	765 kV	GAYA-VARANASI	2	598	383	0.1	0.0	0.1
4	765 kV	SASARAM-FATEHPUR	1	203	274	0.0	1.5	-1.5
5	765 kV	GAYA-BALIA	1	0	742	0.0	11.9	-11.9
6	400 kV	PUSAULI-VARANASI	1	0	162	0.0	3.2	-3.2
7	400 kV	PUSAULI-ALLAHABAD	1	51	4	0.6	0.0	0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	102	539	0.0	8.1	-8.1
9	400 kV	PATNA-BALIA	2	71	574	0.0	7.3	-7.3
10	400 kV	NAUBATPUR-BALIA	2	82	137	0.0	1.4	-1.4
11	400 kV	BIHARSHARIFF-BALIA	2	160	111	0.3	0.0	0.3
12	400 kV	MOTIHARI-GORAKHPUR	2	24	285	0.0	3.5	-3.5
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	73	0.0	0.4	-0.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.6	0.0	0.6
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						1.6	56.6	-55.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1523	0.0	19.5	-19.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2372	0	37.0	0.0	37.0
3	765 kV	JHARSUGUDA-DURG	2	35	412	0.0	3.1	-3.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	468	0.0	6.9	-6.9
5	400 kV	RANCHI-SIPAT	2	566	11	7.2	0.0	7.2
6	220 kV	BUDHIPADAR-RAIGARH	1	4	98	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	0	171	0.0	2.3	-2.3
ER-WR						44.2	32.7	11.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	305	0	4.7	0.0	4.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1390	0.0	19.0	-19.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	1553	0.0	24.5	-24.5
4	400 kV	TALCHER-I/C	2	1487	0	25.3	0.0	25.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						4.7	43.5	-38.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	359	0.0	5.2	-5.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	501	0.0	7.0	-7.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	109	0.0	1.9	-1.9
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-KIRUKSHETRA	2	0	4619	0.0	68.0	-68.0
2	HVDC	VINDHYACHAL B/B	-	0	493	0.0	8.6	-8.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	492	0.0	9.6	-9.6
4	765 kV	GWALIOR-AGRA	2	0	2229	0.0	35.6	-35.6
5	765 kV	GWALIOR-PHAGI	2	0	1551	0.0	25.2	-25.2
6	765 kV	JABALPUR-ORAI	2	0	1212	0.0	44.3	-44.3
7	765 kV	GWALIOR-ORAI	1	707	0	13.5	0.0	13.5
8	765 kV	SATNA-ORAI	1	0	900	0.0	18.7	-18.7
9	765 kV	BANASKANTHA-CHITTOGARH	2	1833	0	23.8	0.0	23.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	3614	0.0	67.2	-67.2
11	400 kV	ZERDA-KANKROLI	1	361	0	3.8	0.0	3.8
12	400 kV	ZERDA-BHINMAL	1	782	16	7.8	0.0	7.8
13	400 kV	VINDHYACHAL-RIHAND	1	0	1	0.0	0.0	0.0
14	400 kV	RAPP-SHUALPUR	2	210	509	0.4	5.0	-4.6
15	400 kV	NEEMUCH-Chittorgarh	2	82	635	0.1	8.0	-7.9
16	220 kV	BHANPURA-RANPUR	1	0	85	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	94	0	1.0	0.0	1.0
19	220 kV	MALANPUR-AURAIYA	1	64	19	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						50.7	293.7	-243.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	996	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	1450	0	19.8	0.0	19.8
3	765 kV	SOLAPUR-RAICHUR	2	2820	0	34.4	0.0	34.4
4	765 kV	WARDHA-NIZAMABAD	2	670	991	3.6	5.4	-1.8
5	765 kV	WARORA-WARANGAL(NEW)	2	726	1113	3.5	6.5	-3.0
6	400 kV	KOLHAPUR-KUDGI	2	2363	0	42.8	0.0	42.8
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	102	1.9	0.0	1.9
WR-SR						130.0	11.9	118.1

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)	778	556	665	15.97	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	874	659	805	19.32	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	119	100	112	2.68	
	NER	132kV GELEPHU-SALAKATI	52	10	36	0.87	
	NER	132kV MOTANGA-RANGIA	71	15	45	1.07	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-30	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	66	0	53	1.27	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	756	44	671	16.11	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-904	-712	-847	-20.33	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1527	-1252	-1399	-33.58	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-87	0	-67	-1.60	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 04-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	38.79	0.00	1.42	0.00	0.00	0.17	0.00	0.00	40.38
Nepal	5.47	0.00	12.43	0.00	0.00	0.00	0.00	0.00	17.90
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	44.26	0.00	13.85	0.00	0.00	0.17	0.00	0.00	58.28

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	38.79	0.00	1.42	0.00	0.00	0.17	0.00	0.00	40.38
Nepal	5.41	0.00	12.43	0.00	0.00	0.00	0.00	0.00	17.84
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	23.15	0.00	13.85	0.00	0.00	0.17	0.00	0.00	37.17