



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: 03.09.2024

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 02.09.2024.

महोदय/Dear Sir,

आई०ई०जी०सी०-2023 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 2-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 02.09.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 03-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)	73457	55500	44287	28058	3516	204818
Peak Shortage (MW)	201	0	0	0	20	221
Energy Met (MU)	1655	1314	988	608	70	4635
Hydro Gen (MU)	378	106	160	90	31	764
Wind Gen (MU)	6	75	241	-	-	322
Solar Gen (MU)*	138.16	58.86	106.99	3.19	1.15	308
Energy Shortage (MU)	1.31	0.00	0.00	0.30	0.05	1.66
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	74823	58426	47251	28690	3667	206355
Time Of Maximum Demand Met	22:20	10:02	10:13	22:38	18:58	19:27

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	0.049	0.30	0.51	6.12	6.93	78.22	14.85

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	13674	0	287.8	179.7	-0.5	879	0.00
	Haryana	11332	0	242.7	176.4	-0.6	361	0.00
	Rajasthan	13002	0	285.0	93.8	1.4	637	0.00
	Delhi	6297	0	133.4	121.4	-0.8	245	0.00
	UP	28295	0	555.7	263.7	-0.9	631	1.19
	Uttarakhand	2445	0	51.7	26.4	1.0	197	0.12
	HP	4309	0	35.9	1.2	0.4	152	0.00
	J&K(UT) & Ladakh(UT)	2470	0	51.5	26.2	0.9	235	0.00
	Chandigarh	348	0	7.1	6.8	0.3	48	0.00
Railways NR ISTS	204	0	4.3	3.9	0.4	35	0.00	
WR	Chhattisgarh	5413	0	123.9	71.3	0.2	322	0.00
	Gujarat	17169	0	380.8	207.5	-1.3	1035	0.00
	MP	11247	0	245.3	135.3	-1.4	584	0.00
	Maharashtra	22729	0	491.3	161.6	-1.5	753	0.00
	Goa	623	0	13.4	11.4	1.8	50	0.00
	DNHDDPDCL	1271	0	29.1	29.3	-0.2	0	0.00
	AMNSIL	797	0	17.9	8.3	0.7	276	0.00
	BALCO	525	0	12.5	12.4	0.1	70	0.00
SR	Andhra Pradesh	8559	0	186.4	25.9	-0.6	768	0.00
	Telangana	8361	0	171.3	65.2	-0.8	431	0.00
	Karnataka	11757	0	198.9	27.5	-2.9	660	0.00
	Kerala	4037	0	79.1	47.7	0.7	394	0.00
	Tamil Nadu	16499	0	342.4	135.9	-3.5	734	0.00
	Puducherry	452	0	10.1	9.7	-0.2	24	0.00
ER	Bihar	7677	0	155.3	144.6	-1.1	295	0.30
	DVC	3261	0	71.2	-34.0	-0.5	340	0.00
	Jharkhand	2094	0	45.3	34.8	0.6	166	0.00
	Odisha	5578	0	112.5	41.6	-2.5	323	0.00
	West Bengal	10932	0	222.1	97.9	-0.5	249	0.00
	Sikkim	94	0	1.3	1.4	-0.1	28	0.00
	Railways ER ISTS	13	0	0.2	0.2	0.0	1	0.00
NER	Arunachal Pradesh	180	0	3.6	2.8	0.4	23	0.00
	Assam	2478	0	46.5	37.2	1.1	221	0.05
	Manipur	209	0	2.5	3.0	-0.5	32	0.00
	Meghalaya	317	0	5.8	1.6	-0.2	77	0.00
	Mizoram	116	0	2.2	0.6	0.1	44	0.00
	Nagaland	171	0	3.1	2.6	0.1	25	0.00
Tripura	306	0	5.9	5.1	0.4	55	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	41.6	18.4	-21.8	-34.2
Day Peak (MW)	1954.0	856.7	-978.0	-1540.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	346.6	-167.0	-112.2	-75.3	7.9	0.0
Actual(MU)	353.9	-155.6	-146.9	-70.9	7.3	-12.3
O/D/U/D(MU)	7.3	11.3	-34.8	4.5	-0.6	-12.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3339	14775	4098	4956	280	27448	44
State Sector	4972	14376	12324	3449	155	35275	56
Total	8311	29151	16422	8405	435	62723	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	784	1228	530	640	12	3194	64
Lignite	29	8	52	0	0	89	2
Hydro	378	106	160	90	31	764	15
Nuclear	34	69	76	0	0	179	4
Gas, Naptha & Diesel	18	34	5	0	23	80	2
RES (Wind, Solar, Biomass & Others)	150	135	378	5	1	670	13
Total	1391	1581	1201	735	67	4976	100

Share of RES in total generation (%)	10.75	8.55	31.49	0.74	1.72	13.46
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.32	19.63	51.13	12.96	47.80	32.41

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.091

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	203104	10:42	0
Non-Solar hr	206355	19:27	333

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: 03-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	701	0.0	17.6	-17.6
2	HVDC	PUSAULI B/B	-	0	110	0.0	2.8	-2.8
3	765 kV	GAYA-VARANASI	2	599	881	0.0	5.5	-5.5
4	765 kV	SASARAM-FATEHPUR	1	212	395	0.0	2.6	-2.6
5	765 kV	GAYA-BALIA	1	0	836	0.0	14.3	-14.3
6	400 kV	PUSAULI-VARANASI	1	0	142	0.0	2.3	-2.3
7	400 kV	PUSAULI-ALLAHABAD	1	35	48	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	683	0.0	10.2	-10.2
9	400 kV	PATNA-BALIA	2	16	739	0.0	10.5	-10.5
10	400 kV	NAUBATPUR-BALIA	2	49	217	0.0	2.8	-2.8
11	400 kV	BIHARSHARIF-BALIA	2	203	197	0.0	0.7	-0.7
12	400 kV	MOTIHARI-GORAKHPUR	2	10	377	0.0	5.0	-5.0
13	400 kV	BIHARSHARIF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	70	0.0	0.5	-0.5
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						0.6	75.1	-74.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1582	0.0	21.8	-21.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	2410	0	37.5	0.0	37.5
3	765 kV	JHARSUGUDA-DURG	2	40	446	0.0	4.3	-4.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	578	0.0	7.5	-7.5
5	400 kV	RANCHI-SIPAT	2	566	24	7.4	0.0	7.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	106	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	0	189	0.0	2.4	-2.4
ER-WR						45.0	37.4	7.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	551	0	9.2	0.0	9.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	792	0.0	11.3	-11.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	1745	0.0	23.0	-23.0
4	400 kV	TALCHER-I/C	2	1693	0	30.0	0.0	30.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						9.2	34.3	-25.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	421	0.0	6.4	-6.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	592	0.0	8.7	-8.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	135	0.0	2.2	-2.2
ER-NER						0.0	17.3	-17.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-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	4576	0.0	67.7	-67.7
2	HVDC	VINDHYACHAL B/B	-	0	497	0.0	3.9	-3.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	495	0.0	4.8	-4.8
4	765 kV	GWALIOR-AGRA	2	0	2611	0.0	45.2	-45.2
5	765 kV	GWALIOR-PHAGI	2	192	1879	0.2	28.8	-28.6
6	765 kV	JABALPUR-ORAI	2	0	1410	0.0	49.9	-49.9
7	765 kV	GWALIOR-ORAI	1	743	0	12.7	0.0	12.7
8	765 kV	SATNA-ORAI	1	0	1026	0.0	21.3	-21.3
9	765 kV	BANASKANTHA-CHITTOGARH	2	1110	0	15.0	0.0	15.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	3559	0.0	67.7	-67.7
11	400 kV	ZERDA-KANKROLI	1	243	64	2.6	0.1	2.4
12	400 kV	ZERDA -BHINMAL	1	659	149	5.4	0.4	5.0
13	400 kV	VINDHYACHAL -RIHAND	1	0	1	0.0	0.0	0.0
14	400 kV	RAPP-SHUALPUR	2	158	722	0.3	7.8	-7.5
15	400 kV	NEEMUCH-Chittorgarh	2	69	866	0.0	10.9	-10.8
16	220 kV	BHANPURA-RANPUR	1	0	0	0.0	1.2	-1.2
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
18	220 kV	MEHGAON-AURAIYA	1	95	18	0.7	0.1	0.6
19	220 kV	MALANPUR-AURAIYA	1	64	36	0.3	0.1	0.2
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						37.1	311.8	-274.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	994	0	24.0	0.0	24.0
2	HVDC	RAIGARH-PUGALUR	2	478	304	5.5	3.9	1.6
3	765 kV	SOLAPUR-RAICHUR	2	2786	0	42.6	0.0	42.6
4	765 kV	WARDHA-NIZAMABAD	2	808	732	7.0	2.1	4.8
5	765 kV	WARORA-WARANGAL(NEW)	2	919	767	7.5	2.2	5.3
6	400 kV	KOLHAPUR-KUDGI	2	2475	0	47.2	0.0	47.2
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	91	1.9	0.0	1.9
WR-SR						135.5	8.2	127.3

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)	729	612	703	16.88	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	854	774	819	19.67	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	147	82	119	2.87	
	NER	132kV GELEPHU-SALAKATI	54	0	40	0.96	
	NER	132kV MOTANGA-RANGIA	74	20	49	1.18	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	65	0	54	1.29	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	792	602	714	17.14	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-900	-704	-845	-20.27	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1540	-1215	-1424	-34.16	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-78	0	-63	-1.52	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 03-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	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08
Bangladesh	21.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.02
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.10

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	38.85	0.00	1.62	0.00	0.00	0.03	0.00	0.00	40.50
Nepal	5.47	0.00	12.15	0.00	0.00	0.00	0.00	0.00	17.62
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	44.32	0.00	13.77	0.00	0.00	0.03	0.00	0.00	58.12

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	38.85	0.00	1.62	0.00	0.00	0.03	0.00	0.00	40.50
Nepal	5.39	0.00	12.15	0.00	0.00	0.00	0.00	0.00	17.54
Bangladesh	-21.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.02
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	23.22	0.00	13.77	0.00	0.00	0.03	0.00	0.00	37.02