



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: 06.10.2024

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 05.10.2024.

महोदय/Dear Sir,

आईईजीसी-2023 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 5-अक्टूबर-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 05.10.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 06-Oct-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 19:00 hrs; from RLDCs)	70902	66129	47185	26610	2843	213669
Peak Shortage (MW)	247	626	0	0	0	873
Energy Met (MU)	1619	1482	1152	579	54	4885
Hydro Gen (MU)	248	98	166	101	41	653
Wind Gen (MU)	21	57	40	-	-	118
Solar Gen (MU)*	164.80	92.66	103.64	2.82	0.36	364
Energy Shortage (MU)	0.98	1.23	0.00	0.00	0.00	2.21
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	71538	67035	53581	27268	2980	215149
Time Of Maximum Demand Met	14:57	18:58	11:58	21:24	17:45	14:58

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	0.033	0.00	0.00	4.98	4.98	78.12	16.91

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	14127	0	281.4	154.0	-2.1	881	0.00
	Haryana	9636	0	209.2	142.9	-3.7	371	0.00
	Rajasthan	15539	0	336.0	125.9	0.0	881	0.00
	Delhi	5858	0	125.3	110.5	-1.1	294	0.00
	UP	25798	0	521.7	196.6	0.8	487	0.00
	Uttarakhand	2377	0	48.3	28.2	0.7	134	0.00
	HP	1814	0	36.7	15.6	0.1	148	0.00
	J&K(UT) & Ladakh(UT)	2395	0	50.5	31.8	2.0	358	0.98
	Chandigarh	286	0	5.5	5.4	0.2	38	0.00
Railways NR ISTS	190	0	3.9	3.8	0.1	36	0.00	
WR	Chhattisgarh	5889	0	134.1	85.3	-0.5	321	0.00
	Gujarat	20256	0	440.7	172.7	-2.7	582	0.00
	MP	13046	0	276.1	159.2	-2.9	268	0.00
	Maharashtra	25769	626	553.0	205.8	3.0	860	1.23
	Goa	727	0	16.3	14.6	1.7	60	0.00
	DNHDDPDCL	1336	0	31.0	31.0	0.0	73	0.00
	AMNSIL	823	0	18.1	8.4	0.5	265	0.00
	BALCO	530	0	12.7	12.7	0.0	10	0.00
SR	Andhra Pradesh	10554	0	222.7	55.2	0.3	582	0.00
	Telangana	13024	0	258.3	109.1	-1.9	228	0.00
	Karnataka	10850	0	216.9	66.4	-1.3	389	0.00
	Kerala	4290	0	87.4	64.0	0.5	217	0.00
	Tamil Nadu	16455	0	356.3	192.1	3.5	879	0.00
	Puducherry	442	0	10.4	10.0	-0.2	43	0.00
ER	Bihar	6945	0	138.5	130.2	-2.6	145	0.00
	DVC	3453	0	72.7	-44.5	-0.6	277	0.00
	Jharkhand	2141	0	44.0	30.0	0.9	260	0.00
	Odisha	6247	0	130.8	31.3	-2.0	435	0.00
	West Bengal	8792	0	191.2	49.1	-2.2	312	0.00
	Sikkim	88	0	1.4	1.6	-0.2	7	0.00
Railways ER ISTS	23	0	0.1	0.2	0.0	1	0.00	
NER	Arunachal Pradesh	146	0	5.2	1.9	2.6	50	0.00
	Assam	1851	0	33.9	25.9	0.7	156	0.00
	Manipur	213	0	1.5	2.9	-1.5	33	0.00
	Meghalaya	269	0	4.4	-1.5	-0.3	33	0.00
	Mizoram	118	0	1.9	0.8	-0.7	3	0.00
	Nagaland	165	0	1.6	2.2	-1.2	17	0.00
Tripura	256	0	5.2	4.1	0.1	43	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	41.9	8.0	-23.0	-22.5
Day Peak (MW)	1921.6	500.4	-971.0	-1137.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	341.3	-191.2	60.0	-191.1	-19.1	0.0
Actual(MU)	335.7	-189.0	62.0	-194.0	-21.3	-6.6
O/D/U/D(MU)	-5.6	2.2	2.0	-3.0	-2.2	-6.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4535	12129	3948	3056	301	23969	53
State Sector	3991	9412	6137	1804	155	21498	47
Total	8526	21541	10085	4860	456	45467	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	863	1375	687	746	16	3688	71
Lignite	23	13	53	0	0	89	2
Hydro	248	98	166	101	41	653	13
Nuclear	30	47	75	0	0	152	3
Gas, Naptha & Diesel	21	48	12	0	23	104	2
RES (Wind, Solar, Biomass & Others)	192	151	173	5	0	522	10
Total	1376	1733	1166	852	80	5207	100

Share of RES in total generation (%)	13.95	8.72	14.82	0.63	0.45	10.02
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.11	17.08	35.48	12.44	51.81	25.47

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.081

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	215149	14:58	0
Non-Solar hr	214602	19:11	873

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: 06-Oct-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	8.1	-8.1
2	HVDC	PUSAULI B/B	-	0	296	0.0	7.4	-7.4
3	765 kV	GAYA-VARANASI	2	270	987	0.0	14.6	-14.6
4	765 kV	SASARAM-FATEHPUR	1	118	407	0.0	5.7	-5.7
5	765 kV	GAYA-BALIA	1	0	776	0.0	12.8	-12.8
6	400 kV	PUSAULI-VARANASI	1	0	249	0.0	4.4	-4.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	144	0.0	2.8	-2.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	774	0.0	14.3	-14.3
9	400 kV	PATNA-BALIA	2	0	1100	0.0	20.2	-20.2
10	400 kV	NAUBATPUR-BALIA	2	0	347	0.0	6.7	-6.7
11	400 kV	BIHARSHARIFF-BALIA	2	12	241	0.0	5.5	-5.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	558	0.0	9.3	-9.3
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	11	112	0.1	0.0	0.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.3	0.0	0.3
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						0.5	111.7	-111.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1210	0.0	17.4	-17.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	676	753	1.9	0.0	1.9
3	765 kV	JHARSUGUDA-DURG	2	0	605	0.0	9.7	-9.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	825	0.0	12.6	-12.6
5	400 kV	RANCHI-SIPAT	2	114	362	0.0	2.2	-2.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	138	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	43	165	0.0	1.6	-1.6
ER-WR						1.9	45.6	-43.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	311	0.0	7.4	-7.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1652	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2414	0.0	42.3	-42.3
4	400 kV	TALCHER-I/C	2	237	75	4.2	0.0	4.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	89.4	-89.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	255	71	2.8	0.0	2.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	295	200	2.1	0.0	2.1
3	220 kV	ALIPURDUAR-SALAKATI	2	59	48	0.4	0.0	0.4
ER-NER						5.3	0.0	5.2
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	4033	0.0	65.1	-65.1
2	HVDC	VINDHYACHAL B/B	-	240	0	4.6	0.0	4.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2354	0.0	48.6	-48.6
4	765 kV	GWALIOR-AGRA	2	112	1458	0.1	17.1	-17.0
5	765 kV	GWALIOR-PHAGI	2	308	1747	0.5	26.1	-25.6
6	765 kV	JABALPUR-ORAI	2	0	1067	0.0	31.4	-31.4
7	765 kV	GWALIOR-ORAI	1	739	158	6.7	0.4	6.3
8	765 kV	SATNA-ORAI	1	0	1067	0.0	8.5	-8.5
9	765 kV	BANASKANTHA-CHITTOGARH	2	1385	348	16.3	0.3	16.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2482	0.0	36.9	-36.9
11	400 kV	ZERDA-KANKROLI	1	299	67	3.3	0.1	3.3
12	400 kV	ZERDA-BHINMAL	1	126	199	0.0	2.7	-2.7
13	400 kV	VINDHYACHAL-RIHAND	1	0	1	0.0	0.0	0.0
14	400 kV	RAPP-SHUALPUR	2	318	469	1.3	3.9	-2.6
15	400 kV	NEEMUCH-Chittorgarh	2	218	506	0.8	4.9	-4.1
16	220 kV	BHANPURA-RANPUR	1	0	114	0.0	2.0	-2.0
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
18	220 kV	MEHGAON-AURAIYA	1	140	0	1.3	0.0	1.3
19	220 kV	MALANPUR-AURAIYA	1	78	17	0.5	0.1	0.4
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						35.4	250.0	-214.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	306	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	606	0.0	14.6	-14.6
3	765 kV	SOLAPUR-RAICHUR	2	1389	237	12.1	0.2	11.8
4	765 kV	WARDHA-NIZAMABAD	2	0	1778	0.0	20.5	-20.5
5	765 kV	WARORA-WARANGAL(NEW)	2	15	1730	0.0	21.5	-21.5
6	400 kV	KOLHAPUR-KUDGI	2	1516	0	30.6	0.0	30.6
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	95	0	1.9	0.0	1.9
9	220 kV	XELDEM-AMBEWADI	1	0	130	2.3	0.0	2.3
WR-SR						46.8	64.1	-17.3

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 MANGDECHU HEP 4*180MW)	815	598	726	17.42	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	928	852	894	21.45	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	92	61	76	1.83	
	NER	132kV GELEPHU-SALAKATI	20	0	5	0.12	
	NER	132kV MOTANGA-RANGIA	49	10	43	1.03	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	69	0	60	1.43	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	431	67	275	6.60	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-919	-917	-918	-22.04	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1137	-806	-938	-22.52	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-52	0	-38	-0.92	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 06-Oct-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	22.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.75
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.75

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	40.53	0.00	1.97	0.00	0.00	0.00	0.00	0.00	42.50
Nepal	2.35	0.00	0.00	0.00	0.00	6.32	0.00	0.00	8.67
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	42.88	0.00	1.97	0.00	0.00	6.32	0.00	0.00	51.17

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	40.53	0.00	1.97	0.00	0.00	0.00	0.00	0.00	42.50
Nepal	2.35	0.00	0.00	0.00	0.00	6.32	0.00	0.00	8.67
Bangladesh	-22.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.75
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	20.13	0.00	1.97	0.00	0.00	6.32	0.00	0.00	28.42