



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रिड 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: 06.11.2024

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, लापालंग, 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 05.11.2024.

महोदय/Dear Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 5-नवंबर-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध है।

As per article 38(1) of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 05.11.2024, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 06-Nov-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)	54584	57774	46384	23869	2771	185382
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1221	1372	1064	495	54	4207
Hydro Gen (MU)	139	29	127	49	24	367
Wind Gen (MU)	3	39	27	-	-	69
Solar Gen (MU)*	149.52	95.50	126.83	3.33	0.81	376
Energy Shortage (MU)	0.00	0.00	0.00	0.00	0.00	0.00
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58964	62382	49961	24732	3036	194137
Time Of Maximum Demand Met	18:26	16:01	16:01	18:32	17:19	18:33

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	0.035	0.00	0.23	7.31	7.55	81.36	11.10

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	7677	0	154.1	80.7	-1.6	304	0.00
	Haryana	7477	0	152.5	110.1	-0.9	162	0.00
	Rajasthan	16144	0	317.5	119.8	-0.7	488	0.00
	Delhi	4155	0	81.7	74.6	-1.9	81	0.00
	UP	18679	0	382.5	131.1	-0.7	301	0.00
	Uttarakhand	2062	0	40.0	27.8	0.8	103	0.00
	HP	1854	0	33.5	21.0	-0.5	267	0.00
	J&K(UT) & Ladakh(UT)	2536	0	51.6	43.5	0.7	194	0.00
	Chandigarh	221	0	3.9	4.0	-0.1	44	0.00
Railways NR ISTS	190	0	4.0	4.0	0.0	22	0.00	
WR	Chhattisgarh	4309	0	92.4	32.4	-0.2	261	0.00
	Gujarat	17304	0	359.9	206.7	-1.1	619	0.00
	MP	14304	0	284.9	165.6	-2.2	461	0.00
	Maharashtra	25351	0	556.7	229.4	-0.2	822	0.00
	Goa	743	0	15.6	14.0	1.0	58	0.00
	DNHDDPDCL	1304	0	29.7	29.8	-0.1	44	0.00
	AMNSIL	898	0	19.7	9.7	0.0	264	0.00
BALCO	530	0	12.7	12.7	0.0	6	0.00	
SR	Andhra Pradesh	10442	0	213.0	64.2	-1.8	469	0.00
	Telangana	9836	0	201.9	77.4	-0.1	929	0.00
	Karnataka	11613	0	228.8	90.4	2.3	1000	0.00
	Kerala	4216	0	81.4	60.7	0.6	206	0.00
	Tamil Nadu	15996	0	329.6	194.7	-2.6	426	0.00
	Puducherry	441	0	9.8	9.5	-0.3	178	0.00
ER	Bihar	5668	0	110.9	100.9	-1.1	240	0.00
	DVC	3180	0	65.2	-40.6	0.5	303	0.00
	Jharkhand	2035	0	38.9	26.5	-0.8	165	0.00
	Odisha	5554	0	105.7	36.3	-2.2	486	0.00
	West Bengal	8837	0	173.0	41.7	-2.0	339	0.00
	Sikkim	94	0	1.4	1.5	-0.2	15	0.00
Railways ER ISTS	10	0	0.1	0.2	0.0	3	0.00	
NER	Arunachal Pradesh	155	0	2.7	2.4	0.0	16	0.00
	Assam	1909	0	33.3	25.4	0.6	237	0.00
	Manipur	204	0	2.8	3.0	-0.2	32	0.00
	Meghalaya	351	0	6.3	4.5	-0.1	70	0.00
	Mizoram	133	0	2.1	1.4	-0.3	41	0.00
	Nagaland	160	0	2.5	2.3	-0.1	27	0.00
	Tripura	236	0	4.8	5.9	0.0	118	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	8.6	12.7	-23.5	-17.2
Day Peak (MW)	504.8	550.7	-997.0	-734.4

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	235.2	-171.2	115.8	-182.3	2.5	0.0
Actual(MU)	228.3	-153.8	103.5	-189.8	0.9	-10.9
O/D/U/D(MU)	-7.0	17.3	-12.2	-7.5	-1.6	-10.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4769	8486	3398	1806	647	19105	38
State Sector	6968	12906	8601	2509	230	31214	62
Total	11737	21392	11999	4315	877	50319	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	705	1415	597	700	14	3431	75
Lignite	27	18	52	0	0	97	2
Hydro	139	29	127	49	24	367	8
Nuclear	36	49	76	0	0	160	4
Gas, Naptha & Diesel	10	13	5	0	20	47	1
RES (Wind, Solar, Biomass & Others)	159	138	173	5	1	477	10
Total	1075	1663	1029	754	58	4580	100

Share of RES in total generation (%)	14.81	8.33	16.81	0.68	1.40	10.41
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.99	13.01	36.51	7.21	42.42	21.93

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
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	190921	10:46	0
Non-Solar hr	194137	18:33	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: 06-Nov-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	301	0.0	7.3	-7.3
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.4	-7.4
3	765 kV	GAYA-VARANASI	2	295	1115	0.0	13.3	-13.3
4	765 kV	SASARAM-FATEHPUR	1	105	530	0.0	6.5	-6.5
5	765 kV	GAYA-BALIA	1	0	599	0.0	11.0	-11.0
6	400 kV	PUSAULI-VARANASI	1	0	201	0.0	3.6	-3.6
7	400 kV	PUSAULI-ALLAHABAD	1	0	188	0.0	3.7	-3.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	132	559	0.0	6.3	-6.3
9	400 kV	PATNA-BALIA	2	0	961	0.0	15.0	-15.0
10	400 kV	NAUBATPUR-BALIA	2	10	310	0.0	4.6	-4.6
11	400 kV	BIHARSHARIFF-BALIA	2	189	133	0.1	0.0	0.1
12	400 kV	MOTIHARI-GORAKHPUR	2	1	479	0.0	7.2	-7.2
13	400 kV	BIHARSHARIFF-VARANASI	2	64	382	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	98	0.0	0.2	-0.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
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-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	86.0	-85.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	230	654	0.0	6.0	-6.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	875	594	4.1	0.0	4.1
3	765 kV	JHARSUGUDA-DURG	2	0	704	0.0	12.4	-12.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	650	0.0	8.0	-8.0
5	400 kV	RANCHI-SIPAT	2	177	311	0.0	1.6	-1.6
6	220 kV	BUDHIPADAR-RAIGARH	1	10	90	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	142	47	0.8	0.0	0.8
ER-WR						4.9	29.0	-24.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	528	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1828	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2021	0.0	41.3	-41.3
4	400 kV	TALCHER-I/C	2	235	810	0.0	3.7	-3.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	93.6	-93.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	539	0.0	9.4	-9.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	750	0.0	12.6	-12.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	135	0.0	2.4	-2.4
ER-NER						0.0	24.4	-24.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1005	0.0	24.1	-24.1
NER-NR						0.0	24.1	-24.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1004	0.0	24.2	-24.2
2	HVDC	VINDHYACHAL B/B	-	563	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	976	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	1312	0.0	21.9	-21.9
5	765 kV	GWALIOR-PHAGI	2	340	2042	0.6	30.8	-30.2
6	765 kV	JABALPUR-ORAI	2	0	865	0.0	29.1	-29.1
7	765 kV	GWALIOR-ORAI	1	852	0	14.0	0.0	14.0
8	765 kV	SATNA-ORAI	1	0	1048	0.0	21.9	-21.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1100	0	19.6	0.0	19.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2301	0.0	43.0	-43.0
11	400 kV	ZERDA-KANKROLI	1	275	0	4.4	0.0	4.4
12	400 kV	ZERDA-BHINMAL	1	190	0	3.1	0.0	3.1
13	400 kV	VINDHYACHAL-RIHAND	1	965	0	20.8	0.0	20.8
14	400 kV	RAPP-SHUJALPUR	2	531	275	2.6	2.3	0.3
15	400 kV	NEEMUCH-Chittorgarh	2	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-RANPUR	1	0	183	0.0	3.3	-3.3
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
18	220 kV	MEHGAON-AURAIYA	1	39	0	1.4	0.0	1.4
19	220 kV	MALANPUR-AURAIYA	1	68	0	0.8	0.0	0.8
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						74.6	203.0	-128.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1002	0.0	14.3	-14.3
2	HVDC	RAIGARH-PUGALUR	2	0	1501	0.0	36.2	-36.2
3	765 kV	SOLAPUR-RAICHUR	2	1418	310	11.6	0.3	11.2
4	765 kV	WARDHA-NIZAMABAD	2	0	1181	0.0	16.6	-16.6
5	765 kV	WARORA-WARANGAL(NEW)	2	562	298	0.0	23.2	-23.2
6	400 kV	KOLHAPUR-KUDGI	2	1667	0	28.2	0.0	28.2
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	124	2.3	0.0	2.3
WR-SR						42.1	90.7	-48.6

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)	220	157	189	4.54	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	303	208	262	6.28	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-151	-113	-135	-3.24	
	NER	132kV GELEPHU-SALAKATI	19	6	13	0.31	
	NER	132kV MOTANGA-RANGIA	40	19	28	0.68	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.00	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	69	0	62	1.50	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	482	323	465	11.15	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-921	-913	-913	-21.92	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-734	-695	-718	-17.22	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-76	0	-65	-1.57	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 06-Nov-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	22.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.99
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.99

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	8.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.18
Nepal	0.00	0.00	0.00	0.00	0.00	10.74	0.00	0.00	10.74
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	8.18	0.00	0.00	0.00	0.00	10.74	0.00	0.00	18.92

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	8.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.18
Nepal	0.00	0.00	0.00	0.00	0.00	10.74	0.00	0.00	10.74
Bangladesh	-22.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.99
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-14.81	0.00	0.00	0.00	0.00	10.74	0.00	0.00	-4.07

15 Min (INSTANTANEOUS) ALL INDIA GRID FREQUENCY, GENERATION & DEMAND MET												
TIME	FREQUENCY (Hz)	DEMAND MET (MW)	NUCLEAR (MW)	WIND (MW)	SOLAR (MW)	HYDRO (MW)	GAS (MW)	THERMAL (MW)	OTHERS* (MW)	NET DEMAND MET (MW)	TOTAL GENERATION (MW)	Net Transnational Exchange (MW)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I=A-(C+D))	(J=B+C+D+E+F+G+H)	(K)
00:00	49.98	158522	6334	3138	139	12407	1843	136508	1264	155245	161633	-16
00:15	49.98	157739	6309	3192	140	12133	1817	135580	1238	154407	160409	-38
00:30	50.03	157040	6326	3191	136	12703	1858	134386	1316	153713	159916	-34
00:45	50.03	156126	6337	3136	136	12958	1868	133507	1246	152854	159188	-29
01:00	49.98	155025	6337	3167	136	12812	1875	132819	1273	151722	158419	-10
01:15	49.98	154159	6330	3225	135	12802	1835	131833	1300	150799	157460	-4
01:30	49.98	153235	6333	3214	135	12469	1864	131486	1296	149886	156797	-27
01:45	49.98	152538	6333	3176	135	11801	1865	131855	1289	149227	156454	-68
02:00	49.98	151246	6329	3150	135	11686	1860	130658	1246	147961	155064	-67
02:15	49.93	151407	6334	3164	135	11771	1844	130753	1255	148108	155256	-56
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