



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority



Broad Overview of Monthly Renewable Energy Generation

मासिक नवीकरणीय ऊर्जा उत्पादन का व्यापक दृष्टिकोण

November-2023/ नवंबर -2023

नवीकरणीय परियोजना प्रबोधन प्रभाग

Renewable Project Monitoring Division

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Highlights of RE GENERATION

1. RE capacity addition during November 2023 has been 596.05 MW (Solar – 293.65 MW, Wind – 271.30 MW, Large Hydro-30.00 MW and Others-1.10 MW).
2. RE generation during November 2023 has decreased by 11.03 % as compared to November 2022.
3. Large Hydro Power generation during November 2023 as compared to November 2022 has decreased by 32.99 %.
4. Solar Power generation during November 2023 as compared to November 2022 has decreased by 1.95 %.
5. Wind Power generation during November 2023 as compared to November 2022 has increased by 42.37 % on All India basis in all States/UTs except Maharashtra and Kerala.
6. Biomass Power generation during November 2023 as compared to November 2022 has increased by 46.49 % on All India basis except States of Haryana and Karnataka.
7. Bagasse power generation during November 2023 as compared to November 2022 has decreased by 5.15 %.
8. Others (Waste to Energy) Power generation has increased by 8.52 % during November 2023 as compared to November 2022 on All India basis except Haryana and West Bengal.
9. Small Hydro Power generation during November 2023 as compared to November 2022 has decreased by 23.25 %.

All India RE Capacity Addition

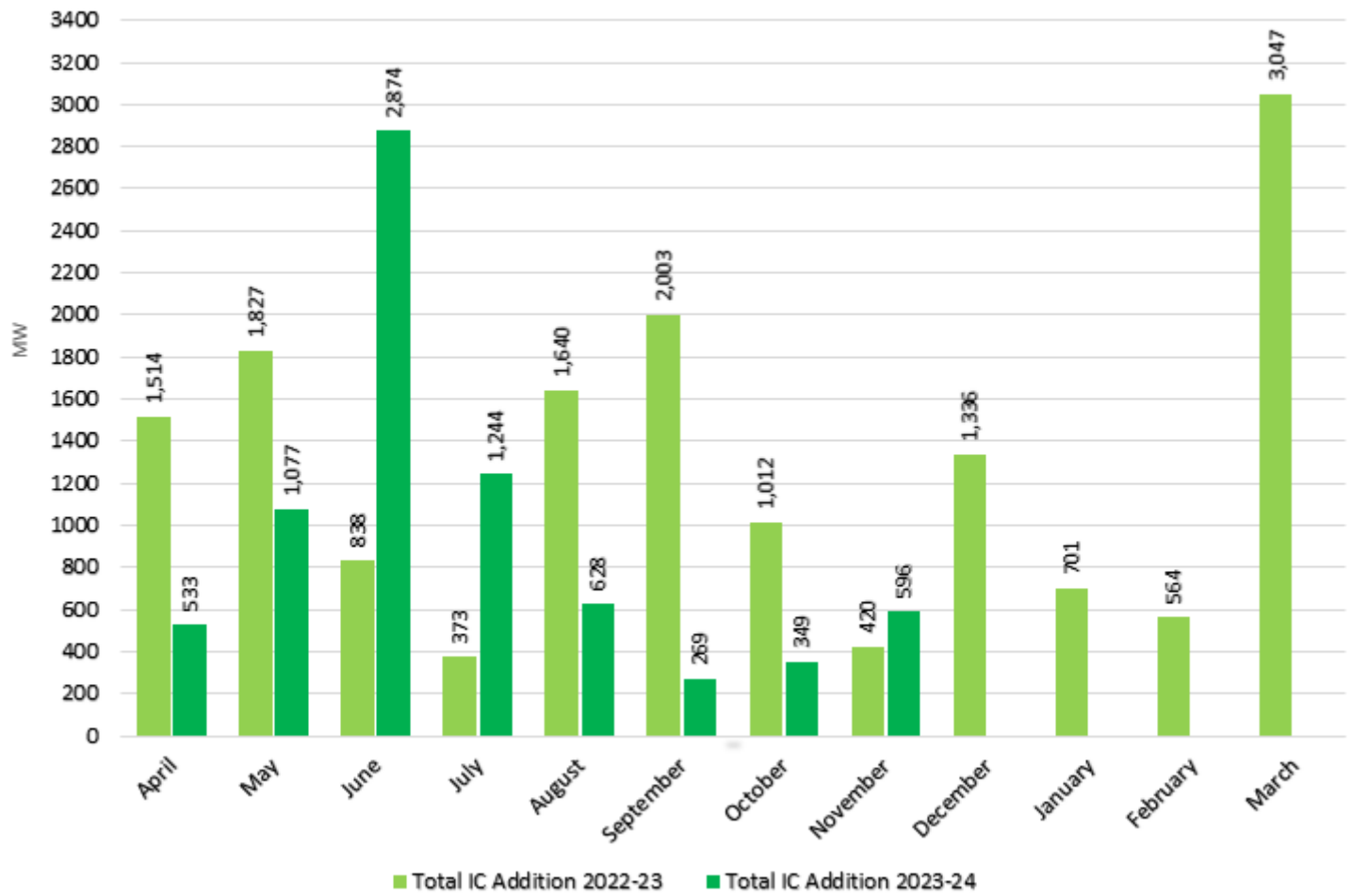


Figure 1: All India Month wise RE Capacity Addition

Month wise Solar IC addition

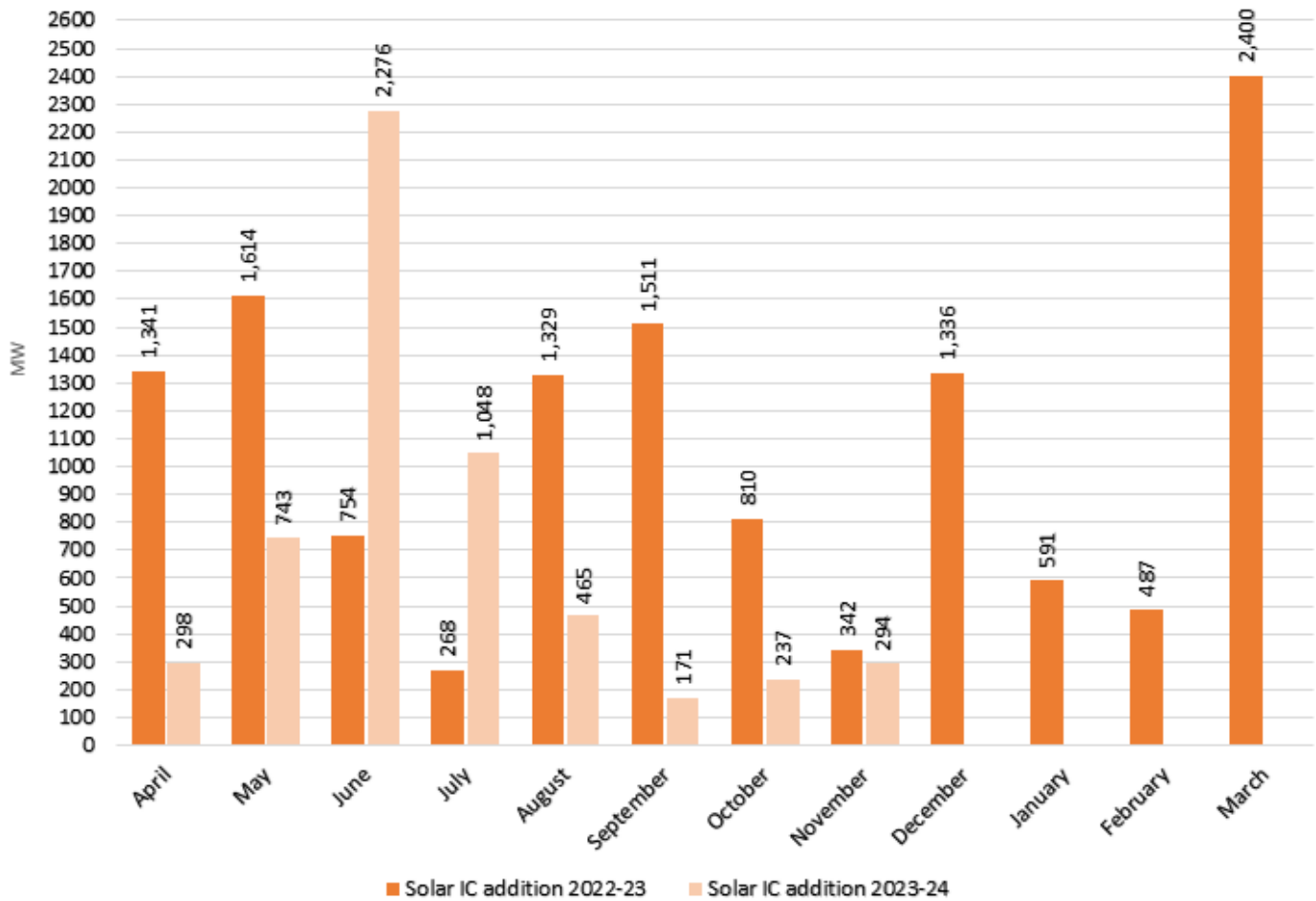


Figure 2: All India Month wise Solar Capacity Addition

Month wise Wind IC addition

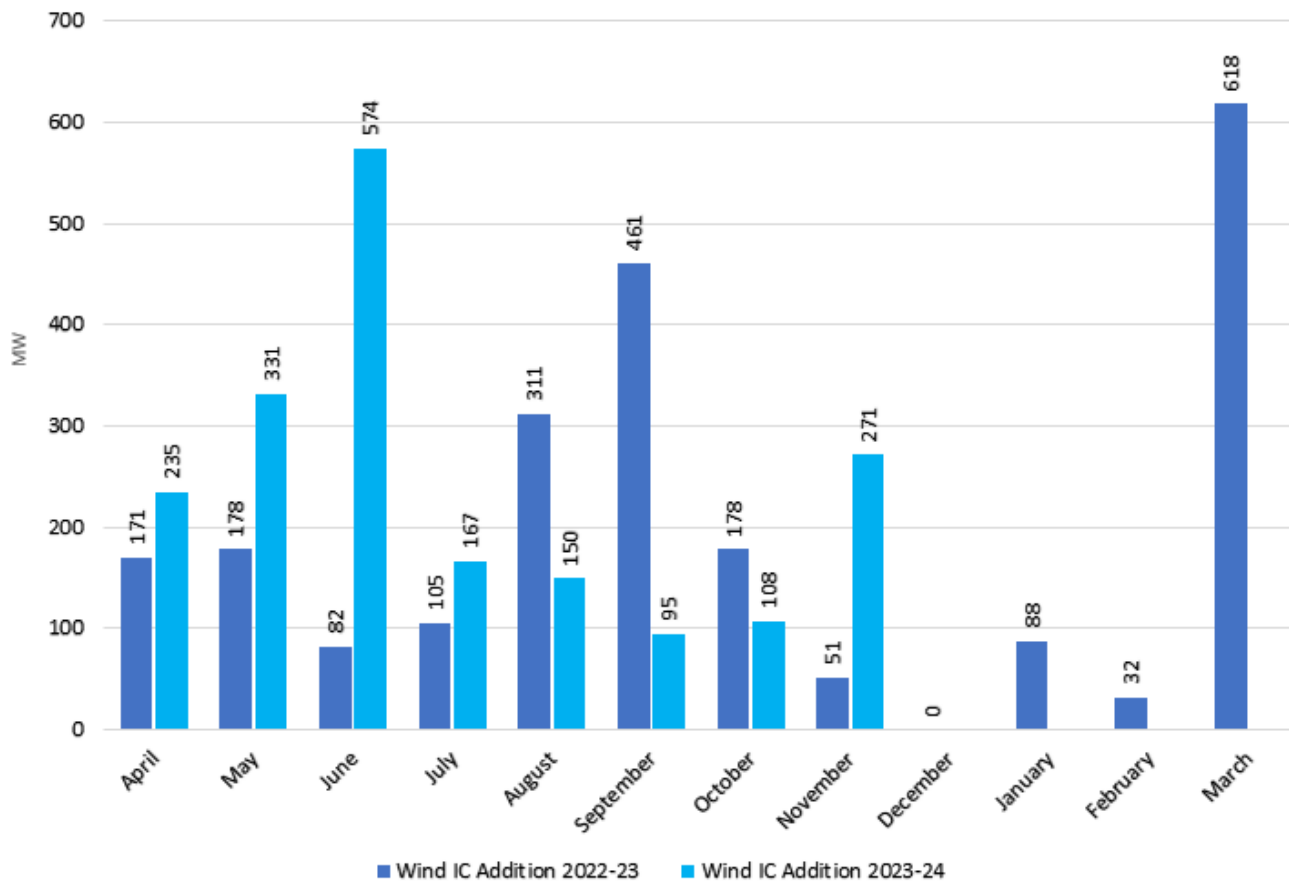


Figure 3: All India Month wise Wind Capacity Addition

Summary of RE Capacity Addition for the Month of November'23

Increased by 42.07 % as compared to November 22.

Increased by 70.75 % as compared to October 23.

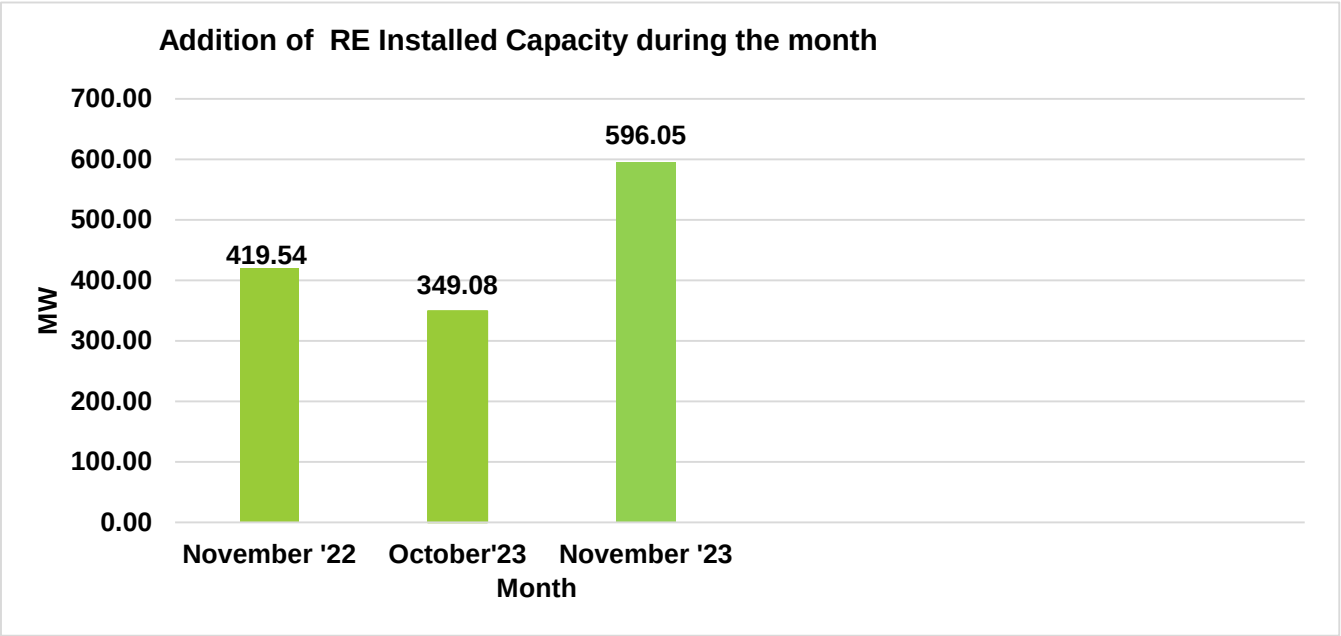


Figure 4: RE capacity added during the Month

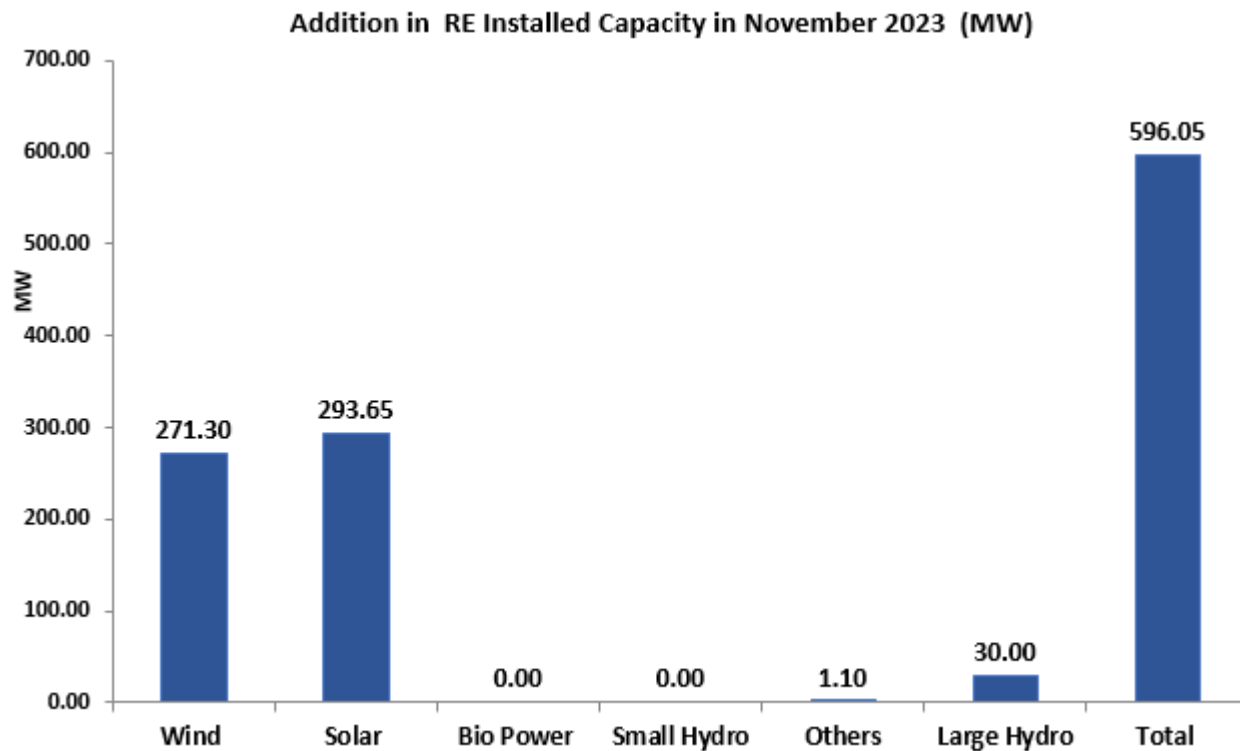


Figure 5: Source wise addition in RE Installed Capacity in November 23

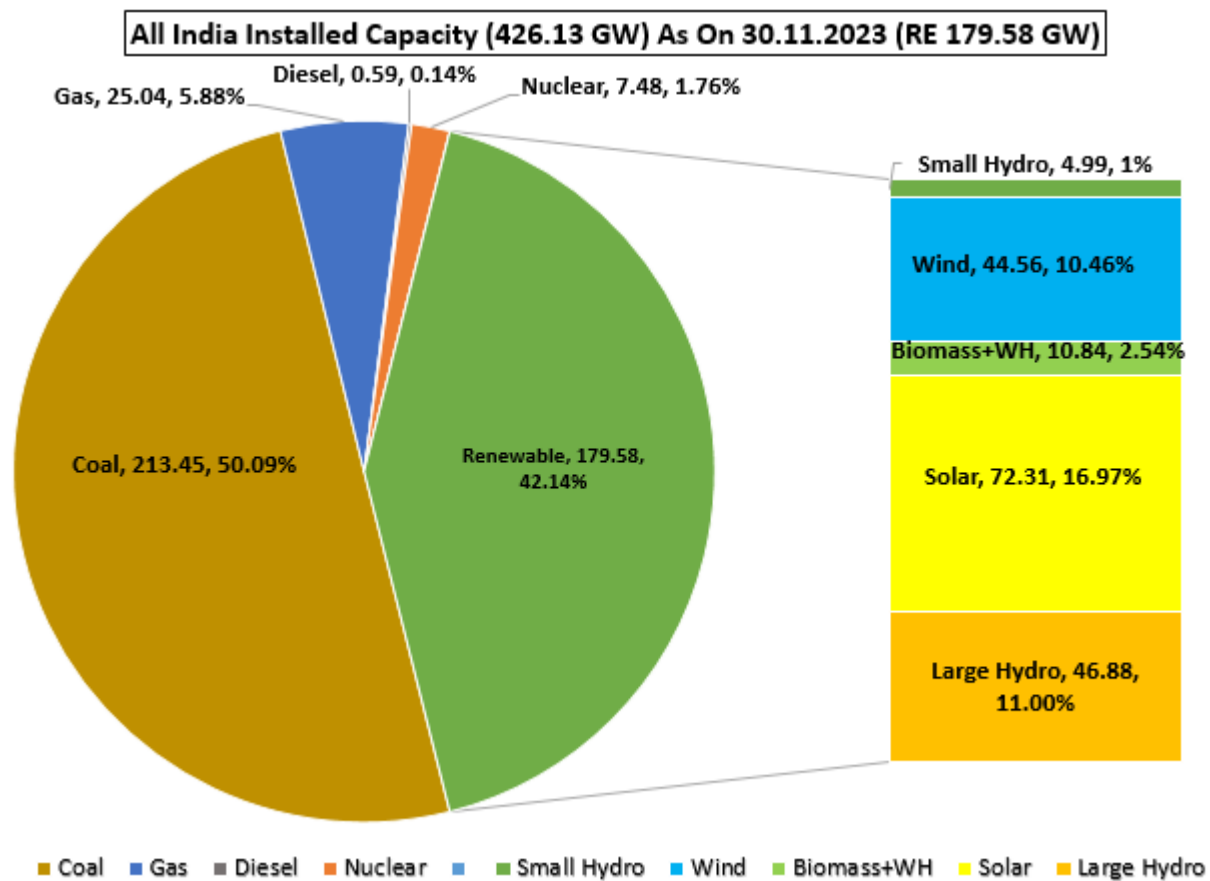


Figure 6: Installed Capacity in India as on 30.11.2023

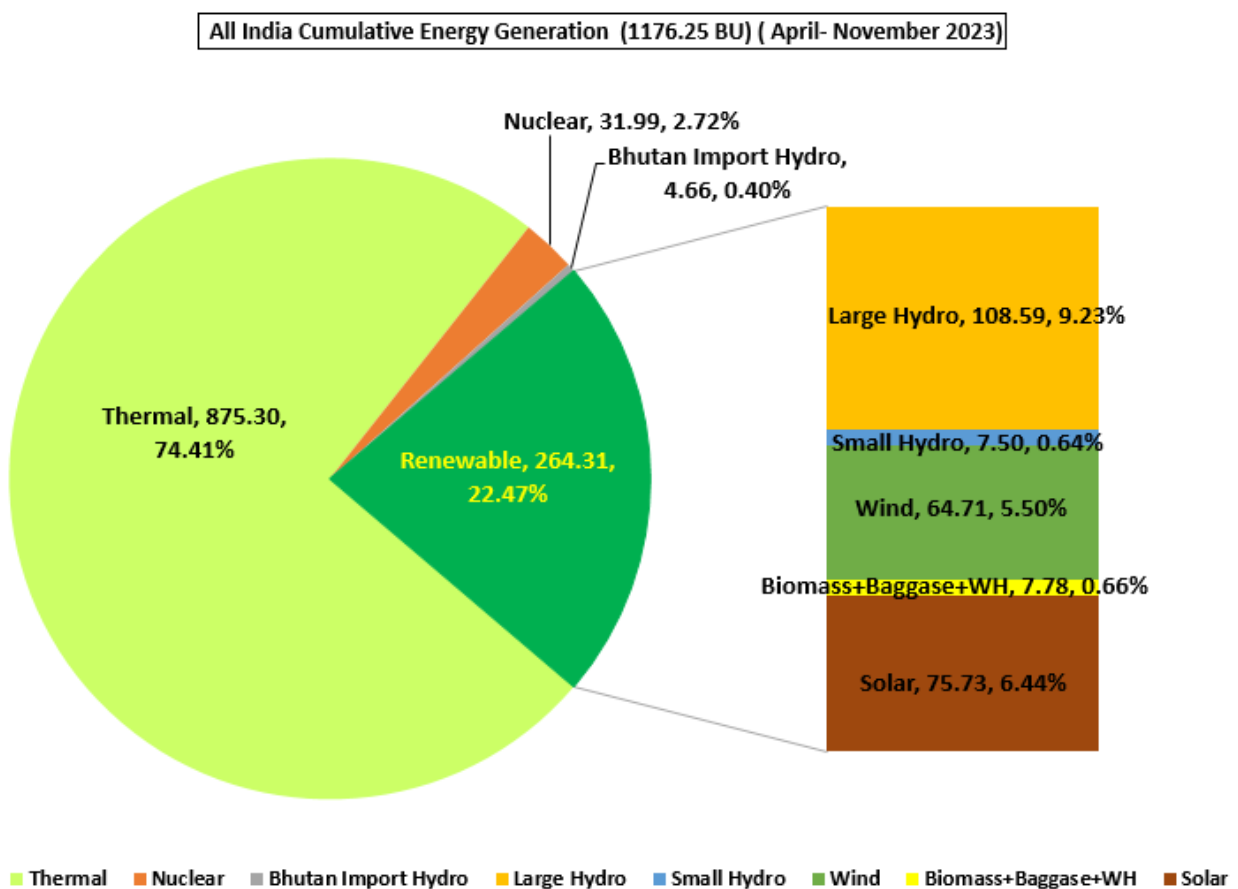


Figure 7: Cumulative Total Energy Generation in India and Share of RE for the year 2023-24

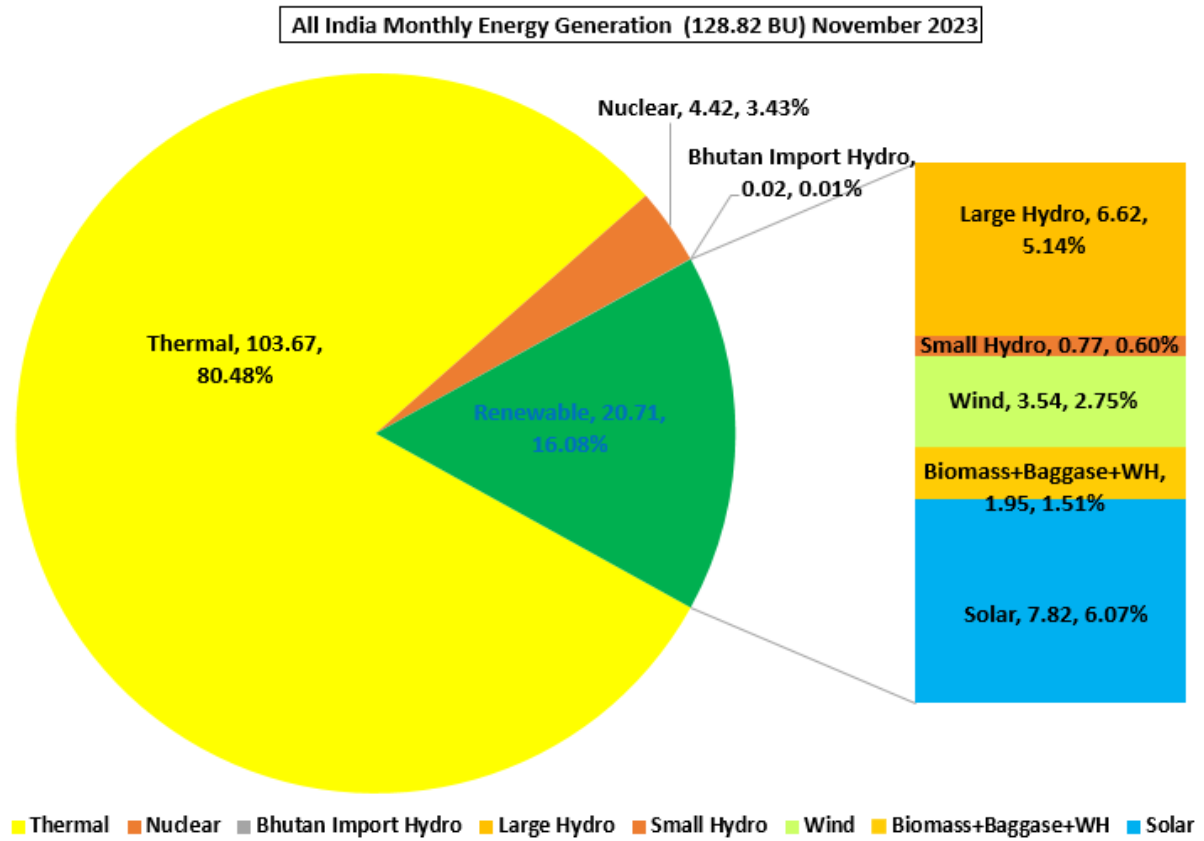


Figure 8: Total Energy Generation in India and Share of RE in the month of November 2023

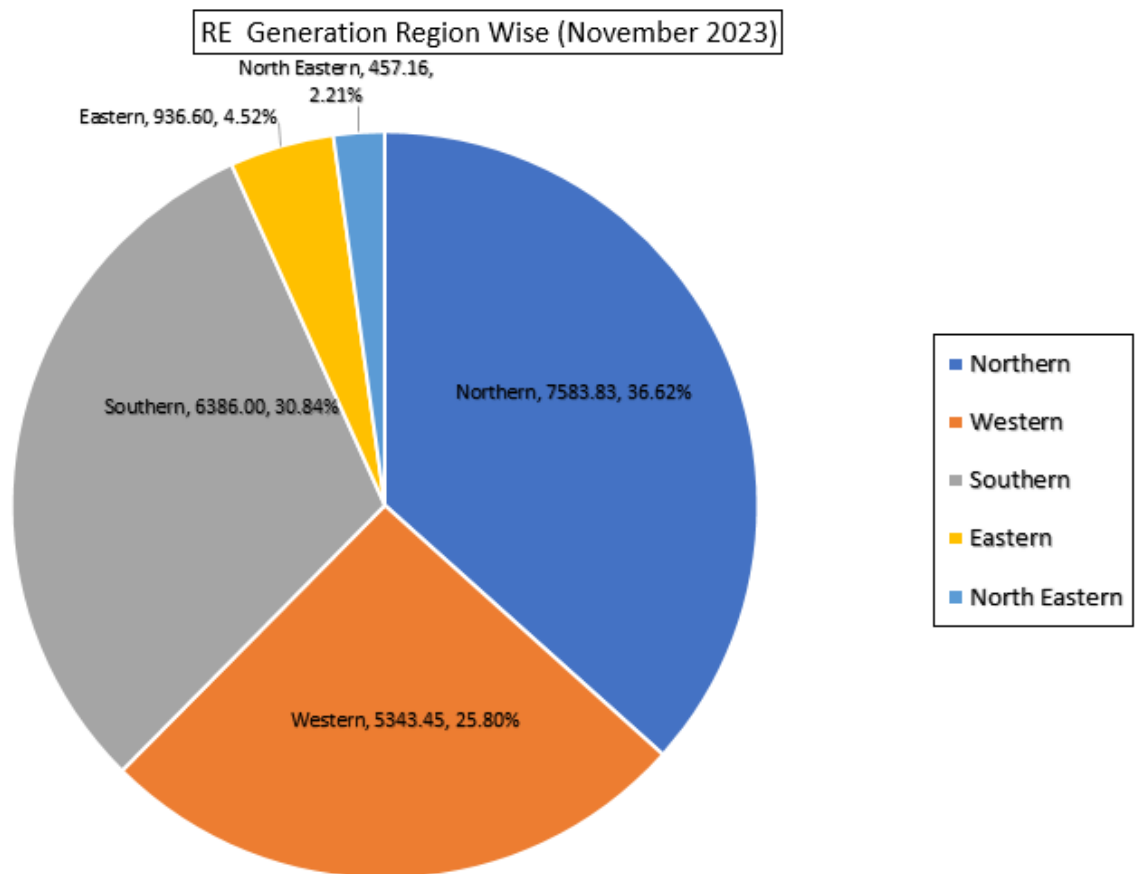


Figure 9: RE Generation Region Wise of November -2023

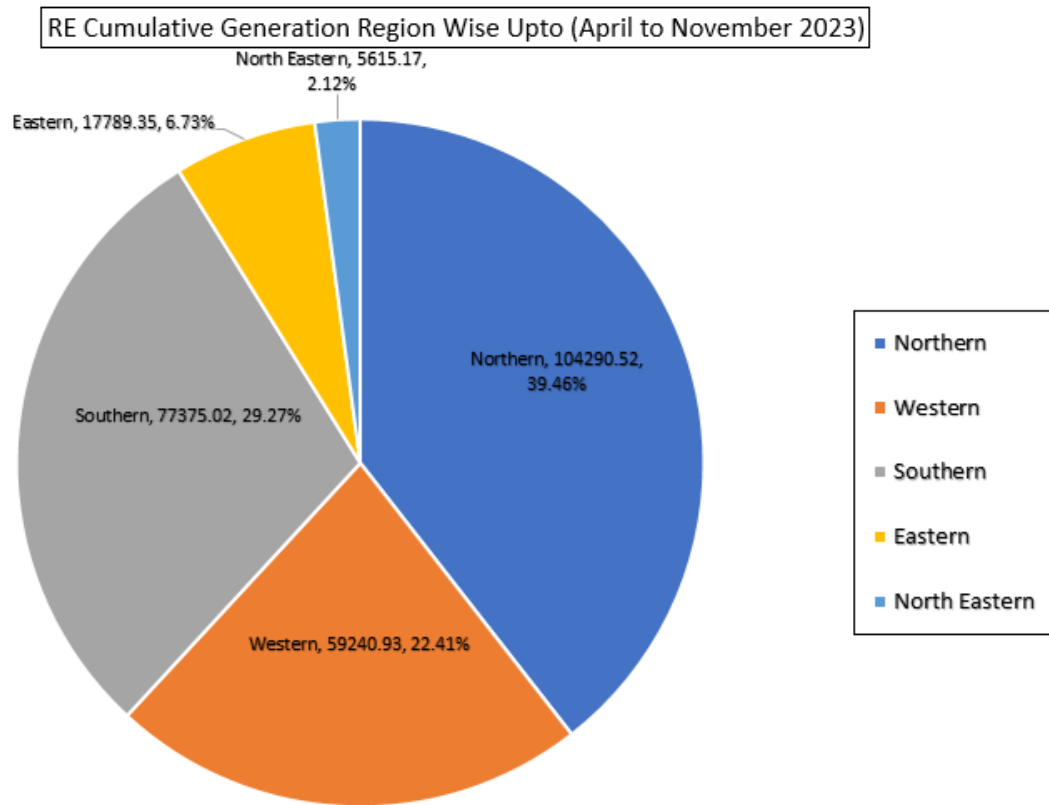


Figure 10: RE Cumulative Generation Region Wise Upto (April to November -2023)

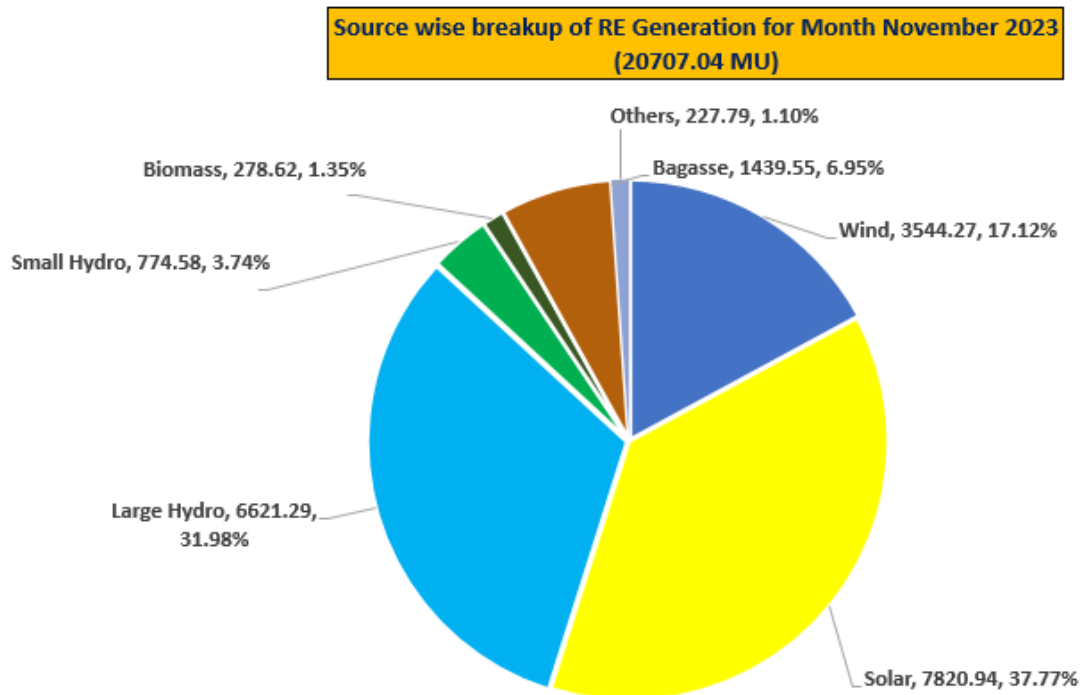


Figure 11: Source wise breakup of RE Generation in the month of November -2023

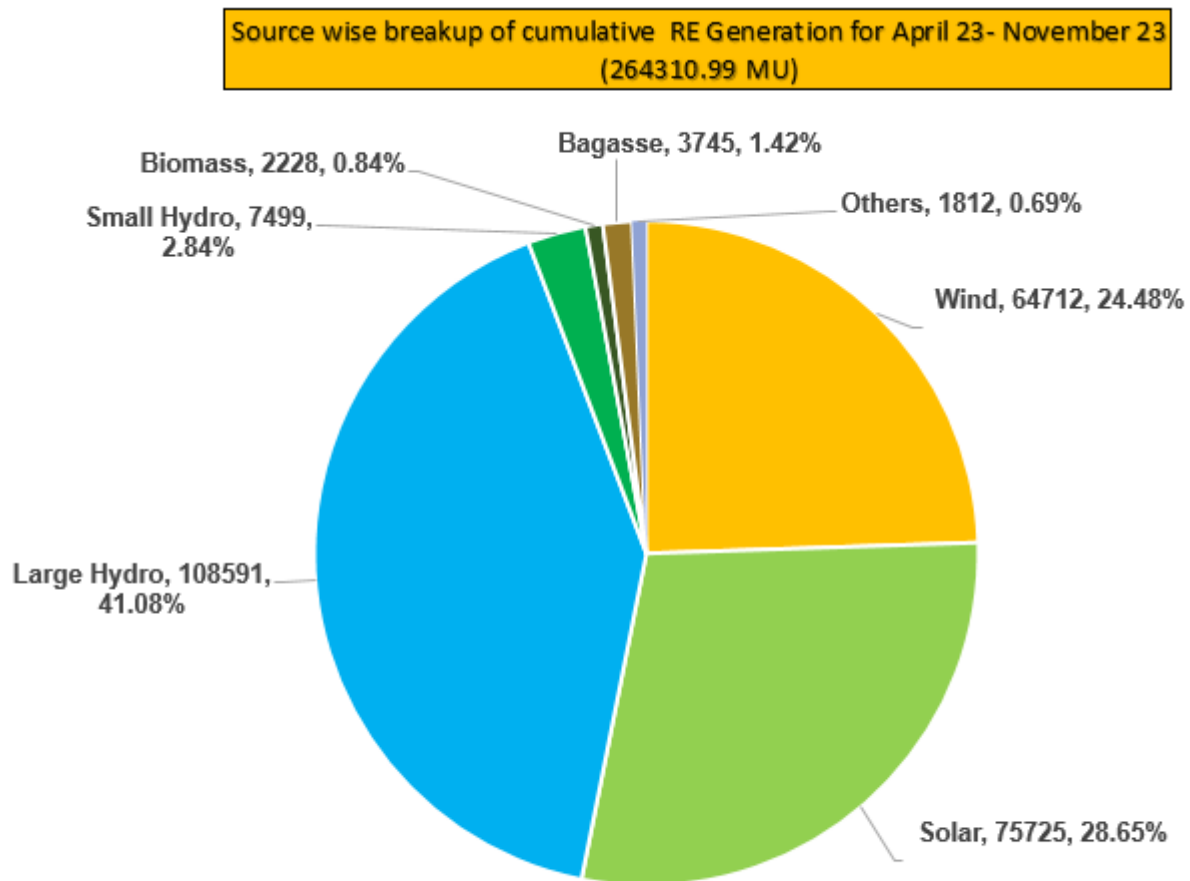


Figure 12: Source wise breakup of Cumulative RE Generation for the year 2023-24.

Summary of Renewable Energy Generation

Decreased by 11.03 % as compared to November' 22

Decreased by 22.31 % as compared to October '23.

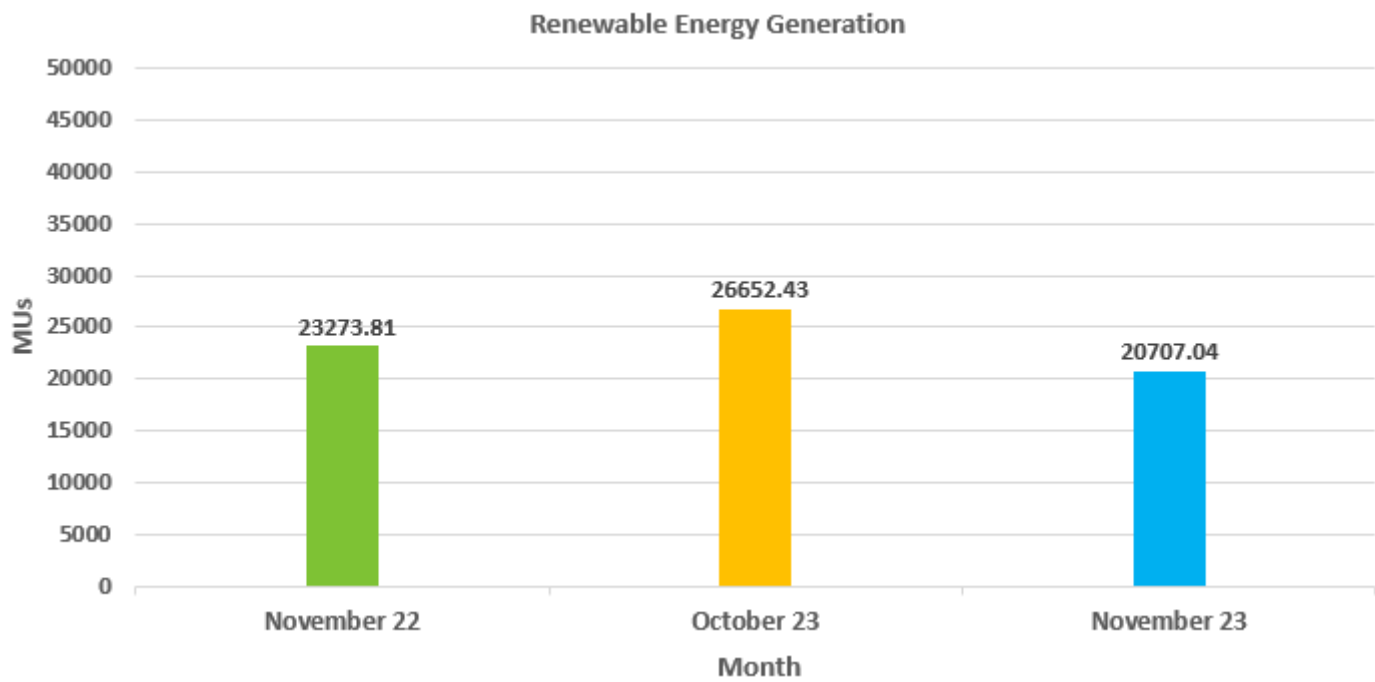


Figure 13: Renewable Energy Generation

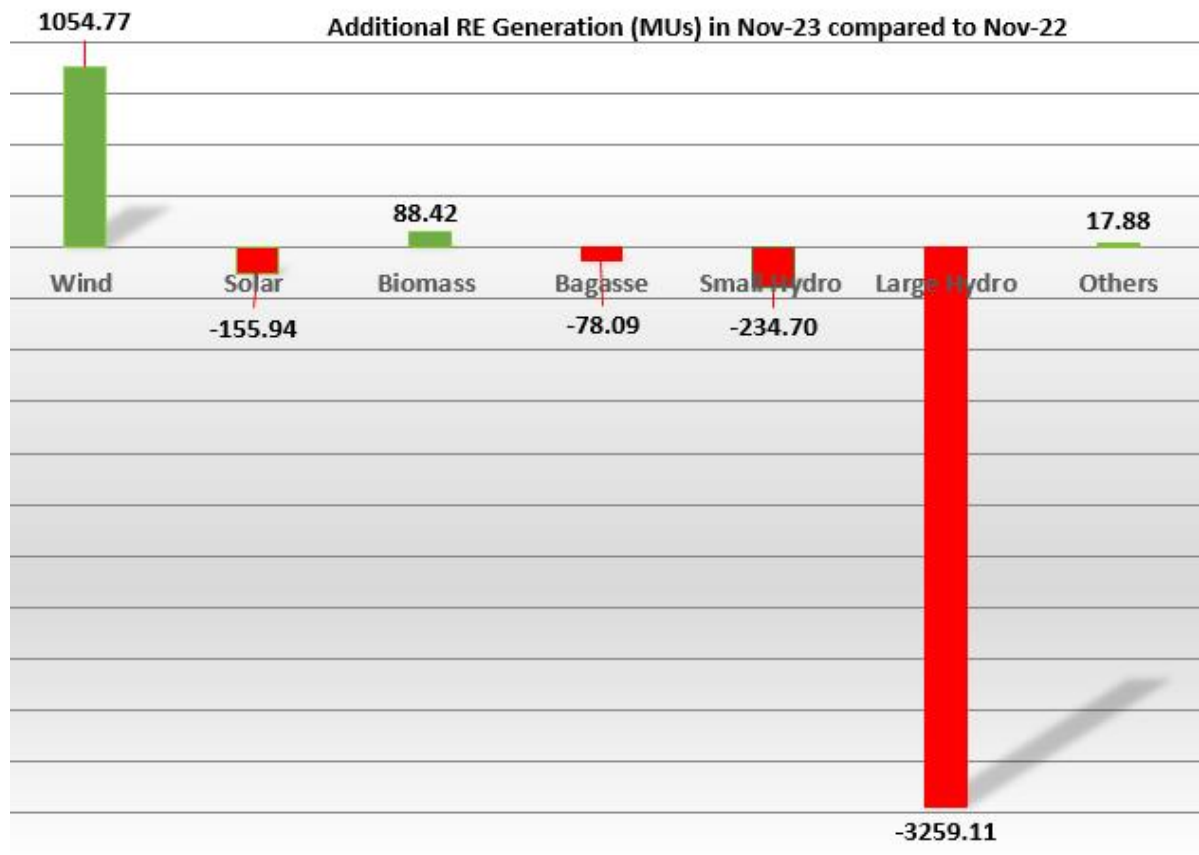


Figure 14: Additional RE Generation in November -23 as compared to November -22

India Renewable Energy Growth rate % increase over same Month in the last year

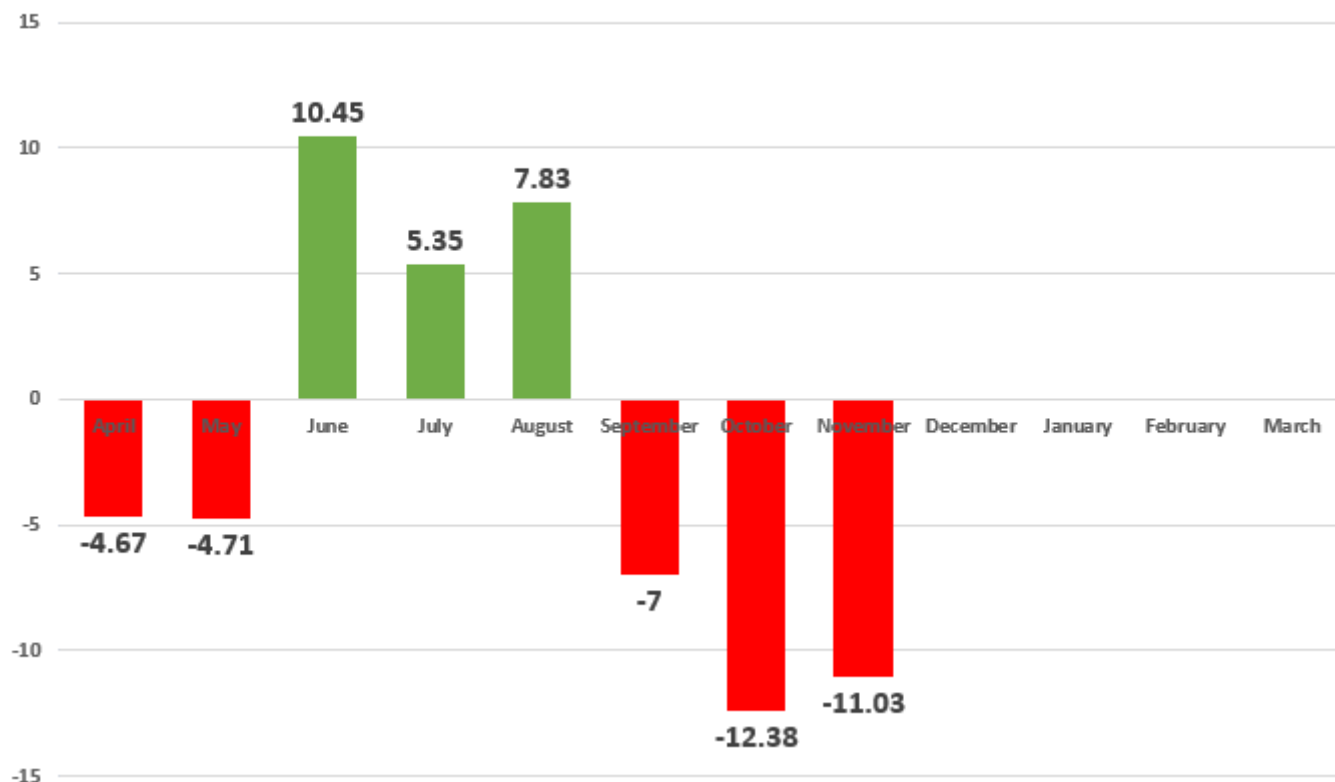


Figure 15: Month Wise % Growth of RE Generation in year 2023-24 w.r.t to previous year Same Month.

Month Wise RE Generation in MU

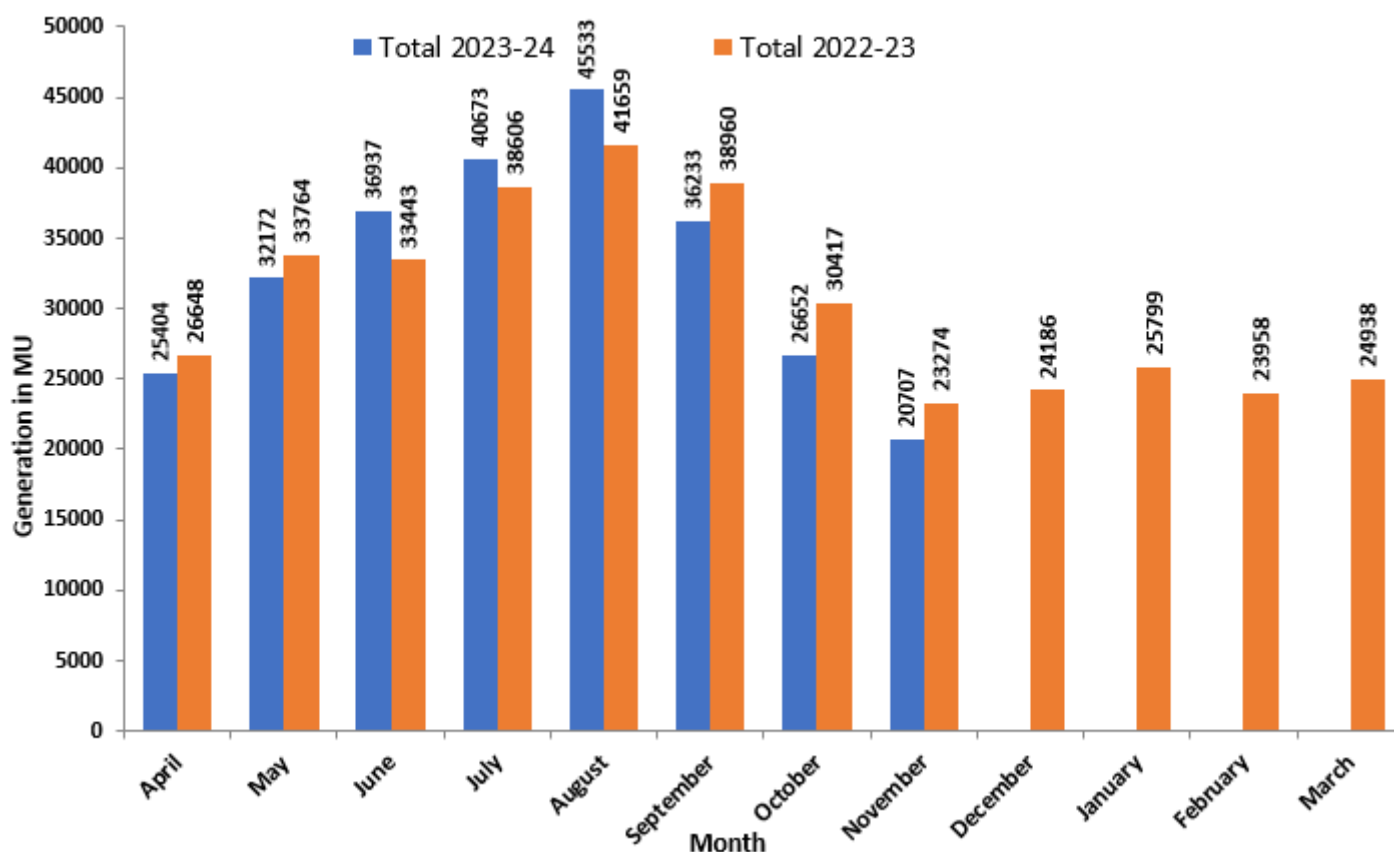


Figure 16: comparison of Month Wise RE Generation in year 2022-23 & in year 2023-24

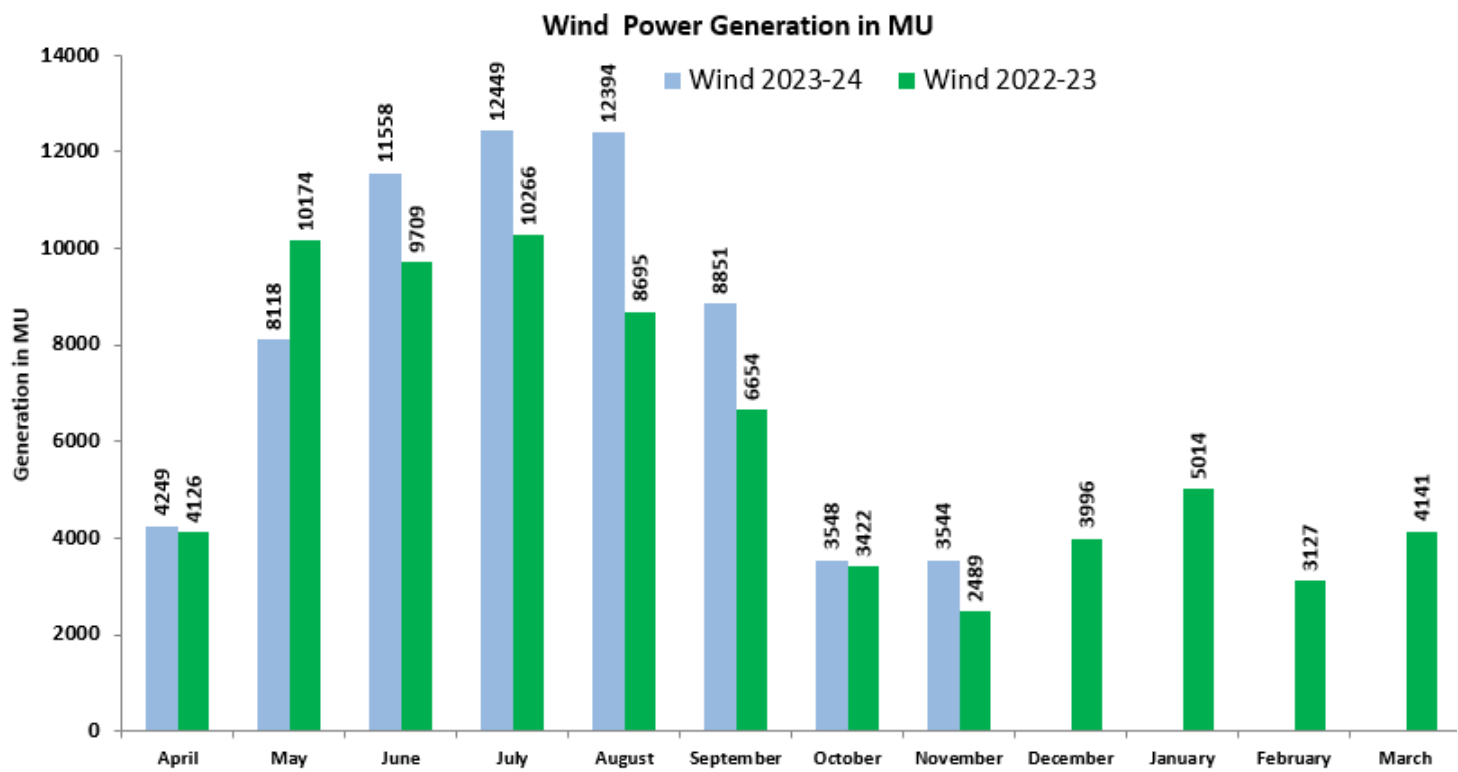


Figure 17: Month Wise Wind Power Generation for the year 2022-23 and year 2023-24.

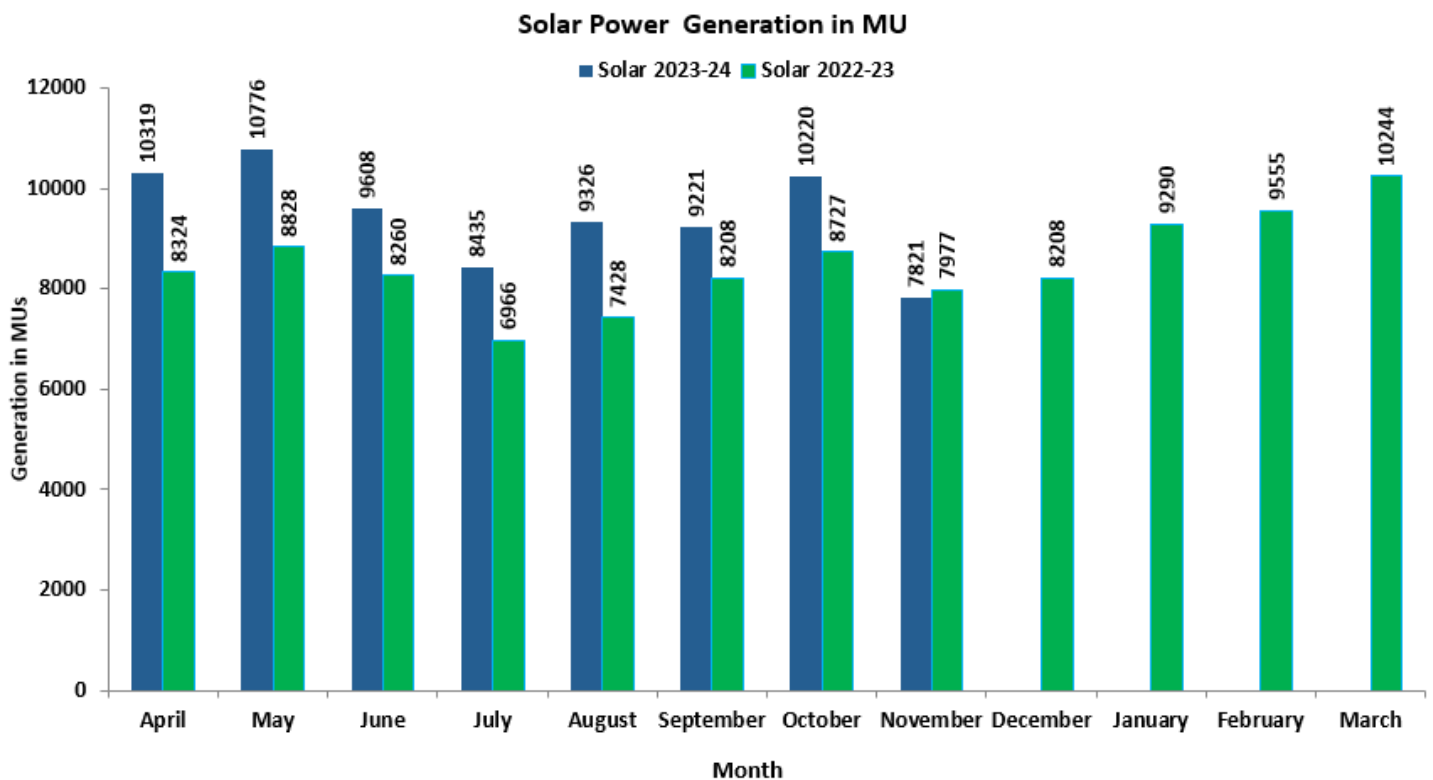


Figure 18: Month Wise Solar Power Generation for the year 2022-23 and year 2023-24.

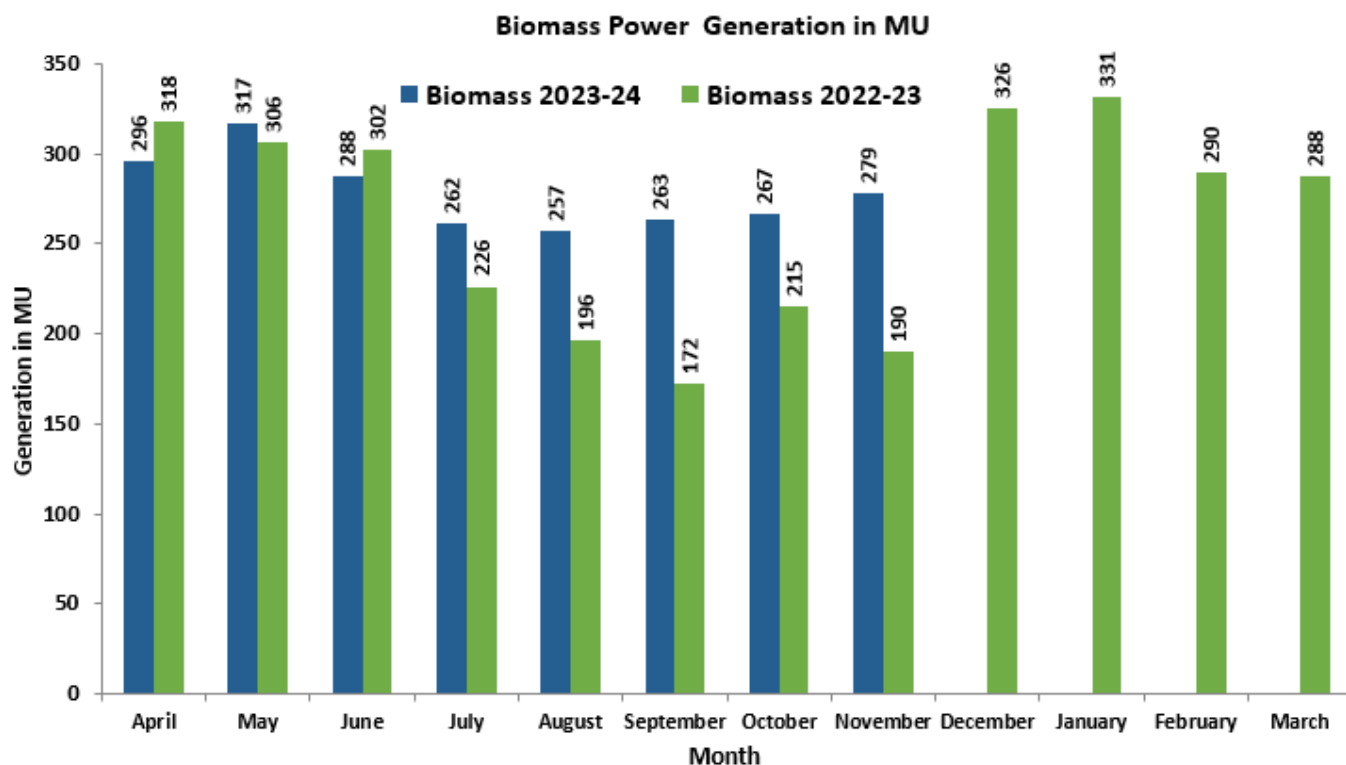


Figure 19: Month Wise Biomass Power Generation for the year 2022-23 and year 2023-24.

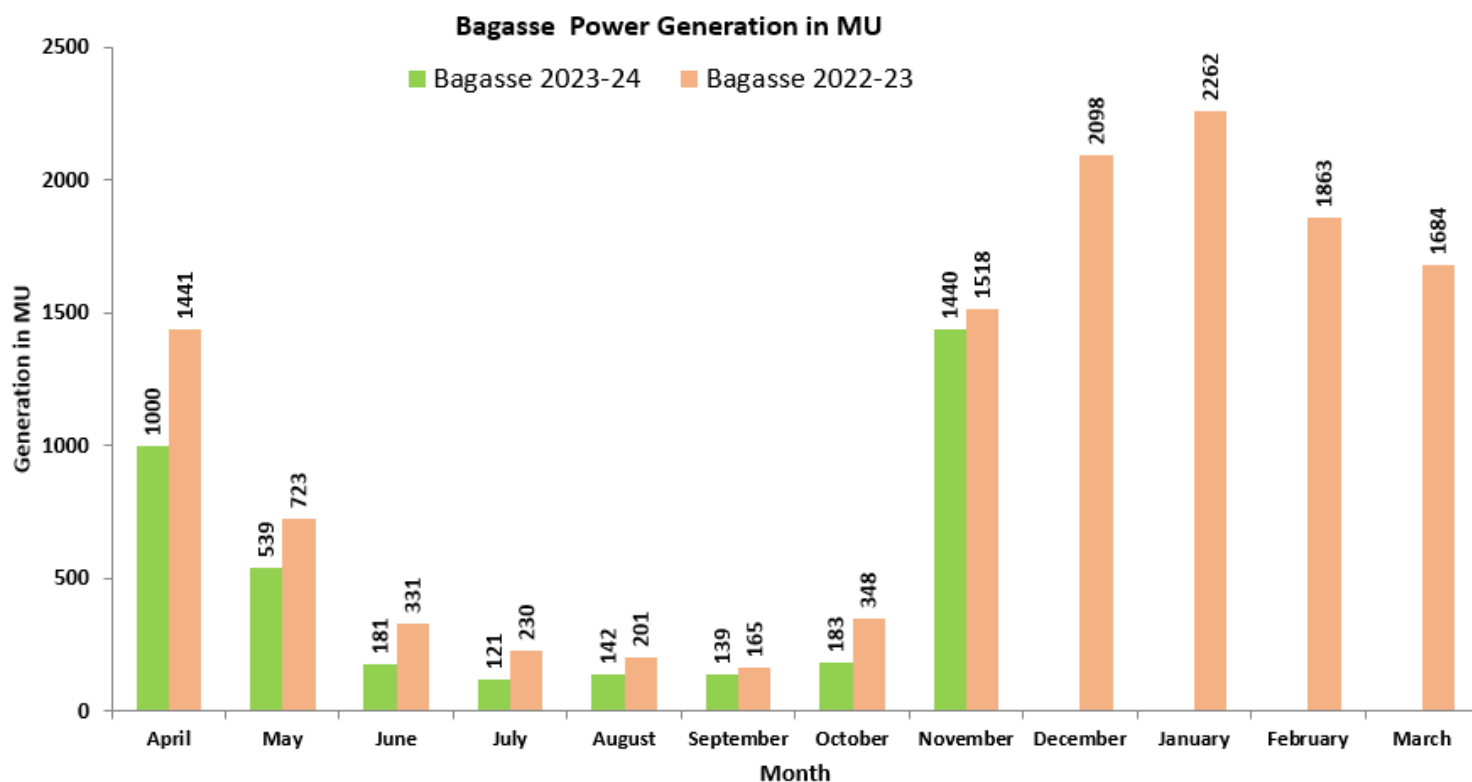


Figure 20: Month Wise Bagasse Power Generation for the year 2022-23 and year 2023-24.

Small Hydro Power Generation in MU

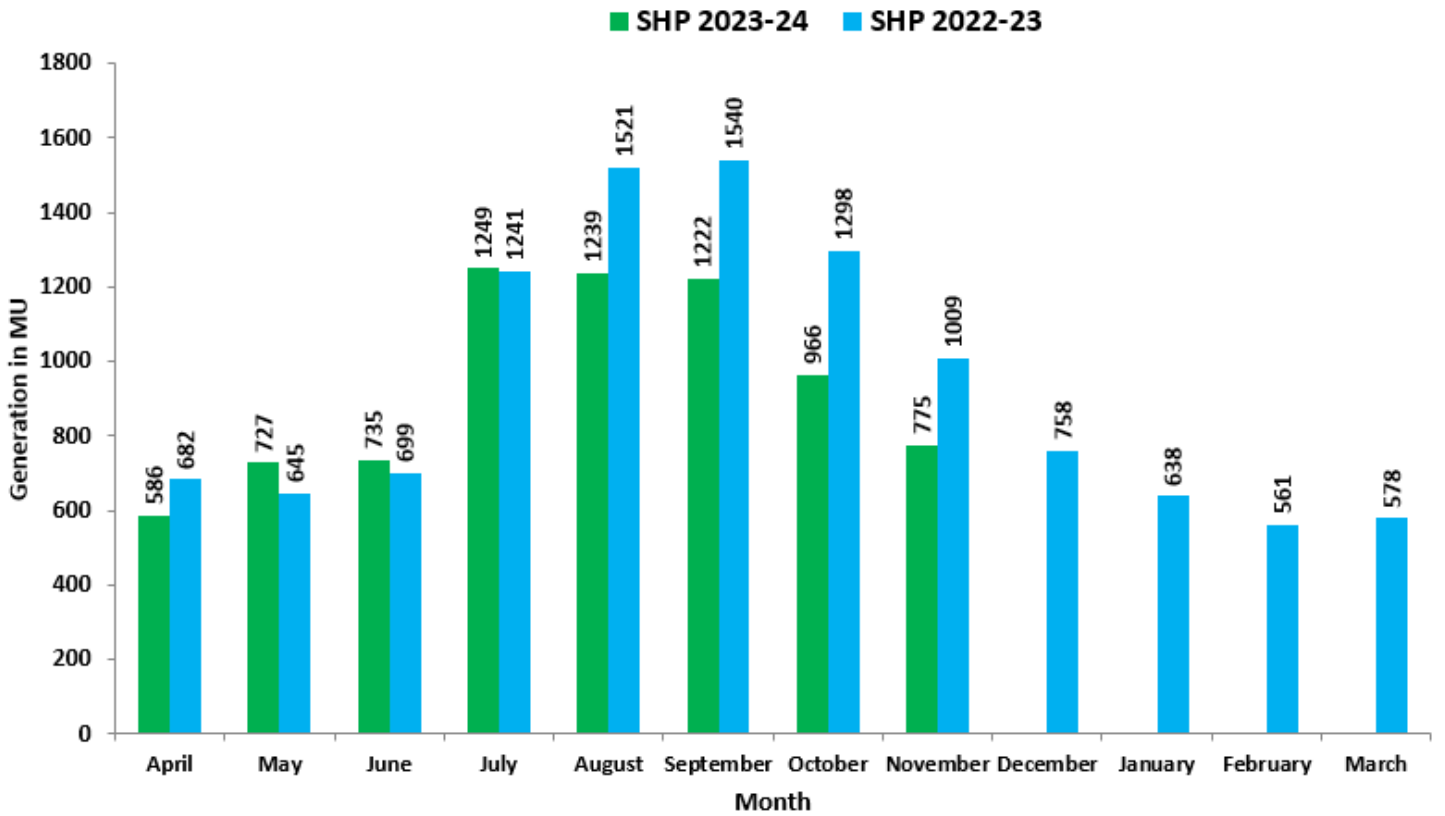


Figure 21: Month Wise Small Hydro Power Generation for the year 2022-23 and year 2023-24.

Large Hydro Power Generation MU

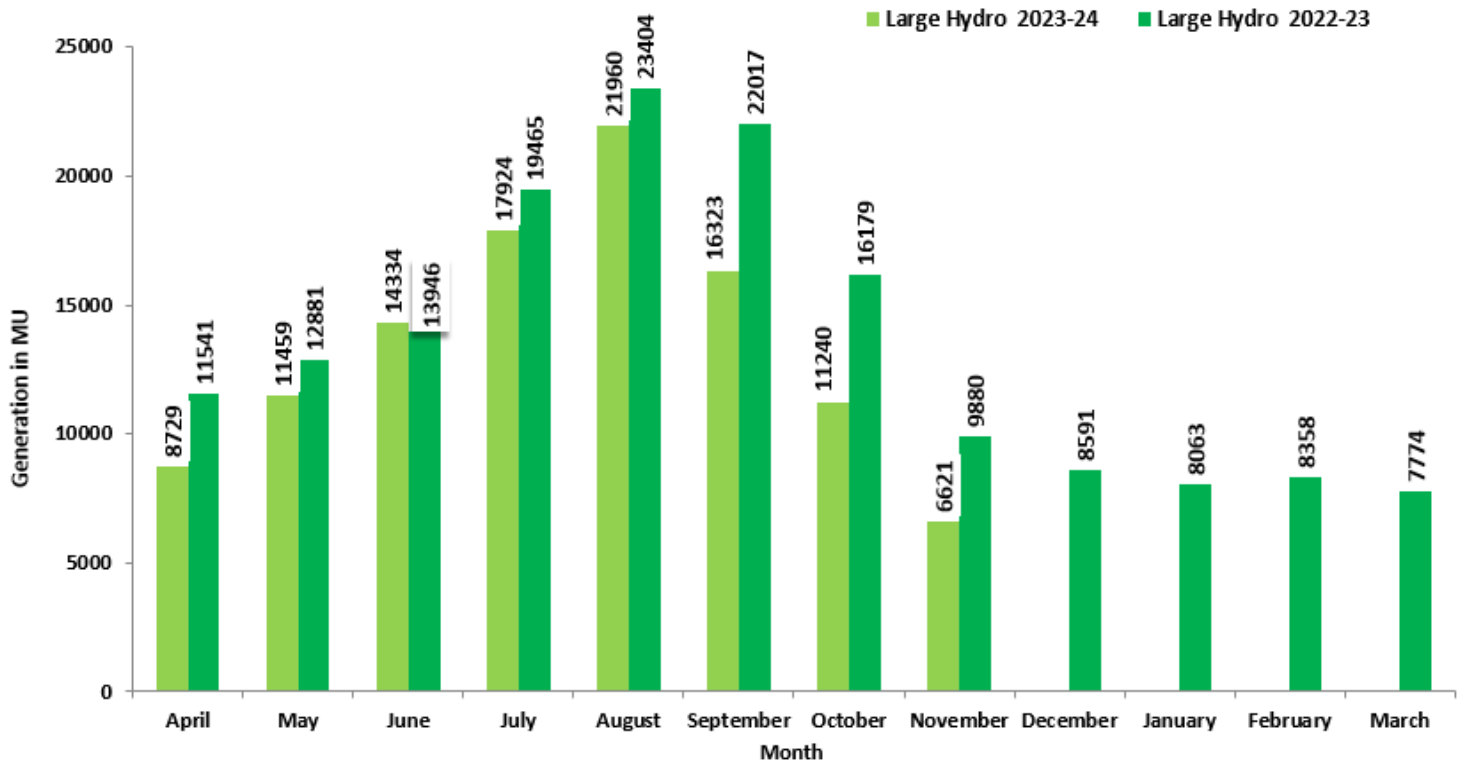


Figure 22: Month Wise Large Hydro Power Generation for the year 2022-23 and year 2023-24.

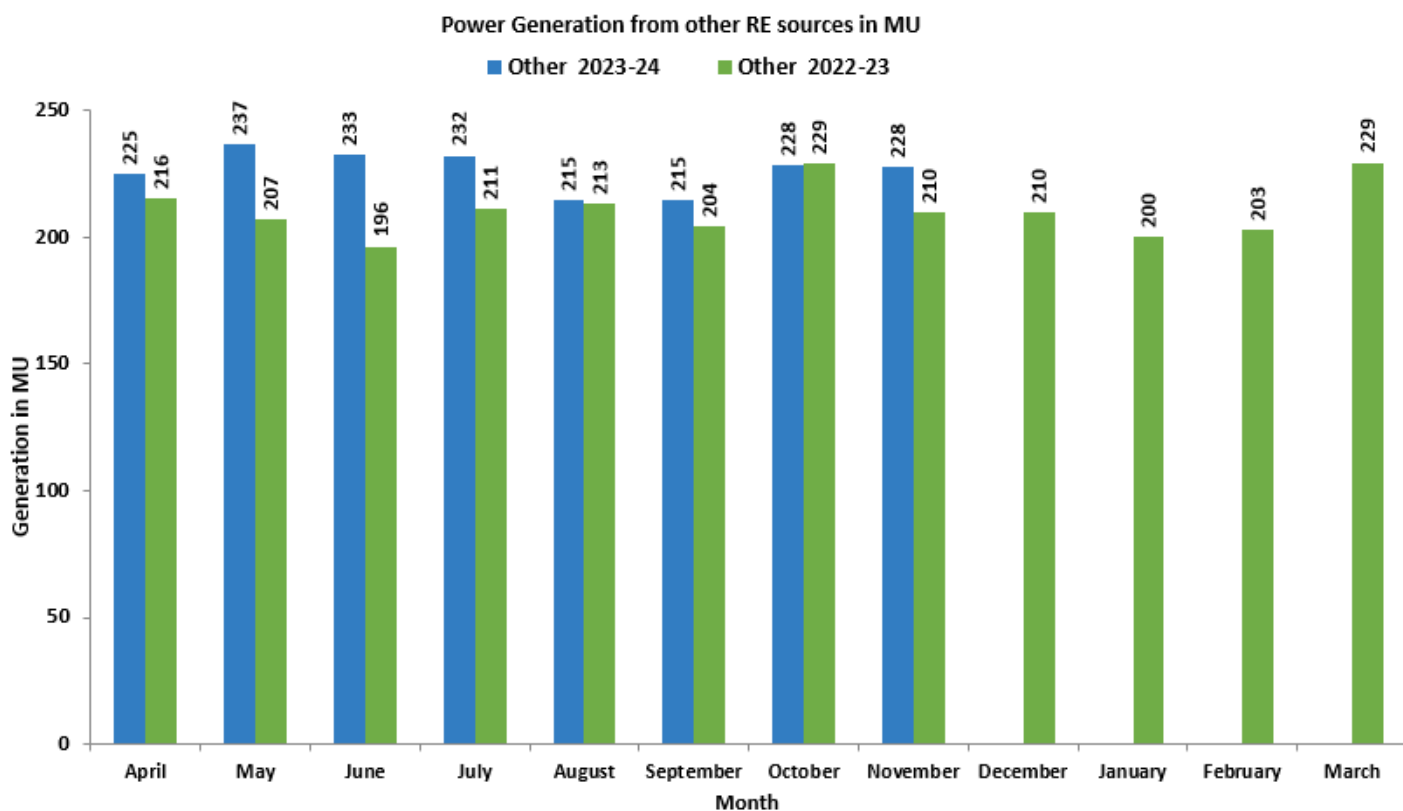


Figure 23: Month Wise Other RE (Waste Heat etc.) Power for the year 2022-23 and year 2023-24.

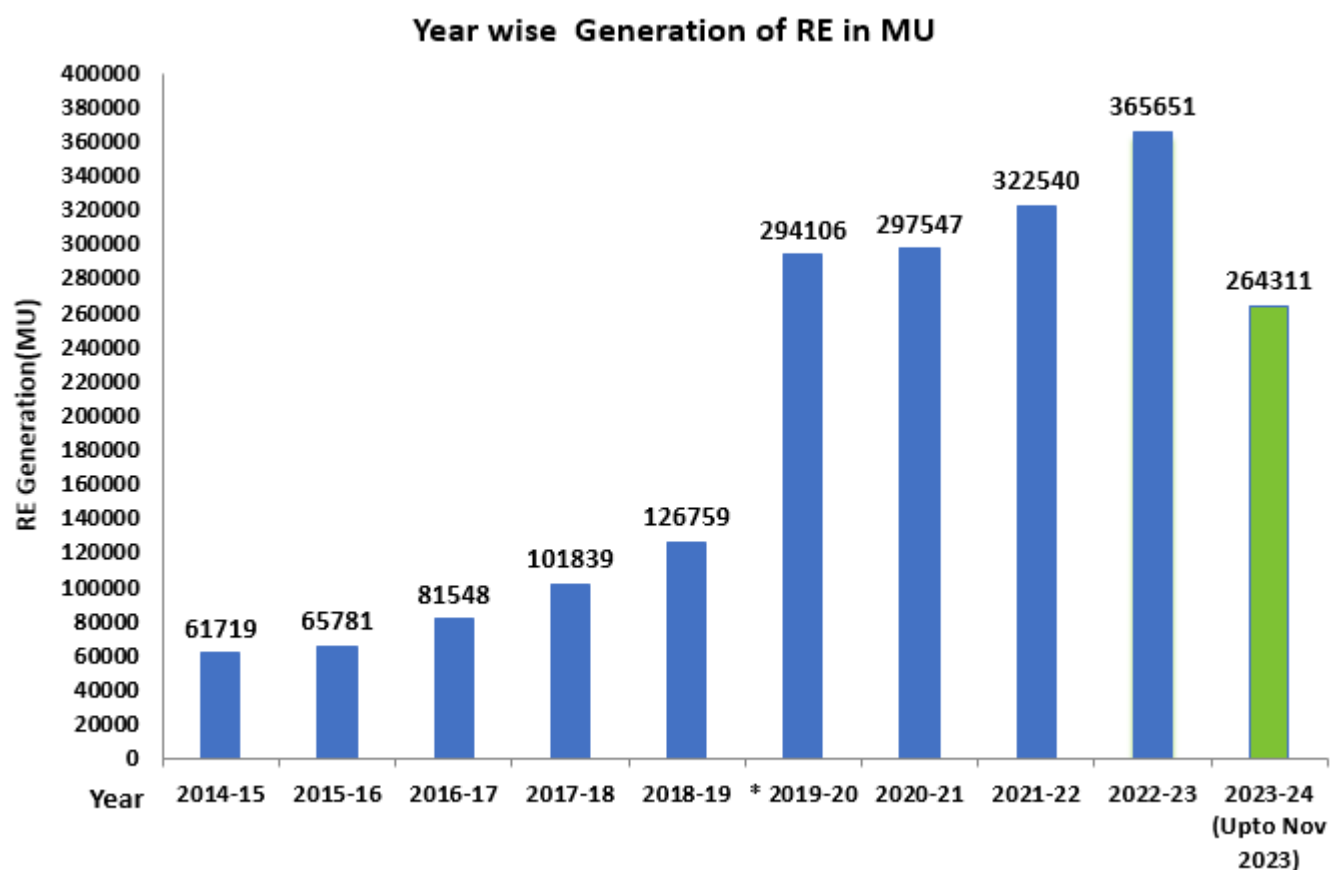


Figure 24: Year Wise RE Generation

(*) Note:- As per Ministry of Power's Order dated 8th March, 2019 large hydro power project (above 25MW) are also being considered as Renewable Energy Source.

All India Wind & Solar Power Daily Generation Report (November,2023)

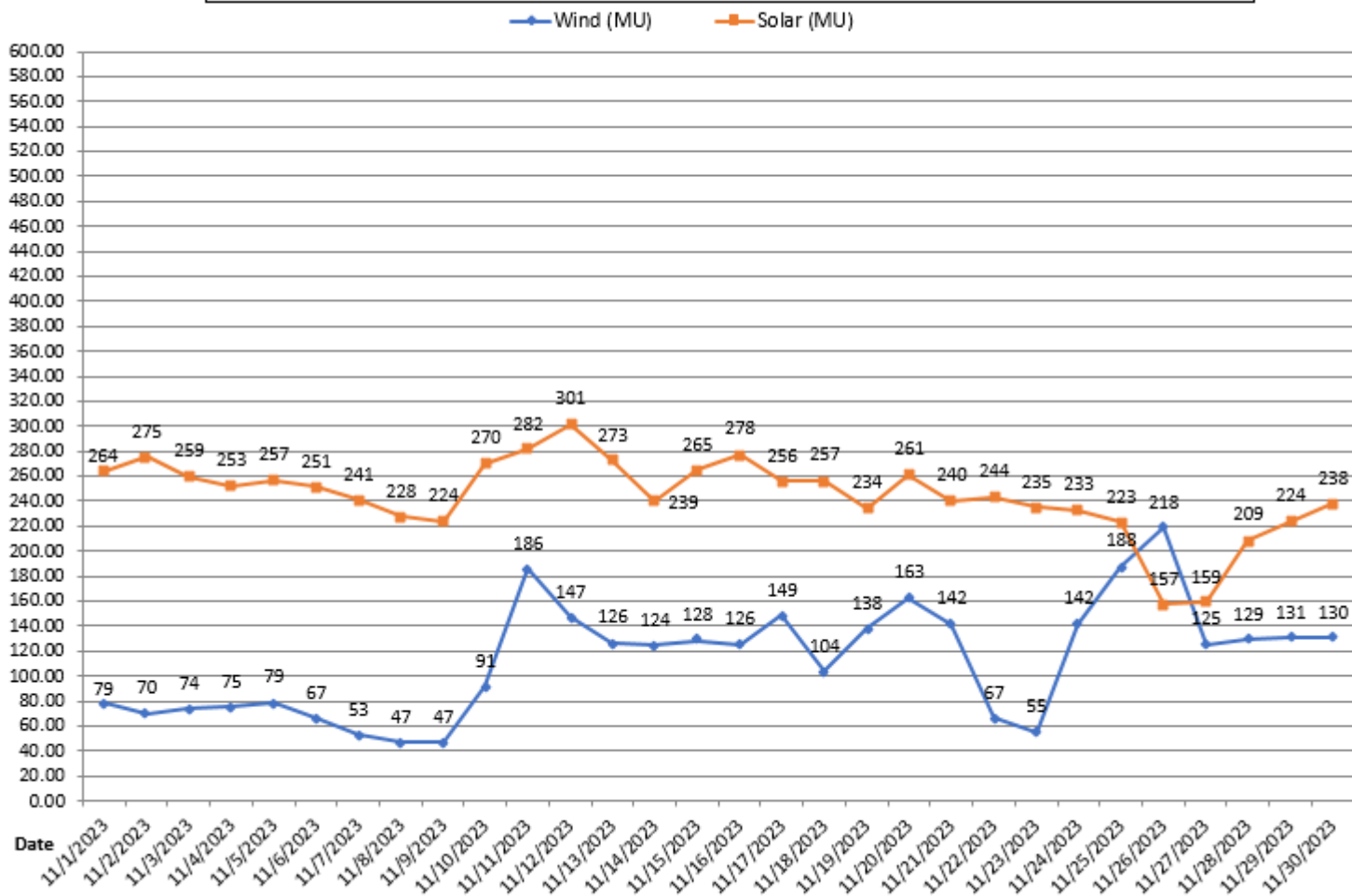


Figure 25: Daily solar and wind power generation trend in the month of November -2023

Summary of All India Total Renewable Energy Generation

Table 1 All India Summary of Renewable Energy Generation

Category	Installed Capacity (MW) (as on 30.11.2023)	Monitored Capacity (MW) (as on 30.11.2023) for which generation data is available	RE Generation(MU) November'2023	RE Generation(MU) November'2022	% of same Month Last Year	RE Generation (MU) April'2023- November'20 23	RE Generation (MU) April'2022- November' 2022	% of same period Last Year
पवन/Wind	44563.68	44500.00	3544.27	2489.50	142.37	64711.59	55536.21	116.52
सौर/Solar	72311.72	60549.3(*)	7820.94	7976.88	98.05	75725.07	64716.98	117.01
बायोमास/Biomass	10261.81	9549.39	278.62	190.21	146.49	2228.16	1926.11	115.68
बगास/Bagasse			1439.55	1517.64	94.85	3744.56	4956.75	75.54
लघु जल विद्युत्/Small Hydro	4986.75	3932.17	774.58	1009.28	76.75	7498.95	8634.29	86.85
बृहत् जल विद्युत्/ Large Hydro(\$)	46880.17	46880.17	6621.29	9880.40	67.01	108590.67	129312.84	83.98
अन्य/Others	574.56	697.64	227.79	209.91	108.52	1811.99	1686.94	107.41
कुल/Total	179578.69	166108.05	20707.04	23273.81	88.97	264310.99	266770.13	99.08

(*) Solar Installed capacity including 3.2 GW rooftop solar.

(\$) Large Hydro Generation data excludes import from Bhutan. However, the import from Bhutan during November 2023 and April 23 -November 23 are 16 MUs and 4660 MU respectively.

Table 2: Renewable Energy Generation (Wind and Solar) by ISGS Stations for the Month of November 2023.

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Unchahar Solar	Uttar Pradesh	Central	Solar	0.82
Dadri Solar	Uttar Pradesh	Central	Solar	0.43
Singrauli Solar	Uttar Pradesh	Central	Solar	1.38
Auraiya	Uttar Pradesh	Central	Solar	3.90
Kolayat	Rajasthan	Central	Solar	64.01
Nokhra	Rajasthan	Central	Solar	45.07
Devikot	Rajasthan	Central	Solar	39.13
ABC Renewable Energy	Rajasthan	Private	Solar	48.60
Acme Chittorgarh Energy Pvt Ltd.	Rajasthan	Private	Solar	38.78
Acme Heergharh Powertech Pvt Ltd	Rajasthan	Private	Solar	45.27
Adani Hybrid Energy Jaisalmer Four Limited	Rajasthan	Private	Solar	97.78
Adani Hybrid Energy Jaisalmer One Limited	Rajasthan	Private	Solar	59.82
Adani Hybrid Energy Jaisalmer Three Limited	Rajasthan	Private	Solar	46.13
Adani Hybrid Energy Jaisalmer Two Limited	Rajasthan	Private	Solar	50.79
Adani Renewable Energy RJ Limited (RERJL)	Rajasthan	Private	Solar	30.47
Adani Jaisalmer One SEPL Solar	Rajasthan	Private	Solar	70.29
Adani SB Energy Four Pvt. Ltd.(SE4PL(Kilaj Solar))	Rajasthan	Private	Solar	7.51
M/S Adani Solar Energy Four PVT. LTD.L(Adani SEJ5PL)	Rajasthan	Private	Solar	29.63
Adani SB Energy Four Pvt. Ltd. (SERJ1PL)	Rajasthan	Private	Solar	47.10
Avaada Sunrays Energy Private Limited	Rajasthan	Private	Solar	52.19
Avaada RJHN Private Limited	Rajasthan	Private	Solar	31.53
Avaada Sunce Energy Private Limited	Rajasthan	Private	Solar	45.72
Avaada Sustainable RJ Project Private Ltd.	Rajasthan	Private	Solar	40.81

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Ayana Renewable Power One Private Limited	Rajasthan	Private	Solar	44.23
Azure Power Forty One Private Limited	Rajasthan	Private	Solar	43.62
Azure Power Forty Three Private Ltd	Rajasthan	Private	Solar	87.74
Azure Power India Pvt Ltd	Rajasthan	Private	Solar	25.07
Azure Power Maple Pvt Ltd	Rajasthan	Private	Solar	33.31
Azure Power Thirty Four Private Ltd	Rajasthan	Private	Solar	19.52
Clean Solar Power (Jodhpur) Pvt Ltd	Rajasthan	Private	Solar	39.11
Clean Solar Power (Bhadla) Pvt Ltd	Rajasthan	Private	Solar	48.29
Eden Renewable Cite Private Limited	Rajasthan	Private	Solar	51.21
M/S Adani Solar Energy Jodhpur Two Ltd	Rajasthan	Private	Solar	7.66
Mahindra Renewable Private Limited	Rajasthan	Private	Solar	38.75
Mega Surya Urja Pvt. Ltd	Rajasthan	Private	Solar	35.79
Nindan Solar Fatehgar	Rajasthan	Private	Solar	47.32
Renew Solar Energy (Jharkhand Three) Pvt Ltd	Rajasthan	Private	Solar	47.38
Renew Solar Power Pvt Ltd	Rajasthan	Private	Solar	7.76
Renew Solar Power Pvt Ltd. Bikaner	Rajasthan	Private	Solar	34.68
Renew Solar Urja Pvt Ltd	Rajasthan	Private	Solar	46.63
Renew Sun Bright Pvt Ltd	Rajasthan	Private	Solar	47.11
Renew Sun Waves Private Limited	Rajasthan	Private	Solar	47.88
Renew Surya Ravi Pvt Ltd	Rajasthan	Private	Solar	39.39
SBSR Power Cleantech Eleven Private Limited	Rajasthan	Private	Solar	24.94
Tata Power Green Energy Limited	Rajasthan	Private	Solar	29.34
Tata Power Renewable Energy Ltd	Rajasthan	Private	Solar	45.60
Tata Power Saurya 1	Rajasthan	Private	Solar	13.99
Thar Surya1 Private Limited	Rajasthan	Private	Solar	43.30
Adani Hybrid Energy Jaisalmer Four Limited	Rajasthan	Private	Wind	76.64

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Adani Hybrid Energy Jaisalmer One Limited	Rajasthan	Private	Wind	14.77
Adani Hybrid Energy Jaisalmer Three Limited	Rajasthan	Private	Wind	11.48
Adani Hybrid Energy Jaisalmer Two Limited	Rajasthan	Private	Wind	11.36
Adani Jaisalmer One SEPL Wind	Rajasthan	Private	Wind	15.20
Northern Region				1976.23
Arinsun Solar (Barsaitadesh)	Madhya Pradesh	Private	Solar	34.95
Mahindra Solar (Badwar)	Madhya Pradesh	Private	Solar	32.84
Masaya BWSPRA_KNDW	Madhya Pradesh	Private	Solar	31.68
Sherisha Raipur	Chhattisgarh	Private	Solar	6.75
Solapur Solar	Maharashtra	Central	Solar	1.06
Electro Solaire Private Limited (ESPL RSP Solar)	Gujarat	Private	Solar	30.99
Tata Power Renewable Energy Limited (TPREL RSP Solar)	Gujarat	Private	Solar	16.10
Gujarat Industries Power Company Limited (GIPCL RSP Solar)	Gujarat	Private	Solar	16.50
Powerica Wind	Gujarat	Private	Solar	8.23
NTPC Kawas	Gujarat	Central	Solar	5.00
Gujarat State Electricity Corporation Limited (GSECL)	Gujarat	Private	Solar	20.19
Gandhar_Solar	Gujarat	Private	Solar	2.63
GSECL RSP	Gujarat	Private	Solar	8.12
RPL_SECI-II	Gujarat	Private	Solar	35.31
AWEK1L WIND (RATADIYA)	Gujarat	Private	Wind	57.52
Adani Wind Energy Kutchh Four Limited (AWEK4L)	Gujarat	Private	Wind	34.89
Adani Wind Energy MP One Private Limited (AWEMP1PL)	Gujarat	Private	Wind	43.57
Alfnar Wind (Nanavalka)	Gujarat	Private	Wind	28.72
Green Infra Wind Energy Limited SECI-II (Giwel-II Wind (Vadva))	Gujarat	Private	Wind	32.75
Green Infra Wind Energy Limited SECI-III (Giwel-III Wind (Naranpar))	Gujarat	Private	Wind	32.61
Athena_RUM	Gujarat	Private	Wind	26.05
GSECL_PH2	Gujarat	Private	Wind	8.15

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Ostro Kutch Wind Private Limited (OKWPL)	Gujarat	Private	Wind	45.36
Renew Wind Energy (AP2) Private Limited (Ghadsisa)	Gujarat	Private	Wind	51.92
Avikiran Solar India Private Limited (ASIPL), Baranda	Gujarat	Private	Wind	28.92
Apraava Khkrda Jam	Gujarat	Private	Wind	29.47
IGESL Dayapar	Gujarat	Private	Wind	20.19
Netra Kotda	Gujarat	Private	Wind	17.30
Torrent Sidpur Jam	Gujarat	Private	Wind	25.90
SITAC	Gujarat	Private	Wind	0.00
SRIJAN	Gujarat	Private	Wind	0.00
Western Region				733.66
TUTICORIN				
Beetam(Tuticorin)	Tamil Nadu	Private	Wind	29.39
GRTJIPL	Tamil Nadu	Private	Solar	21.76
Mytra	Tamil Nadu	Private	Wind	25.71
Orange	Tamil Nadu	Private	Wind	24.35
Green Infra	Tamil Nadu	Private	Wind	32.79
Hiriyur Ostro	Tamil Nadu	Private	Wind	59.38
Sprng Renewable Energy Pvt Ltd(Pugalur)	Tamil Nadu	Private	Wind	23.58
JSW Renew Energy Two Limited (Tuticorin)	Tamil Nadu	Private	Wind	41.29
Ettayapuram	Tamil Nadu	Central	Solar	29.40
Roshini Renew, Koppal	Tamil Nadu	Private	Wind	7.38
Southern Region				295.03
All India Total				3004.92

Source: - 1.Generation from ISGS projects is prepared from block wise data received from RPCs.

2. Generation of ISGS generating stations is included in respective State in Renewable Energy Generation sheet according to physical location so their generation should not be considered additional generation

Table 3: Renewable Energy Generation (Excluding Large Hydro) by CPSU Owned stations

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) November'2023	RE Generation(MU) November '2022	RE Generation(MU) April 2023- November 2023	RE Generation(MU) April 2022- November 2022
NTPC							
Faridabad_Solar	Haryana	5.00	Solar	0.32	0.47	4.30	4.22
Bhadla	Rajasthan	260.00	Solar	26.93	33.83	283.50	287.81
Jetsar	Rajasthan	160.00	Solar	16.75	22.89	243.10	237.65
Fatehgarh	Rajasthan	296.00	Solar	47.70	58.06	503.40	443.77
Devikot	Rajasthan	240.00	Solar	39.13	0.00	377.90	0.00
Nokhra	Rajasthan	300.00	Solar	45.07	0.00	459.60	0.00
Dadri_Solar	Uttar Pradesh	5.00	Solar	0.43	0.46	4.10	4.12
Unchahar_Solar	Uttar Pradesh	10.00	Solar	0.82	1.11	9.20	9.36
Singrauli_Solar	Uttar Pradesh	15.00	Solar	1.38	1.62	13.70	13.46
Auraiya	Uttar Pradesh	40.00	Solar	3.90	4.58	47.70	31.27
Small Hydro Vindhyachal	Uttar Pradesh	8.00	Small Hydro	2.30	2.30	26.20	20.21
Rojmal	Gujarat	50.00	Wind	4.52	4.76	71.30	74.42
Dayapar	Gujarat	50.00	Wind	0.77	0.00	0.77	0.00
Rajgarh_Solar	Madhya Pradesh	50.00	Solar	5.11	6.27	45.10	48.21
Mandsaur	Madhya Pradesh	250.00	Solar	27.46	32.10	239.11	248.91
Solapur	Maharashtra	10.00	Solar	1.06	0.00	11.60	0.00
Anantapuram	Andhra Pradesh	250.00	Solar	29.88	25.53	252.20	239.68
Ramagundam	Telangana	110.00	Solar	14.54	15.94	137.30	106.00
Andaman & Nicobar	Andaman & Nicobar	5.00	Solar	0.64	0.42	3.70	3.37
Talchar_Solar	Odisha	10.00	Solar	1.02	1.15	8.20	8.66
Solar_Bilhaur	Uttar Pradesh	225.00	Solar	27.63	34.95	308.00	329.94
Simhadri Floating Project	Andhra Pradesh	25.00	Solar	0.57	3.25	32.50	30.85

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) November'2023	RE Generation(MU) November '2022	RE Generation(MU) April 2023- November 2023	RE Generation(MU) April 2022- November 2022
Kayamkulam	Kerala	92.00	Solar	15.72	15.64	139.40	97.12
Kawas	Gujarat	56.00	Solar	5.00	7.86	58.10	37.49
Gandhar	Gujarat	20.00	Solar	2.82	1.58	20.00	3.95
Shambu ki Burj-I	Rajasthan	250.00	Solar	39.14	45.22	410.20	178.45
Shambu ki Burj-II	Rajasthan	150.00	Solar	24.95	22.92	259.00	43.59
Ettayapuram	Tamil Nadu	230.00	Solar	29.40	0.00	321.10	0.00
Total NTPC		3172.00		414.96	342.91	4290.28	2502.51
THDC							
Patan Wind Power Project	Gujarat	50.00	Wind	3.98	1.99	54.14	56
Devbhumi Dwarka Wind Power Project	Gujarat	63.00	Wind	9.47	5.86	93.39	96.26
Solar Kasaragod	Kerala	50.00	Solar	7.84	7.94	60.82	56.63
Rishikesh office Premises	Uttar Pradesh	0.50	Solar	0.04	0.04	0.34	0.35
Dhukwan SHEP Jhansi,UP	Uttar Pradesh	24.00	Small Hydro	4.38	3.52	46.17	52.57
Total THDC		187.50		25.71	19.35	254.86	261.81
NHPC							
Wind Power Project	Rajasthan	50.00	Wind	3.33	2.93	41.91	58.70
Solar Power Project	Tamilnadu	50.00	Solar	6.24	5.78	47.33	59.25
Total NHPC		100.00		9.57	8.71	89.24	117.96
ONGC							
Bhuj	Gujarat	51.00	Wind	1.07	0.00	12.95	56.85
Jaisalmer	Rajasthan	102.00	Wind	4.07	4.56	79.86	104.93
Assam	Assam	1.66	Roof Top	0.00	0.03	0.15	0.75
Assam	Assam	1.09	Ground Mounted	0.00	0.00	1.59	0.84
Tripura	Tripura	0.25	Roof Top	0.00	0.00	0.72	3.02

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) November'2023	RE Generation(MU) November '2022	RE Generation(MU) April 2023- November 2023	RE Generation(MU) April 2022- November 2022
Rajahmundry,Base Complex	Andhra Pradesh	1.00	Ground Mounted	0.00	0.47	0.84	4.49
Tati Paka, Rajahmundry	Andhra Pradesh	5.00	Ground Mounted	0.44	0.00	2.86	4.01
Cauvery	Tamil Nadu	0.46	Ground Mounted	0.00	0.00	0.13	0.98
Vagara, Ankleshwar	Gujarat	5.00	Ground Mounted	0.68	0.00	4.21	5.05
Gujarat	Gujarat	4.23	Roof Top	0.00	0.00	0.48	0.00
Jodhpur	Rajasthan	0.16	Ground Mounted	0.00	0.00	0.15	0.00
Jaisalmer	Rajasthan	0.16	Ground Mounted	0.00	0.00	0.15	0.89
Uttarakhand	Uttarakhand	1.24	Roof Top	0.00	0.00	0.02	0.16
Goa	Goa	1.00	Ground Mounted	0.02	0.09	0.21	0.66
Hazira	Gujarat	10.00	Ground Mounted	0.00	0.00	0.01	0.05
Hazira	Gujarat	5.00	Ground Mounted	0.00	0.00	0.04	8.08
Mumbai (Uran & NBP Green Heights)	Maharashtra	0.29	Roof Top	0.00	0.00	0.01	0.18
DDU, Bhawan, Delhi	Delhi	0.30	Roof Top	0.00	0.00	0.03	0.00
ONGC Colony Noida	Uttar Pradesh	0.06	Roof Top	0.00	0.00	0.00	0.00
EOA Logistics Park, Kakinada	Andhra Pradesh	1.00	Roof Top	0.00	0.00	0.00	0.00
Cambay	Gujarat	2.00	Ground Mounted SPP	0.22	0.00	0.22	0.00
Total ONGC		192.89		6.50	5.15	104.65	190.93
SJVN Limited							

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) November'2023	RE Generation(MU) November '2022	RE Generation(MU) April 2023- November 2023	RE Generation(MU) April 2022- November 2022
Khirvire Wind Power	Maharashtra	47.60	Wind	0.83	1.67	43.92	46.61
Sadla Wind Power	Gujarat	50.00	Wind	5.04	2.14	78.30	67.75
Charanka Solar Power	Gujarat	5.60	Solar	0.64	0.76	5.53	5.38
Wadhal Solar Power Project	Gujarat	1.00	Solar	0.09	0.09	0.73	0.97
Parasan Solar Power	Gujarat	75.00	Solar	9.74	4.02	105.76	4.02
Total SJVN		179.20		16.34	8.69	234.23	124.73
Oil India Ltd							
Oil India Ltd	Rajasthan	14.00	Solar	1.62	1.88	16.30	16.41
Oil India Ltd	Rajasthan	67.60	Wind	2.02	3.14	44.31	62.37
Oil India Ltd	Gujarat	43.30	Wind	5.61	5.24	78.53	66.47
Oil India Ltd	Madhya Pradesh	63.20	Wind	4.38	2.68	74.50	73.59
Total Oil India Ltd		188.10		13.64	12.94	213.63	218.85
NEEPCO							
NEEPCO	Tripura	5.00	Solar	0.05	0.64	2.27	3.75
NEEPCO	Assam	25.00	Small Hydro	14.96	0.00	87.31	0.00
NEEPCO Total		30.00		15.01	0.64	89.58	3.75
DVC							
DVC	West Bangal	0.08	Solar	0.01	0.01	0.04	0.05
DVC	Jharkhand	4.00	Small Hydro	0.10	0.00	0.10	0.00
Total DVC		4.08		0.10	0.01	0.14	0.05
All India Total		4053.77		501.83	398.40	5276.61	3420.58

Note: 1.Generation of CPSU owned RE generating stations is included in respective State in Renewable Energy Generation Sheet according to physical location so their generation should not be considered additional generation.

Table 4:- RE Deviation Data for ISGS

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of November 2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Northern Region					
ABC RENEWABLE ENERGY	Solar	50.49	48.60	-1.89	-3.74
Acme Heergharh Powertech Pvt Ltd	Solar	46.04	45.27	-0.77	-1.68
Acme Chittorgarh Energy Pvt Ltd.	Solar	38.10	38.78	0.68	1.77
Adani Hybrid Energy Jaisalmer One Limited	Solar	83.99	74.59	-9.40	-11.20
Adani Hybrid Energy Jaisalmer Four Limited	Solar	189.93	174.42	-15.52	-8.17
Adani Hybrid Energy Jaisalmer Three Limited	Solar	67.01	57.61	-9.39	-14.02
Adani Hybrid Energy Jaisalmer Two Limited	Solar	69.37	62.15	-7.22	-10.40
Adani Renewable Energy RJ Limited (RERJL)	Solar	32.51	30.47	-2.04	-6.26
Adani Jaisalmer One SEPL Solar	Solar	98.92	85.49	-13.42	-13.57
M/S Adani Solar Energy Jodhpur Two Ltd	Solar	8.80	7.66	-1.14	-12.93
Adani SB Energy Four Pvt. Ltd.(SE4PL(Kilaj Solar))	Solar	7.96	7.51	-0.46	-5.72
ADANI SEJ2PL M	Solar	26.52	20.42	-6.10	-23.01
ADANI SEJ2PL P	Solar	20.14	21.89	1.74	8.66
Adani SEJ5PL	Solar	31.52	29.63	-1.89	-5.99
Adani SERJ1PL	Solar	50.79	47.10	-3.69	-7.27
AURAIYA SOLAR	Solar	5.09	3.92	-1.17	-23.00
Avaada RJHN Private Limited	Solar	35.27	31.53	-3.74	-10.62
Avaada Sunce Energy Private Limited	Solar	52.00	45.72	-6.29	-12.09
Avaada Sunrays Energy Private Limited	Solar	53.44	52.19	-1.25	-2.34
Avaada Sustainable RJ Project Private Ltd.	Solar	45.44	40.81	-4.63	-10.19
Ayana Renewable Power One Private Limited	Solar	45.24	44.23	-1.01	-2.24

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of November 2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Azure Power Forty One Private Limited	Solar	46.19	43.62	-2.57	-5.57
Azure Power Forty Three Private Ltd	Solar	96.65	87.74	-8.91	-9.22
Azure Power Maple Pvt Ltd	Solar	35.92	33.31	-2.61	-7.26
Azure Power Thirty Four Private Ltd	Solar	20.22	19.52	-0.70	-3.46
Azure Power India Pvt Ltd	Solar	26.65	25.07	-1.58	-5.92
Clean Solar Power (Jodhpur) Pvt Ltd	Solar	40.52	39.11	-1.41	-3.48
Clean Solar Power (Bhadla) Pvt Ltd	Solar	50.69	48.29	-2.40	-4.73
DADRI SOLAR	Solar	0.48	0.36	-0.12	-25.86
DEVIKOT SOLAR	Solar	37.56	38.15	0.59	1.58
Eden Renewable Cite Private Limited	Solar	51.75	51.21	-0.54	-1.04
KOLYAT SOLAR BIKANER	Solar	64.47	64.01	-0.46	-0.71
Mahindra Renewable Private Limited	Solar	39.98	38.75	-1.23	-3.08
Mega Surya Urja Pvt. Ltd	Solar	36.46	35.79	-0.66	-1.82
Nindan Solar Fatehgar	Solar	47.48	47.32	-0.16	-0.34
Nokhra Solar	Solar	46.68	45.06	-1.62	-3.47
Renew Solar Energy (Jharkhand Three) Pvt Ltd	Solar	49.05	47.38	-1.67	-3.41
Renew Solar Power Pvt Ltd	Solar	7.91	7.76	-0.15	-1.84
Renew Solar Urja Pvt Ltd	Solar	47.58	46.63	-0.95	-1.99
Renew Sun Bright Pvt Ltd	Solar	46.57	47.11	0.54	1.16
Renew Sun Waves Private Limited	Solar	48.81	47.88	-0.93	-1.91
Renew Surya Ravi Pvt Ltd	Solar	43.81	39.39	-4.42	-10.10
Renew Solar Power Pvt Ltd. Bikaner	Solar	25.60	24.94	-0.67	-2.60
SBSR Power Cleantech Eleven Private Limited	Solar	36.31	34.68	-1.63	-4.50
SINGRAULI SOLAR	Solar	1.54	1.34	-0.20	-12.72
Tata Power Green Energy Limited	Solar	30.78	29.34	-1.44	-4.69
Tata Power Renewable Energy Ltd	Solar	47.12	45.60	-1.52	-3.23
Thar Surya1 Private Limited	Solar	47.04	43.30	-3.74	-7.95

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of November 2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Tata Power Saurya	Solar	14.72	13.99	-0.73	-4.94
Unchahar Solar	Solar	1.01	0.86	-0.15	-14.54
Total Northern Region		2148.14	2017.51		
Western Region					
Arinsun Solar (Barsaitadesh)	Solar	34.79	34.95	0.16	0.45
Mahindra Solar (Badwar)	Solar	34.64	32.84	-1.81	-5.21
Masaya BWSPRA_KNDW	Solar	32.64	31.68	-0.96	-2.95
Sherisha Raipur	Solar	7.23	6.75	-0.48	-6.64
Solapur Solar	Solar	1.13	0.94	-0.19	-16.85
Electro Solaire Private Limited (ESPL RSP Solar)	Solar	35.65	30.99	-4.67	-13.09
Tata Power Renewable Energy Limited (TPREL RSP Solar)	Solar	18.49	16.10	-2.39	-12.91
Gujarat Industries Power Company Limited (GIPCL RSP Solar)	Solar	18.76	16.50	-2.26	-12.04
Powerica Wind	Solar	9.72	8.23	-1.50	-15.42
NTPC Kawas	Solar	6.05	6.19	0.14	2.34
GSECL RSP	Solar	8.68	8.12	-0.56	-6.46
RPL_SECI-II	Solar	44.96	35.31	-9.65	-21.46
Gandhar_Solar	Solar	3.12	2.63	-0.49	-15.60
AWEK1L	Wind	60.77	57.52	-3.24	-5.33
Adani Wind Energy Kutchh Four Limited (AWEK4L)	Wind	37.49	34.89	-2.60	-6.94
Adani Wind Energy MP One Private Limited (AWEMP1PL)	Wind	57.28	43.57	-13.72	-23.95
Alfnar Wind (Nanavalka)	Wind	42.22	28.72	-13.51	-31.99
Green Infra Wind Energy Limited SECI-II (Giwel-II Wind (Vadva))	Wind	41.03	32.75	-8.28	-20.18
Green Infra Wind Energy Limited SECI-III (Giwel-III Wind (Naranpar))	Wind	43.60	32.61	-10.98	-25.20
GSECL_ph2_RSP_S	Wind	10.76	8.15	-2.61	-24.26
Ostro Kutch Wind Private Limited (OKWPL)	Wind	46.85	45.36	-1.49	-3.18

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of November 2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Renew Wind Energy (AP2) Private Limited (Ghadsisa)	Wind	60.20	51.92	-8.28	-13.75
Avikiran Solar India Private Limited (ASIPL), Baranda	Wind	33.72	28.92	-4.80	-14.24
Apraava Khkrda Jam	Wind	31.95	29.47	-2.48	-7.77
IGESL Dayapar	Wind	2.77	20.19	17.42	628.42
Netra Kotda	Wind	20.36	17.30	-3.06	-15.05
Torrent Sidpur Jam	Wind	28.38	25.90	-2.49	-8.76
Total Western Region		773.24	688.47		
Southern Region					
Beetam(Tuticorin)	Wind	29.39	21.20	-8.19	-27.86
GIREL	Wind	32.79	23.80	-8.99	-27.42
Mytra	Wind	25.70	14.58	-11.12	-43.26
Orange	Wind	24.35	16.23	-8.12	-33.33
Sprng Renewable Energy Pvt Ltd(Pugalur)	Wind	23.58	6.98	-16.59	-70.38
GRTJIPL	Wind	21.76	20.51	-1.24	-5.70
JSW Renew Energy Two Limited (Tuticorin)	Wind	41.29	36.83	-4.46	-10.80
Ostro Hiriyur	Wind	59.38	50.85	-8.53	-14.36
NTPC-Ettayapuram,(Solar PV), Tuticorin	Solar	35.12	32.42	-2.70	-7.69
Total Southern Region		293.35	223.42		

Source:- Deviation data for ISGS Projects is prepared from block wise data received from RPCs

Table 5:-Fossil and Non-Fossil Generation for the Month of November 2023

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Month of November 2023								
State/UT	Fossil =((1)+(2))		Non Fossil =((3)+(4)+(5))			Total Non-Fossil (6)=((3)+((4)+(5)))	Grand Total (7)=((1)+(2)+(3)+(4)+(5))	Non Fossil as % of Total Generation
	Thermal (1)	Gas (2)	Nuclear (3)	Large Hydro (4)	Renewable (Excluding Large Hydro) (5)			
NORTHERN REGION								
Chandigarh	0.00	0.00	0.00	0.00	0.63	0.63	0.63	100.00
Delhi	0.00	233.74	0.00	0.00	63.64	63.64	297.38	21.40
Haryana	1886.24	0.00	0.00	0.00	146.51	146.51	2032.75	7.21
HP	0.00	0.00	0.00	1638.73	154.08	1792.81	1792.81	100.00
J & K	0.00	0.00	0.00	589.14	20.69	609.83	609.83	100.00
Ladakh	0.00	0.00	0.00	22.07	0.00	22.07	22.07	100.00
Punjab	2265.95	0.00	0.00	278.41	159.88	438.29	2704.24	16.21
Rajasthan	4636.63	61.33	582.97	142.15	2799.73	3524.85	8222.81	42.87
Uttar Pradesh	11242.80	38.93	30.57	32.42	656.16	719.15	12000.88	5.99
Uttarakhand	0.00	0.00	0.00	801.78	77.81	879.59	879.59	100.00
Northern Region Total	20031.62	334.00	613.54	3504.70	4079.13	8197.37	28562.99	28.70
WESTERN REGION								
Chhattisgarh	12625.07	0.00	0.00	10.37	179.09	189.46	12814.53	1.48
Gujarat	6086.62	155.66	800.32	256.76	2314.30	3371.38	9613.66	35.07
Madhya Pradesh	12826.20	0.00	0.00	446.18	528.70	974.88	13801.08	7.06
Maharashtra	10448.05	243.15	779.31	250.44	1349.83	2379.58	13070.78	18.21
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	2.34	2.34	2.34	100.00
Goa	0.00	0.00	0.00	0.00	5.44	5.44	5.44	100.00
Western Region Total	41985.94	398.81	1579.63	963.75	4379.70	6923.08	49307.83	14.04
SOUTHERN REGION								
Andhra Pradesh	5310.33	0.00	0.00	117.36	968.17	1085.53	6395.86	16.97

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Month of November 2023

State/UT	Fossil =((1)+(2))		Non Fossil =((3)+(4)+(5))			Total Non-Fossil (6)=((3)+((4)+(5)))	Grand Total (7)=((1)+(2)+(3)+(4)+(5))	Non Fossil as % of Total Generation
	Thermal (1)	Gas (2)	Nuclear (3)	Large Hydro (4)	Renewable (Excluding Large Hydro) (5)			
Telangana	4333.63	0.00	0.00	55.77	521.92	577.69	4911.32	11.76
Karnataka	3436.22	0.00	605.89	398.45	2346.85	3351.19	6787.41	49.37
Kerala	0.00	0.00	0.00	312.54	181.83	494.37	494.37	100.00
Tamil Nadu	5675.12	97.96	1625.43	220.01	1262.07	3107.51	8880.59	34.99
Lakshadweep	5.10	0.00	0.00	0.00	0.01	0.01	5.11	0.15
Puducherry	0.00	11.70	0.00	0.00	1.02	1.02	12.72	8.02
Southern Region Total	18760.40	109.66	2231.32	1104.13	5281.87	8617.32	27487.38	31.35
EASTERN REGION								
Andaman Nicobar	27.92	0.00	0.00	0.00	3.46	3.46	31.38	11.03
Bihar	4632.45	0.00	0.00	0.00	26.34	26.34	4658.79	0.57
Jharkhand	2778.48	0.00	0.00	13.67	1.47	15.14	2793.62	0.54
Odisha	5947.28	0.00	0.00	380.37	97.11	477.48	6424.76	7.43
Sikkim	0.00	0.00	0.00	110.27	1.03	111.30	111.30	100.00
West Bengal	7459.47	0.00	0.00	142.72	160.17	302.89	7762.36	3.90
Eastern Region Total	20845.60	0.00	0.00	647.03	289.57	936.60	21782.20	4.30
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	242.85	0.24	243.09	243.09	100.00
Assam	395.62	275.43	0.00	68.50	33.84	102.34	773.39	13.23
Manipur	0.00	0.00	0.00	32.01	0.61	32.62	32.62	100.00
Meghalaya	0.00	0.00	0.00	44.21	7.03	51.24	51.24	100.00
Mizoram	0.00	0.00	0.00	7.64	8.26	15.90	15.90	100.00
Nagaland	0.00	0.00	0.00	6.47	5.45	11.92	11.92	100.00
Tripura	0.00	529.89	0.00	0.00	0.05	0.05	529.94	0.01
North Eastern Region Total	395.62	805.32	0.00	401.68	55.48	457.16	1658.10	27.57
All India Total	102019.18	1647.79	4424.49	6621.29	14085.75	25131.53	128798.50	19.51

Table 6:-Fossil and Non-Fossil Generation for the period of April-November 2023

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Period of April-November 2023								
State/UT	Fossil		Non Fossil			Total Non Fossil (6)=((3)+(4)+(5))	Grand Total (7)=((1)+(2)+(3) + (4)+(5)	Non Fossil as % of Total Generation
	Thermal (1)	Gas (2)	Nuclear (3)	Large Hydro (4)	Renewable (Excluding Large Hydro) (5)			
NORTHERN REGION								
Chandigarh	0.00	0.00	0.00	0.00	9.36	9.36	9.36	100.00
Delhi	0.00	2629.01	0.00	0.00	473.31	473.31	3102.32	15.26
Haryana	19183.00	137.28	0.00	0.00	1055.27	1055.27	20375.55	5.18
HP	0.00	0.00	0.00	30838.14	2262.74	33100.88	33100.88	100.00
J & K	0.00	0.00	0.00	13488.70	331.02	13819.72	13819.72	100.00
Ladakh	0.00	0.00	0.00	329.39	0.00	329.39	329.39	100.00
Punjab	21982.12	0.00	0.00	3492.94	3243.95	6736.89	28719.01	23.46
Rajasthan	39068.39	964.58	4606.01	505.22	31990.40	37101.63	77134.60	48.10
Uttar Pradesh	103883.59	1505.45	2051.69	639.41	3888.88	6579.98	111969.02	5.88
Uttarakhand	0.00	294.81	0.00	11119.31	622.48	11741.79	12036.60	97.55
Northern Region Total	184117.10	5531.13	6657.70	60413.11	43877.41	110948.22	300596.45	36.91
WESTERN REGION								
Chhattisgarh	106723.25	0.00	0.00	254.21	1579.98	1834.19	108557.44	1.69
Gujarat	49521.40	5915.80	4722.84	3464.04	26337.04	34523.92	89961.12	38.38
Madhya Pradesh	97275.51	0.00	0.00	4951.21	6436.69	11387.90	108663.41	10.48
Maharashtra	87090.48	2406.41	5755.52	4060.56	12092.52	21908.60	111405.49	19.67
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	18.49	18.49	18.49	100.00
Goa	0.00	0.00	0.00	0.00	46.20	46.20	46.20	100.00
Western Region Total	340610.64	8322.21	10478.36	12730.02	46510.91	69719.29	418652.14	16.65
SOUTHERN REGION								
Andhra Pradesh	47555.26	0.00	0.00	986.36	12572.86	13559.22	61114.48	22.19
Telangana	36304.00	0.00	0.00	977.03	4829.65	5806.68	42110.68	13.79
Karnataka	28358.89	0.00	4888.09	6830.81	20811.82	32530.72	60889.61	53.43
Kerala	0.00	0.00	0.00	3538.26	1550.55	5088.81	5088.81	100.00

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Period of April-November 2023								
State/UT	Fossil		Non Fossil			Total Non Fossil (6)=((3)+(4)+(5))	Grand Total (7)=((1)+(2)+(3) + (4)+(5))	Non Fossil as % of Total Generation
	Thermal (1)	Gas (2)	Nuclear (3)	Large Hydro (4)	Renewable (Excluding Large Hydro) (5)			
Tamil Nadu	47674.21	1272.26	9962.40	2555.29	22714.16	35231.85	84178.32	41.85
Lakshadweep	42.39	0.00	0.00	0.00	0.06	0.06	42.45	0.14
Puducherry	0.00	156.63	0.00	0.00	8.16	8.16	164.79	4.95
Southern Region Total	159934.75	1428.89	14850.49	14887.75	62487.27	92225.51	253589.15	36.37
EASTERN REGION								
Andaman Nicobar	223.19	0.00	0.00	0.00	23.62	23.62	246.81	9.57
Bihar	39123.99	0.00	0.00	0.00	178.70	178.70	39302.69	0.45
Jharkhand	23351.13	0.00	0.00	159.23	11.76	170.99	23522.12	0.73
Odisha	42864.83	0.00	0.00	4627.51	883.68	5511.19	48376.02	11.39
Sikkim	0.00	0.00	0.00	8421.61	8.24	8429.85	8429.85	100.00
West Bengal	59570.52	0.00	0.00	2191.31	1283.69	3475.00	63045.52	5.51
Eastern Region Total	165133.66	0.00	0.00	15399.66	2389.69	17789.35	182923.01	9.73
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	3570.13	1.96	3572.09	3572.09	100.00
Assam	3509.89	2283.08	0.00	477.73	263.46	741.19	6534.16	11.34
Manipur	0.00	0.00	0.00	215.56	6.40	221.96	221.96	100.00
Meghalaya	0.00	0.00	0.00	673.92	46.57	720.49	720.49	100.00
Mizoram	0.00	0.00	0.00	73.17	66.08	139.25	139.25	100.00
Nagaland	0.00	0.00	0.00	149.62	67.48	217.10	217.10	100.00
Tripura	0.00	4424.66	0.00	0.00	3.09	3.09	4427.75	0.07
North Eastern Region Total	3509.89	6707.74	0.00	5160.13	455.04	5615.17	15832.80	35.47
All India Total	853306.04	21989.97	31986.55	108590.67	155720.32	296297.54	1171593.55	25.29

Table 7:- Renewable Energy as % of Total Electricity Generated

Renewable Energy (State Wise) Generation(MU) for the Month of November 2023								
State/UT	Fossil		Non Fossil			Total Renewable (RE) (6)=((4)+(5))	Grand Total (7)=((1)+(2)+(3)+ (4)+(5))	RE as % of Total
	Thermal (1)	Gas (2)	Nuclear (3)	Large Hydro (4)	Renewable (Excluding Large Hydro) (5)			
NORTHERN REGION								
Chandigarh	0.00	0.00	0.00	0.00	0.63	0.63	0.63	100.00
Delhi	0.00	233.74	0.00	0.00	63.64	63.64	297.38	21.40
Haryana	1886.24	0.00	0.00	0.00	146.51	146.51	2032.75	7.21
HP	0.00	0.00	0.00	1638.73	154.08	1792.81	1792.81	100.00
J & K	0.00	0.00	0.00	589.14	20.69	609.83	609.83	100.00
Ladakh	0.00	0.00	0.00	22.07	0.00	22.07	22.07	100.00
Punjab	2265.95	0.00	0.00	278.41	159.88	438.29	2704.24	16.21
Rajasthan	4636.63	61.33	582.97	142.15	2799.73	3524.85	8222.81	35.78
Uttar Pradesh	11242.80	38.93	30.57	32.42	656.16	719.15	12000.88	5.74
Uttarakhand	0.00	0.00	0.00	801.78	77.81	879.59	879.59	100.00
Northern Region Total	20031.62	334.00	613.54	3504.70	4079.13	8197.37	28562.99	26.55
WESTERN REGION								
Chhattisgarh	12625.07	0.00	0.00	10.37	179.09	189.46	12814.53	1.48
Gujarat	6086.62	155.66	800.32	256.76	2314.30	3371.38	9613.66	26.74
Madhya Pradesh	12826.20	0.00	0.00	446.18	528.70	974.88	13801.08	7.06
Maharashtra	10448.05	243.15	779.31	250.44	1349.83	2379.58	13070.78	12.24
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	2.34	2.34	2.34	100.00
Goa	0.00	0.00	0.00	0.00	5.44	5.44	5.44	100.00
Western Region Total	41985.94	398.81	1579.63	963.75	4379.70	6923.08	49307.83	10.84
SOUTHERN REGION								
Andhra Pradesh	5310.33	0.00	0.00	117.36	968.17	1085.53	6395.86	16.97
Telangana	4333.63	0.00	0.00	55.77	521.92	577.69	4911.32	11.76
Karnataka	3436.22	0.00	605.89	398.45	2346.85	3351.19	6787.41	40.45

Renewable Energy (State Wise) Generation(MU) for the Month of November 2023								
State/UT	Fossil		Non Fossil			Total Renewable (RE) (6)=((4)+(5))	Grand Total (7)=((1)+(2)+(3)+(4)+(5))	RE as % of Total
	Thermal (1)	Gas (2)	Nuclear (3)	Large Hydro (4)	Renewable (Excluding Large Hydro) (5)			
Kerala	0.00	0.00	0.00	312.54	181.83	494.37	494.37	100.00
Tamil Nadu	5675.12	97.96	1625.43	220.01	1262.07	3107.51	8880.59	16.69
Lakshadweep	5.10	0.00	0.00	0.00	0.01	0.01	5.11	0.15
Puducherry	0.00	11.70	0.00	0.00	1.02	1.02	12.72	8.02
Southern Region Total	18760.40	109.66	2231.32	1104.13	5281.87	8617.32	27487.38	23.23
EASTERN REGION								
Andaman Nicobar	27.92	0.00	0.00	0.00	3.46	3.46	31.38	11.03
Bihar	4632.45	0.00	0.00	0.00	26.34	26.34	4658.79	0.57
Jharkhand	2778.48	0.00	0.00	13.67	1.47	15.14	2793.62	0.54
Odisha	5947.28	0.00	0.00	380.37	97.11	477.48	6424.76	7.43
Sikkim	0.00	0.00	0.00	110.27	1.03	111.30	111.30	100.00
West Bengal	7459.47	0.00	0.00	142.72	160.17	302.89	7762.36	3.90
Eastern Region Total	20845.60	0.00	0.00	647.03	289.57	936.60	21782.20	4.30
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	242.85	0.24	243.09	243.09	100.00
Assam	395.62	275.43	0.00	68.50	33.84	102.34	773.39	13.23
Manipur	0.00	0.00	0.00	32.01	0.61	32.62	32.62	100.00
Meghalaya	0.00	0.00	0.00	44.21	7.03	51.24	51.24	100.00
Mizoram	0.00	0.00	0.00	7.64	8.26	15.90	15.90	100.00
Nagaland	0.00	0.00	0.00	6.47	5.45	11.92	11.92	100.00
Tripura	0.00	529.89	0.00	0.00	0.05	0.05	529.94	0.01
North Eastern Region Total	395.62	805.32	0.00	401.68	55.48	457.16	1658.10	27.57
All India Total	102019.18	1647.79	4424.49	6621.29	14085.75	25131.53	128798.50	16.08

Table 8:- Cumulative Renewable Energy as % of Total Electricity Generated

Renewable Energy (State Wise Generation(MU) for the Period of April-November 2023								
State/UT	Fossil		Non Fossil			Total Renewable (RE) (6)=((4)+(5))	Grand Total (7)=((1)+(2)+(3)+(4)+(5))	RE as % of Total
	Thermal (1)	Gas (2)	Nuclear (3)	Large Hydro (4)	Renewable (Excluding Large Hydro) (5)			
NORTHERN REGION								
Chandigarh	0.00	0.00	0.00	0.00	9.36	9.36	9.36	100.00
Delhi	0.00	2629.01	0.00	0.00	473.31	473.31	3102.32	15.26
Haryana	19183.00	137.28	0.00	0.00	1055.27	1055.27	20375.55	5.18
HP	0.00	0.00	0.00	30838.14	2262.74	33100.88	33100.88	100.00
J & K	0.00	0.00	0.00	13488.70	331.02	13819.72	13819.72	100.00
Ladakh	0.00	0.00	0.00	329.39	0.00	329.39	329.39	100.00
Punjab	21982.12	0.00	0.00	3492.94	3243.95	6736.89	28719.01	23.46
Rajasthan	39068.39	964.58	4606.01	505.22	31990.40	37101.63	77134.60	42.13
Uttar Pradesh	103883.59	1505.45	2051.69	639.41	3888.88	6579.98	111969.02	4.04
Uttarakhand	0.00	294.81	0.00	11119.31	622.48	11741.79	12036.60	97.55
Northern Region Total	184117.10	5531.13	6657.70	60413.11	43877.41	110948.22	300596.45	34.69
WESTERN REGION								
Chhattisgarh	106723.25	0.00	0.00	254.21	1579.98	1834.19	108557.44	1.69
Gujarat	49521.40	5915.80	4722.84	3464.04	26337.04	34523.92	89961.12	33.13
Madhya Pradesh	97275.51	0.00	0.00	4951.21	6436.69	11387.90	108663.41	10.48
Maharashtra	87090.48	2406.41	5755.52	4060.56	12092.52	21908.60	111405.49	14.50
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	18.49	18.49	18.49	100.00
Goa	0.00	0.00	0.00	0.00	46.20	46.20	46.20	100.00
Western Region Total	340610.64	8322.21	10478.36	12730.02	46510.91	69719.29	418652.14	14.15
SOUTHERN REGION								
Andhra Pradesh	47555.26	0.00	0.00	986.36	12572.86	13559.22	61114.48	22.19
Telangana	36304.00	0.00	0.00	977.03	4829.65	5806.68	42110.68	13.79
Karnataka	28358.89	0.00	4888.09	6830.81	20811.82	32530.72	60889.61	45.40

Renewable Energy (State Wise Generation(MU) for the Period of April-November 2023								
State/UT	Fossil		Non Fossil			Total Renewable (RE) (6)=((4)+(5))	Grand Total (7)=((1)+(2)+(3)+(4)+(5))	RE as % of Total
	Thermal (1)	Gas (2)	Nuclear (3)	Large Hydro (4)	Renewable (Excluding Large Hydro) (5)			
Kerala	0.00	0.00	0.00	3538.26	1550.55	5088.81	5088.81	100.00
Tamil Nadu	47674.21	1272.26	9962.40	2555.29	22714.16	35231.85	84178.32	30.02
Lakshadweep	42.39	0.00	0.00	0.00	0.06	0.06	42.45	0.14
Puducherry	0.00	156.63	0.00	0.00	8.16	8.16	164.79	4.95
Southern Region Total	159934.75	1428.89	14850.49	14887.75	62487.27	92225.51	253589.15	30.51
EASTERN REGION								
Andaman Nicobar	223.19	0.00	0.00	0.00	23.62	23.62	246.81	9.57
Bihar	39123.99	0.00	0.00	0.00	178.70	178.70	39302.69	0.45
Jharkhand	23351.13	0.00	0.00	159.23	11.76	170.99	23522.12	0.73
Odisha	42864.83	0.00	0.00	4627.51	883.68	5511.19	48376.02	11.39
Sikkim	0.00	0.00	0.00	8421.61	8.24	8429.85	8429.85	100.00
West Bengal	59570.52	0.00	0.00	2191.31	1283.69	3475.00	63045.52	5.51
Eastern Region Total	165133.66	0.00	0.00	15399.66	2389.69	17789.35	182923.01	9.73
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	3570.13	1.96	3572.09	3572.09	100.00
Assam	3509.89	2283.08	0.00	477.73	263.46	741.19	6534.16	11.34
Manipur	0.00	0.00	0.00	215.56	6.40	221.96	221.96	100.00
Meghalaya	0.00	0.00	0.00	673.92	46.57	720.49	720.49	100.00
Mizoram	0.00	0.00	0.00	73.17	66.08	139.25	139.25	100.00
Nagaland	0.00	0.00	0.00	149.62	67.48	217.10	217.10	100.00
Tripura	0.00	4424.66	0.00	0.00	3.09	3.09	4427.75	0.07
North Eastern Region Total	3509.89	6707.74	0.00	5160.13	455.04	5615.17	15832.80	35.47
All India Total	853306.04	21989.97	31986.55	108590.67	155720.32	296297.54	1171593.55	22.56

Table 9: Monthly Source wise RE generation November-2023 and November-2022

RE generation(MUs) data (source wise) for the month of November 2023 and November 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Nov'23	Nov'22	Nov'23	Nov'22	Nov'23	Nov'22	Nov'23	Nov'22	Nov'23	Nov'22	Nov'23	Nov'22	Nov'23	Nov'22
NORTHERN REGION														
Chandigarh	0.00	0.00	0.63	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	17.21	17.08	0.00	0.00	0.00	0.00	0.00	0.00	46.43	20.86	0.00	0.00
Haryana	0.00	0.00	96.90	26.07	20.79	28.62	3.11	2.13	21.14	0.64	4.57	10.59	0.00	0.00
Himachal Pradesh	0.00	0.00	5.79	4.40	0.00	0.00	0.00	0.00	148.29	345.33	0.00	0.00	1638.73	1844.65
J & K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.69	23.02	0.00	0.00	589.14	697.28
Ladakh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.07	20.34
Punjab	0.00	0.00	69.99	283.48	56.43	37.29	3.87	0.00	29.59	50.06	0.00	0.00	278.41	330.76
Rajasthan	360.94	248.47	2405.77	2739.45	32.92	34.07	0.00	0.00	0.10	0.99	0.00	0.00	142.15	125.04
Uttar Pradesh	0.00	0.00	267.04	291.58	0.46	0.16	373.97	363.15	9.33	11.06	5.36	4.78	32.42	42.09
Uttarakhand	0.00	0.00	27.65	27.65	0.00	0.00	20.71	20.71	29.45	29.45	0.00	0.00	801.78	863.16
Northern Region	360.94	248.47	2890.98	3389.91	110.60	100.13	401.65	385.99	258.59	460.55	56.37	36.23	3504.70	3923.32
WESTERN REGION														
Chhattisgarh	0.00	0.00	57.75	52.21	112.79	59.32	0.00	2.36	8.55	10.55	0.00	0.00	10.37	3.19
Gujarat	1277.67	712.15	1020.28	821.67	0.00	0.00	0.74	0.00	15.61	16.23	0.00	0.00	256.76	282.45
Madhya Pradesh	194.47	138.72	282.01	309.32	6.65	0.00	2.12	3.39	40.57	33.17	2.88	2.90	446.18	402.49
Maharashtra	323.42	346.61	427.16	391.45	23.24	2.54	509.32	645.04	61.43	44.78	5.26	0.02	250.44	349.25
Dadra and Nagar Haveli and Daman and Diu	0.00	0.00	1.28	1.36	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Goa	0.00	0.00	4.76	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.42	0.00	0.00

RE generation(MUs) data (source wise) for the month of November 2023 and November 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Nov'23	Nov'22	Nov'23	Nov'22	Nov'23	Nov'22	Nov'23	Nov'22	Nov'23	Nov'22	Nov'23	Nov'22	Nov'23	Nov'22
Western Region	1795.56	1197.48	1793.23	1577.53	143.74	61.86	512.17	650.80	126.17	104.73	8.82	3.34	963.75	1037.38
SOUTHERN REGION														
Andhra Pradesh	362.93	207.39	565.85	573.19	0.61	2.85	7.59	6.48	5.38	49.97	25.81	20.72	117.36	417.63
Telangana	19.65	18.18	476.53	555.29	0.04	1.50	6.93	16.25	7.16	12.00	11.62	11.76	55.77	582.30
Karnataka	574.45	524.55	1095.00	1042.55	4.73	6.22	460.72	399.57	211.95	203.46	0.00	0.00	398.45	1024.03
Kerala	5.05	56.04	95.81	62.80	0.00	0.00	6.70	5.49	74.26	57.05	0.00	0.00	312.54	535.25
Tamil Nadu	425.70	237.39	774.15	663.18	10.57	10.42	33.65	42.52	18.02	33.96	0.00	0.00	220.01	625.00
Lakshadweep	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	1.02	1.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Southern Region	1387.77	1043.55	3008.36	2898.03	15.95	20.99	515.59	470.32	316.76	356.44	37.44	32.48	1104.13	3184.21
EASTERN REGION														
Andaman Nicobar	0.00	0.00	1.90	1.83	0.00	0.00	0.00	0.00	1.56	1.45	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	16.21	12.99	0.00	0.00	10.13	10.53	0.00	0.04	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	1.47	1.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.67	6.89
Odisha	0.00	0.00	62.69	61.95	8.34	7.21	0.00	0.00	26.08	32.26	0.00	0.00	380.37	428.08
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.03	1.03	0.00	0.00	110.27	582.92
West Bengal	0.00	0.00	17.31	11.22	0.00	0.00	0.00	0.00	17.76	20.51	125.09	137.86	142.72	230.35
Eastern Region	0.00	0.00	99.58	89.57	8.34	7.21	10.13	10.53	46.43	55.29	125.09	137.86	647.03	1248.24

RE generation(MUs) data (source wise) for the month of November 2023 and November 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Nov'23	Nov'22	Nov'23	Nov'22	Nov'23	Nov'22	Nov'23	Nov'22	Nov'23	Nov'22	Nov'23	Nov'22	Nov'23	Nov'22
NORTH-EASTERN REGION														
Arunachal Pradesh	0.00	0.00	0.19	0.22	0.00	0.00	0.00	0.00	0.06	0.06	0.00	0.00	242.85	345.77
Assam	0.00	0.00	27.67	20.07	0.00	0.00	0.00	0.00	6.10	5.69	0.07	0.00	68.50	43.22
Manipur	0.00	0.00	0.61	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.01	31.34
Megh alaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.03	3.31	0.00	0.00	44.21	46.96
Mizoram	0.00	0.00	0.27	0.27	0.00	0.00	0.00	0.00	7.99	7.99	0.00	0.00	7.64	13.83
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.45	15.20	0.00	0.00	6.47	6.13
Tripura	0.00	0.00	0.05	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North Eastern Region	0.00	0.00	28.73	21.85	0.00	0.00	0.00	0.00	26.63	32.25	0.07	0.00	401.68	487.25
All India Total	3544.27	2489.50	7820.94	7976.88	278.62	190.21	1439.55	1517.64	774.58	1009.28	227.79	209.91	6621.29	9880.40

Table 10: Cumulative Source wise RE generation April-November-2023 and April-November-2022

RE generation(MUs) data (source wise) for the period of April-November2023 and April-November2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22
NORTHERN REGION														
Chandigarh	0.00	0.00	9.36	8.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	137.69	167.41	0.00	0.00	0.00	0.00	0.00	0.00	335.62	180.20	0.00	0.00
Haryana	0.00	0.00	604.72	429.01	198.20	238.23	54.35	127.89	157.66	171.41	40.34	43.24	0.00	0.00
Himachal Pradesh	0.00	0.00	40.18	42.36	0.00	0.00	0.00	0.00	2222.56	2423.13	0.00	0.00	30838.14	32729.81
J & K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	331.02	311.04	0.00	0.00	13488.70	13967.36
Ladakh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	329.39	343.26
Punjab	0.00	0.00	2329.68	1678.92	381.33	283.18	50.74	44.78	482.20	500.93	0.00	0.00	3492.94	3064.78
Rajasthan	6369.81	4714.23	25374.59	22279.88	244.87	259.04	0.00	0.00	1.13	1.28	0.00	0.00	505.22	509.06
Uttar Pradesh	0.00	0.00	2711.31	2412.14	20.28	41.78	976.87	967.86	105.24	144.69	75.18	37.51	639.41	588.02
Uttarakhand	0.00	0.00	221.20	221.20	0.00	0.00	165.68	165.68	235.60	235.60	0.00	0.00	11119.31	12309.91
Northern Region	6369.81	4714.23	31428.73	27238.94	844.68	822.22	1247.64	1306.20	3535.41	3788.08	451.14	260.95	60413.11	63512.20
WESTERN REGION														
Chhattisgarh	0.00	0.00	537.38	351.06	911.07	679.36	4.55	2.97	126.98	132.30	0.00	0.00	254.21	186.54
Gujarat	17776.16	13351.54	8433.89	6374.98	0.00	0.00	0.74	2.88	126.25	127.43	0.00	2.24	3464.04	4905.78
Madhya Pradesh	3659.65	3392.45	2376.34	2590.30	57.17	6.94	12.06	25.56	314.00	213.97	17.47	24.26	4951.21	5486.85
Maharashtra	6739.75	6005.81	3664.16	2588.40	204.34	151.80	858.94	1808.03	616.75	542.77	8.58	0.35	4060.56	4023.54

RE generation(MUs) data (source wise) for the period of April-November2023 and April-November2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22
Dadra and Nagar Haveli and Daman and Diu	0.00	0.00	9.96	21.92	8.53	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Goa	0.00	0.00	40.96	8.82	0.00	0.00	0.00	0.00	0.00	0.00	5.25	3.39	0.00	0.00
Western Region	28175.56	22749.80	15062.69	11935.48	1181.10	841.32	876.29	1839.44	1183.98	1016.46	31.29	30.24	12730.02	14602.71
SOUTHERN REGION														
Andhra Pradesh	6834.87	5959.60	5412.36	5211.32	11.76	42.33	23.41	61.87	86.24	235.10	204.22	184.27	986.36	2918.20
Telangana	220.58	203.48	4449.81	4277.24	2.31	21.33	18.41	23.42	44.36	77.78	94.18	105.05	977.03	5368.41
Karnataka	8495.02	7401.17	9937.95	8834.50	40.55	81.05	1106.44	1222.35	1231.86	1895.53	0.00	0.00	6830.81	8929.76
Kerala	188.07	150.77	740.20	460.90	0.00	0.00	53.53	40.17	568.72	685.64	0.03	0.00	3538.26	6072.96
Tamil Nadu	14427.68	14357.17	7717.26	5909.98	83.85	85.03	371.20	452.77	114.17	197.00	0.00	0.00	2555.29	4228.40
Lakshadweep	0.00	0.00	0.06	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	8.16	8.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Southern Region	30166.22	28072.18	28265.81	24702.16	138.47	229.74	1573.00	1800.57	2045.34	3091.04	298.43	289.32	14887.75	27517.73
EASTERN REGION														
Andaman Nicobar	0.00	0.00	15.49	16.01	0.00	0.00	0.00	0.00	8.13	10.71	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	125.69	114.63	0.00	0.00	47.64	10.53	5.38	9.91	0.00	0.00	0.00	0.00

RE generation(MUs) data (source wise) for the period of April-November2023 and April-November2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22	Apr'23- Nov'23	Apr'22- Nov'22
Jharkhand	0.00	0.00	11.76	13.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	159.23	278.07
Odisha	0.00	0.00	488.50	448.93	63.90	32.84	0.00	0.00	331.28	342.67	0.00	0.00	4627.51	4245.65
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.24	8.24	0.00	0.00	8421.61	10465.84
West Bengal	0.00	0.00	103.21	81.88	0.00	0.00	0.00	0.00	150.88	148.38	1029.60	1106.41	2191.31	2637.47
Eastern Region	0.00	0.00	744.64	675.27	63.90	32.84	47.64	10.53	503.90	519.90	1029.60	1106.41	15399.66	17627.03
NORTH-EASTERN REGION														
Arunachal Pradesh	0.00	0.00	1.50	21.54	0.00	0.00	0.00	0.00	0.47	2.28	0.00	0.03	3570.13	4053.84
Assam	0.00	0.00	211.32	131.41	0.00	0.00	0.00	0.00	51.85	45.71	0.29	0.00	477.73	409.01
Manipur	0.00	0.00	5.17	5.63	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.01	215.56	425.94
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.57	56.87	0.00	0.00	673.92	851.52
Mizoram	0.00	0.00	2.12	2.15	0.00	0.00	0.00	0.00	63.95	27.08	0.00	0.00	73.17	154.67
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	67.48	86.87	0.00	0.00	149.62	158.19
Tripura	0.00	0.00	3.09	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North Eastern Region	0.00	0.00	223.20	165.13	0.00	0.00	0.00	0.00	230.32	218.81	1.52	0.03	5160.13	6053.17
All India Total	64711.59	55536.21	75725.07	64716.98	2228.16	1926.11	3744.56	4956.75	7498.95	8634.30	1811.99	1686.94	108590.67	129312.84



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