



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

September-2023/सितंबर-2023

नवीकरणीय परियोजना प्रबोधन प्रभाग
Renewable Project Monitoring Division

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Highlights of RE GENERATION

1. RE capacity addition during September 2023 has been 268.77 MW (Solar – 170.74 MW and Wind – 94.95 MW, Others (Waste to Energy) – 3.08 MW).
2. RE generation during September 2023 has decreased by 07.00 % as compared to September 2022.
3. Large Hydro Power generation during September 2023 as compared to September 2022 has decreased by 25.86 %.
4. Solar Power generation during September 2023 as compared to September 2022 has increased by 12.34 % on All India basis in all States/UTs except states of Delhi, Himachal Pradesh, Madhya Pradesh, Telangana, Odisha and Arunachal Pradesh.
5. Wind Power generation during September 2023 as compared to September 2022 has increased by 33.01 % on All India basis in all States/UTs.
6. Biomass Power generation during September 2023 as compared to September 2022 has increased by 52.71 % on All India basis except States of Rajasthan, Haryana, Andhra Pradesh, Karnataka and Telangana .
7. Bagasse power generation during September 2023 as compared to September 2022 has decreased by 15.92 %.
8. Others (Waste to Heat) Power generation has increased by 04.97 % during September 2023 as compared to September 2022 except States of Madhya Pradesh, Andhra Pradesh and West Bengal.
9. Small Hydro Power generation during September 2023 as compared to September 2022 has decreased by 20.62 %.

All India RE Capacity Addition

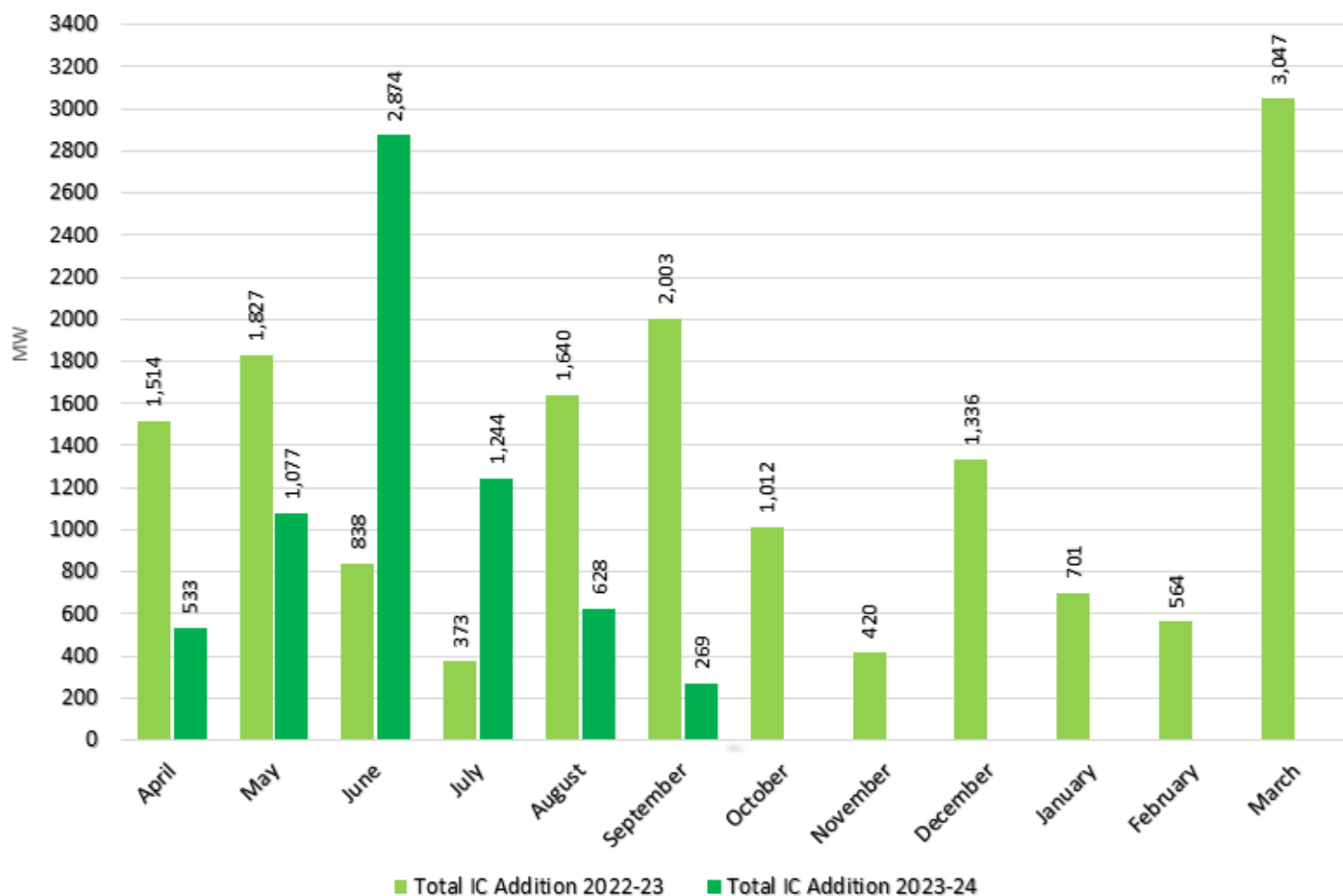


Figure 1: All India Month wise RE Capacity Addition

Month wise Solar IC addition

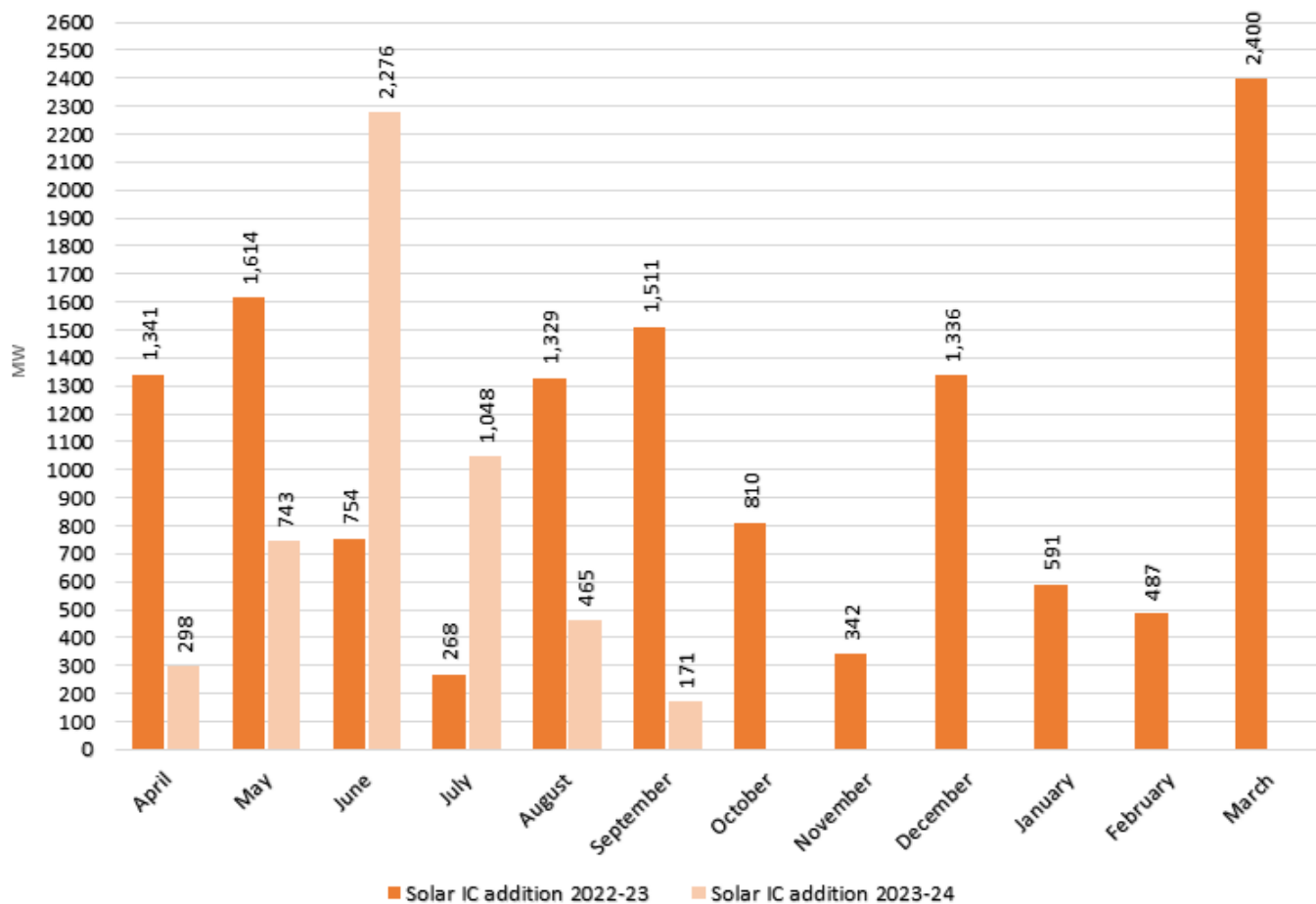


Figure 2: All India Month wise Solar Capacity Addition

Month wise Wind IC addition

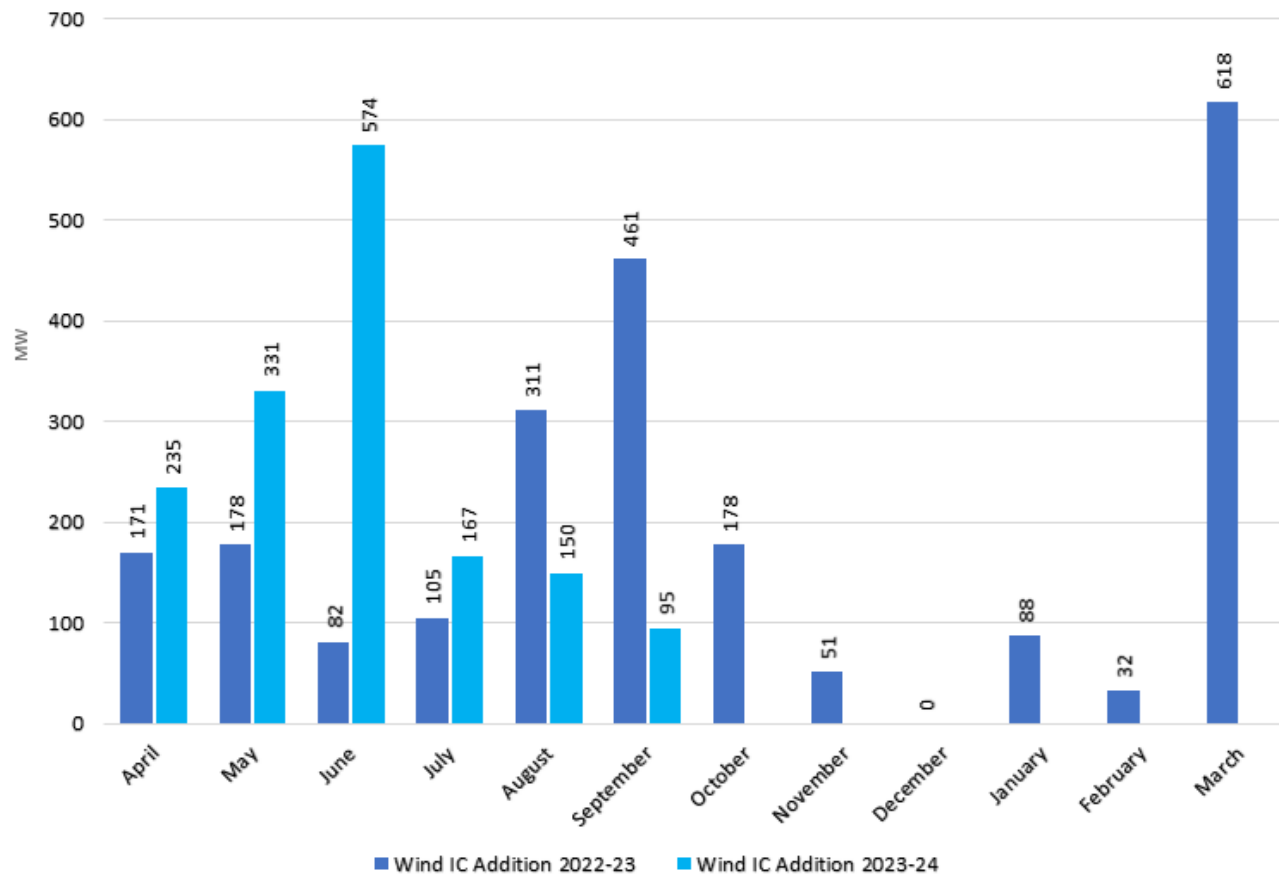


Figure 3: All India Month wise Wind Capacity Addition

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

Decreased by 86.58 % as compared to September 22.

Decreased by 57.22 % as compared to August 23.

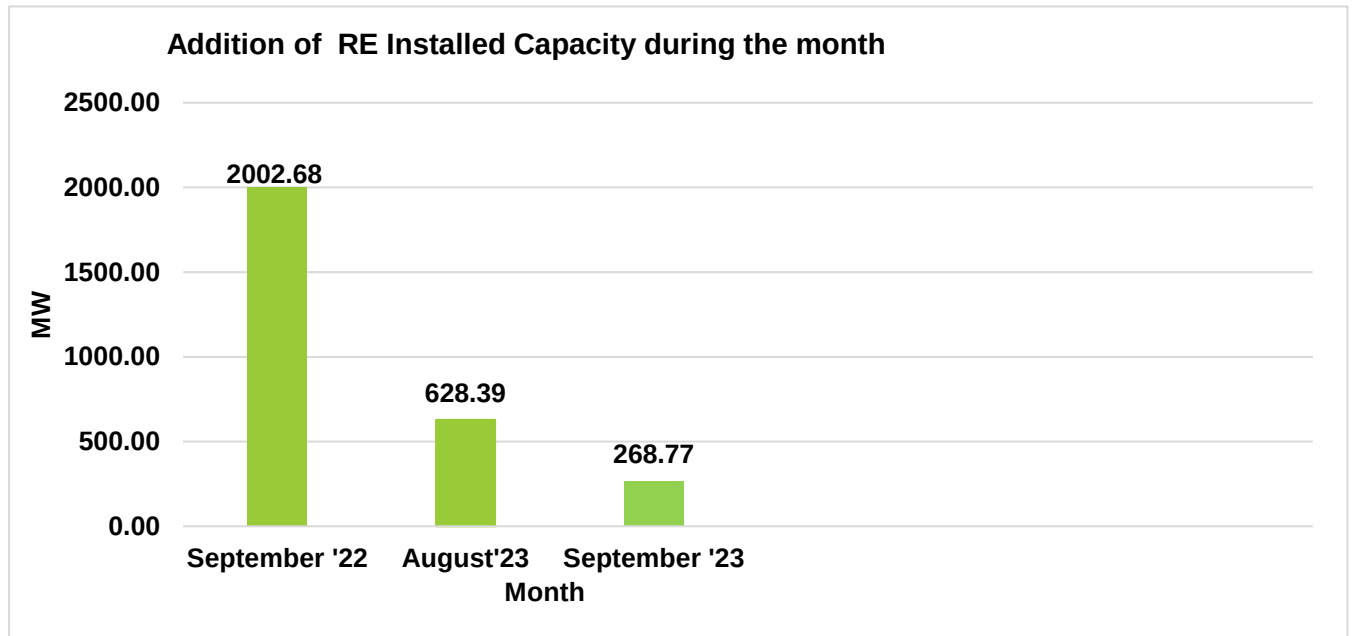


Figure 4: RE capacity added during the Month

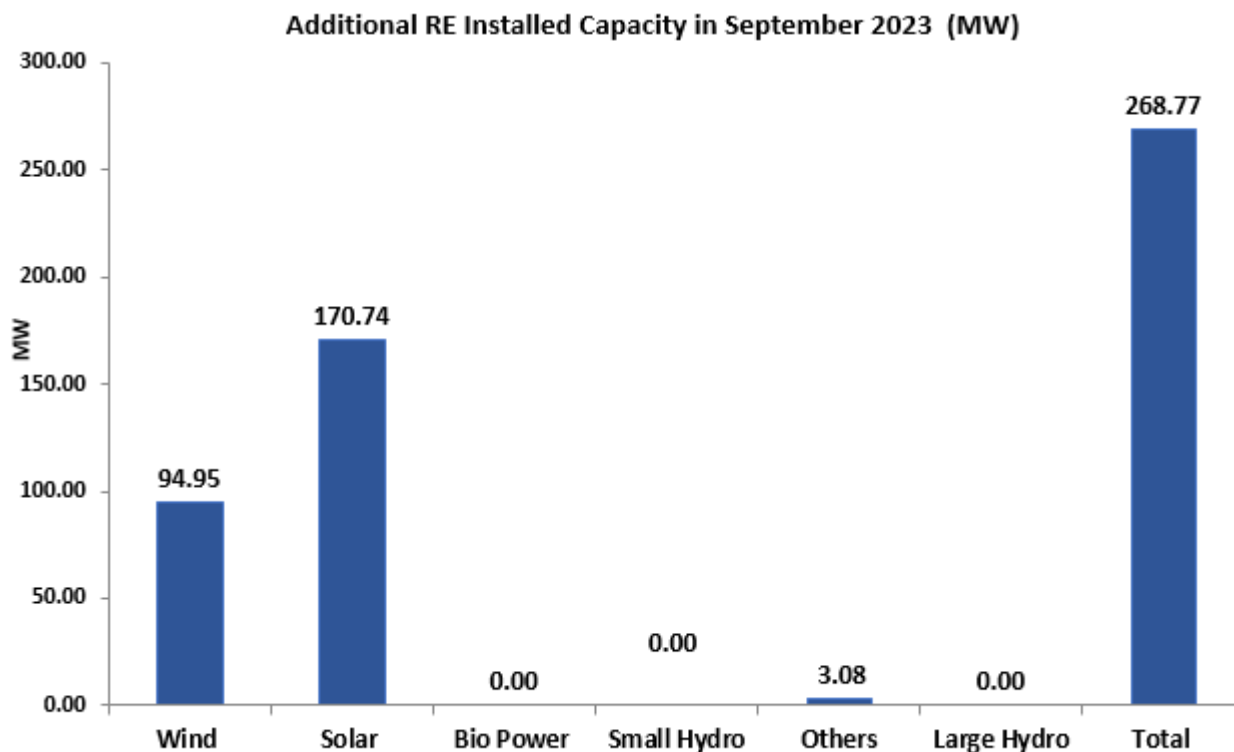


Figure 5: Source wise addition in RE Installed Capacity in September 23

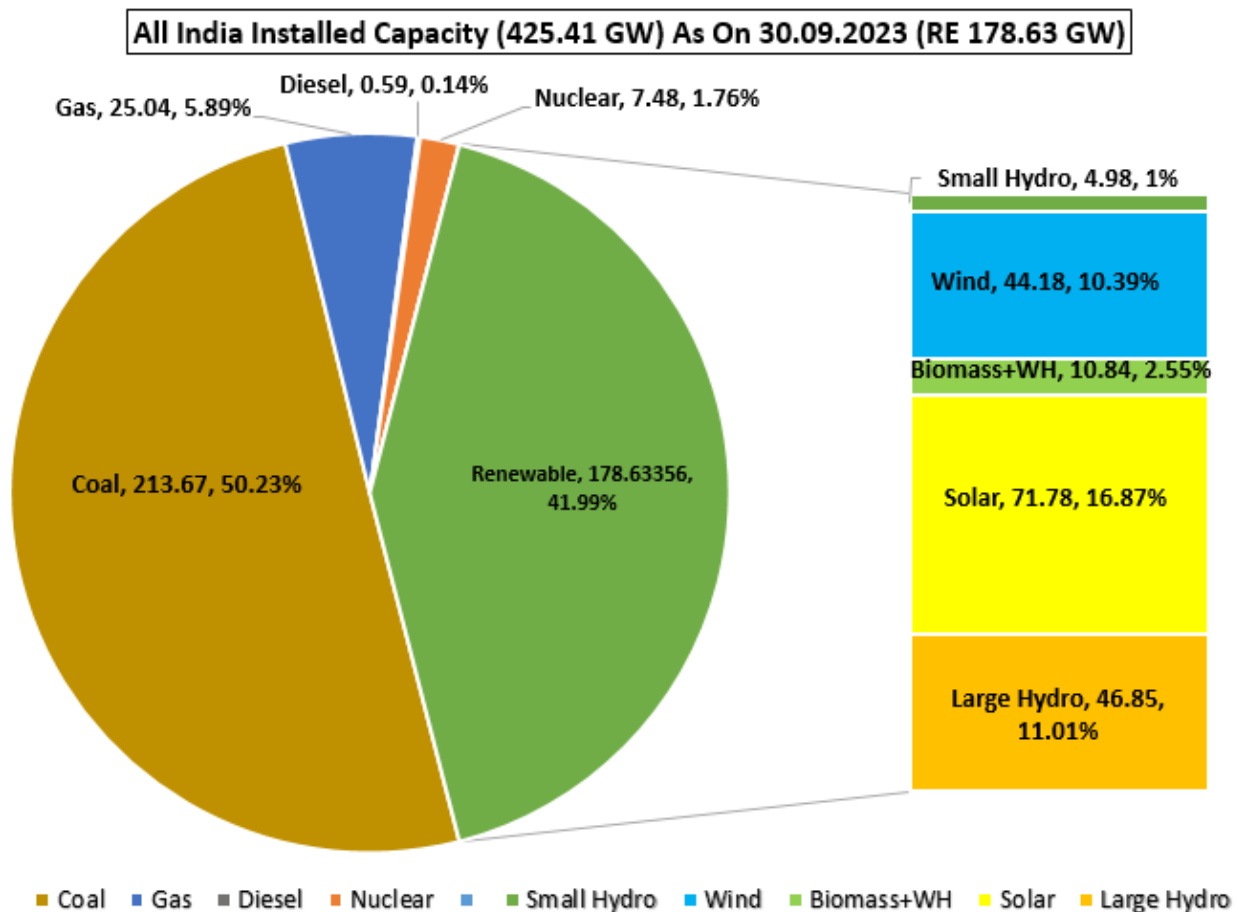


Figure 6: Installed Capacity in India as on 30.09.2023

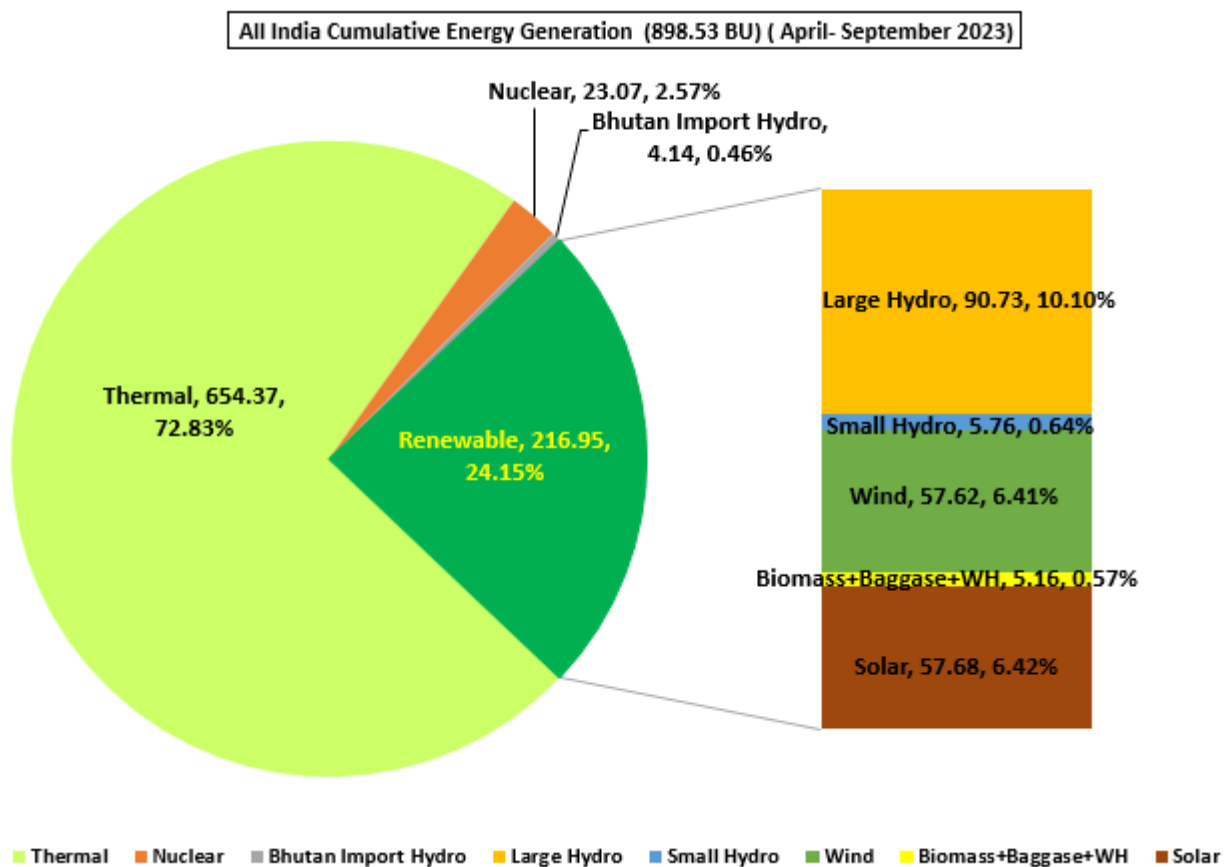


Figure 7: Cumulative Total Energy Generation in India and Share of RE for the year 2023-24

All India Monthly Energy Generation (150.45 BU) September 2023

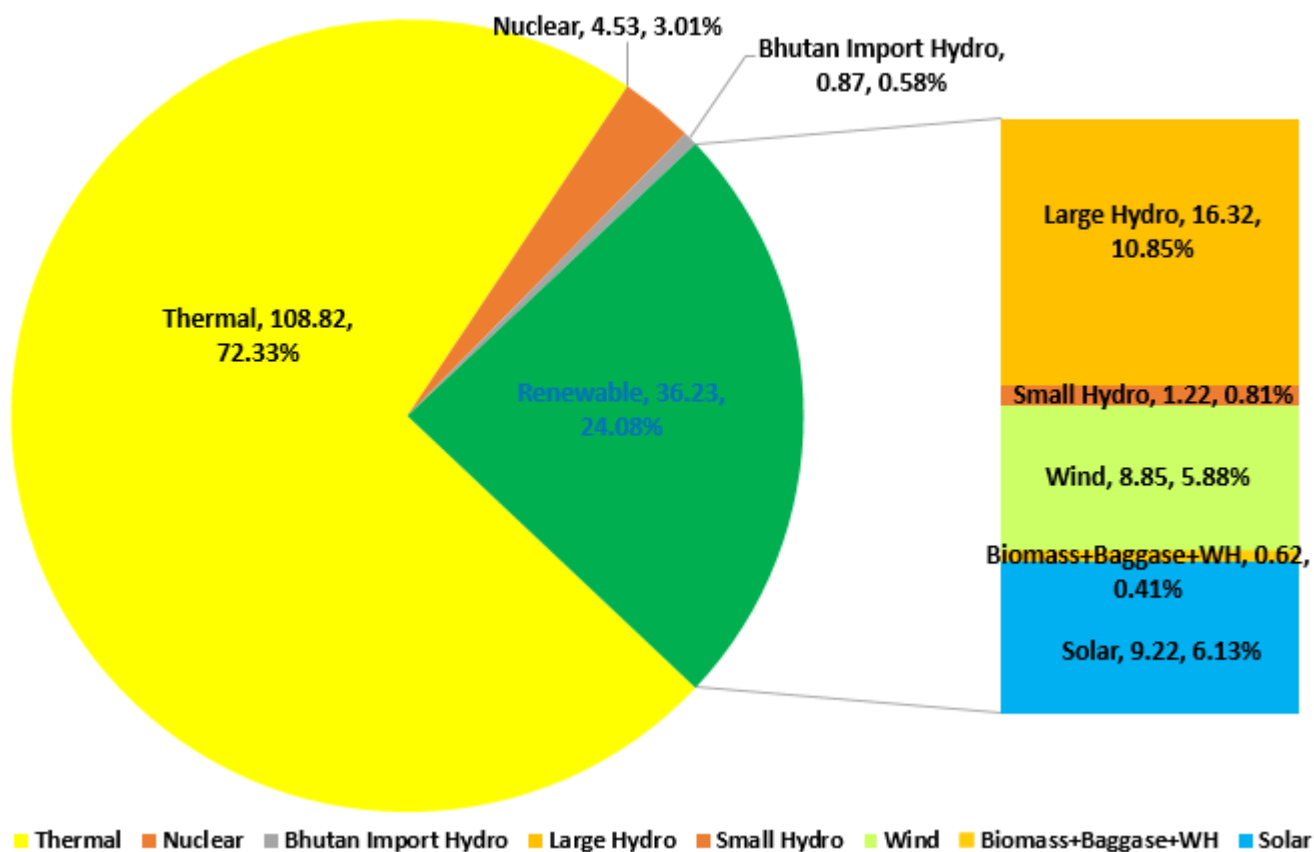


Figure 8: Total Energy Generation in India and Share of RE in the month of September 2023

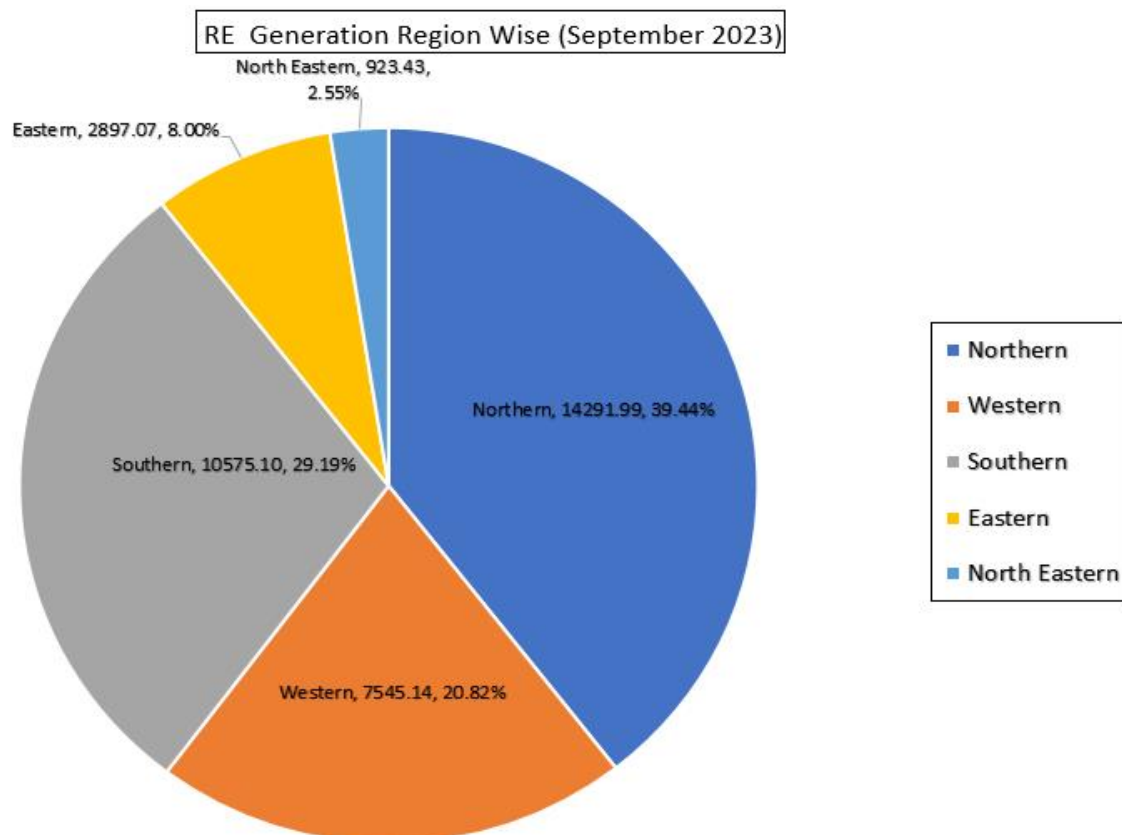


Figure 9: RE Generation Region Wise of September-2023

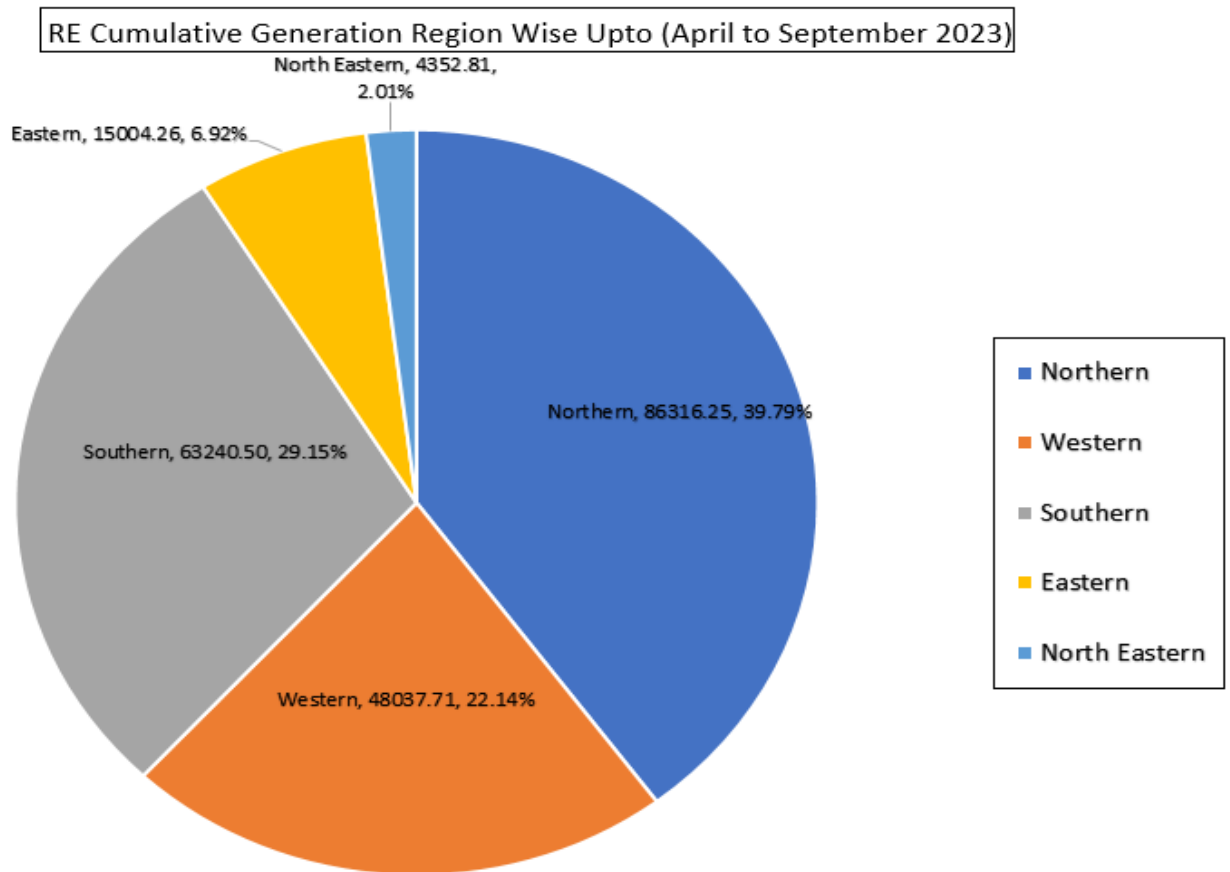


Figure 10: RE Cumulative Generation Region Wise Upto (April to September-2023)

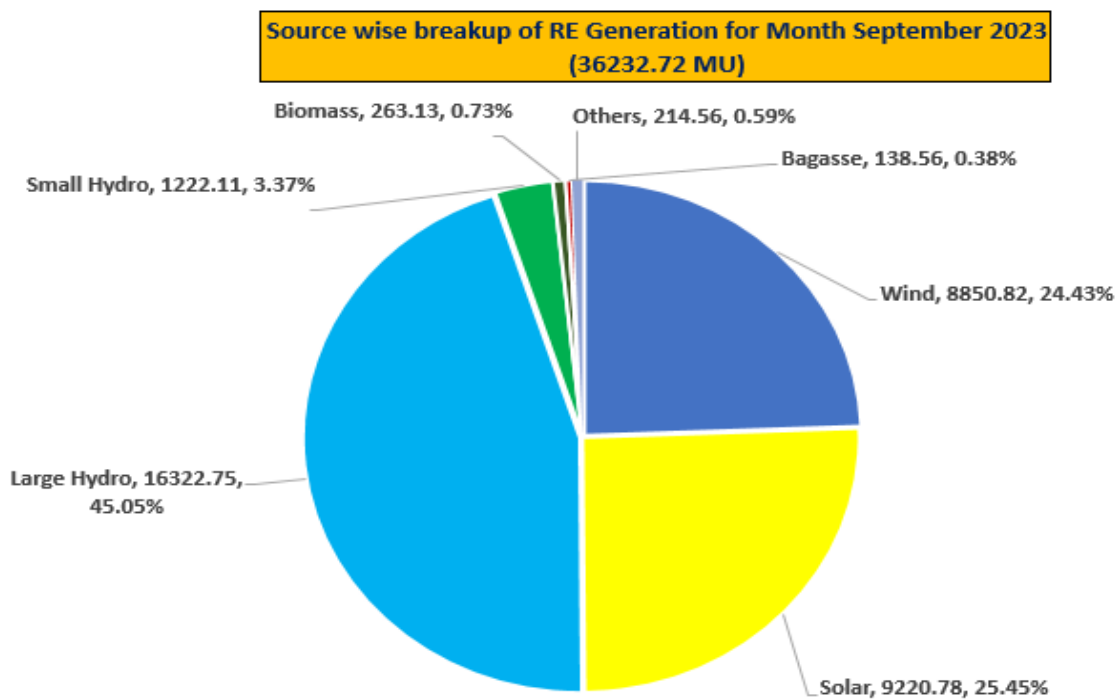


Figure 11: Source wise breakup of RE Generation in the month of September-2023

Source wise breakup of cumulative RE Generation for April 23- September 23
(216951.52 MU)

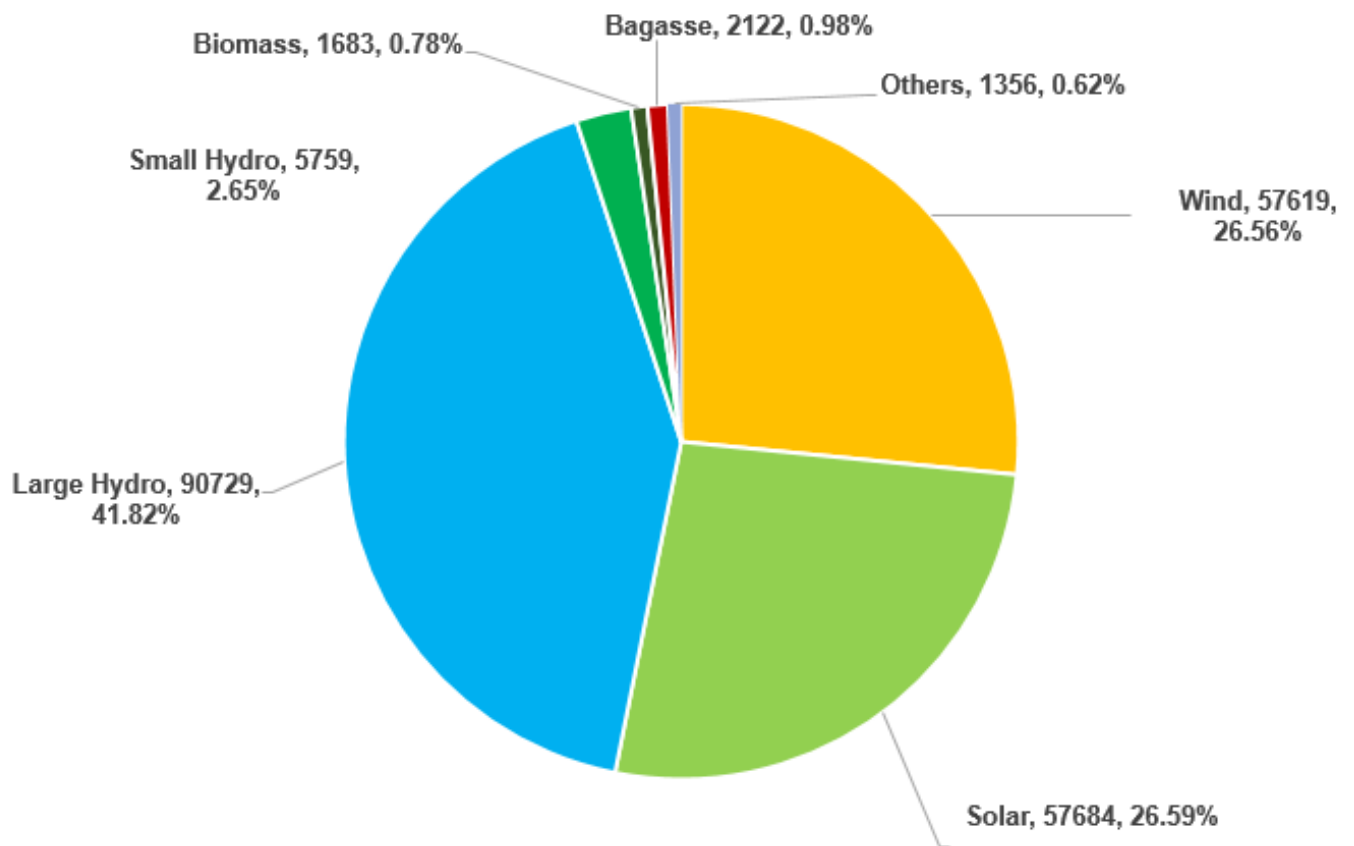


Figure 12: Source wise breakup of Cumulative RE Generation for the year 2023-24.

Summary of Renewable Energy Generation

Decreased by 07.00 % as compared to September 22

Decreased by 20.42 % as compared to August '23.

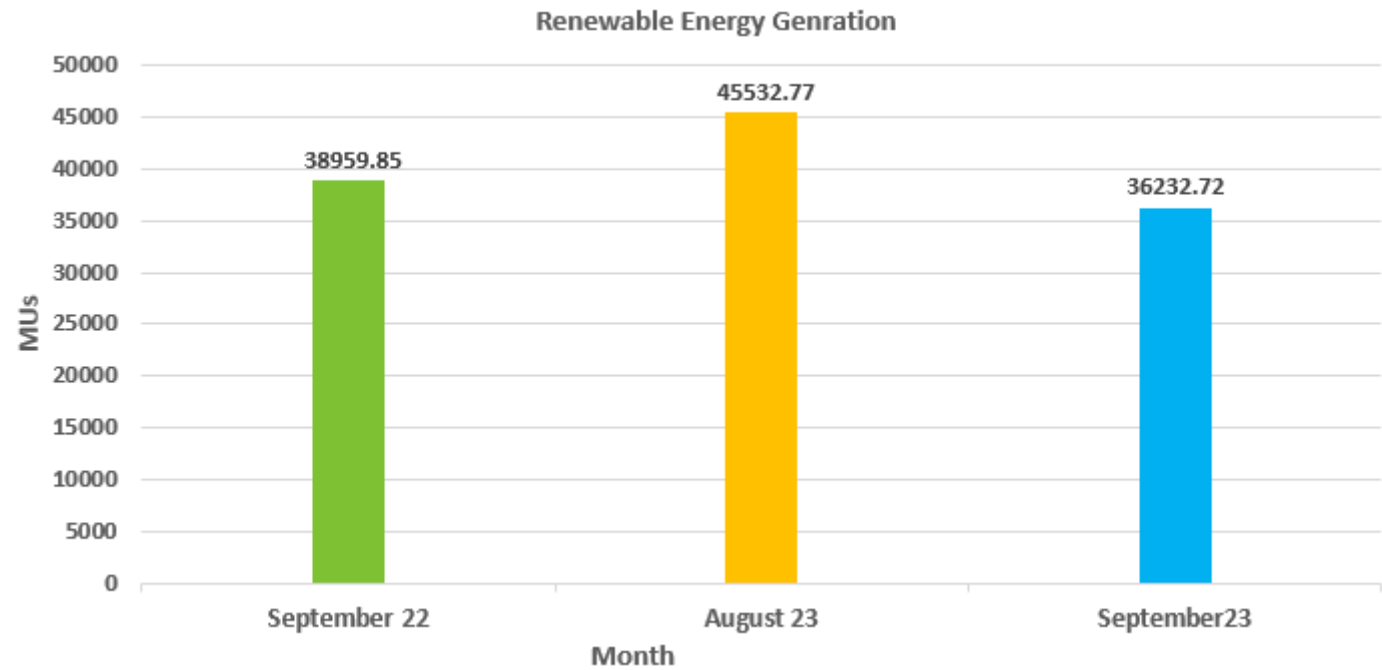


Figure 13: Renewable Energy Generation

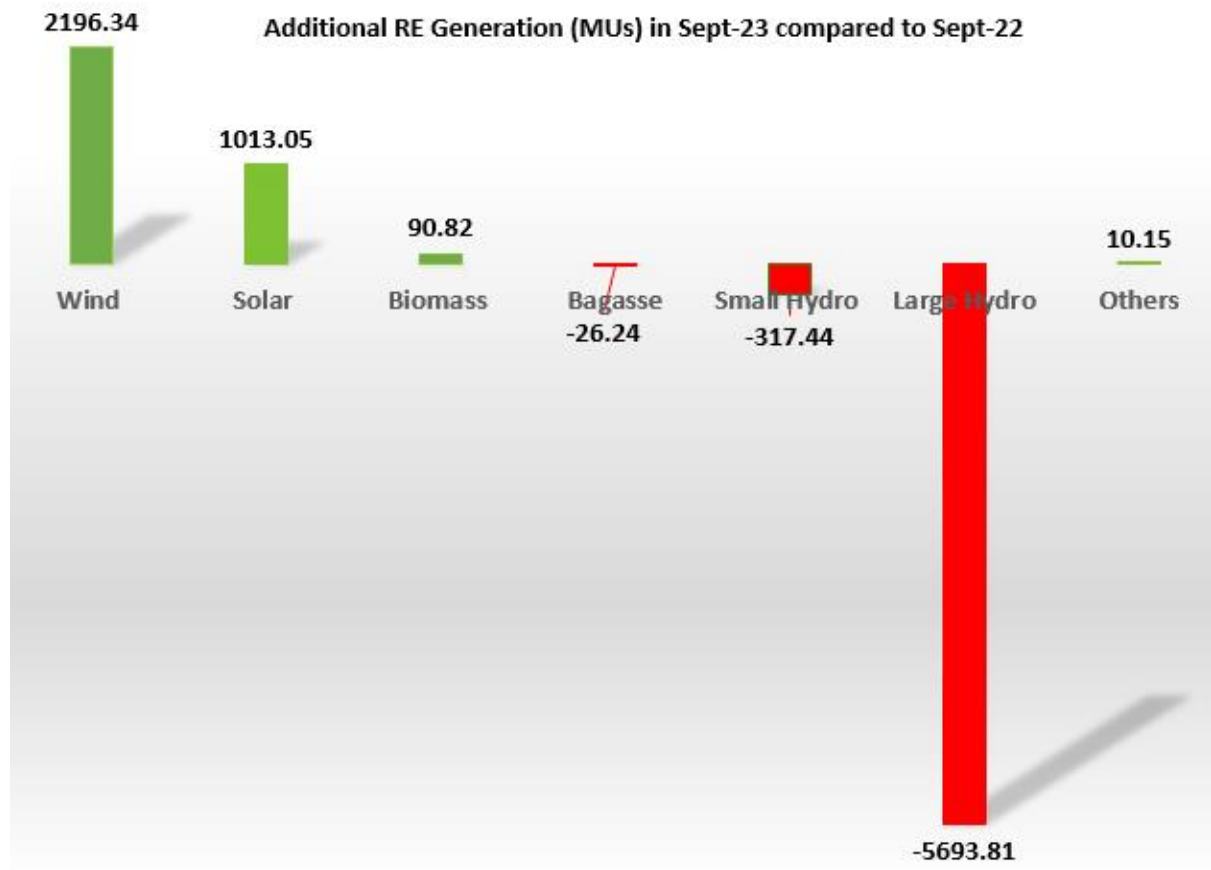


Figure 14: Additional RE Generation in September-23 as compared to September-22

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

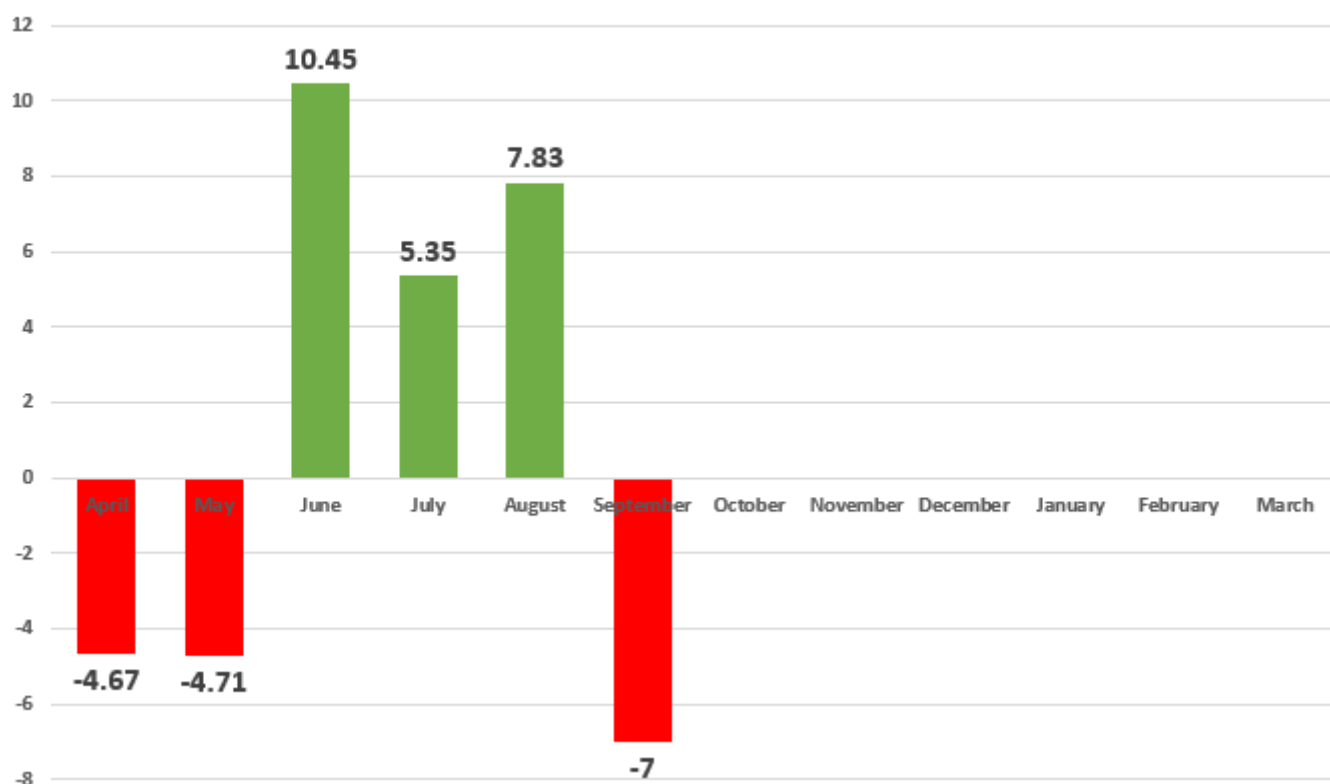


Figure 15: Month Wise % Growth of RE Generation in year 2023-24 w.r.t to previous year Same Month.

Month Wise RE Generation in MU

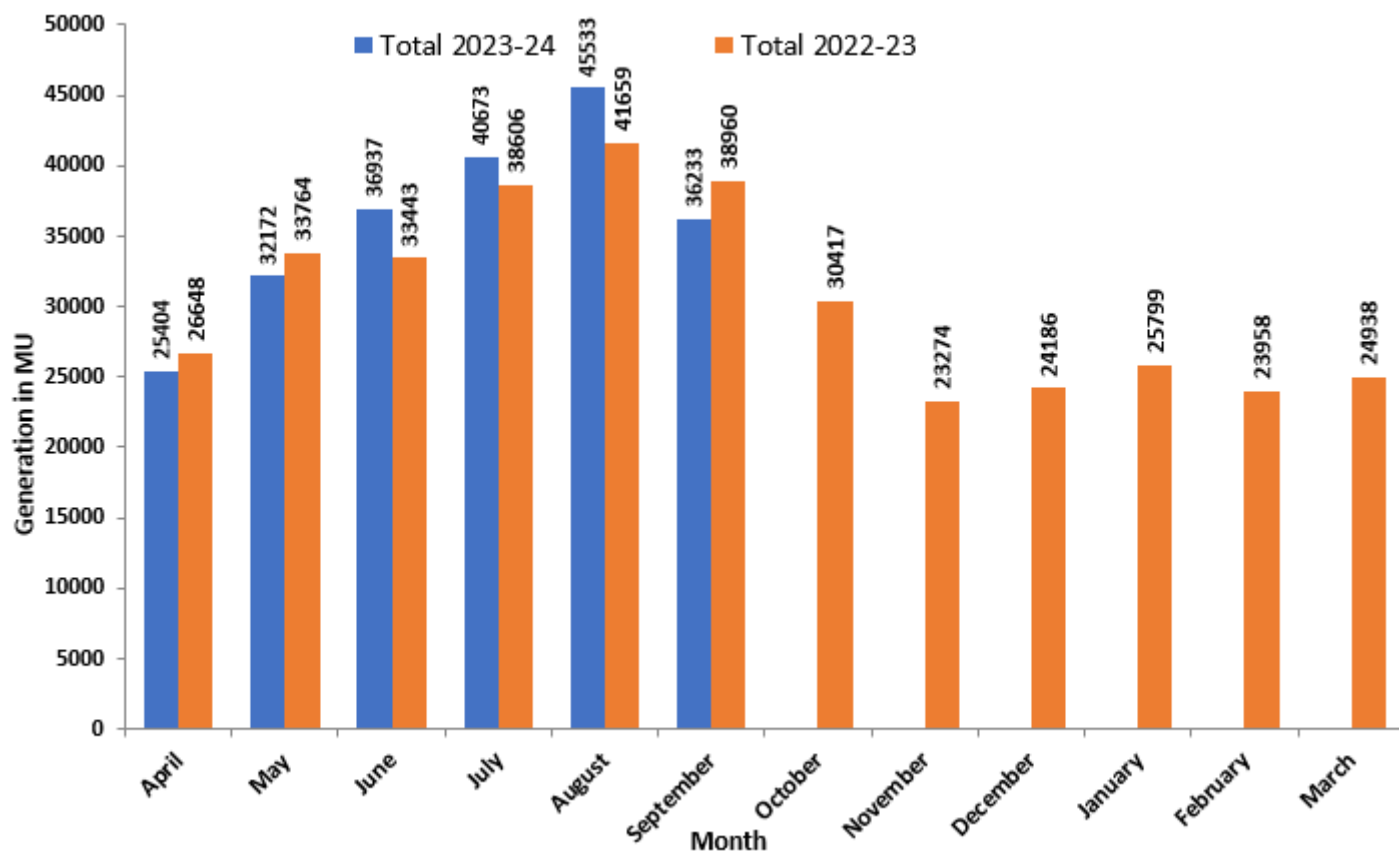


Figure 16: comparison of Month Wise RE Generation in year 2022-23 & in year 2023-24

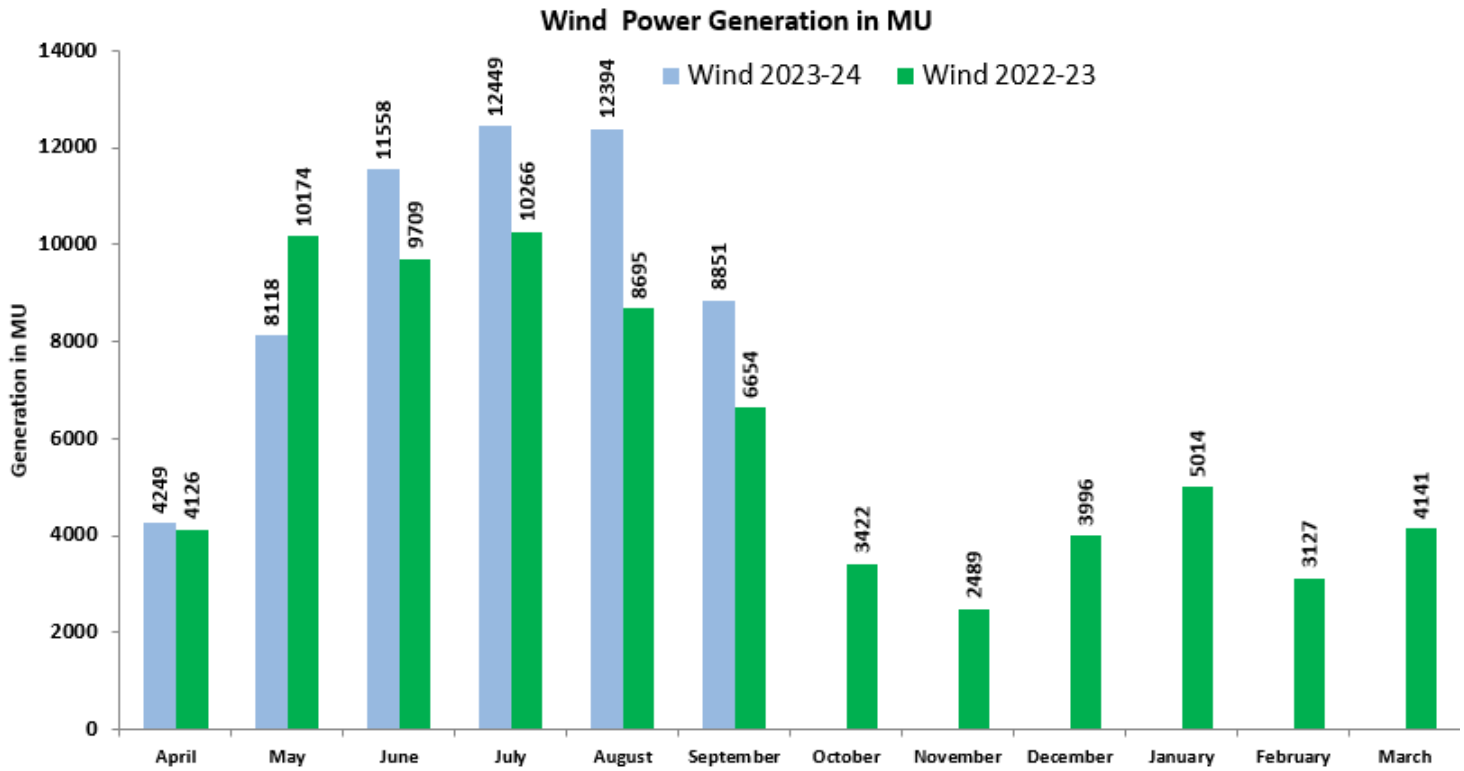


Figure 17: Month Wise Wind Power Generation for the year 2022-23 and year 2023-24.

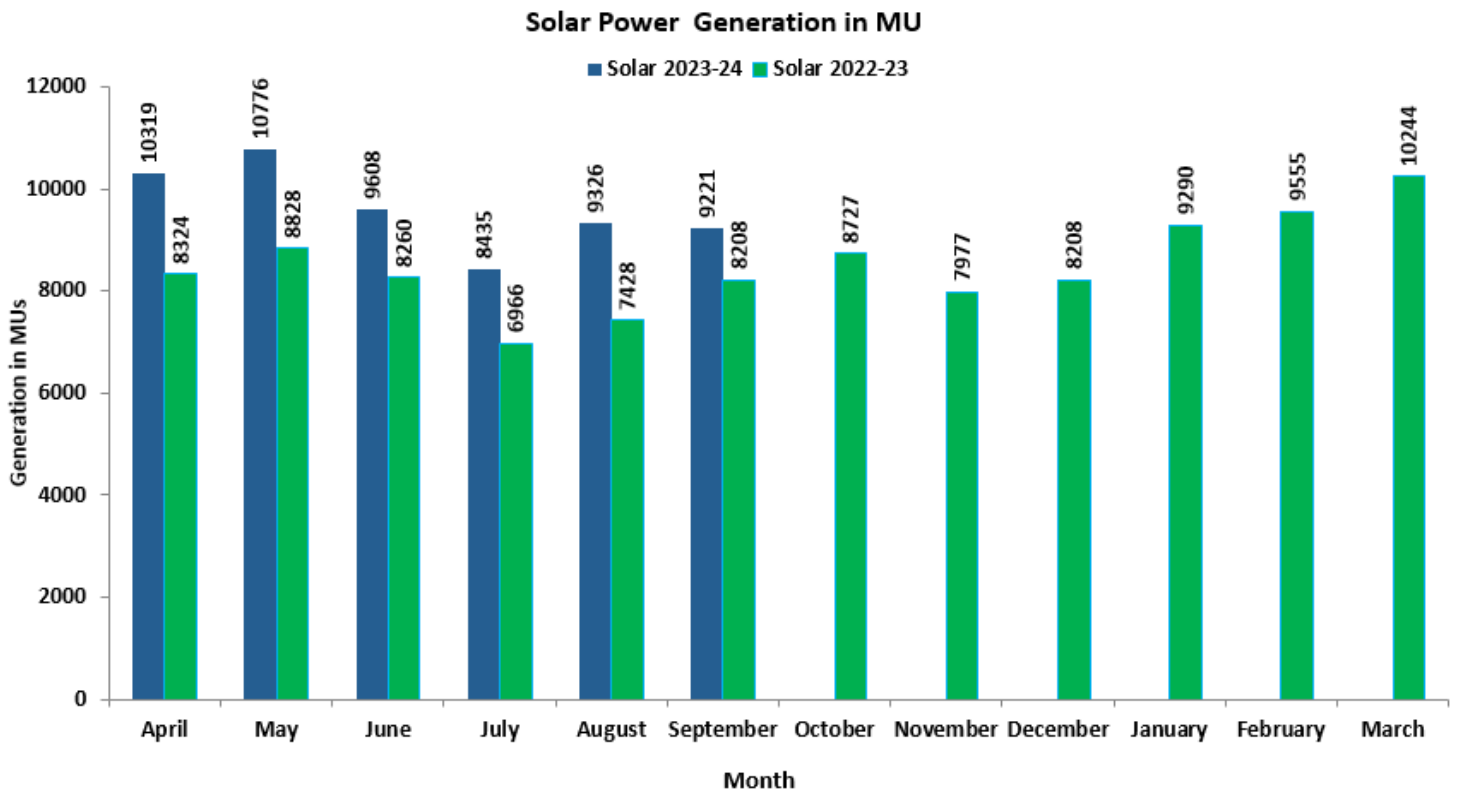


Figure 18: Month Wise Solar Power Generation for the year 2022-23 and year 2023-24.

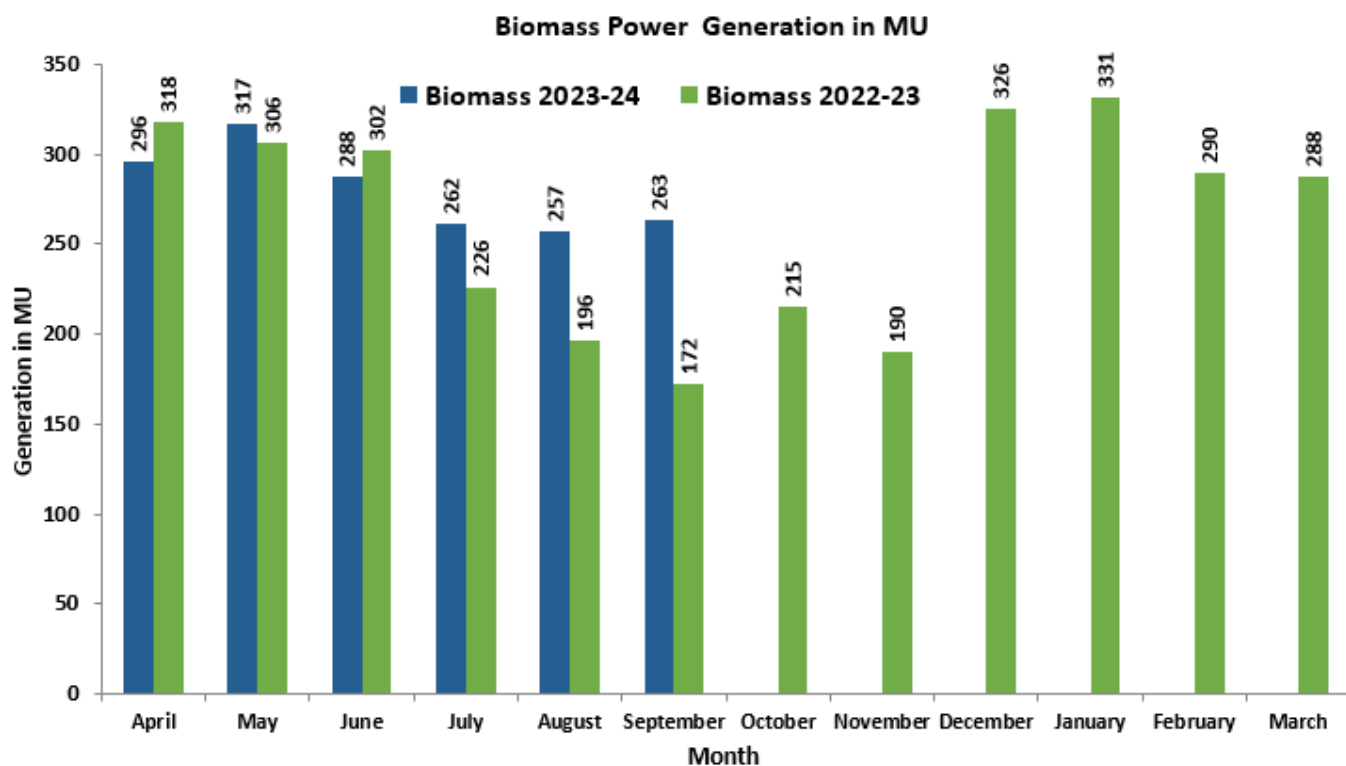


Figure 19: Month Wise Biomass Power Generation for the year 2022-23 and year 2023-24.

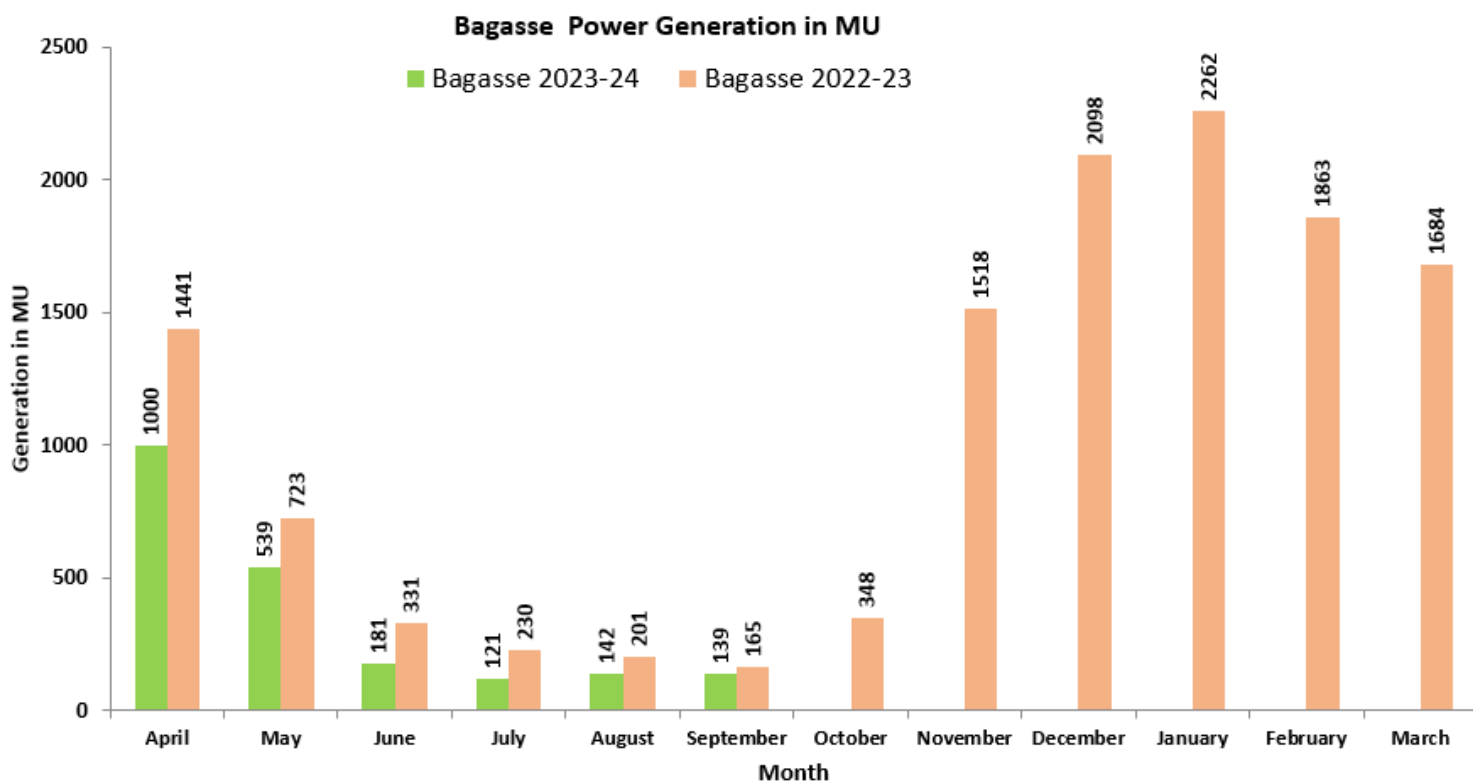


Figure 20: Month Wise Bagasse Power Generation for the year 2022-23 and year 2023-24.

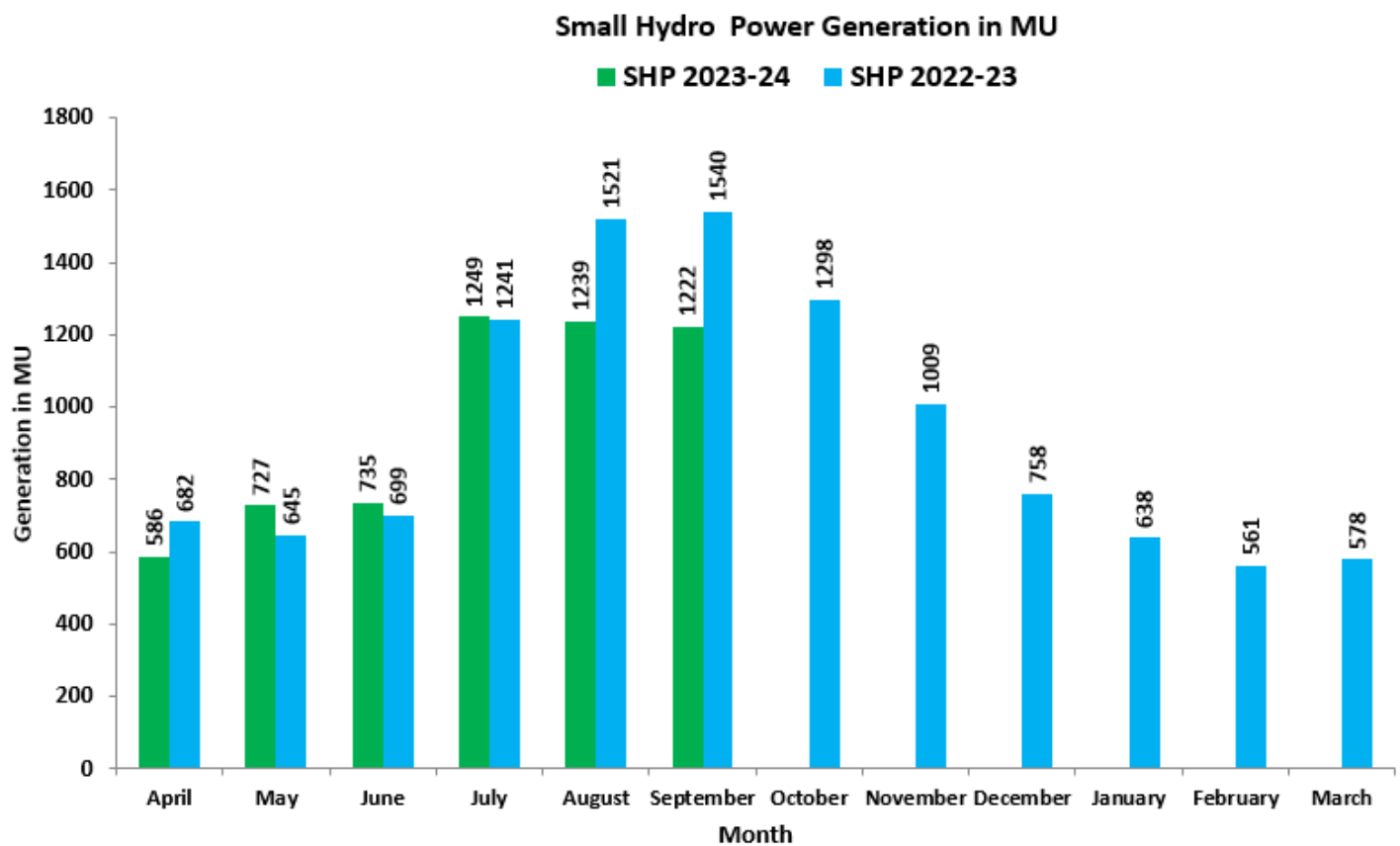


Figure 21: Month Wise Small Hydro Power Generation for the year 2022-23 and year 2023-24.

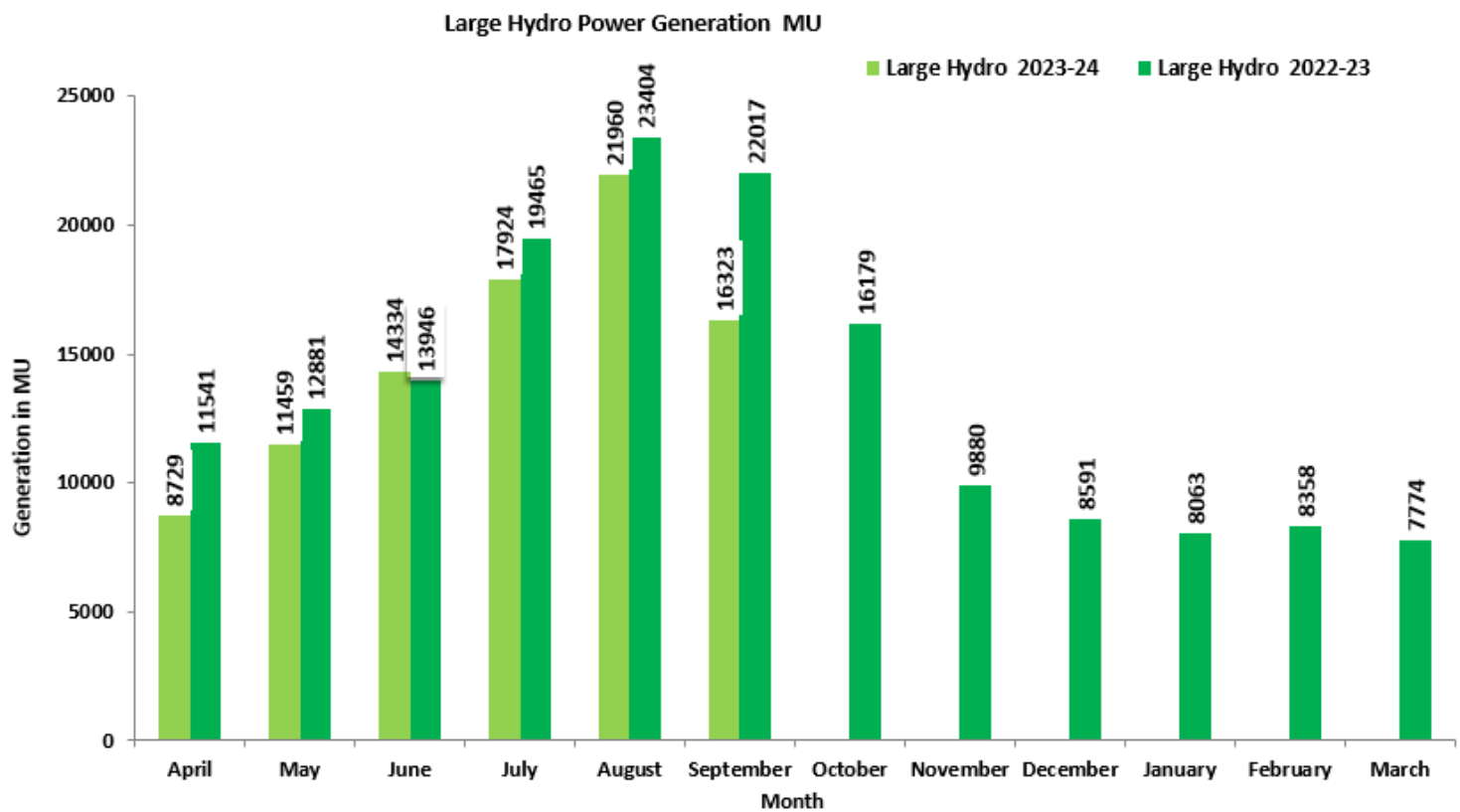


Figure 22: Month Wise Large Hydro Power Generation for the year 2022-23 and year 2023-24.

Power Generation from other RE sources in MU

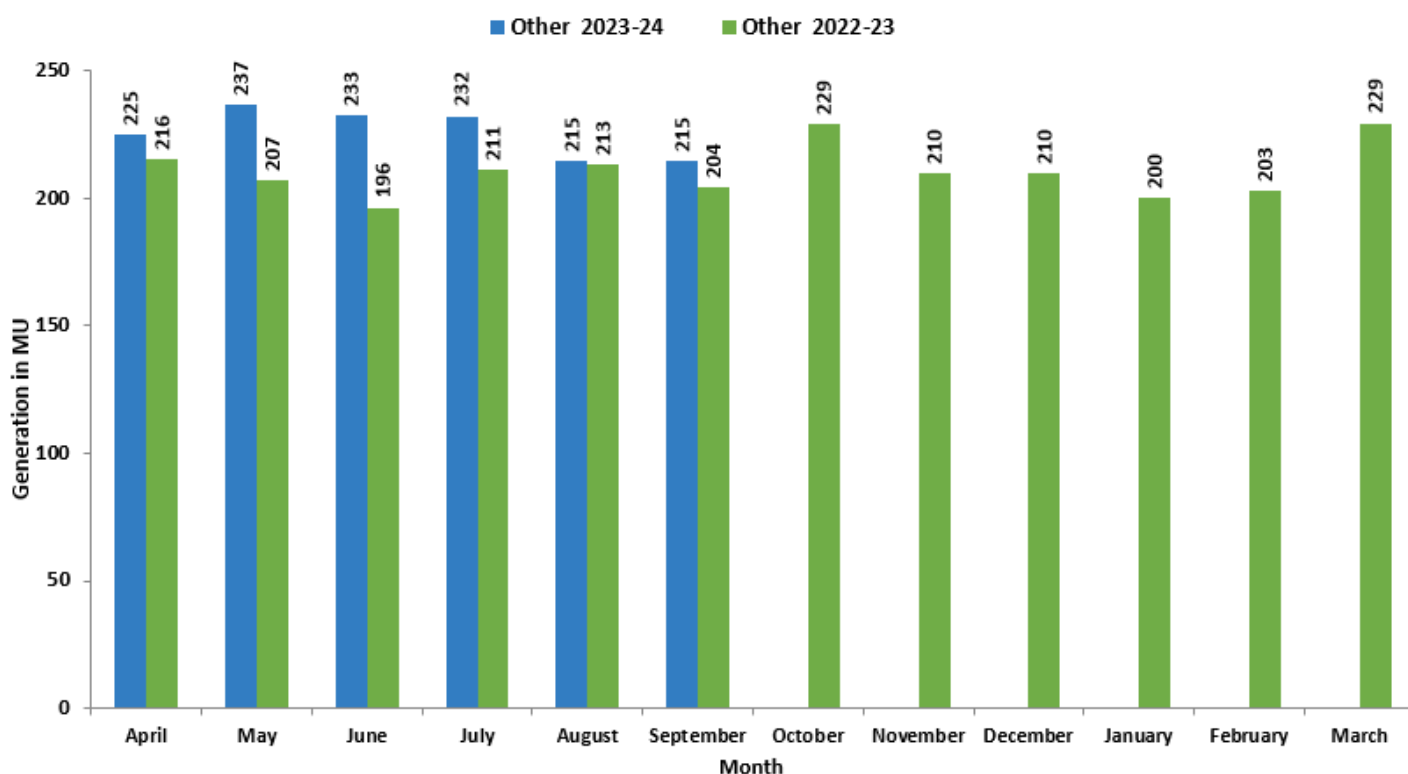


Figure 23: Month Wise Other RE (Waste Heat etc.) Power for the year 2022-23 and year 2023-24.

Year wise Generation of RE in MU

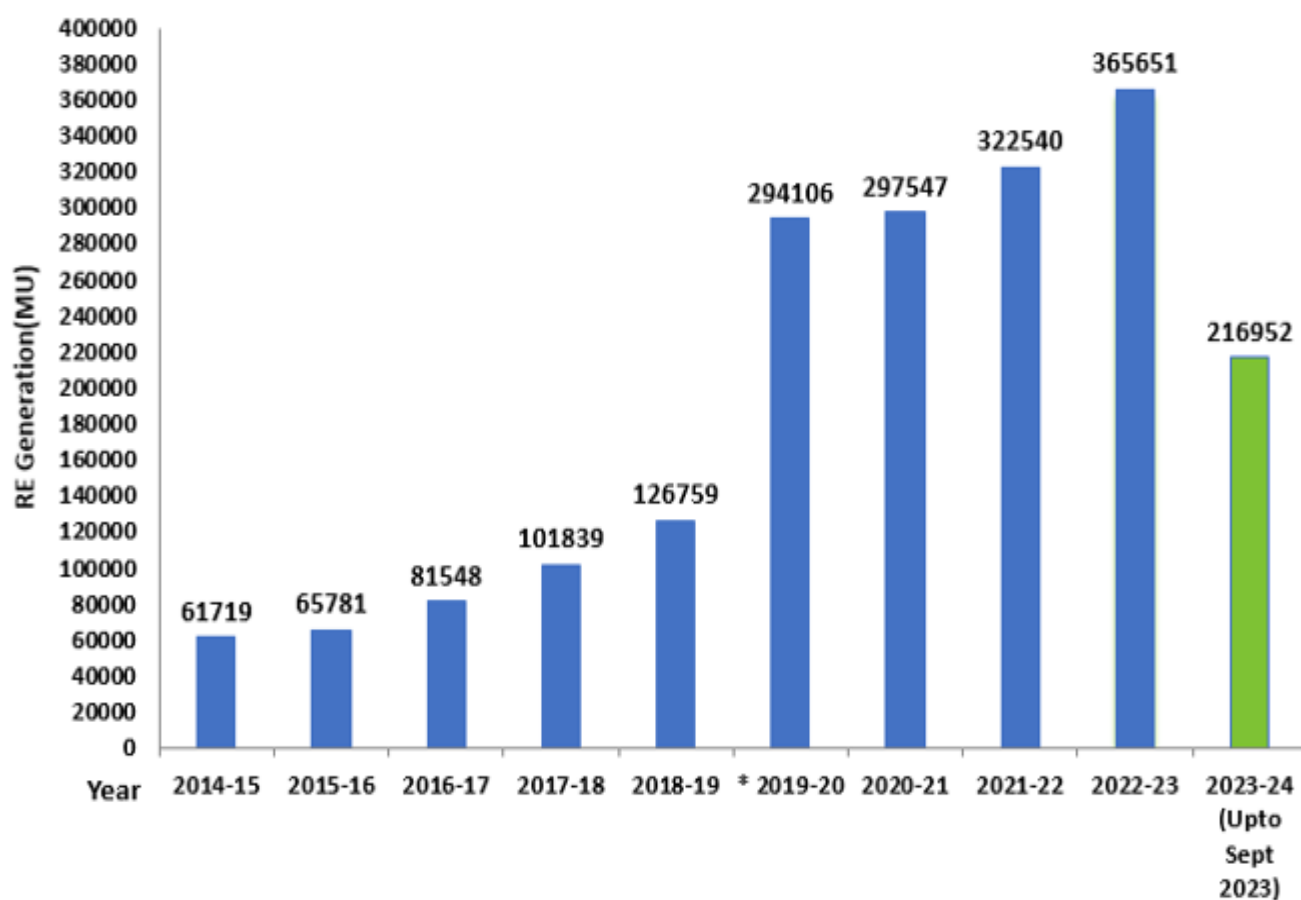


Figure 24: Year Wise RE Generation

(*) 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.

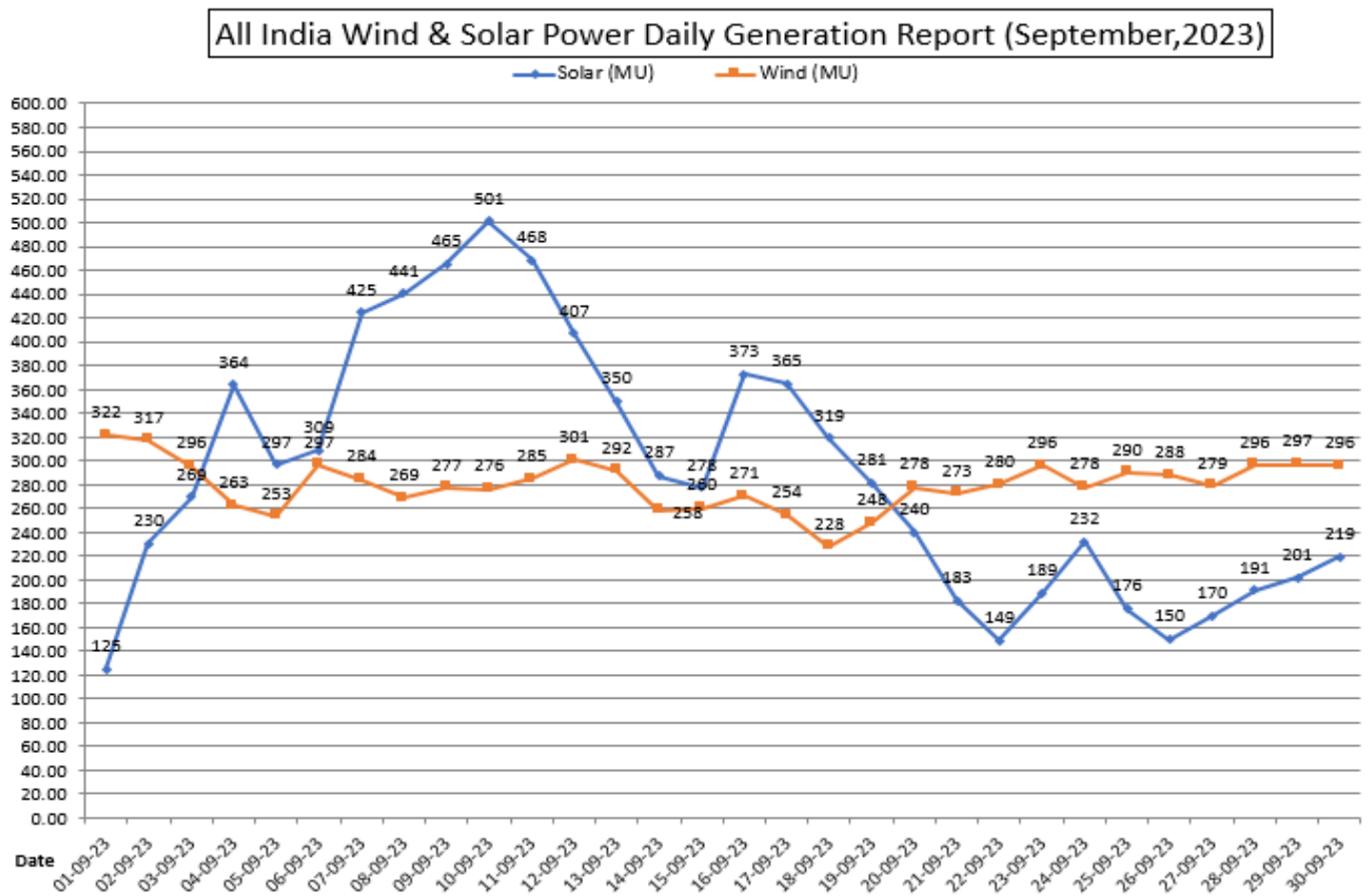


Figure 25: Daily solar and wind power generation trend in the month of September-2023

Summary of All India Total Renewable Energy Generation

Table 1 All India Summary of Renewable Energy Generation

Category	Installed Capacity (MW) (as on 30.09.2023)	Monitored Capacity (MW) (as on 30.09.2023) for which generation data is available	RE Generation (MU) September'2023	RE Generation (MU) September'2022	% of same Month Last Year	RE Generation (MU) April'2023-September'2023	RE Generation (MU) April'2022-September'2022	% of same period Last Year
पवन/Wind	44184.63	43244.95	8850.82	6654.49	133.01	57618.98	49624.91	116.11
सौर/Solar	71780.74	63942.69 (*)	9220.78	8207.73	112.34	57684.38	48013.27	120.14
बायोमास/Biomass	10261.81	9651.85	263.13	172.31	152.71	1682.87	1520.73	110.66
बगास/Bagasse			138.56	164.80	84.08	2121.86	3090.92	68.65
लघु जल विद्युत्/ Small Hydro	4982.75	4300.40	1222.11	1539.55	79.38	5758.76	6327.34	91.01
बृहत् जल विद्युत्/ Large Hydro(\$)	46850.17	46850.17	16322.75	22016.56	74.14	90728.93	103823.30	87.39
अन्य/Others	573.46	701.28	214.56	204.41	104.97	1355.74	1248.14	108.62
कुल/Total	178633.56	168691.34	36232.72	38959.85	93.00	216951.52	213648.62	101.55

(*) Solar Installed capacity including 3.5 GW rooftop solar.

(\$)

Large Hydro Generation data excludes import from Bhutan. However, the import from Bhutan during September 2023 and April 23 -September 23 are 869.40 MUs and 4135.50 MU respectively.

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

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Unchahar Solar (NTPC)	Uttar Pradesh	Central	Solar	1.04
Dadri Solar (NTPC)	Uttar Pradesh	Central	Solar	0.51
Singrauli Solar (NTPC)	Uttar Pradesh	Central	Solar	1.51
Auraiya (NTPC)	Uttar Pradesh	Central	Solar	5.58
Kolayat (NTPC)	Rajasthan	Central	Solar	83.21
Nokhra (NTPC)	Rajasthan	Central	Solar	57.76
Devikot (NTPC)	Rajasthan	Central	Solar	46.45
ABC Renewable Energy	Rajasthan	Private	Solar	65.13
Acme Chittorgarh Energy Pvt Ltd.	Rajasthan	Private	Solar	50.67
Acme Heergharh Powertech Pvt Ltd	Rajasthan	Private	Solar	60.26
Adani Hybrid Energy Jaisalmer Four Limited	Rajasthan	Private	Solar	151.74
Adani Hybrid Energy Jaisalmer One Limited	Rajasthan	Private	Solar	79.03
Adani Hybrid Energy Jaisalmer Three Limited	Rajasthan	Private	Solar	73.58
Adani Hybrid Energy Jaisalmer Two Limited	Rajasthan	Private	Solar	75.41
Adani Renewable Energy RJ Limited (RERJL)	Rajasthan	Private	Solar	39.68
Adani Jaisalmer One SEPL Solar	Rajasthan	Private	Solar	90.41
Adani SB Energy Four Pvt. Ltd.(SE4PL(Kilaj Solar))	Rajasthan	Private	Solar	10.42
M/S Adani Solar Energy Four PVT. LTD.L(Adani SEJ5PL)	Rajasthan	Private	Solar	39.87
Adani SB Energy Four Pvt. Ltd. (SERJ1PL)	Rajasthan	Private	Solar	59.27
Avaada Sunrays Energy Private Limited	Rajasthan	Private	Solar	68.10
Avaada RJHN Private Limited	Rajasthan	Private	Solar	47.68
Avaada Sunce Energy Private Limited	Rajasthan	Private	Solar	69.57
Avaada Sustainable RJ Project Private Ltd.	Rajasthan	Private	Solar	60.64

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Ayana Renewable Power One Private Limited	Rajasthan	Private	Solar	61.47
Azure Power Forty One Private Limited	Rajasthan	Private	Solar	58.27
Azure Power Forty Three Private Ltd	Rajasthan	Private	Solar	125.56
Azure Power India Pvt Ltd	Rajasthan	Private	Solar	33.70
Azure Power Maple Pvt Ltd	Rajasthan	Private	Solar	50.75
Azure Power Thirty Four Private Ltd	Rajasthan	Private	Solar	24.14
Clean Solar Power (Jodhpur) Pvt Ltd	Rajasthan	Private	Solar	52.47
Clean Solar Power (Bhadla) Pvt Ltd	Rajasthan	Private	Solar	62.11
Eden Renewable Cite Private Limited	Rajasthan	Private	Solar	63.01
M/S Adani Solar Energy Jodhpur Two Ltd	Rajasthan	Private	Solar	10.80
Mahindra Renewable Private Limited	Rajasthan	Private	Solar	50.78
Mega Surya Urja Pvt. Ltd	Rajasthan	Private	Solar	50.00
Nindan Solar Fatehgar	Rajasthan	Private	Solar	60.29
Renew Solar Energy (Jharkhand Three) Pvt Ltd	Rajasthan	Private	Solar	60.43
Renew Solar Power Pvt Ltd	Rajasthan	Private	Solar	10.19
Renew Solar Power Pvt Ltd. Bikaner	Rajasthan	Private	Solar	51.93
Renew Solar Urja Pvt Ltd	Rajasthan	Private	Solar	59.49
Renew Sun Bright Pvt Ltd	Rajasthan	Private	Solar	60.46
Renew Sun Waves Private Limited	Rajasthan	Private	Solar	60.92
Renew Surya Ravi Pvt Ltd	Rajasthan	Private	Solar	59.20
SBSR Power Cleantech Eleven Private Limited	Rajasthan	Private	Solar	54.98
Tata Power Green Energy Limited	Rajasthan	Private	Solar	43.97
Tata Power Renewable Energy Ltd	Rajasthan	Private	Solar	58.75
Tata Power Saurya 1	Rajasthan	Private	Solar	20.72
Thar Surya1 Private Limited	Rajasthan	Private	Solar	62.14
Adani Hybrid Energy Jaisalmer Four Limited	Rajasthan	Private	Wind	80.27

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Adani Hybrid Energy Jaisalmer One Limited	Rajasthan	Private	Wind	14.42
Adani Hybrid Energy Jaisalmer Three Limited	Rajasthan	Private	Wind	11.97
Adani Hybrid Energy Jaisalmer Two Limited	Rajasthan	Private	Wind	11.04
Adani Jaisalmer One SEPL Wind	Rajasthan	Private	Wind	20.72
Northern Region				2682.47
Arinsun Solar (Barsaitadesh)	Madhya Pradesh	Private	Solar	36.67
Mahindra Solar (Badwar)	Madhya Pradesh	Private	Solar	36.22
Masaya BWSPRA_KNDW	Madhya Pradesh	Private	Solar	25.06
Sherisha Raipur	Chhattisgarh	Private	Solar	5.62
Solapur Solar	Maharashtra	Central	Solar	1.39
Electro Solaire Private Limited (ESPL RSP Solar)	Gujarat	Private	Solar	41.12
Tata Power Renewable Energy Limited (TPREL RSP Solar)	Gujarat	Private	Solar	20.86
Gujarat Industries Power Company Limited (GIPCL RSP Solar)	Gujarat	Private	Solar	21.27
Powerica Wind	Gujarat	Private	Solar	11.75
NTPC Kawas	Gujarat	Central	Solar	5.23
Gujarat State Electricity Corporation Limited (GSECL)	Gujarat	Private	Solar	10.36
Gandhar_Solar	Gujarat	Private	Solar	1.82
GSECL RSP	Gujarat	Private	Solar	9.75
RPL_SECI-II	Gujarat	Private	Solar	44.87
AWEK1L WIND (RATADIYA)	Gujarat	Private	Wind	126.98
Adani Wind Energy Kutchh Four Limited (AWEK4L)	Gujarat	Private	Wind	44.17
Adani Wind Energy MP One Private Limited (AWEMP1PL)	Gujarat	Private	Wind	75.49
Alfnar Wind (Nanavalka)	Gujarat	Private	Wind	70.18
Green Infra Wind Energy Limited SECI-II (Giwel-II Wind (Vadva))	Gujarat	Private	Wind	59.79
Green Infra Wind Energy Limited SECI-III (Giwel-III Wind (Naranpar))	Gujarat	Private	Wind	68.58
Athena_RUM	Gujarat	Private	Wind	36.20
GSECL_PH2	Gujarat	Private	Wind	10.36

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Ostro Kutch Wind Private Limited (OKWPL)	Gujarat	Private	Wind	70.83
Renew Wind Energy (AP2) Private Limited (Ghadsisa)	Gujarat	Private	Wind	68.05
Avikiran Solar India Private Limited (ASIPL), Baranda	Gujarat	Private	Wind	42.03
Apraava Khkrda Jam	Gujarat	Private	Wind	27.04
IGESL Dayapar	Gujarat	Private	Wind	60.13
Netra Kotda	Gujarat	Private	Wind	22.00
Torrent Sidpur Jam	Gujarat	Private	Wind	22.24
SITAC	Gujarat	Private	Wind	85.96
SRIJAN	Gujarat	Private	Wind	32.13
Western Region				1194.14
TUTICORIN				
Beetam(Tuticorin)	Tamil Nadu	Private	Wind	75.86
GRTJIPL	Tamil Nadu	Private	Solar	27.48
Mytra	Tamil Nadu	Private	Wind	74.60
Orange	Tamil Nadu	Private	Wind	59.72
Green Infra	Tamil Nadu	Private	Wind	77.79
Hiriyur Ostro	Tamil Nadu	Private	Wind	104.74
Sprng Renewable Energy Pvt Ltd(Pugalur)	Tamil Nadu	Private	Wind	80.97
JSW Renew Energy Two Limited (Tuticorin)	Tamil Nadu	Private	Wind	69.48
Ettayapuram	Tamil Nadu	Central	Solar	41.91
Southern Region				612.55
All India Total				4489.16

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) September'2023	RE Generation(MU) September'2022	RE Generation(MU) April 2023- September 2023	RE Generation(MU) April 2022- September 2022
NTPC							
Faridabad_Solar	Haryana	5.00	Solar	0.66	0.40	3.46	3.39
Bhadla	Rajasthan	260.00	Solar	34.07	37.86	220.12	219.84
Jetsar	Rajasthan	160.00	Solar	29.95	32.23	195.35	193.20
Fatehgarh	Rajasthan	296.00	Solar	60.79	68.01	392.74	324.40
Devikot	Rajasthan	240.00	Solar	46.41	0.00	290.46	0.00
Nokhra	Rajasthan	200.00	Solar	57.88	0.00	355.23	0.00
Dadri_Solar	Uttar Pradesh	5.00	Solar	0.47	0.44	3.21	3.34
Unchahar_Solar	Uttar Pradesh	10.00	Solar	1.03	1.00	7.16	7.14
Singrauli_Solar	Uttar Pradesh	15.00	Solar	1.87	1.44	10.55	10.43
Auraiya	Uttar Pradesh	40.00	Solar	5.58	4.45	37.77	19.82
Small Hydro Vindhyachal	Uttar Pradesh	8.00	Small Hydro	3.63	3.22	21.06	16.47
Rojmal	Gujarat	50.00	Wind	8.14	6.06	64.17	67.26
Rajgarh_Solar	Madhya Pradesh	50.00	Solar	4.78	5.55	33.51	36.05
Mandsaur	Madhya Pradesh	250.00	Solar	25.07	29.05	177.59	187.96
Solapur	Maharashtra	10.00	Solar	1.39	0.00	9.06	0.00
Anantapuram	Andhra Pradesh	250.00	Solar	96.37	28.32	192.65	188.09
Ramagundam	Telangana	110.00	Solar	14.22	15.28	103.39	75.18
Andaman Nicobar	Andaman Nicobar	5.00	Solar	0.00	0.40	2.34	2.61
Talchar_Solar	Orissa	10.00	Solar	0.86	0.98	6.20	6.53
Solar_Bilhaur	Uttar Pradesh	225.00	Solar	36.70	37.57	236.74	262.87
Simhadri Floating Project	Andhra Pradesh	25.00	Solar	3.58	3.84	27.70	24.73
Kayamkulam	Kerala	92.00	Solar	15.50	17.06	105.72	64.96
Kawas	Gujarat	56.00	Solar	5.26	6.76	46.51	21.91
Gandhar	Gujarat	10.00	Solar	1.45	0.80	13.94	1.00

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) September'2023	RE Generation(MU) September'2022	RE Generation(MU) April 2023- September 2023	RE Generation(MU) April 2022- September 2022
Shambu ki Burj-I	Rajasthan	250.00	Solar	50.23	51.43	318.34	88.34
Shambu ki Burj-II	Rajasthan	150.00	Solar	32.90	0.57	200.59	0.57
Ettayapuram	Tamil Nadu	230.00	Solar	41.75	0.00	253.46	0.00
Total NTPC		3012.00		580.54	352.72	3329.02	1826.09
THDC							
Patan Wind Power Project	Gujarat	50.00	Wind	5.32	4.49	47.75	51.61
Devbhumi Dwarka Wind Power Project	Gujarat	63.00	Wind	9.83	6.88	80.35	85.36
Solar Kasaragod	Kerala	50.00	Solar	6.58	7.53	44.74	39.96
Rishikesh office Premises	Uttar Pradesh	0.50	Solar	0.04	0.04	0.26	0.28
Dhukwan SHEP Jhansi,UP	Uttar Pradesh	24.00	Small Hydro	9.30	12.73	31.76	38.14
Total THDC		187.50		31.07	31.67	204.86	215.35
NHPC							
Wind Power Project	Rajasthan	50.00	Wind	4.17	6.10	37.53	52.72
Solar Power Project	Tamilnadu	50.00	Solar	7.45	8.03	41.11	46.53
Total NHPC		100.00		11.63	14.12	78.64	99.24
ONGC							
Bhuj	Gujarat	51.00	Wind	0.75	5.02	12.27	55.15
Jaisalmer	Rajasthan	102.00	Wind	7.70	10.12	73.70	95.41
Assam	Assam	1.00	Roof Top	0.00	0.11	0.15	0.63
Assam	Assam	10.00	Ground Mounted	0.01	0.13	1.58	0.71
Tripura	Tripura	5.00	Roof Top	0.00	0.00	0.72	0.14
Rajahmundry,Base Complex	Andhra Pradesh	5.00	Ground Mounted	0.00	0.07	0.84	0.46
Tati Paka, Rajahmundry	Andhra Pradesh	1.00	Ground Mounted	0.50	0.52	2.31	3.53

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) September'2023	RE Generation(MU) September'2022	RE Generation(MU) April 2023- September 2023	RE Generation(MU) April 2022- September 2022
Cauvery	Tamil Nadu	1.09	Ground Mounted	0.00	0.00	0.13	0.00
Vagara, Ankleshwar	Gujarat	5.00	Ground Mounted	0.60	0.66	3.36	4.36
Gujarat	Gujarat	4.23	Roof Top	0.00	0.44	0.48	2.54
Jodhpur	Rajasthan	1.65	Ground Mounted	0.00	0.14	0.15	0.83
Jaisalmer	Rajasthan	1.24	Ground Mounted	0.00	0.11	0.15	0.75
Uttarakhand	Uttarakhand	0.25	Roof Top	0.00	0.00	0.02	0.10
Goa	Goa	0.29	Ground Mounted	0.02	0.01	0.19	0.04
Hazira	Gujarat	0.27	Ground Mounted	0.00	0.94	0.01	6.91
Hazira	Gujarat	0.30	Ground Mounted	0.00	0.00	0.04	0.00
Mumbai (Uran & NBP Green Heights)	Maharashtra	0.06	Roof Top	0.00	0.00	0.01	0.00
DDU, Bhawan, Delhi	Delhi	0.16	Roof Top	0.00	0.03	0.03	0.15
ONGC Colony Noida	Uttar Pradesh	0.16	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
Total ONGC		190.68		9.58	18.28	96.13	171.72
SJVN Limited							
Khirvire Wind Power	Maharashtra	47.60	Wind	6.37	3.13	42.29	42.75
Sadla Wind Power	Gujarat	50.00	Wind	8.19	5.59	69.85	61.92
Charanka Solar Power	Gujarat	5.60	Solar	0.69	0.63	4.05	3.80
Wadhwa Solar Power Project	Gujarat	1.00	Solar	0.10	0.09	0.52	0.77
Parasan Solar Power	Gujarat	75.00	Solar	12.03	0.00	81.83	0.00

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) September'2023	RE Generation(MU) September'2022	RE Generation(MU) April 2023- September 2023	RE Generation(MU) April 2022- September 2022
Total SJVN		179.20		27.39	9.44	198.53	109.24
Oil India Ltd							
Oil India Ltd	Rajasthan	14.00	Solar	1.95	2.09	12.66	12.37
Oil India Ltd	Rajasthan	67.60	Wind	2.94	6.71	39.27	55.64
Oil India Ltd	Gujarat	43.30	Wind	7.65	5.56	55.86	56.07
Oil India Ltd	Madhya Pradesh	63.20	Wind	9.28	8.67	63.59	66.10
Total Oil India Ltd		188.10		21.82	23.03	171.37	190.17
NEEPCO							
NEEPCO	Tripura	5.00	Solar	0.28	0.51	1.98	3.11
NEEPCO	Assam	25.00	Small Hydro	18.93	0.00	72.84	0.00
NEEPCO Total		30.00		19.21	0.51	74.83	3.11
DVC							
DVC	West Bangal	0.08	Solar	0.01	0.01	0.03	0.05
DVC	Jharkhand	4.00	Small Hydro	0.00	0.00	0.00	0.00
Total DVC		4.08		0.01	0.01	0.03	0.05
All India Total		3891.64		701.24	449.79	4153.41	2614.97

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 September 2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Northern Region					
ABC RENEWABLE ENERGY	Solar	66.24	65.13	-1.11	-1.68
Acme Heergharh Powertech Pvt Ltd	Solar	59.45	60.26	0.80	1.35
Acme Chittorgarh Energy Pvt Ltd.	Solar	50.49	50.67	0.18	0.36
Adani Hybrid Energy Jaisalmer One Limited	Solar	101.48	93.45	-8.03	-7.91
Adani Hybrid Energy Jaisalmer Four Limited	Solar	229.16	232.01	2.84	1.24
Adani Hybrid Energy Jaisalmer Three Limited	Solar	92.51	85.55	-6.95	-7.52
Adani Hybrid Energy Jaisalmer Two Limited	Solar	92.40	86.45	-5.95	-6.44
Adani Renewable Energy RJ Limited (RERJL)	Solar	37.48	39.68	2.19	5.86
Adani Jaisalmer One SEPL Solar	Solar	117.67	111.13	-6.54	-5.56
M/S Adani Solar Energy Jodhpur Two Ltd	Solar	10.18	10.80	0.63	6.17
Adani SB Energy Four Pvt. Ltd.(SE4PL(Kilaj Solar))	Solar	9.83	10.42	0.59	5.99
Adani SEJ5PL	Solar	39.85	39.87	0.02	0.06
Adani SERJ1PL	Solar	61.79	59.27	-2.52	-4.08
AURAIYA SOLAR	Solar	6.54	5.58	-0.96	-14.71
Avaada RJHN Private Limited	Solar	49.22	47.68	-1.54	-3.13
Avaada Sunce Energy Private Limited	Solar	72.51	69.57	-2.94	-4.05
Avaada Sunrays Energy Private Limited	Solar	68.40	68.10	-0.30	-0.44
Avaada Sustainable RJ Project Private Ltd.	Solar	61.66	60.64	-1.02	-1.65
Ayana Renewable Power One Private Limited	Solar	60.22	61.47	1.24	2.06

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of September 2023						
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule	
Azure Power Forty One Private Limited	Solar	58.81	58.27	-0.53	-0.90	
Azure Power Forty Three Private Ltd	Solar	126.15	125.56	-0.60	-0.47	
Azure Power Maple Pvt Ltd	Solar	51.57	50.75	-0.82	-1.59	
Azure Power Thirty Four Private Ltd	Solar	23.77	24.14	0.36	1.53	
Azure Power India Pvt Ltd	Solar	33.58	33.70	0.12	0.37	
Clean Solar Power (Jodhpur) Pvt Ltd	Solar	53.68	52.47	-1.21	-2.26	
Clean Solar Power (Bhadla) Pvt Ltd	Solar	62.73	62.11	-0.61	-0.98	
DADRI SOLAR	Solar	0.59	0.51	-0.09	-14.64	
DEVIKOT SOLAR	Solar	47.84	46.45	-1.39	-2.90	
Eden Renewable Cite Private Limited	Solar	64.93	63.01	-1.91	-2.95	
KOLYAT SOLAR BIKANER	Solar	81.64	83.21	1.57	1.92	
Mahindra Renewable Private Limited	Solar	52.25	50.78	-1.47	-2.81	
Mega Surya Urja Pvt. Ltd	Solar	49.82	50.00	0.18	0.36	
Nindan Solar Fatehgar	Solar	60.41	60.29	-0.12	-0.19	
Nokhra Solar	Solar	60.32	57.76	-2.56	-4.25	
Renew Solar Energy (Jharkhand Three) Pvt Ltd	Solar	62.91	60.43	-2.48	-3.95	
Renew Solar Power Pvt Ltd	Solar	10.33	10.19	-0.15	-1.42	
Renew Solar Urja Pvt Ltd	Solar	60.92	59.49	-1.44	-2.36	
Renew Sun Bright Pvt Ltd	Solar	61.33	60.46	-0.87	-1.42	
Renew Sun Waves Private Limited	Solar	62.93	60.92	-2.00	-3.18	
Renew Surya Ravi Pvt Ltd	Solar	59.66	59.20	-0.45	-0.76	
Renew Solar Power Pvt Ltd. Bikaner	Solar	51.62	51.93	0.31	0.60	
SBSR Power Cleantech Eleven Private Limited	Solar	54.48	54.98	0.50	0.91	
SINGRAULI SOLAR	Solar	1.74	1.51	-0.23	-13.21	
Tata Power Green Energy Limited	Solar	45.44	43.97	-1.47	-3.23	
Tata Power Renewable Energy Ltd	Solar	60.97	58.75	-2.22	-3.64	
Thar Surya1 Private Limited	Solar	59.92	62.14	2.22	3.70	

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of September 2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Tata Power Saurya	Solar	22.72	20.72	-2.00	-8.79
Unchahar Solar	Solar	0.71	1.04	0.34	47.59
Total Northern Region		2730.85	2682.46		
Western Region					
Arinsun Solar (Barsaitadesh)	Solar	39.44	36.67	-2.77	-7.02
Mahindra Solar (Badwar)	Solar	39.47	36.22	-3.25	-8.23
Masaya BWSPRA_KNDW	Solar	28.35	25.06	-3.29	-11.60
Sherisha Raipur	Solar	6.36	5.62	-0.74	-11.64
Solarpur Solar	Solar	1.50	1.39	-0.11	-7.33
Electro Solaire Private Limited (ESPL RSP Solar)	Solar	41.26	41.12	-0.14	-0.34
Tata Power Renewable Energy Limited (TPREL RSP Solar)	Solar	20.61	20.86	0.25	1.21
Gujarat Industries Power Company Limited (GIPCL RSP Solar)	Solar	20.61	21.72	1.11	5.39
Powerica Wind	Solar	12.89	11.75	-1.14	-8.84
NTPC Kawas	Solar	6.06	5.23	-0.83	-13.70
Gujarat State Electricity Corporation Limited (GSECL)	Solar	11.01	10.36	-0.65	-5.90
GSECL RSP	Solar	8.82	9.75	0.93	10.54
RPL_SECI-II	Solar	52.29	44.87	-7.42	-14.19
Gandhar_Solar	Solar	2.10	1.82	-0.28	-13.33
AWEK1L	Wind	149.60	126.98	-22.62	-15.12
Adani Wind Energy Kutchh Four Limited (AWEK4L)	Wind	46.43	44.17	-2.26	-4.87
Adani Wind Energy MP One Private Limited (AWEMP1PL)	Wind	85.24	75.49	-9.75	-11.44
Alfnar Wind (Nanavalka)	Wind	77.33	70.18	-7.15	-9.25
Green Infra Wind Energy Limited SECI-II (Giwel-II Wind (Vadva))	Wind	66.28	59.79	-6.49	-9.79
Green Infra Wind Energy Limited SECI-III (Giwel-III Wind (Naranpar))	Wind	75.48	68.58	-6.90	-9.14
Athena_RUM	Wind	39.15	36.20	-2.95	-7.54

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of September 2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Ostro Kutch Wind Private Limited (OKWPL)	Wind	78.99	70.83	-8.16	-10.33
Renew Wind Energy (AP2) Private Limited (Ghadsisa)	Wind	75.66	68.05	-7.61	-10.06
Avikiran Solar India Private Limited (ASIPL), Baranda	Wind	44.48	42.03	-2.45	-5.51
Apraava Khkrda Jam	Wind	29.09	27.04	-2.05	-7.05
IGESL Dayapar	Wind	77.97	60.13	-17.84	-22.88
Netra Kotda	Wind	24.85	22.00	-2.85	-11.47
Torrent Sidpur Jam	Wind	25.51	22.24	-3.27	-12.82
SRIJAN_MORJAR	Wind	35.57	32.13	-3.44	-9.67
SITAC_CHUGGER	Wind	90.20	85.96	-4.24	-4.70
Total Western Region		1312.60	1184.24		
Southern Region					
Beetam(Tuticorin)	Wind	78.37	75.86	-2.51	-3.20
GIREL	Wind	82.49	77.79	-4.70	-5.70
Mytra	Wind	80.58	74.60	-5.98	-7.42
Orange	Wind	64.50	59.72	-4.78	-7.41
Sprng Renewable Energy Pvt Ltd(Pugalur)	Wind	97.79	80.97	-16.82	-17.20
GRTJIPL	Wind	29.01	27.48	-1.53	-5.27
JSW Renew Energy Two Limited (Tuticorin)	Wind	71.62	69.48	-2.14	-2.99
Ostro Hiriyur	Wind	109.64	104.74	-4.90	-4.47
NTPC-Ettayapuram,(Solar PV), Tuticorin	Solar	43.89	41.91	-1.98	-4.51
Total Southern Region		657.89	612.55		

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 September 2023

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Month of September 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	0.78	0.78	0.78	100.00
Delhi	0.00	468.89	0.00	0.00	63.69	63.69	532.58	11.96
Haryana	2535.75	23.29	0.00	0.00	156.53	156.53	2715.57	5.76
HP	0.00	0.00	0.00	4733.81	348.98	5082.79	5082.79	100.00
J & K	0.00	0.00	0.00	1685.58	25.89	1711.47	1711.47	100.00
Ladakh	0.00	0.00	0.00	60.04	0.00	60.04	60.04	100.00
Punjab	2714.39	0.00	0.00	541.49	439.28	980.77	3695.16	26.54
Rajasthan	5035.32	105.34	560.45	96.26	3861.79	4518.50	9659.16	46.78
Uttar Pradesh	13657.59	170.16	294.79	108.22	351.43	754.44	14582.19	5.17
Uttarakhand	0.00	0.00	0.00	1740.41	77.81	1818.22	1818.22	100.00
Northern Region Total	23943.05	767.68	855.24	8965.81	5326.18	15147.23	39857.96	38.00
WESTERN REGION								
Chhattisgarh	12924.09	0.00	0.00	55.27	226.27	281.54	13205.63	2.13
Gujarat	6923.22	880.77	803.87	769.40	2997.92	4571.19	12375.18	36.94
Madhya Pradesh	11656.55	0.00	0.00	904.67	738.91	1643.58	13300.13	12.36
Maharashtra	10378.20	310.65	782.89	423.34	1421.64	2627.87	13316.72	19.73
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	2.28	2.28	2.28	100.00
Goa	0.00	0.00	0.00	0.00	5.44	5.44	5.44	100.00
Western Region Total	41882.06	1191.42	1586.76	2152.68	5392.46	9131.90	52205.38	17.49
SOUTHERN REGION								
Andhra Pradesh	5828.40	0.00	0.00	117.75	1679.40	1797.15	7625.55	23.57
Telangana	4281.95	0.00	0.00	153.33	504.46	657.79	4939.74	13.32

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Month of September 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)			
Karnataka	3504.09	0.00	653.77	825.63	2622.00	4101.40	7605.49	53.93
Kerala	0.00	0.00	0.00	260.61	224.17	484.78	484.78	100.00
Tamil Nadu	5624.10	164.72	1430.00	390.79	3795.93	5616.72	11405.54	49.25
Lakshadweep	4.85	0.00	0.00	0.00	0.01	0.01	4.86	0.16
Puducherry	0.00	20.81	0.00	0.00	1.02	1.02	21.83	4.67
Southern Region Total	19243.39	185.53	2083.77	1748.11	8826.99	12658.87	32087.79	39.45
EASTERN REGION								
Andaman Nicobar	25.13	0.00	0.00	0.00	2.70	2.70	27.83	9.70
Bihar	4960.45	0.00	0.00	0.00	11.72	11.72	4972.17	0.24
Jharkhand	3134.36	0.00	0.00	31.81	1.47	33.28	3167.64	1.05
Orissa	5208.15	0.00	0.00	707.32	132.43	839.75	6047.90	13.88
Sikkim	0.00	0.00	0.00	1505.92	1.03	1506.95	1506.95	100.00
West Bengal	7037.77	0.00	0.00	350.68	152.00	502.68	7540.45	6.67
Eastern Region Total	20365.86	0.00	0.00	2595.73	301.34	2897.07	23262.93	12.45
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	492.12	0.24	492.36	492.36	100.00
Assam	428.35	254.16	0.00	129.70	33.09	162.79	845.30	19.26
Manipur	0.00	0.00	0.00	69.72	0.64	70.36	70.36	100.00
Meghalaya	0.00	0.00	0.00	123.24	7.03	130.27	130.27	100.00
Mizoram	0.00	0.00	0.00	12.16	8.26	20.42	20.42	100.00
Nagaland	0.00	0.00	0.00	33.48	13.47	46.95	46.95	100.00
Tripura	0.00	559.05	0.00	0.00	0.28	0.28	559.33	0.05
North Eastern Region Total	428.35	813.21	0.00	860.42	63.01	923.43	2164.99	42.65
All India Total	105862.71	2957.84	4525.77	16322.75	19909.97	40758.49	149579.04	27.25

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

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Period of April-September 2023								
State/UT	Fossil		Non Fossil			Total Renewable (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)			
	(1)							
NORTHERN REGION								
Chandigarh	0.00	0.00	0.00	0.00	7.54	7.54	7.54	100.00
Delhi	0.00	1912.96	0.00	0.00	348.46	348.46	2261.42	15.41
Haryana	14621.63	119.11	0.00	0.00	742.59	742.59	15483.33	4.80
HP	0.00	0.00	0.00	26718.14	1877.42	28595.56	28595.56	100.00
J & K	0.00	0.00	0.00	11915.36	285.47	12200.83	12200.83	100.00
Ladakh	0.00	0.00	0.00	277.73	0.00	277.73	277.73	100.00
Punjab	16880.25	0.00	0.00	2859.53	2675.59	5535.12	22415.37	24.69
Rajasthan	29011.18	762.45	3583.00	292.57	25285.47	29161.04	58934.67	49.48
Uttar Pradesh	79920.42	1246.97	1752.45	508.52	2825.79	5086.76	86254.15	5.90
Uttarakhand	0.00	294.81	0.00	9229.21	466.86	9696.07	9990.88	97.05
Northern Region Total	140433.48	4336.30	5335.45	51801.06	34515.19	91651.70	236421.48	38.77
WESTERN REGION								
Chhattisgarh	79862.59	0.00	0.00	185.49	1174.72	1360.21	81222.80	1.67
Gujarat	35202.55	4772.73	3077.82	2598.27	21884.97	27561.06	67536.34	40.81
Madhya Pradesh	71596.81	0.00	0.00	3799.83	5258.38	9058.21	80655.02	11.23
Maharashtra	65252.34	1826.08	4172.79	3276.90	9810.25	17259.94	84338.36	20.47
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	13.58	13.58	13.58	100.00
Goa	0.00	0.00	0.00	0.00	35.33	35.33	35.33	100.00
Western Region Total	251914.29	6598.81	7250.61	9860.49	38177.22	55288.32	313801.42	17.62
SOUTHERN REGION								
Andhra Pradesh	35805.16	0.00	0.00	742.02	10503.08	11245.10	47050.26	23.90
Telangana	26878.02	0.00	0.00	761.26	3627.05	4388.31	31266.33	14.04
Karnataka	20734.74	0.00	3748.49	5567.02	16341.28	25656.79	46391.53	55.30
Kerala	0.00	0.00	0.00	2799.12	1162.19	3961.31	3961.31	100.00

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Period of April-September 2023								
State/UT	Fossil		Non Fossil			Total Renewable (6)=((3)+(4)+(5))	Grand Total (7)=((1)+(2)+(3)+(4)+(5))	Non Fossil as % of Total Generation
	Thermal (1) (1)	Gas (2)	Nuclear (3)	Large Hydro (4)	Renewable (Excluding Large Hydro) (5)			
Tamil Nadu	35583.65	1012.43	6733.97	1946.65	19784.66	28465.28	65061.36	43.75
Lakshadweep	32.15	0.00	0.00	0.00	0.05	0.05	32.20	0.14
Puducherry	0.00	124.99	0.00	0.00	6.12	6.12	131.11	4.67
Southern Region Total	119033.72	1137.42	10482.46	11816.07	51424.43	73722.96	193894.10	38.02
EASTERN REGION								
Andaman Nicobar	167.85	0.00	0.00	0.00	16.84	16.84	184.69	9.12
Bihar	29663.51	0.00	0.00	0.00	130.79	130.79	29794.30	0.44
Jharkhand	17585.37	0.00	0.00	69.36	8.82	78.18	17663.55	0.44
Orissa	31074.87	0.00	0.00	3411.40	650.65	4062.05	35136.92	11.56
Sikkim	0.00	0.00	0.00	7959.03	6.18	7965.21	7965.21	100.00
West Bengal	44745.58	0.00	0.00	1797.68	953.50	2751.18	47496.76	5.79
Eastern Region Total	123237.18	0.00	0.00	13237.47	1766.78	15004.25	138241.43	10.85
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	2879.06	1.48	2880.54	2880.54	100.00
Assam	2637.28	1706.43	0.00	283.90	195.78	479.68	4823.39	9.94
Manipur	0.00	0.00	0.00	133.12	5.15	138.27	138.27	100.00
Meghalaya	0.00	0.00	0.00	546.83	32.51	579.34	579.34	100.00
Mizoram	0.00	0.00	0.00	44.39	49.56	93.95	93.95	100.00
Nagaland	0.00	0.00	0.00	126.53	51.98	178.51	178.51	100.00
Tripura	0.00	3335.49	0.00	0.00	2.52	2.52	3338.01	0.08
North Eastern Region Total	2637.28	5041.92	0.00	4013.83	338.98	4352.81	12032.01	36.18
All India Total	637255.95	17114.45	23068.52	90728.92	126222.59	240020.03	894390.43	26.84

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

Renewable Energy (State Wise) Generation(MU) for the Month of September 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	0.78	0.78	0.78	100.00
Delhi	0.00	468.89	0.00	0.00	63.69	63.69	532.58	11.96
Haryana	2535.75	23.29	0.00	0.00	156.53	156.53	2715.57	5.76
HP	0.00	0.00	0.00	4733.81	348.98	5082.79	5082.79	100.00
J & K	0.00	0.00	0.00	1685.58	25.89	1711.47	1711.47	100.00
Ladakh	0.00	0.00	0.00	60.04	0.00	60.04	60.04	100.00
Punjab	2714.39	0.00	0.00	541.49	439.28	980.77	3695.16	26.54
Rajasthan	5035.32	105.34	560.45	96.26	3861.79	4518.50	9659.16	40.98
Uttar Pradesh	13657.59	170.16	294.79	108.22	351.43	754.44	14582.19	3.15
Uttarakhand	0.00	0.00	0.00	1740.41	77.81	1818.22	1818.22	100.00
Northern Region Total	23943.05	767.68	855.24	8965.81	5326.18	15147.23	39857.96	35.86
WESTERN REGION								
Chhattisgarh	12924.09	0.00	0.00	55.27	226.27	281.54	13205.63	2.13
Gujarat	6923.22	880.77	803.87	769.40	2997.92	4571.19	12375.18	30.44
Madhya Pradesh	11656.55	0.00	0.00	904.67	738.91	1643.58	13300.13	12.36
Maharashtra	10378.20	310.65	782.89	423.34	1421.64	2627.87	13316.72	13.85
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	2.28	2.28	2.28	100.00
Goa	0.00	0.00	0.00	0.00	5.44	5.44	5.44	100.00
Western Region Total	41882.06	1191.42	1586.76	2152.68	5392.46	9131.90	52205.38	14.45
SOUTHERN REGION								
Andhra Pradesh	5828.40	0.00	0.00	117.75	1679.40	1797.15	7625.55	23.57
Telangana	4281.95	0.00	0.00	153.33	504.46	657.79	4939.74	13.32
Karnataka	3504.09	0.00	653.77	825.63	2622.00	4101.40	7605.49	45.33

Renewable Energy (State Wise) Generation(MU) for the Month of September 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	260.61	224.17	484.78	484.78	100.00
Tamil Nadu	5624.10	164.72	1430.00	390.79	3795.93	5616.72	11405.54	36.71
Lakshadweep	4.85	0.00	0.00	0.00	0.01	0.01	4.86	0.16
Puducherry	0.00	20.81	0.00	0.00	1.02	1.02	21.83	4.67
Southern Region Total	19243.39	185.53	2083.77	1748.11	8826.99	12658.87	32087.79	32.96
EASTERN REGION								
Andaman Nicobar	25.13	0.00	0.00	0.00	2.70	2.70	27.83	9.70
Bihar	4960.45	0.00	0.00	0.00	11.72	11.72	4972.17	0.24
Jharkhand	3134.36	0.00	0.00	31.81	1.47	33.28	3167.64	1.05
Orissa	5208.15	0.00	0.00	707.32	132.43	839.75	6047.90	13.88
Sikkim	0.00	0.00	0.00	1505.92	1.03	1506.95	1506.95	100.00
West Bengal	7037.77	0.00	0.00	350.68	152.00	502.68	7540.45	6.67
Eastern Region Total	20365.86	0.00	0.00	2595.73	301.34	2897.07	23262.93	12.45
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	492.12	0.24	492.36	492.36	100.00
Assam	428.35	254.16	0.00	129.70	33.09	162.79	845.30	19.26
Manipur	0.00	0.00	0.00	69.72	0.64	70.36	70.36	100.00
Meghalaya	0.00	0.00	0.00	123.24	7.03	130.27	130.27	100.00
Mizoram	0.00	0.00	0.00	12.16	8.26	20.42	20.42	100.00
Nagaland	0.00	0.00	0.00	33.48	13.47	46.95	46.95	100.00
Tripura	0.00	559.05	0.00	0.00	0.28	0.28	559.33	0.05
North Eastern Region Total	428.35	813.21	0.00	860.42	63.01	923.43	2164.99	42.65
All India Total	105862.71	2957.84	4525.77	16322.75	19909.97	40758.49	149579.04	24.22

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

Renewable Energy (State Wise Generation(MU) for the Period of April-September 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	7.54	7.54	7.54	100.00
Delhi	0.00	1912.96	0.00	0.00	348.46	348.46	2261.42	15.41
Haryana	14621.63	119.11	0.00	0.00	742.59	742.59	15483.33	4.80
HP	0.00	0.00	0.00	26718.14	1877.42	28595.56	28595.56	100.00
J & K	0.00	0.00	0.00	11915.36	285.47	12200.83	12200.83	100.00
Ladakh	0.00	0.00	0.00	277.73	0.00	277.73	277.73	100.00
Punjab	16880.25	0.00	0.00	2859.53	2675.59	5535.12	22415.37	24.69
Rajasthan	29011.18	762.45	3583.00	292.57	25285.47	29161.04	58934.67	43.40
Uttar Pradesh	79920.42	1246.97	1752.45	508.52	2825.79	5086.76	86254.15	3.87
Uttarakhand	0.00	294.81	0.00	9229.21	466.86	9696.07	9990.88	97.05
Northern Region Total	140433.48	4336.30	5335.45	51801.06	34515.19	91651.70	236421.48	36.51
WESTERN REGION								
Chhattisgarh	79862.59	0.00	0.00	185.49	1174.72	1360.21	81222.80	1.67
Gujarat	35202.55	4772.73	3077.82	2598.27	21884.97	27561.06	67536.34	36.25
Madhya Pradesh	71596.81	0.00	0.00	3799.83	5258.38	9058.21	80655.02	11.23
Maharashtra	65252.34	1826.08	4172.79	3276.90	9810.25	17259.94	84338.36	15.52
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	13.58	13.58	13.58	100.00
Goa	0.00	0.00	0.00	0.00	35.33	35.33	35.33	100.00
Western Region Total	251914.29	6598.81	7250.61	9860.49	38177.22	55288.32	313801.42	15.31
SOUTHERN REGION								
Andhra Pradesh	35805.16	0.00	0.00	742.02	10503.08	11245.10	47050.26	23.90
Telangana	26878.02	0.00	0.00	761.26	3627.05	4388.31	31266.33	14.04
Karnataka	20734.74	0.00	3748.49	5567.02	16341.28	25656.79	46391.53	47.22
Kerala	0.00	0.00	0.00	2799.12	1162.19	3961.31	3961.31	100.00

Renewable Energy (State Wise Generation(MU) for the Period of April-September 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)			
Tamil Nadu	35583.65	1012.43	6733.97	1946.65	19784.66	28465.28	65061.36	33.40
Lakshadweep	32.15	0.00	0.00	0.00	0.05	0.05	32.20	0.14
Puducherry	0.00	124.99	0.00	0.00	6.12	6.12	131.11	4.67
Southern Region Total	119033.72	1137.42	10482.46	11816.07	51424.43	73722.96	193894.10	32.62
EASTERN REGION								
Andaman Nicobar	167.85	0.00	0.00	0.00	16.84	16.84	184.69	9.12
Bihar	29663.51	0.00	0.00	0.00	130.79	130.79	29794.30	0.44
Jharkhand	17585.37	0.00	0.00	69.36	8.82	78.18	17663.55	0.44
Orissa	31074.87	0.00	0.00	3411.40	650.65	4062.05	35136.92	11.56
Sikkim	0.00	0.00	0.00	7959.03	6.18	7965.21	7965.21	100.00
West Bengal	44745.58	0.00	0.00	1797.68	953.50	2751.18	47496.76	5.79
Eastern Region Total	123237.18	0.00	0.00	13237.47	1766.78	15004.25	138241.43	10.85
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	2879.06	1.48	2880.54	2880.54	100.00
Assam	2637.28	1706.43	0.00	283.90	195.78	479.68	4823.39	9.94
Manipur	0.00	0.00	0.00	133.12	5.15	138.27	138.27	100.00
Meghalaya	0.00	0.00	0.00	546.83	32.51	579.34	579.34	100.00
Mizoram	0.00	0.00	0.00	44.39	49.56	93.95	93.95	100.00
Nagaland	0.00	0.00	0.00	126.53	51.98	178.51	178.51	100.00
Tripura	0.00	3335.49	0.00	0.00	2.52	2.52	3338.01	0.08
North Eastern Region Total	2637.28	5041.92	0.00	4013.83	338.98	4352.81	12032.01	36.18
All India Total	637255.95	17114.45	23068.52	90728.92	126222.59	240020.03	894390.43	24.26

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

RE generation(MUs) data (source wise) for the month of September 2023 and September 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	Sept'23	Sept'22	Sept'23	Sept'22	Sept'23	Sept'22	Sept'23	Sept'22	Sept'23	Sept'22	Sept'23	Sept'22	Sept'23	Sept'22
NORTHERN REGION														
Chandigarh	0.00	0.00	0.78	0.19	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	22.64	0.00	0.00	0.00	0.00	0.00	0.00	46.48	22.23	0.00	0.00
Haryana	0.00	0.00	99.28	63.04	24.35	29.70	0.00	20.96	28.04	22.16	4.86	4.55	0.00	0.00
Himachal Pradesh	0.00	0.00	4.11	6.42	0.00	0.00	0.00	0.00	344.87	411.58	0.00	0.00	4733.81	5268.02
J & K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.89	45.29	0.00	0.00	1685.58	1842.42
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	60.04	54.59
Punjab	0.00	0.00	313.84	219.73	36.86	13.28	0.00	0.00	88.58	74.72	0.00	0.00	541.49	466.98
Rajasthan	563.54	488.82	3265.01	3049.90	32.89	34.13	0.00	0.00	0.36	0.01	0.00	0.00	96.26	95.98
Uttar Pradesh	0.00	0.00	309.84	273.12	3.26	0.00	8.99	3.74	22.23	31.31	7.10	5.59	108.22	96.40
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	1740.41	2183.36
Northern Region	563.54	488.82	4037.72	3662.69	97.36	77.11	29.70	45.41	539.41	614.52	58.44	32.37	8965.81	10007.75
WESTERN REGION														
Chhattisgarh	0.00	0.00	94.17	43.98	101.21	56.58	0.00	0.00	30.89	37.88	0.00	0.00	55.27	55.80
Gujarat	1974.44	1157.07	1005.11	775.12	0.00	0.00	0.00	0.00	18.37	24.03	0.00	0.00	769.40	1275.33
Madhya Pradesh	423.41	363.77	250.87	265.66	7.22	0.00	0.00	0.00	56.10	54.75	1.30	2.10	904.67	1378.74
Maharashtra	919.47	625.75	395.79	302.70	29.19	14.59	1.29	2.03	75.89	90.76	0.01	0.01	423.34	405.11

RE generation(MUs) data (source wise) for the month of September 2023 and September 2022

Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	Sept'23	Sept'22	Sept'23	Sept'22	Sept'23	Sept'22	Sept'23	Sept'22	Sept'23	Sept'22	Sept'23	Sept'22	Sept'23	Sept'22
Dadra and Nagar Haveli and Daman and Diu	0.00	0.00	1.16	1.25	1.12	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
Western Region	3317.32	2146.59	1751.86	1390.23	138.75	71.17	1.29	2.03	181.25	207.41	1.99	2.54	2152.68	3114.98
SOUTHERN REGION														
Andhra Pradesh	1016.72	741.12	628.49	622.19	0.48	2.92	1.60	3.08	8.22	47.79	23.89	25.99	117.75	615.97
Telangana	22.93	21.65	463.85	478.56	0.02	2.16	0.00	0.00	8.64	16.42	9.03	6.81	153.33	1348.26
Karnataka	1197.17	893.04	1134.95	1045.53	3.84	8.25	57.62	48.00	228.42	360.89	0.00	0.00	825.63	1280.30
Kerala	20.92	16.59	96.46	66.16	0.00	0.00	7.11	4.29	99.68	125.72	0.00	0.00	260.61	1023.95
Tamil Nadu	2712.23	2346.68	1007.69	839.18	12.23	10.31	41.08	61.99	22.69	33.27	0.00	0.00	390.79	721.55
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	4969.96	4019.08	3332.48	3052.64	16.57	23.64	107.41	117.36	367.65	584.08	32.92	32.80	1748.11	4990.03
EASTERN REGION														
Andaman Nicobar	0.00	0.00	1.08	1.94	0.00	0.00	0.00	0.00	1.62	1.60	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	10.24	9.98	0.00	0.00	0.17	0.00	1.32	2.68	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	1.47	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.81	91.43
Orissa	0.00	0.00	48.17	54.08	10.45	0.39	0.00	0.00	73.82	73.26	0.00	0.00	707.32	853.55

RE generation(MUs) data (source wise) for the month of September 2023 and September 2022

Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	Sept'23	Sept'22	Sept'23	Sept'22	Sept'23	Sept'22	Sept'23	Sept'22	Sept'23	Sept'22	Sept'23	Sept'22	Sept'23	Sept'22
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	1505.92	1654.10
West Bengal	0.00	0.00	8.61	9.13	0.00	0.00	0.00	0.00	22.19	20.71	121.20	136.70	350.68	397.36
Eastern Region	0.00	0.00	69.56	76.37	10.45	0.39	0.17	0.00	99.97	99.28	121.20	136.70	2595.73	2996.44
NORTH-EASTERN REGION														
Arunachal Pradesh	0.00	0.00	0.19	4.19	0.00	0.00	0.00	0.00	0.06	0.42	0.00	0.00	492.12	612.34
Assam	0.00	0.00	27.78	20.07	0.00	0.00	0.00	0.00	5.29	5.69	0.01	0.00	129.70	65.66
Manipur	0.00	0.00	0.64	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.72	54.95
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.03	5.42	0.00	0.00	123.24	117.77
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	12.16	27.31
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.47	14.73	0.00	0.00	33.48	29.33
Tripura	0.00	0.00	0.28	0.51	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	29.15	25.79	0.00	0.00	0.00	0.00	33.84	34.26	0.01	0.00	860.42	907.36
All India Total	8850.82	6654.49	9220.78	8207.73	263.13	172.31	138.56	164.80	1222.11	1539.55	214.56	204.41	16322.75	22016.56

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

RE generation(MUs) data (source wise) for the period of April-September2023 and April-September2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22
NORTHERN REGION														
Chandigarh	0.00	0.00	7.54	5.82	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	103.27	133.26	0.00	0.00	0.00	0.00	0.00	0.00	245.19	133.30	0.00	0.00
Haryana	0.00	0.00	393.80	378.24	158.06	178.20	51.24	125.76	109.49	132.96	30.00	27.30	0.00	0.00
Himachal Pradesh	0.00	0.00	29.62	33.56	0.00	0.00	0.00	0.00	1847.80	1732.47	0.00	0.00	26718.14	28012.45
J & K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	285.47	260.12	0.00	0.00	11915.36	12379.35
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	277.73	292.02
Punjab	0.00	0.00	1956.10	1111.96	275.70	208.60	44.04	44.78	399.75	400.81	0.00	0.00	2859.53	2367.10
Rajasthan	5407.76	4222.25	19700.84	16370.13	176.24	190.41	0.00	0.00	0.63	0.25	0.00	0.00	292.57	294.42
Uttar Pradesh	0.00	0.00	2076.03	1814.76	19.43	41.25	588.70	590.12	73.31	109.87	68.32	29.66	508.52	454.26
Uttarakhand	0.00	0.00	165.90	165.90	0.00	0.00	124.26	124.26	176.70	176.70	0.00	0.00	9229.21	9973.09
Northern Region	5407.76	4222.25	24433.09	20013.63	629.43	618.46	808.24	884.92	2893.15	2813.18	343.51	190.26	51801.06	53772.69
WESTERN REGION														
Chhattisgarh	0.00	0.00	386.60	243.22	693.27	552.91	4.55	0.60	90.29	96.31	0.00	0.00	185.49	142.16
Gujarat	15597.76	11680.04	6192.24	4662.77	0.00	0.00	0.00	2.86	94.97	89.63	0.00	2.24	2598.27	3604.28
Madhya Pradesh	3206.58	3016.76	1753.13	1959.09	44.66	6.94	9.93	22.15	232.50	146.97	11.59	17.94	3799.83	4066.12
Maharashtra	6123.87	5323.69	2691.04	1810.39	154.77	132.66	338.06	1077.71	502.38	426.26	0.13	0.32	3276.90	3343.45

RE generation(MUs) data (source wise) for the period of April-September2023 and April-September2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22
Dadra and Nagar Haveli and Daman and Diu	0.00	0.00	7.26	19.20	6.32	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	569.53
Goa	0.00	0.00	31.44	5.80	0.00	0.00	0.00	0.00	0.00	0.00	3.89	2.54	0.00	0.00
Western Region	24928.21	20020.49	11061.71	8700.46	899.01	695.72	352.55	1103.32	920.14	759.18	15.60	23.04	9860.49	11725.54
SOUTHERN REGION														
Andhra Pradesh	6138.82	5478.54	4115.71	4003.89	10.69	37.93	12.47	50.00	72.35	135.27	153.04	136.27	742.02	1868.11
Telangana	185.80	170.59	3333.37	3181.09	2.22	19.51	11.43	7.17	26.06	43.91	68.16	78.19	761.26	3341.67
Karnataka	7415.45	6448.73	7508.94	6671.21	34.25	67.32	549.73	645.53	832.90	1374.23	0.00	0.00	5567.02	6786.29
Kerala	177.08	87.62	554.02	326.29	0.00	0.00	40.69	31.18	390.38	546.67	0.02	0.00	2799.12	4829.76
Tamil Nadu	13365.86	13196.68	5971.91	4491.82	61.11	64.09	310.44	368.80	75.34	132.53	0.00	0.00	1946.65	3023.33
Lakshadweep	0.00	0.00	0.05	0.06	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	6.12	6.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Southern Region	27283.01	25382.17	21490.13	18680.48	108.27	188.85	924.76	1102.68	1397.03	2232.61	221.22	214.46	11816.07	19849.16
EASTERN REGION														
Andaman Nicobar	0.00	0.00	12.08	12.52	0.00	0.00	0.00	0.00	4.76	7.69	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	90.28	86.75	0.00	0.00	36.31	0.00	4.20	8.39	0.00	0.00	0.00	0.00

RE generation(MUs) data (source wise) for the period of April-September2023 and April-September2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22	April'23-September '23	April'22-September '22
Jharkhand	0.00	0.00	8.82	10.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	69.36	173.81
Orissa	0.00	0.00	355.81	327.72	46.16	17.69	0.00	0.00	248.69	242.52	0.00	0.00	3411.40	3034.72
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.18	6.18	0.00	0.00	7959.04	8532.36
West Bengal	0.00	0.00	67.31	59.78	0.00	0.00	0.00	0.00	112.16	103.97	774.03	820.38	1797.68	2030.06
Eastern Region	0.00	0.00	534.31	497.34	46.16	17.69	36.31	0.00	375.97	368.74	774.03	820.38	13237.48	13770.95
NORTH-EASTERN REGION														
Arunachal Pradesh	0.00	0.00	1.13	21.13	0.00	0.00	0.00	0.00	0.36	2.15	0.00	0.00	2879.06	3110.11
Assam	0.00	0.00	155.98	91.27	0.00	0.00	0.00	0.00	39.65	34.33	0.15	0.00	283.90	299.53
Manipur	0.00	0.00	3.92	4.23	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.01	133.12	354.53
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.51	49.60	0.00	0.00	546.83	704.93
Mizoram	0.00	0.00	1.59	1.62	0.00	0.00	0.00	0.00	47.96	11.09	0.00	0.00	44.39	104.98
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.98	56.47	0.00	0.00	126.53	130.88
Tripura	0.00	0.00	2.52	3.11	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	165.14	121.36	0.00	0.00	0.00	0.00	172.46	153.64	1.38	0.01	4013.83	4704.96
All India Total	57618.98	49624.91	57684.38	48013.27	1682.87	1520.73	2121.86	3090.92	5758.75	6327.35	1355.74	1248.14	90728.93	103823.30



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