



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

December-2023/ दिसंबर-2023

नवीकरणीय परियोजना प्रबोधन प्रभाग
Renewable Project Monitoring Division

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Highlights of RE GENERATION

1. RE capacity addition during December 2023 has been 1217.66 MW (Solar – 1006.77 MW, Wind – 172.56 MW, Large Hydro-30.00 MW and Others-8.33 MW).
2. RE generation during December 2023 has decreased by 5.17 % as compared to December 2022.
3. Large Hydro Power generation during December 2023 as compared to December 2022 has decreased by 28.21 %.
4. Solar Power generation during December 2023 as compared to December 2022 has increased by 4.72 % on All India basis except Punjab, Uttar Pradesh and Andhra Pradesh.
5. Wind Power generation during December 2023 as compared to December 2022 has increased by 27.95 % on All India basis in all States/UTs.
6. Biomass Power generation during December 2023 as compared to December 2022 has decreased by 5.88 %.
7. Bagasse power generation during December 2023 as compared to December 2022 has decreased by 7.88 %.
8. Others (Waste to Energy) Power generation has increased by 9.23 % during December 2023 as compared to December 2022 on All India basis except Haryana, Uttar Pradesh and West Bengal.
9. Small Hydro Power generation during December 2023 as compared to December 2022 has decreased by 21.90 %.
10. The generation from ISGS stations (Solar and wind plants) for the month of December is 3929.31 MUs which is 17.13 % of the Monthly RE generation during the month.
11. The generation from CPSUs for the month of December is 598.40 MUs which is 2.61 % of Monthly RE generation during the month.

All India RE Capacity Addition

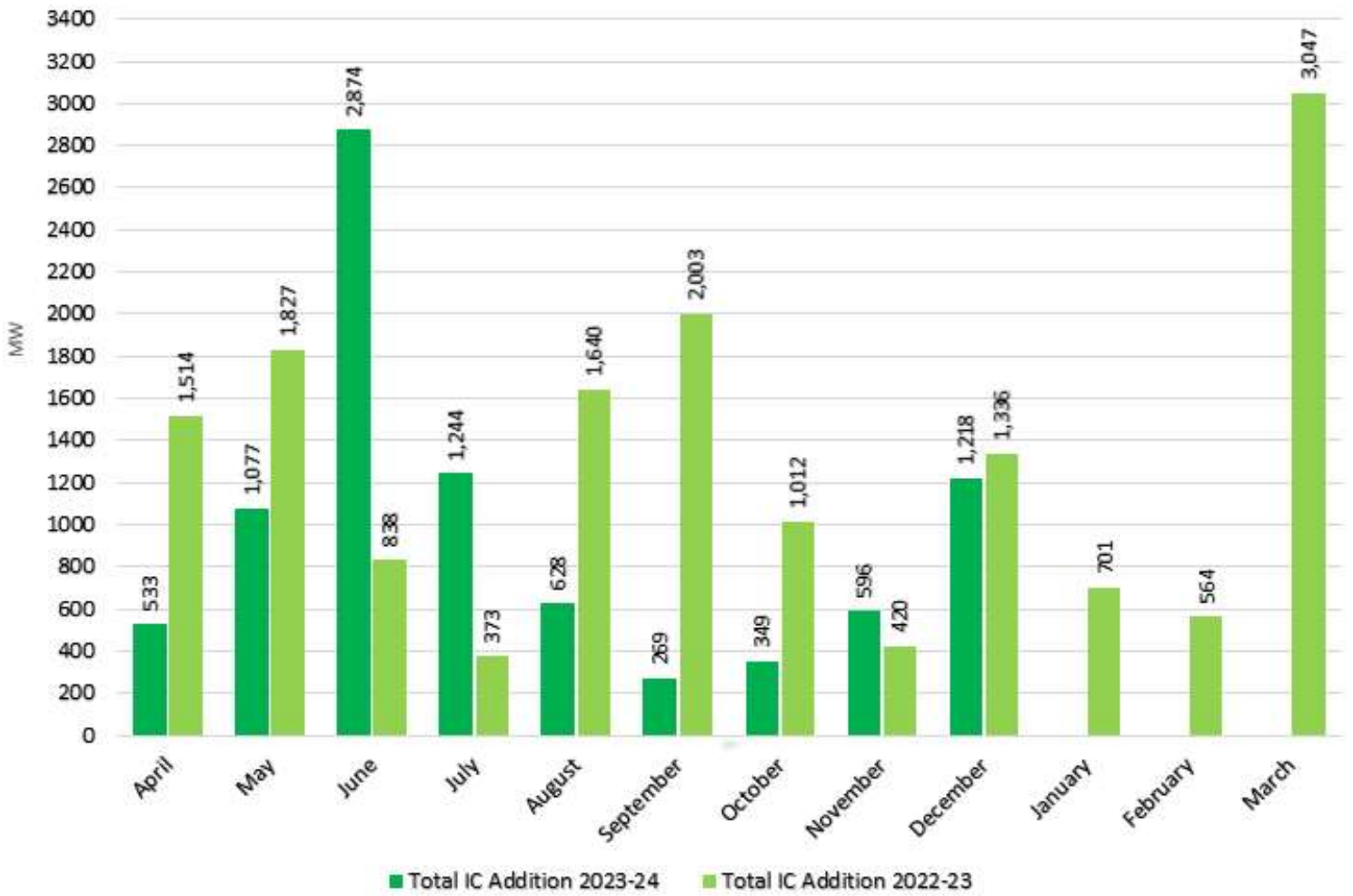


Figure 1: All India Month wise RE Capacity Addition

Month wise Solar IC addition

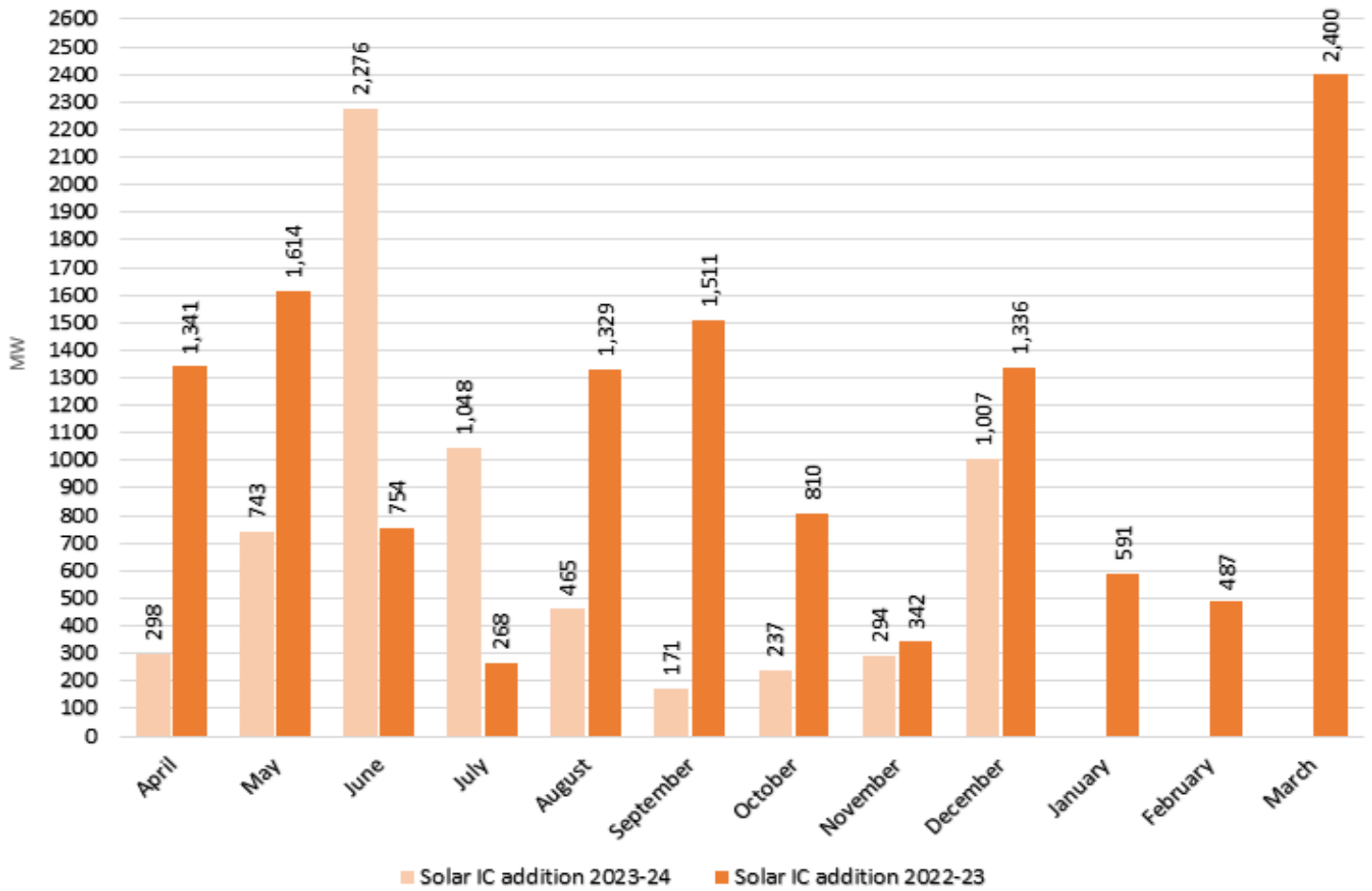


Figure 2: All India Month wise Solar Capacity Addition

Month wise Wind IC addition

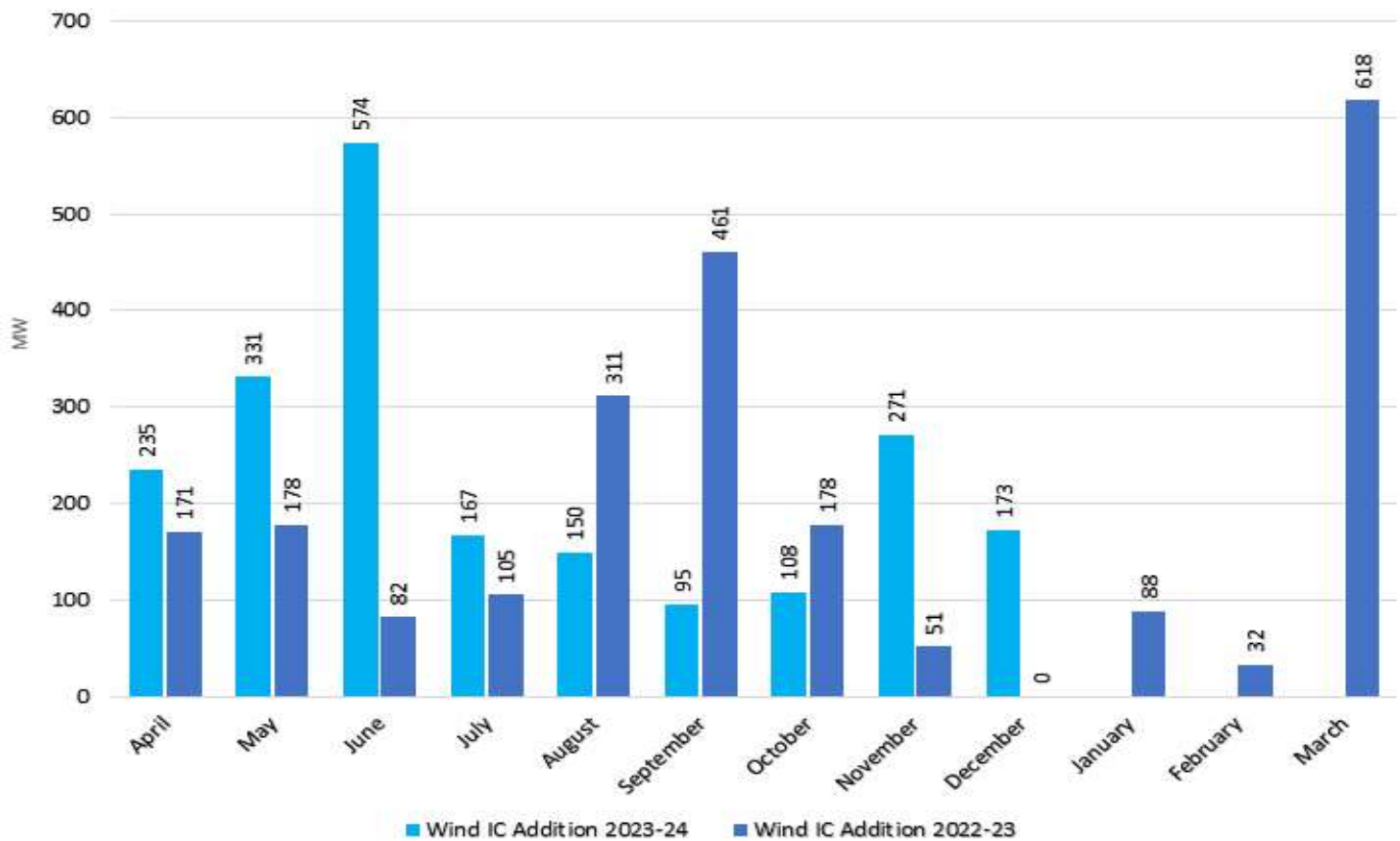


Figure 3: All India Month wise Wind Capacity Addition

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

Decreased by 12.27 % as compared to December 22.

Increased by 104.28 % as compared to November 23.

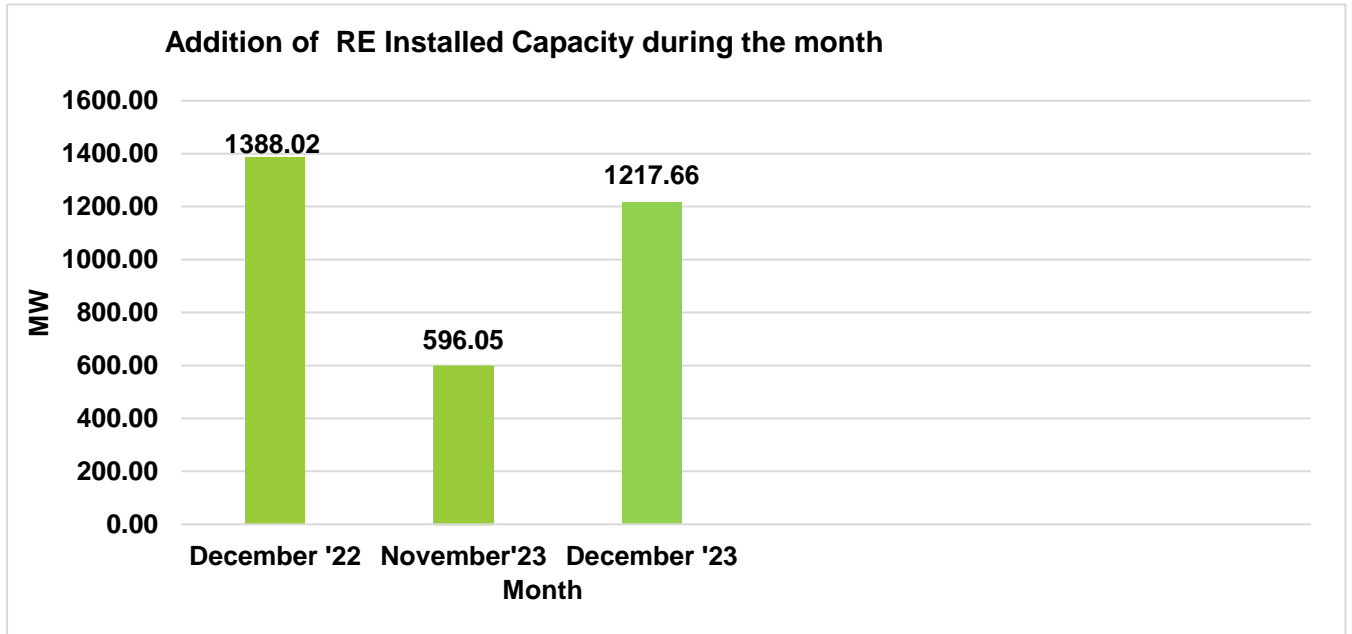


Figure 4: RE capacity added during the Month

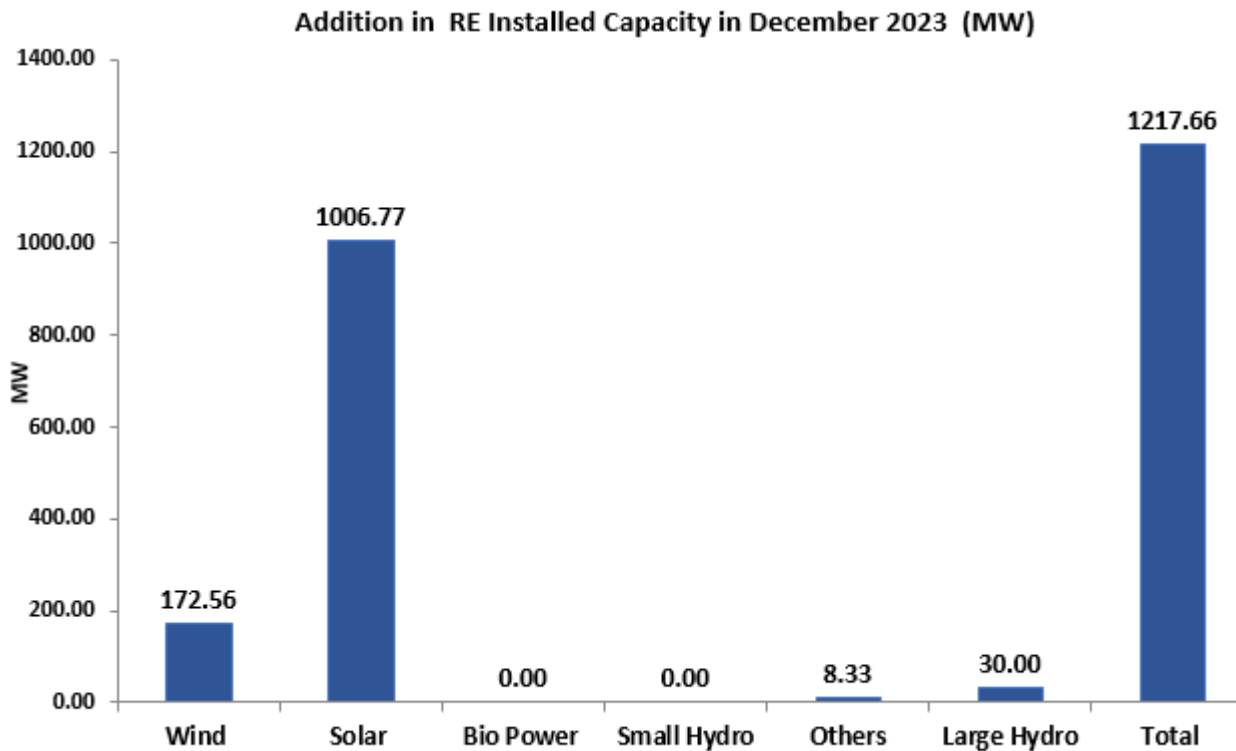


Figure 5: Source wise addition in RE Installed Capacity in December 23

All India Installed Capacity (428.30 GW) As On 31.12.2023 (RE 180.79 GW)

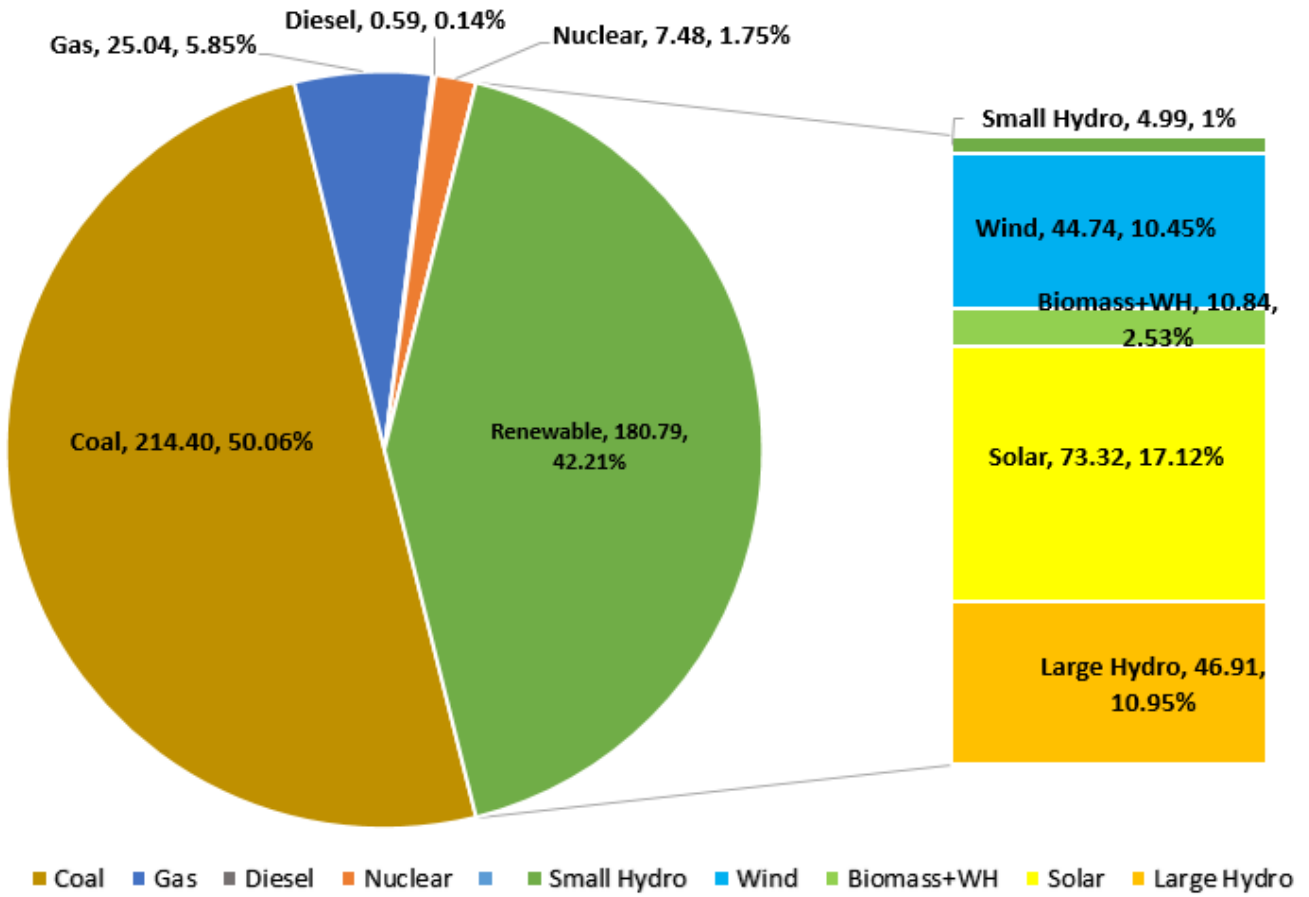


Figure 6: Installed Capacity in India as on 31.12.2023

All India Cumulative Energy Generation (1308.97 BU) (April- December 2023)

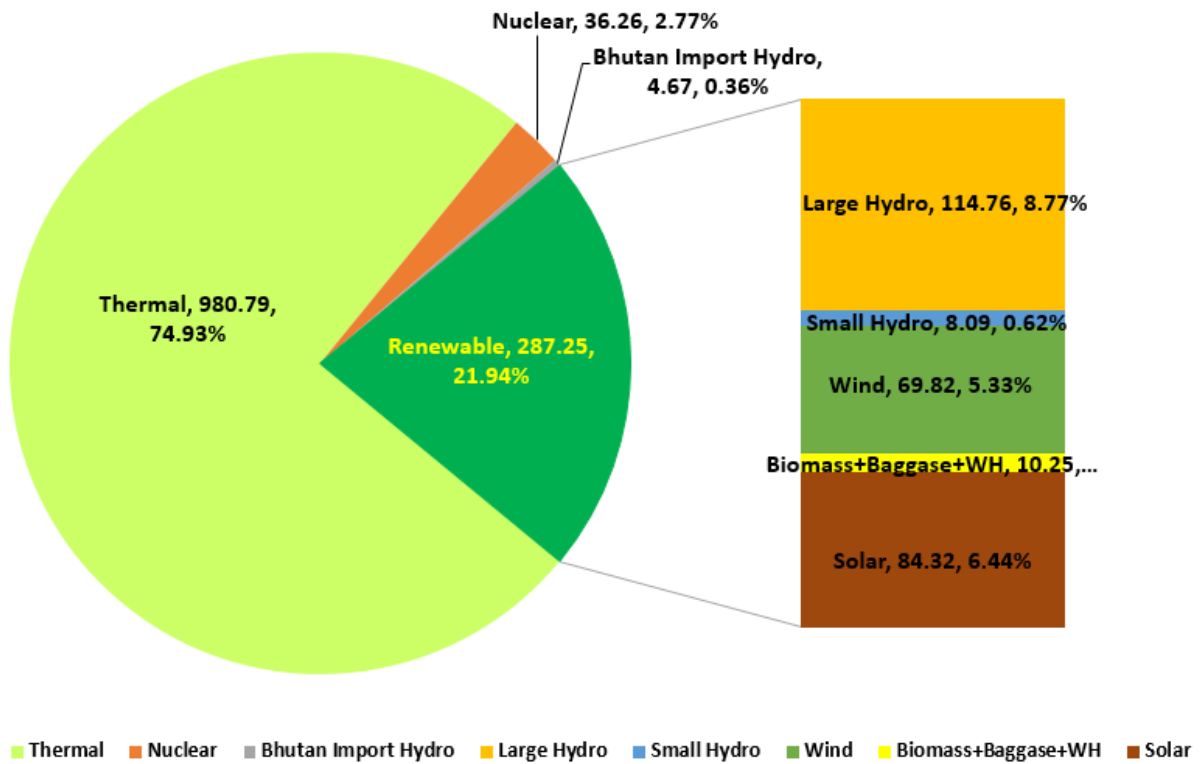


Figure 7: Cumulative Total Energy Generation in India and Share of RE for the year 2023-24

All India Monthly Energy Generation (132.71 BU) December 2023

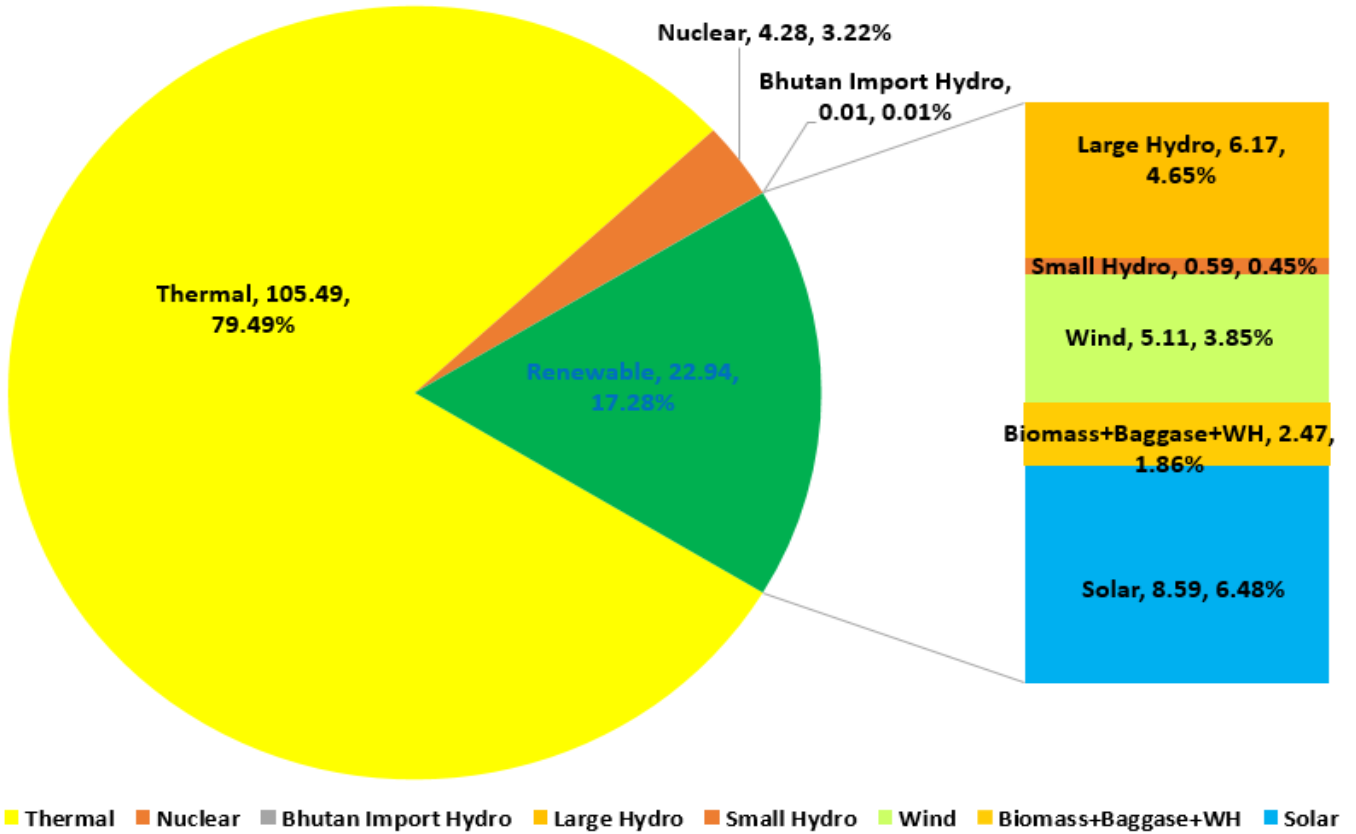


Figure 8: Total Energy Generation in India and Share of RE in the month of December 2023

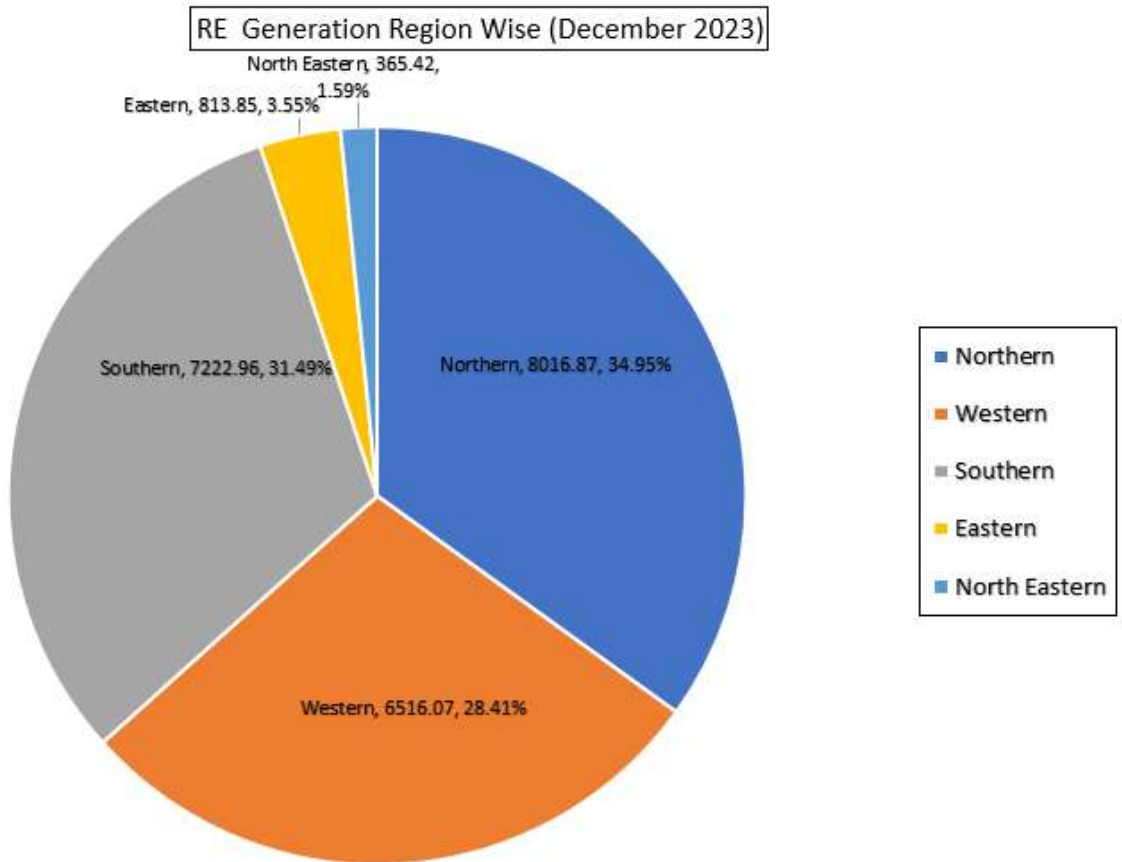


Figure 9: RE Generation Region Wise of December -2023

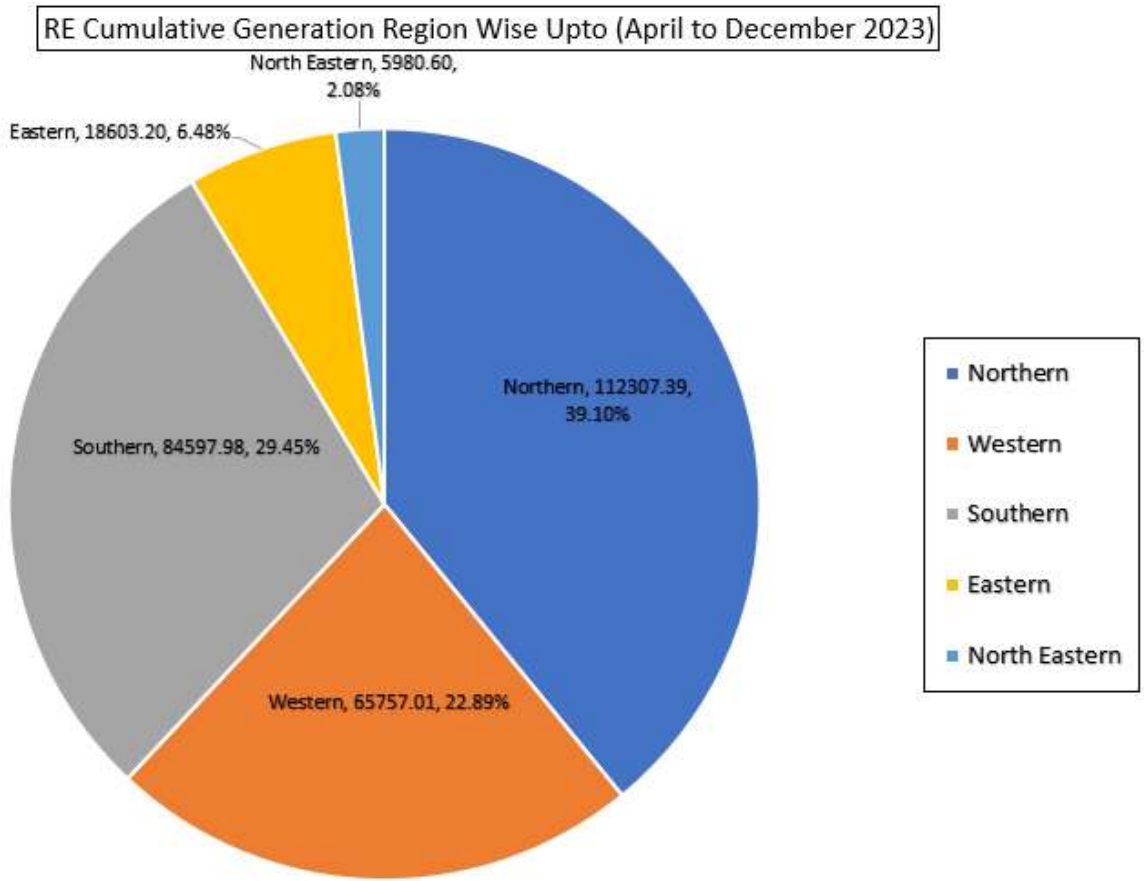


Figure 10: RE Cumulative Generation Region Wise Upto (April to December -2023)

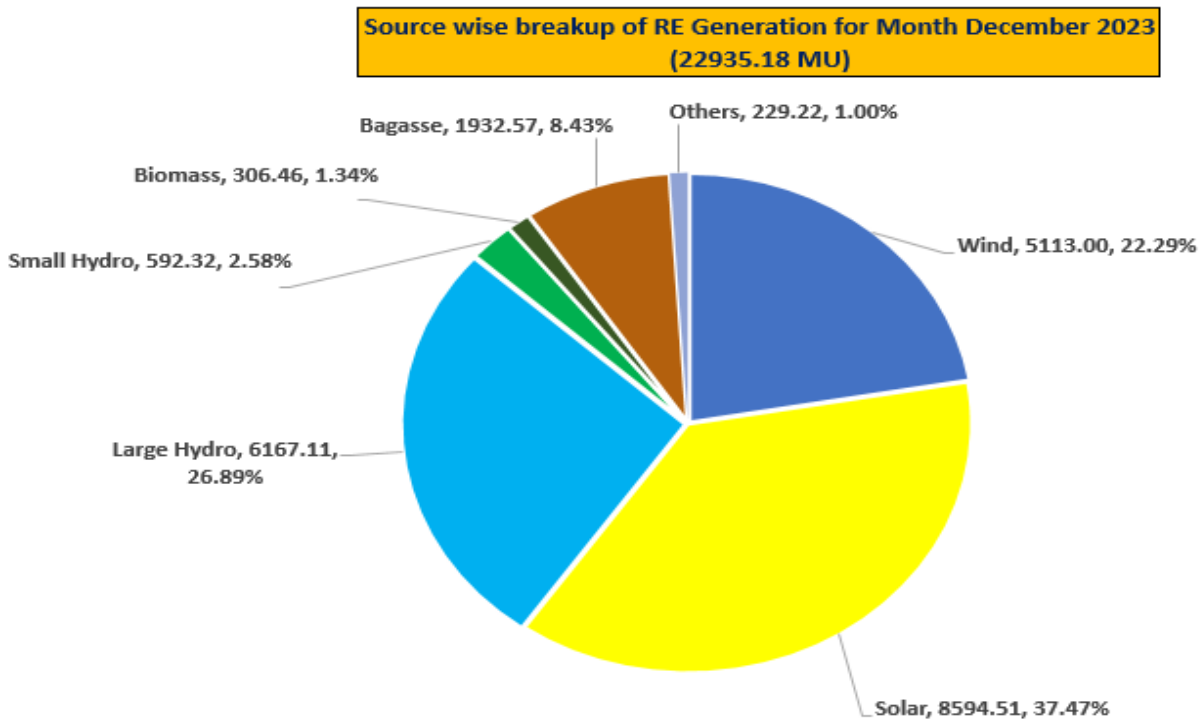


Figure 11: Source wise breakup of RE Generation in the month of December -2023

Source wise breakup of cumulative RE Generation for April 23- December 23
(287246.17 MU)

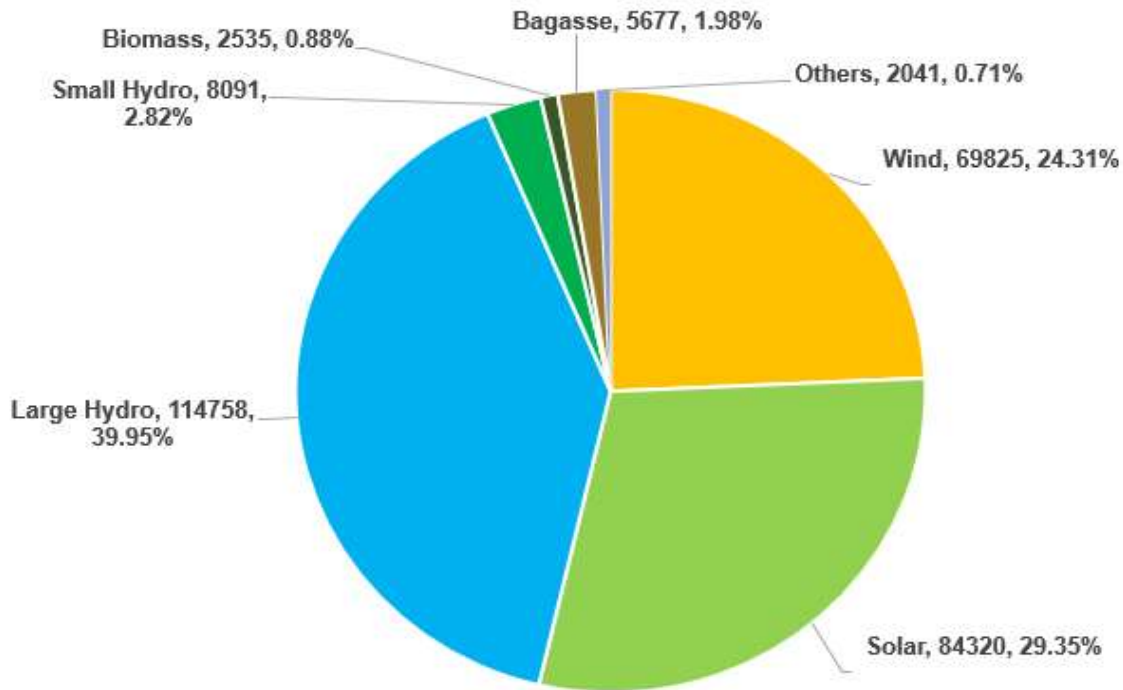


Figure 12: Source wise breakup of Cumulative RE Generation for the year 2023-24.

Summary of Renewable Energy Generation

Decreased by 5.17 % as compared to December' 22

Increased by 10.76 % as compared to November '23.

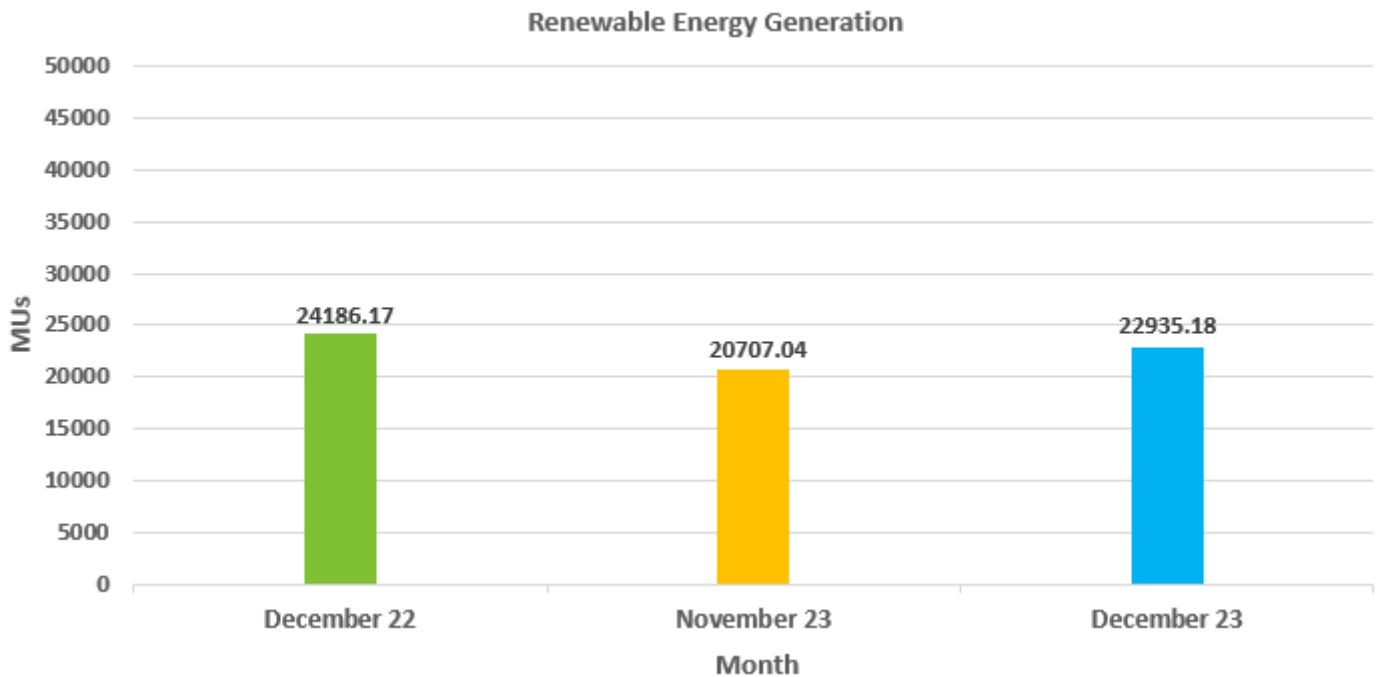


Figure 13: Renewable Energy Generation

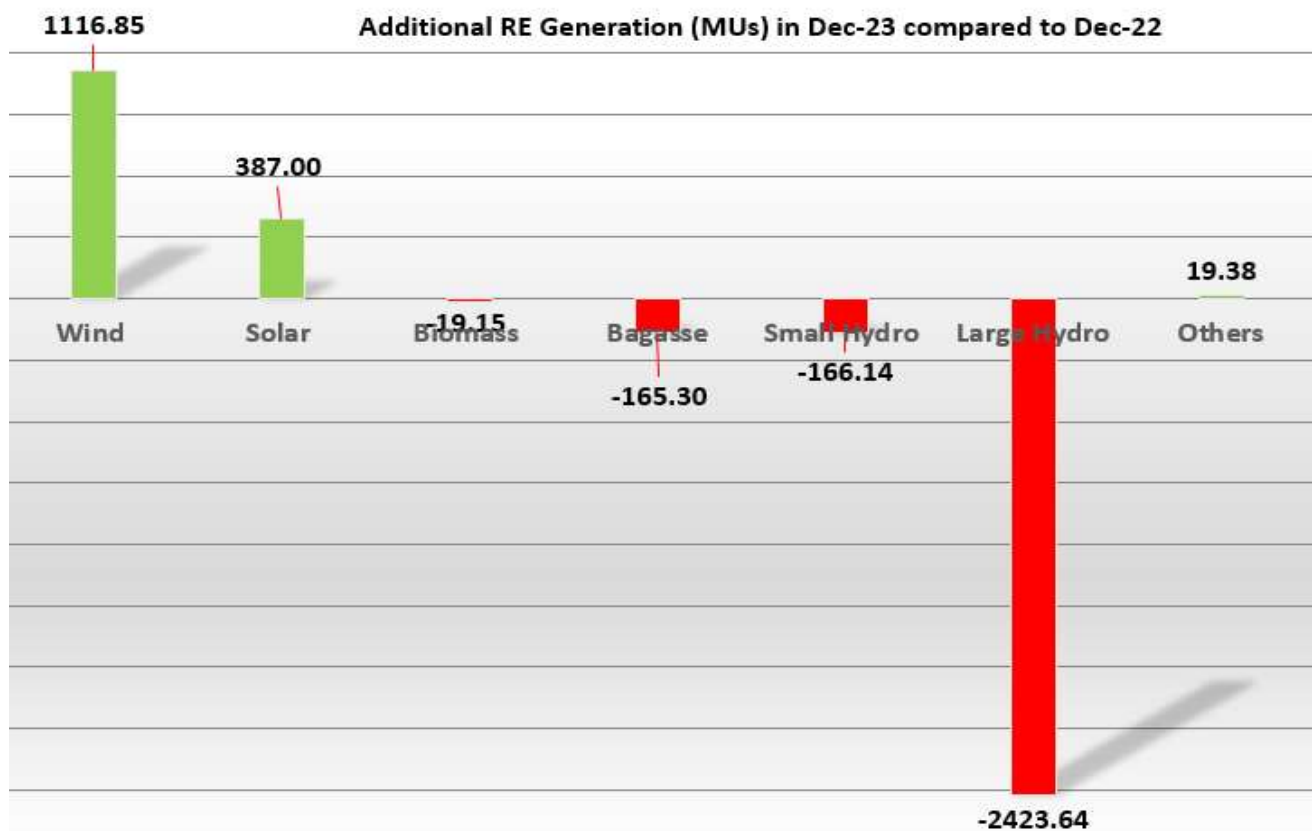


Figure 14: Additional RE Generation in December -23 as compared to December -22

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

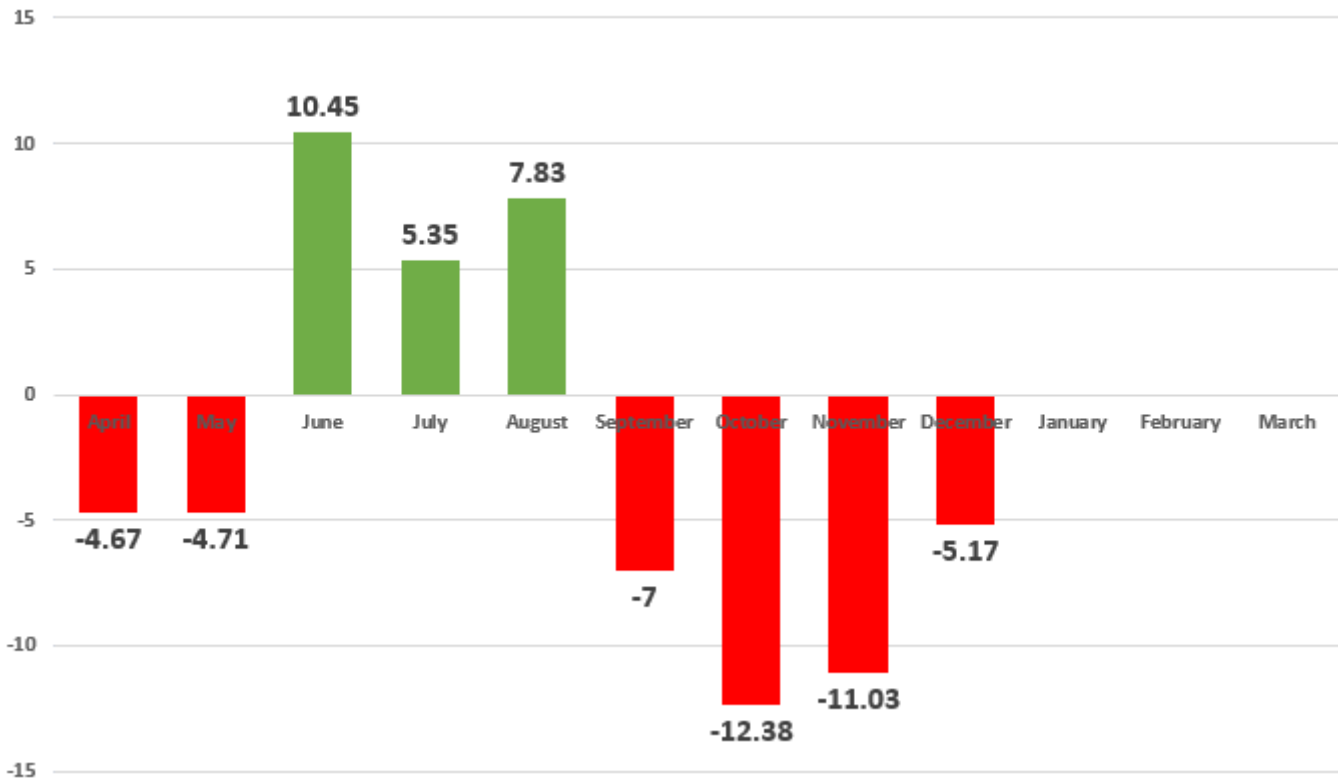


Figure 15: Month Wise % Growth of RE Generation in year 2023-24 w.r.t to previous year Same Month.

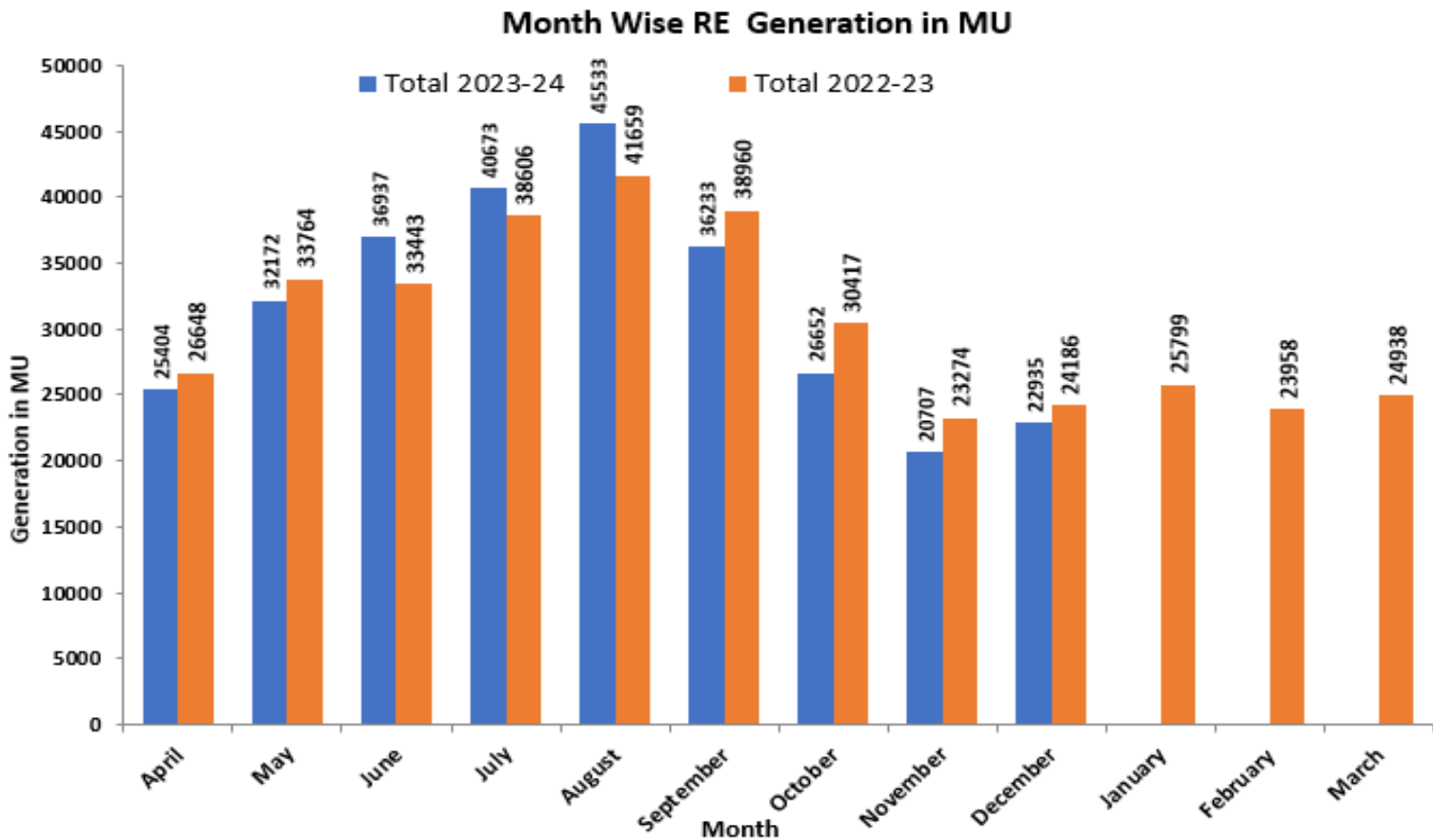


Figure 16: comparison of Month Wise RE Generation in year 2022-23 & in year 2023-24

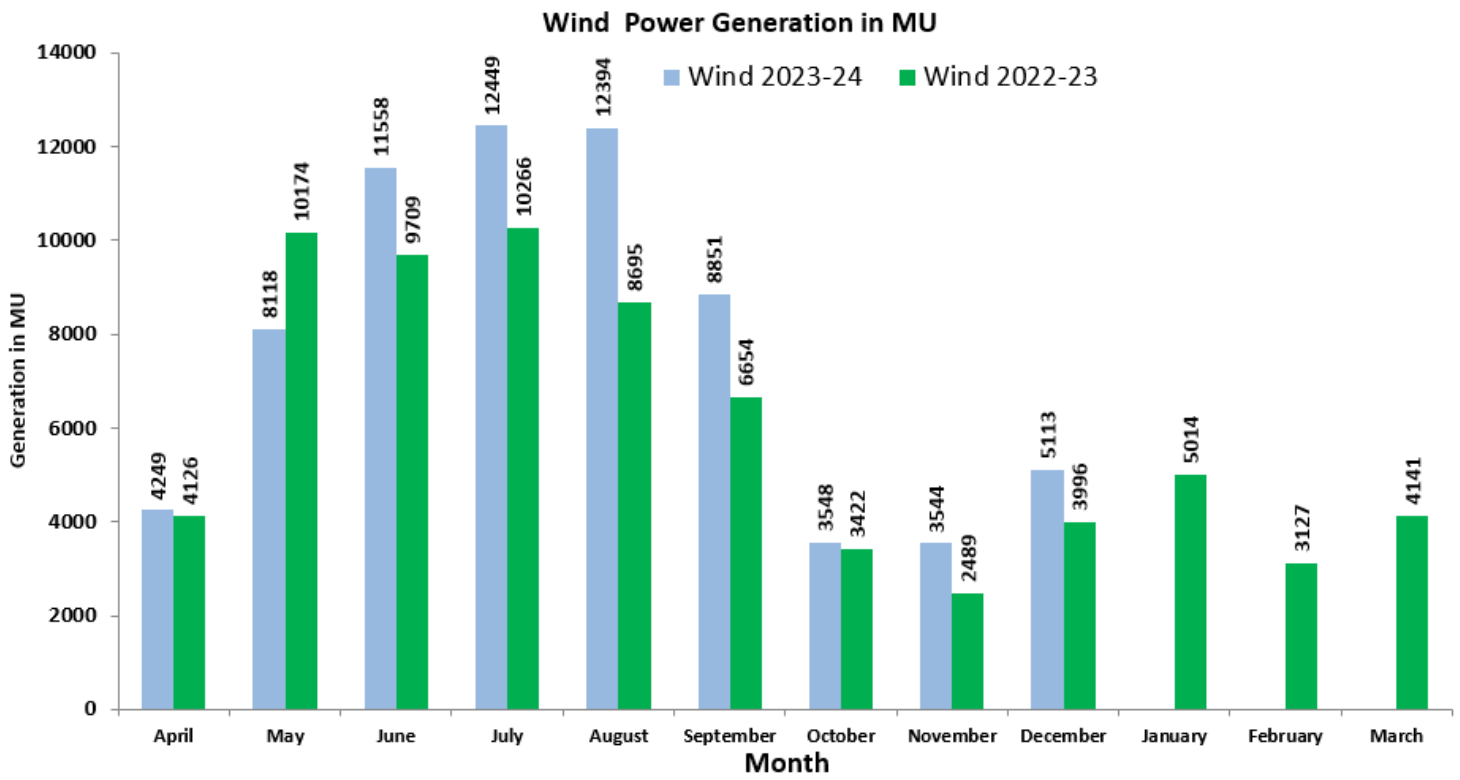


Figure 17: Month Wise Wind Power Generation for the year 2022-23 and year 2023-24.

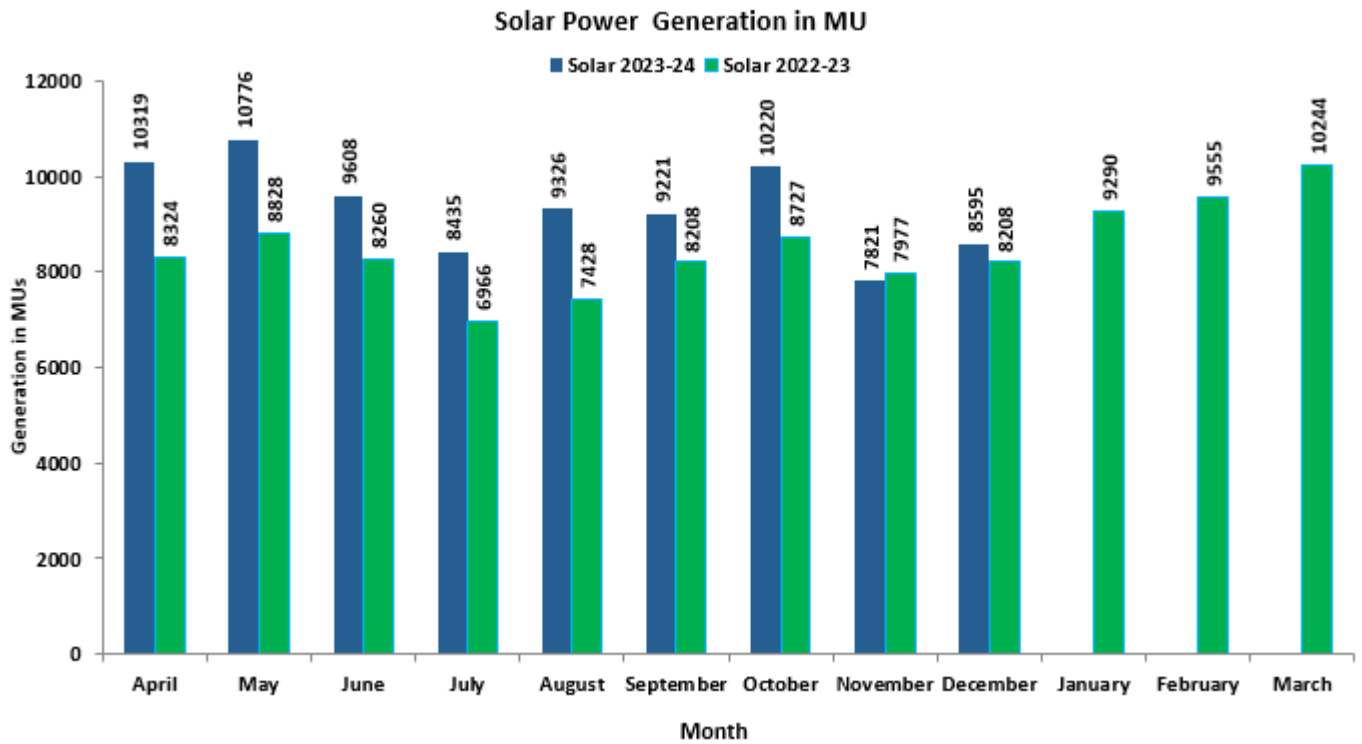


Figure 18: Month Wise Solar Power Generation for the year 2022-23 and year 2023-24.

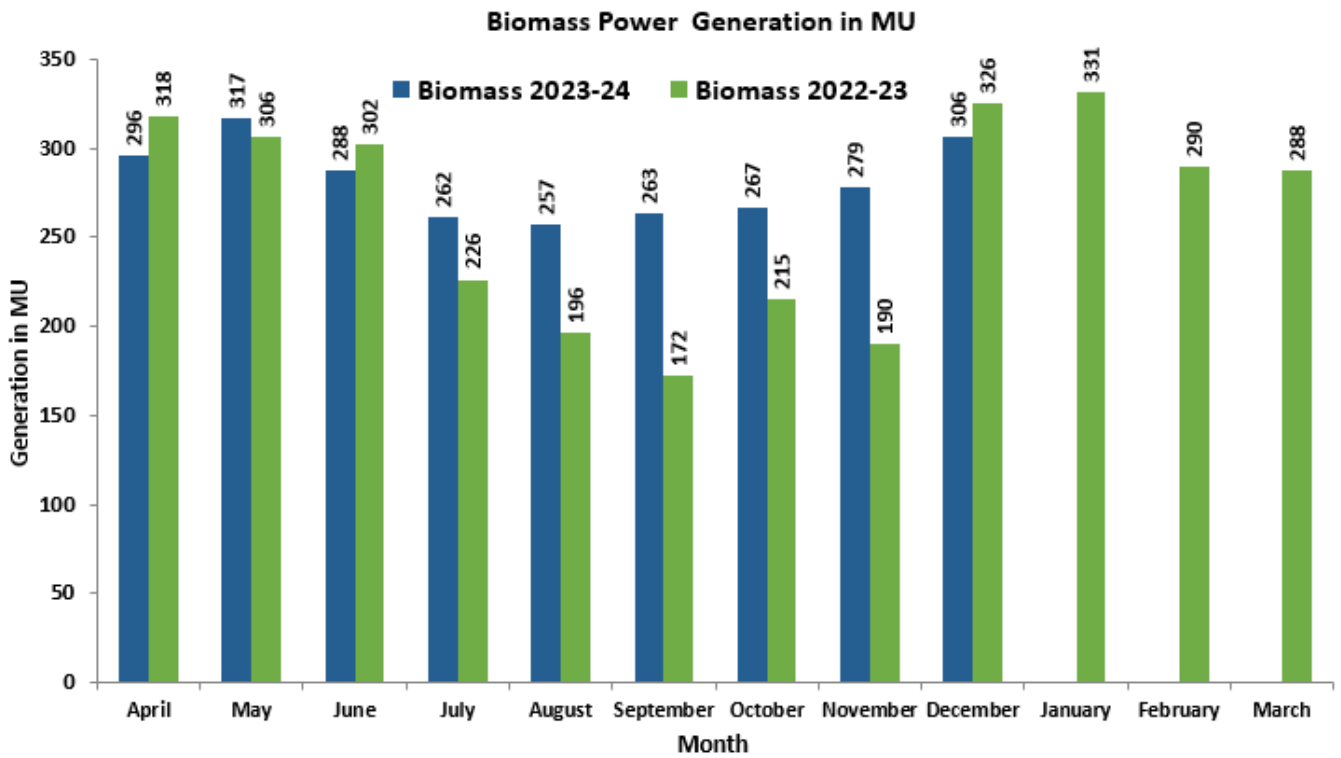


Figure 19: Month Wise Biomass Power Generation for the year 2022-23 and year 2023-24.

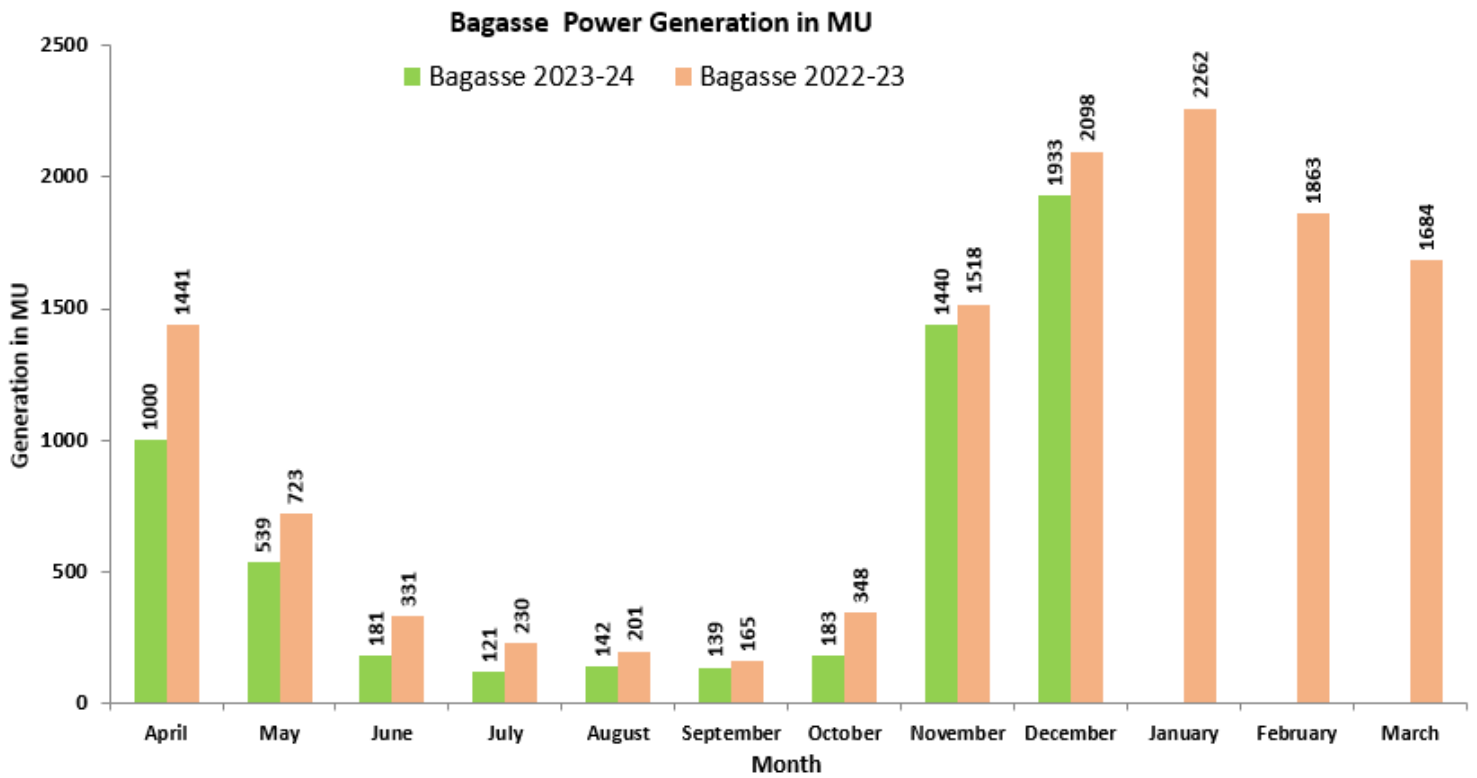


Figure 20: Month Wise Bagasse Power Generation for the year 2022-23 and year 2023-24.

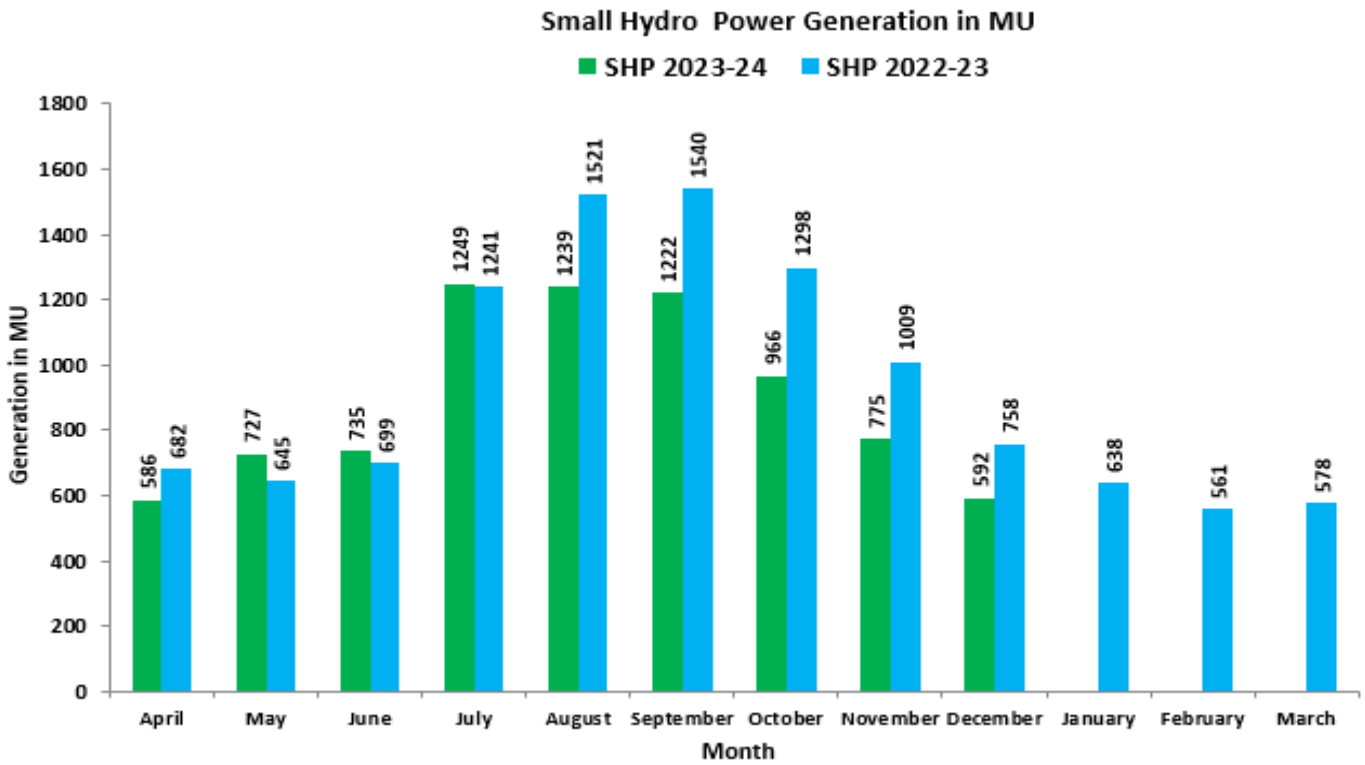


Figure 21: Month Wise Small Hydro Power Generation for the year 2022-23 and year 2023-24.

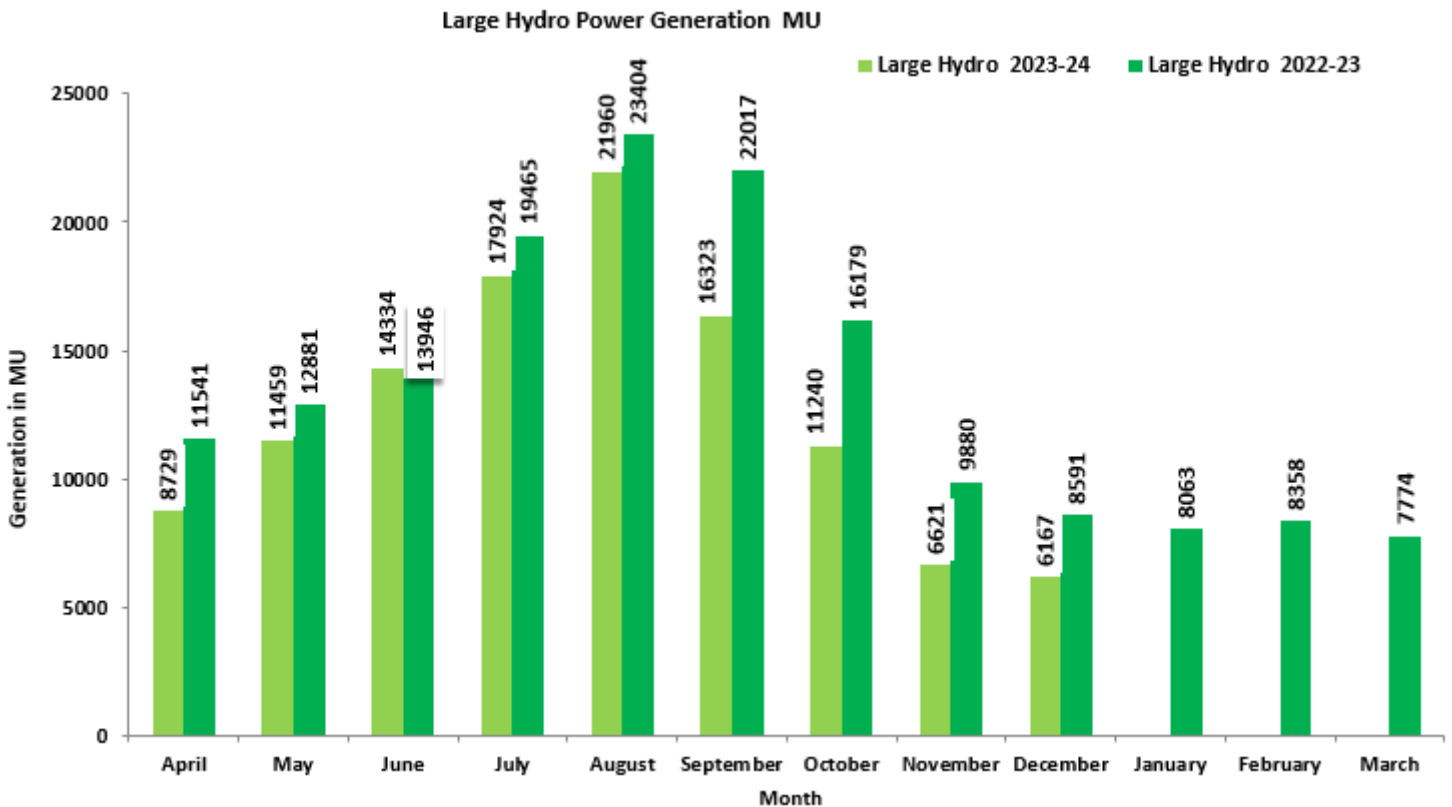


Figure 22: Month Wise Large Hydro Power Generation for the year 2022-23 and year 2023-24.

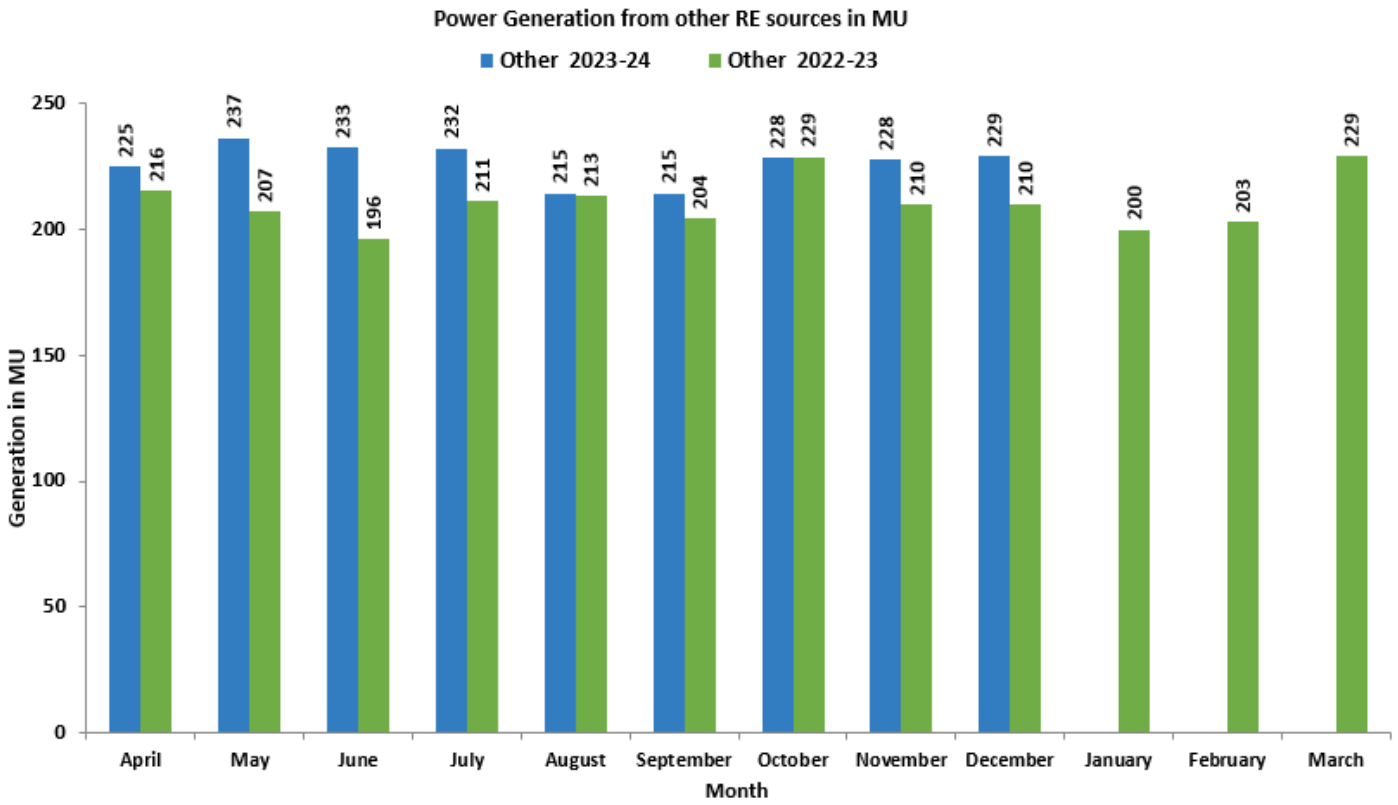


Figure 23: Month Wise Other RE (Waste Heat etc.) Power for the year 2022-23 and year 2023-24.

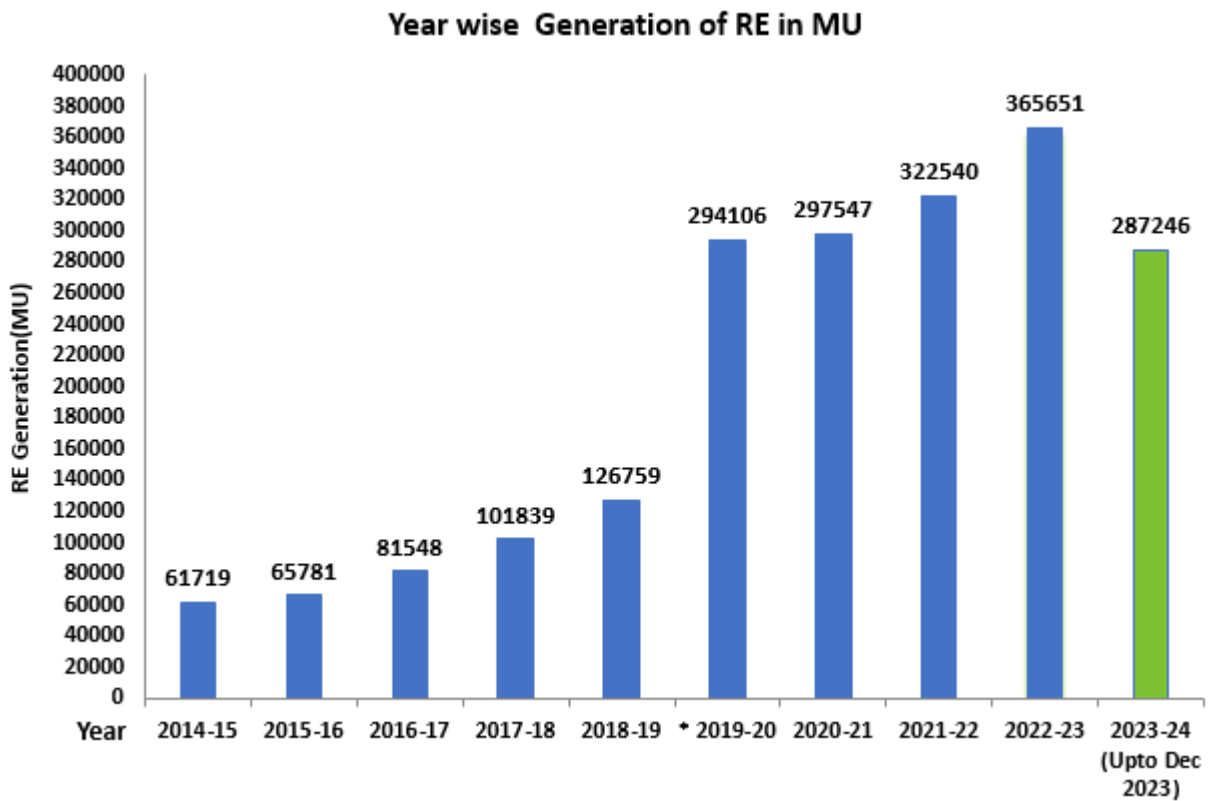


Figure 24: Year Wise RE Generation

(*) 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 (December,2023)

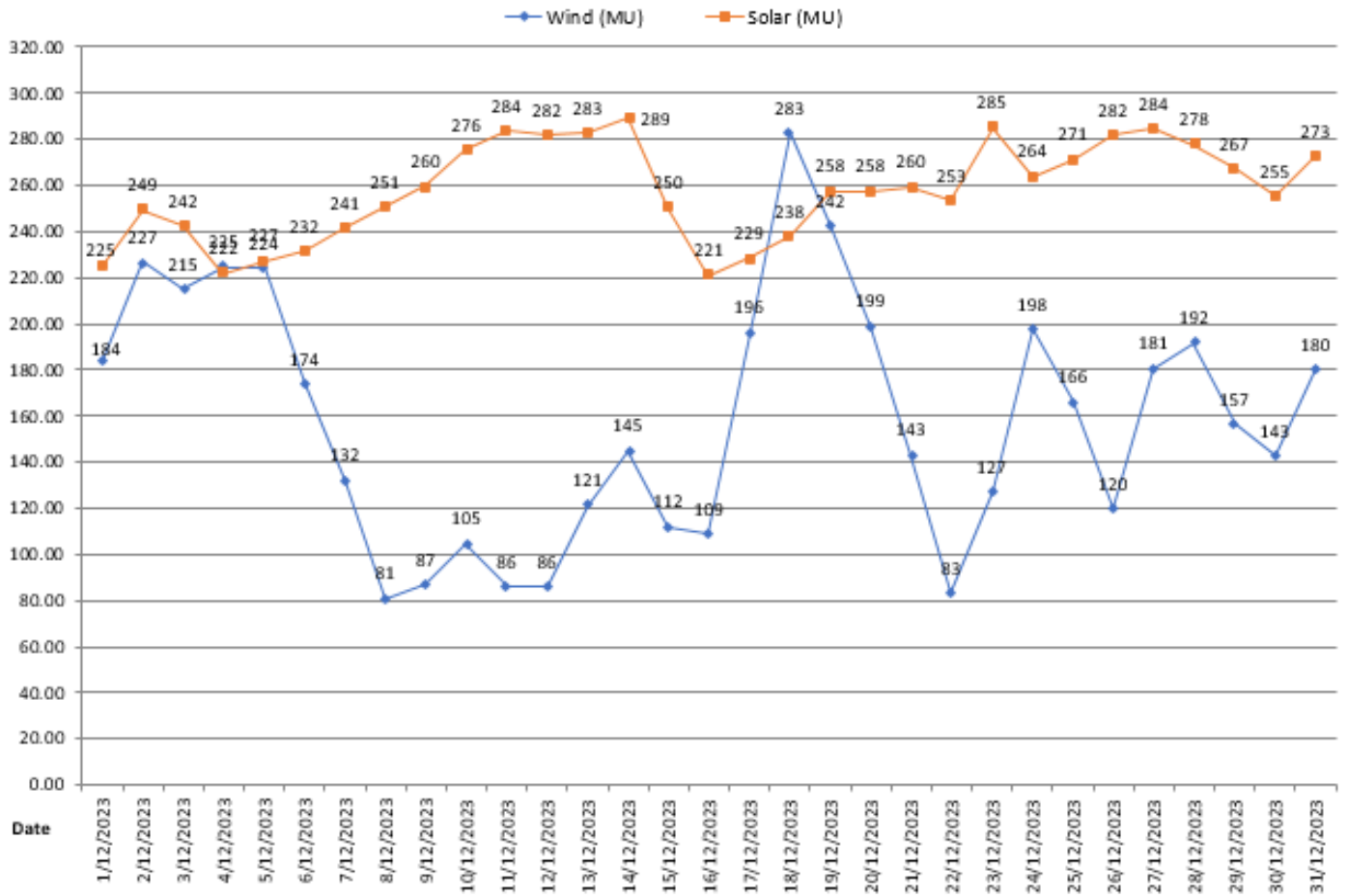


Figure 25: Daily solar and wind power generation trend in the month of December -2023

Summary of All India Total Renewable Energy Generation

Table 1 All India Summary of Renewable Energy Generation

Category	Installed Capacity (MW) (as on 31.12.2023)	Monitored Capacity (MW) (as on 31.12.2023) for which generation data is available	RE Generation(MU) December '2023	RE Generation(MU) December '2022	% of same Month Last Year	RE Generation (MU) April'2023-December '2023	RE Generation (MU) April'2022-December '2022	% of same period Last Year
पवन/Wind	44736.24	44500.00	5113.00	3996.15	127.95	69824.59	59532.36	117.29
सौर/Solar	73318.49	61233.504(*)	8594.51	8207.51	104.72	84319.58	72924.49	115.63
बायोमास/Biomass	10261.81	9579.29	306.46	325.61	94.12	2534.61	2251.72	112.56
बगास/Bagasse			1932.57	2097.86	92.12	5677.13	7054.61	80.47
लघु जल विद्युत्/Small Hydro	4986.75	4046.63	592.32	758.46	78.10	8091.27	9392.75	86.14
बृहत् जल विद्युत्/ Large Hydro(\$)	46910.17	46910.17	6167.11	8590.75	71.79	114757.78	137903.61	83.22
अन्य/Others	582.89	697.64	229.22	209.84	109.23	2041.21	1896.78	107.61
कुल/Total	180796.35	166967.23	22935.18	24186.17	94.83	287246.17	290956.31	98.72

(*) Solar Installed capacity including 3 GW rooftop solar.

(\$) Large Hydro Generation data excludes import from Bhutan. However, the import from Bhutan during December 2023 and April 23 - December 23 are 11.6 MUs and 4672.10 MU respectively.

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

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Unchahar Solar	Uttar Pradesh	Central	Solar	0.80
Dadri Solar	Uttar Pradesh	Central	Solar	0.37
Singrauli Solar	Uttar Pradesh	Central	Solar	1.33
Auraiya	Uttar Pradesh	Central	Solar	3.12
Kolayat	Rajasthan	Central	Solar	78.07
Nokhra	Rajasthan	Central	Solar	55.40
Devikot	Rajasthan	Central	Solar	44.13
ABC Renewable Energy	Rajasthan	Private	Solar	57.58
Acme Chittorgarh Energy Pvt Ltd.	Rajasthan	Private	Solar	43.53
Acme Heergharh Powertech Pvt Ltd	Rajasthan	Private	Solar	54.14
Adani Hybrid Energy Jaisalmer Four Limited	Rajasthan	Private	Solar	118.28
Adani Hybrid Energy Jaisalmer One Limited	Rajasthan	Private	Solar	69.74
Adani Hybrid Energy Jaisalmer Three Limited	Rajasthan	Private	Solar	54.45
Adani Hybrid Energy Jaisalmer Two Limited	Rajasthan	Private	Solar	58.01
ADANI SEJ2PL M	Rajasthan	Private	Solar	24.65
ADANI SEJ2PL P	Rajasthan	Private	Solar	26.66
AEGSPL	Rajasthan	Private	Solar	6.67
ALTRA XERGI	Rajasthan	Private	Solar	11.54
Adani Renewable Energy RJ Limited (RERJL)	Rajasthan	Private	Solar	37.54
Adani Jaisalmer One SEPL Solar	Rajasthan	Private	Solar	83.25
Adani SB Energy Four Pvt. Ltd.(SE4PL(Kilaj Solar))	Rajasthan	Private	Solar	9.07
M/S Adani Solar Energy Four PVT. LTD.L(Adani SEJ5PL)	Rajasthan	Private	Solar	35.20
Adani SB Energy Four Pvt. Ltd. (SERJ1PL)	Rajasthan	Private	Solar	56.79
Avaada Sunrays Energy Private Limited	Rajasthan	Private	Solar	61.91
Avaada RJHN Private Limited	Rajasthan	Private	Solar	38.36
Avaada Sunce Energy Private Limited	Rajasthan	Private	Solar	56.39
Avaada Sustainable RJ Project Private Ltd.	Rajasthan	Private	Solar	50.04
Ayana Renewable Power One Private Limited	Rajasthan	Private	Solar	52.65
Azure Power Forty One Private Limited	Rajasthan	Private	Solar	53.41
Azure Power Forty Three Private Ltd	Rajasthan	Private	Solar	107.30
Azure Power India Pvt Ltd	Rajasthan	Private	Solar	29.55
Azure Power Maple Pvt Ltd	Rajasthan	Private	Solar	34.15

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Azure Power Thirty Four Private Ltd	Rajasthan	Private	Solar	22.80
Clean Solar Power (Jodhpur) Pvt Ltd	Rajasthan	Private	Solar	45.65
Clean Solar Power (Bhadla) Pvt Ltd	Rajasthan	Private	Solar	57.28
Eden Renewable Cite Private Limited	Rajasthan	Private	Solar	59.41
M/S Adani Solar Energy Jodhpur Two Ltd	Rajasthan	Private	Solar	8.27
Mahindra Renewable Private Limited	Rajasthan	Private	Solar	46.75
Mega Surya Urja Pvt. Ltd	Rajasthan	Private	Solar	41.68
Nindan Solar Fatehgar	Rajasthan	Private	Solar	55.30
Renew Solar Energy (Jharkhand Three) Pvt Ltd	Rajasthan	Private	Solar	55.07
Renew Solar Power Pvt Ltd	Rajasthan	Private	Solar	8.91
Renew Solar Power Pvt Ltd. Bikaner	Rajasthan	Private	Solar	41.42
Renew Solar Urja Pvt Ltd	Rajasthan	Private	Solar	53.58
Renew Sun Bright Pvt Ltd	Rajasthan	Private	Solar	54.38
Renew Sun Waves Private Limited	Rajasthan	Private	Solar	55.23
Renew Surya Ravi Pvt Ltd	Rajasthan	Private	Solar	45.77
Rising Sun Energy	Rajasthan	Private	Solar	31.61
Tata Power Green Energy Limited	Rajasthan	Private	Solar	34.79
Tata Power Renewable Energy Ltd	Rajasthan	Private	Solar	54.00
Tata Power Saurya 1	Rajasthan	Private	Solar	16.49
Thar Surya1 Private Limited	Rajasthan	Private	Solar	51.40
Adani Hybrid Energy Jaisalmer Four Limited	Rajasthan	Private	Wind	92.27
Adani Hybrid Energy Jaisalmer One Limited	Rajasthan	Private	Wind	19.30
Adani Hybrid Energy Jaisalmer Three Limited	Rajasthan	Private	Wind	14.01
Adani Hybrid Energy Jaisalmer Two Limited	Rajasthan	Private	Wind	13.50
Adani Jaisalmer One SEPL Wind	Rajasthan	Private	Wind	19.57
Northern Region				2412.52
Arinsun Solar (Barsaitadesh)	Madhya Pradesh	Private	Solar	33.86
Mahindra Solar (Badwar)	Madhya Pradesh	Private	Solar	34.03
Masaya BWSPRA_KNDW	Madhya Pradesh	Private	Solar	31.98
Sherisha Raipur	Chhattisgarh	Private	Solar	33.59
Solapur Solar	Maharashtra	Central	Solar	6.50
Electro Solaire Private Limited (ESPL RSP Solar)	Gujarat	Private	Solar	1.19
Tata Power Renewable Energy Limited (TPREL RSP Solar)	Gujarat	Private	Solar	38.53
Gujarat Industries Power Company Limited (GIPCL RSP Solar)	Gujarat	Private	Solar	20.00
Powerica Wind	Gujarat	Private	Solar	20.54

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
NTPC Kawas	Gujarat	Central	Solar	12.60
IWISL Dayapar	Gujarat	Private	Solar	6.39
Gandhar_Solar	Gujarat	Private	Solar	33.00
GSECL RSP	Gujarat	Private	Solar	2.53
RPL_SECI-II	Gujarat	Private	Solar	10.70
AWEK1L WIND (RATADIYA)	Gujarat	Private	Wind	50.90
Adani Wind Energy Kutchh Four Limited (AWEK4L)	Gujarat	Private	Wind	87.59
Adani Wind Energy MP One Private Limited (AWEMP1PL)	Gujarat	Private	Wind	53.82
Alfnar Wind (Nanavalka)	Gujarat	Private	Wind	63.24
Green Infra Wind Energy Limited SECI-II (Giwel-II Wind (Vadva))	Gujarat	Private	Wind	46.67
Green Infra Wind Energy Limited SECI-III (Giwel-III Wind (Naranpar))	Gujarat	Private	Wind	50.76
Athena_RUM	Gujarat	Private	Wind	55.29
GSECL_PH2	Gujarat	Private	Wind	11.00
Ostro Kutch Wind Private Limited (OKWPL)	Gujarat	Private	Wind	66.56
Renew Wind Energy (AP2) Private Limited (Ghadsisa)	Gujarat	Private	Wind	75.63
Avikiran Solar India Private Limited (AS IPL), Baranda	Gujarat	Private	Wind	36.49
Apraava Khkrda Jam	Gujarat	Private	Wind	42.40
IGESL Dayapar	Gujarat	Private	Wind	33.00
Netra Kotda	Gujarat	Private	Wind	23.97
Torrent Sidpur Jam	Gujarat	Private	Wind	37.87
SITAC	Gujarat	Private	Wind	50.53
SRIJAN	Gujarat	Private	Wind	17.70
Western Region				1088.86
Beetam (Tuticorin)	Tamil Nadu	Private	Wind	48.20
GRTJIPL	Tamil Nadu	Private	Solar	17.26
Mytra	Tamil Nadu	Private	Wind	26.82
Orange	Tamil Nadu	Private	Wind	39.39
Green Infra	Tamil Nadu	Private	Wind	53.43
Hiriyur Ostro	Tamil Nadu	Private	Wind	62.05
Sprng Renewable Energy Pvt Ltd(Pugalur)	Tamil Nadu	Private	Wind	16.50
JSW Renew Energy Two Limited (Tuticorin)	Tamil Nadu	Private	Wind	66.60
JSW Savlaperi	Tamil Nadu	Private	Wind	2.57

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Ettayapuram	Tamil Nadu	Central	Solar	33.26
Roshini Renew, Koppal	Karnataka	Private	Wind	31.86
KOPPAL_AYANASIX_W	Karnataka	Private	Wind	15.38
Ramagundam Floating Solar	Telangana	Central	Solar	11.80
Simhadri Floating Solar	Andhra Pradesh	Central	Solar	2.81
Southern Region				427.93
All India Total				3929.31

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) December'23	RE Generation (MU) December'22	RE Generation (MU) April 2023-December 2023	RE Generation (MU) April 2022-December 2022
NTPC							
Faridabad Solar	Haryana	5.00	Solar	0.37	0.45	4.69	4.67
Bhadla	Rajasthan	260.00	Solar	32.57	35.40	316.12	323.21
Jetsar	Rajasthan	160.00	Solar	27.86	22.71	270.91	260.36
Fatehgarh	Rajasthan	296.00	Solar	55.84	57.54	559.27	501.32
Devikot	Rajasthan	240.00	Solar	44.28	12.89	422.15	12.89
Nokhra	Rajasthan	300.00	Solar	55.33	4.01	514.91	4.01
Dadri Solar	Uttar Pradesh	5.00	Solar	0.37	0.47	4.50	4.60
Unchahar Solar	Uttar Pradesh	10.00	Solar	0.85	1.08	10.05	10.36
Singrauli Solar	Uttar Pradesh	15.00	Solar	1.37	1.52	15.08	15.09
Auraiya	Uttar Pradesh	40.00	Solar	3.62	4.37	51.33	35.63
Small Hydro Vindhyachal	Uttar Pradesh	8.00	Small Hydro	2.55	2.60	28.74	22.82
Rojmal	Gujarat	50.00	Wind	8.21	4.76	79.54	74.42
Dayapar	Gujarat	50.00	Wind	0.00	0.00	0.77	0.00
Rajgarh Solar	Madhya Pradesh	50.00	Solar	5.13	6.05	50.24	54.27
Mandsaur	Madhya Pradesh	250.00	Solar	24.66	30.80	263.80	279.71
Solapur	Maharashtra	10.00	Solar	1.17	0.00	12.75	0.00
Anantapuram	Andhra Pradesh	250.00	Solar	24.89	27.62	277.11	267.66
Ramagundam	Telangana	110.00	Solar	12.64	14.94	149.90	120.92
Andaman & Nicobar	Andaman & Nicobar	5.00	Solar	0.47	0.46	4.13	3.82
Talchar _Solar	Orissa	10.00	Solar	0.94	1.11	9.14	9.80
Solar Bilhaur	Uttar Pradesh	225.00	Solar	28.95	35.35	336.94	365.29
Simhadri Floating Project	Andhra Pradesh	25.00	Solar	2.74	4.94	35.23	33.99
Kayamkulam	Kerala	92.00	Solar	17.08	16.10	156.52	112.07
Kawas	Gujarat	56.00	Solar	7.56	8.84	65.68	46.28
Gandhar	Gujarat	20.00	Solar	3.31	1.87	23.28	5.87
Shambu ki Burj-I	Rajasthan	250.00	Solar	47.97	47.53	458.12	225.66
Shambu ki Burj-II	Rajasthan	150.00	Solar	30.12	26.41	289.11	70.00
Ettayapuram	Tamil Nadu	230.00	Solar	37.92	16.26	359.04	16.26
Total NTPC		3172.00		478.75	386.08	4769.05	2880.98
THDC							
Patan Wind Power Project	Gujarat	50.00	Wind	5.65	6.10	59.79	62.1

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation (MU) December'23	RE Generation (MU) December'22	RE Generation (MU) April 2023-December 2023	RE Generation (MU) April 2022-December 2022
Devbhumi Dwarka Wind Power Project	Gujarat	63.00	Wind	15.54	13.70	108.93	109.96
Solar Kasaragod	Kerala	50.00	Solar	8.84	8.90	69.66	65.53
Rishikesh office Premises	Uttar Pradesh	0.50	Solar	0.04	0.03	0.38	0.38
Dhukwan SHEP Jhansi,UP	Uttar Pradesh	24.00	Small Hydro	8.51	10.30	54.68	62.87
Total THDC		187.50		38.58	39.03	293.44	300.84
NHPC							
Wind Power Project	Rajasthan	50.00	Wind	4.02	3.50	49.96	62.20
Solar Power Project	Tamilnadu	50.00	Solar	5.83	6.28	51.76	65.53
Total NHPC		100.00		9.85	9.78	101.72	127.74
ONGC							
Bhuj	Gujarat	51.00	Wind	3.21	4.30	16.16	61.15
Jaisalmer	Rajasthan	102.00	Wind	5.60	0.06	85.46	104.98
Assam	Assam	1.66	Roof Top	0.13	0.02	0.28	0.77
Assam	Assam	1.09	Ground Mounted	0.12	0.00	1.72	0.84
Tripura	Tripura	0.25	Roof Top	0.02	0.00	0.74	3.02
Rajahmundry,Base Complex	Andhra Pradesh	1.00	Ground Mounted	0.08	0.44	0.92	4.93
Tati Paka, Rajahmundry	Andhra Pradesh	5.00	Ground Mounted	0.48	0.00	3.34	4.01
Cauvery	Tamil Nadu	0.46	Ground Mounted	0.03	0.00	0.16	0.98
Vagara, Ankleshwar	Gujarat	5.00	Ground Mounted	0.69	0.00	4.91	5.05
Gujarat	Gujarat	4.23	Roof Top	0.37	0.00	0.85	0.00
Jodhpur	Rajasthan	0.16	Ground Mounted	0.01	0.00	0.17	0.00
Jaisalmer	Rajasthan	0.16	Ground Mounted	0.00	0.00	0.15	0.89
Uttarakhand	Uttarakhand	1.24	Roof Top	0.09	0.00	0.11	0.16
Goa	Goa	1.00	Ground Mounted	0.05	0.00	0.26	0.66
Hazira	Gujarat	10.00	Ground Mounted	1.10	0.00	1.10	0.05
Hazira	Gujarat	5.00	Ground Mounted	0.70	0.00	0.75	8.08

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation (MU) December'23	RE Generation (MU) December'22	RE Generation (MU) April 2023-December 2023	RE Generation (MU) April 2022-December 2022
Mumbai (Uran & NBP Green Heights)	Maharashtra	0.29	Roof Top	0.15	0.00	0.15	0.18
DDU, Bhawan, Delhi	Delhi	0.30	Roof Top	0.02	0.00	0.05	0.00
ONGC Colony Noida	Uttar Pradesh	0.06	Roof Top	0.00	0.00	0.01	0.00
EOA Logistics Park, Kakinada	Andhra Pradesh	1.00	Roof Top	0.06	0.00	0.00	0.00
Cambay	Gujarat	2.00	Ground Mounted SPP	0.28	0.00	0.22	0.00
Total ONGC		192.89		13.21	4.81	117.51	195.74
SJVN Limited							
Khirvire Wind Power	Maharashtra	47.60	Wind	0.86	0.82	44.78	47.42
Sadla Wind Power	Gujarat	50.00	Wind	7.35	5.21	85.64	72.96
Charanka Solar Power	Gujarat	5.60	Solar	0.74	0.79	6.27	6.16
Wadhwal Solar Power Project	Himachal Pradesh	1.00	Solar	0.06	0.06	0.79	1.04
Parasan Solar Power	Uttar Pradesh	75.00	Solar	9.13	7.93	114.89	12.05
Total SJVN		179.20		18.14	14.80	252.37	139.63
Oil India Ltd							
Oil India Ltd	Rajasthan	14.00	Solar	1.83	2.01	18.13	18.43
Oil India Ltd	Rajasthan	67.60	Wind	3.36	3.79	47.67	66.17
Oil India Ltd	Gujarat	43.30	Wind	8.38	8.04	86.91	74.51
Oil India Ltd	Madhya Pradesh	63.20	Wind	5.72	6.89	80.22	80.48
Total Oil India Ltd		188.10		19.30	20.73	232.93	239.58
NEEPCO							
NEEPCO	Tripura	5.00	Solar	0.49	0.55	4.71	4.98
NEEPCO	Assam	25.00	Small Hydro	18.84	0.00	106.15	0.00
Total NEEPCO		30.00		19.33	0.55	110.86	4.98
DVC							
DVC	West Bengal	0.08	Solar	0.01	0.01	0.05	0.06
DVC	Jharkhand	4.00	Small Hydro	1.24	0.01	1.34	0.01
Total DVC		4.08		1.25	0.02	1.39	0.06
All India Total		4053.85		598.40	475.81	5879.27	3889.56

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 December 2023						
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule	
Northern Region						
ABC RENEWABLE ENERGY	Solar	56.28	57.28	1.00	1.78	
Acme Heergharh Powertech Pvt Ltd	Solar	50.49	54.14	3.65	7.23	
Acme Chittorgarh Energy Pvt Ltd.	Solar	40.14	43.53	3.39	8.45	
Adani Hybrid Energy Jaisalmer One Limited	Solar	92.62	89.04	-3.58	-3.87	
Adani Hybrid Energy Jaisalmer Four Limited	Solar	215.61	210.55	-5.06	-2.35	
Adani Hybrid Energy Jaisalmer Three Limited	Solar	71.92	68.46	-3.46	-4.81	
Adani Hybrid Energy Jaisalmer Two Limited	Solar	74.63	71.51	-3.12	-4.18	
Adani Renewable Energy RJ Limited (RERJL)	Solar	36.22	37.54	1.32	3.64	
Adani Jaisalmer One SEPL Solar	Solar	107.83	102.82	-5.01	-4.65	
M/S Adani Solar Energy Jodhpur Two Ltd	Solar	9.41	8.27	-1.14	-12.11	
Adani SB Energy Four Pvt. Ltd.(SE4PL(Kilaj Solar))	Solar	8.61	9.07	0.46	5.34	
ADANI SEJ2PL M	Solar	25.55	26.66	1.11	4.34	
ADANI SEJ2PL P	Solar	25.78	24.65	-1.13	-4.38	
Adani SEJ5PL	Solar	34.46	35.20	0.74	2.15	
Adani SERJ1PL	Solar	56.27	56.79	0.52	0.92	
AEGSPL	Solar	5.33	6.67	1.34	25.14	
ALTRA XERGI	Solar	9.36	11.54	2.18	23.29	
AURAIYA SOLAR	Solar	4.06	3.12	-0.94	-23.15	
Avaada RJHN Private Limited	Solar	40.97	38.36	-2.61	-6.37	
Avaada Sunce Energy Private Limited	Solar	60.26	56.39	-3.87	-6.42	
Avaada Sunrays Energy Private Limited	Solar	61.20	61.91	0.71	1.16	
Avaada Sustainable RJ Project Private Ltd.	Solar	52.64	50.04	-2.60	-4.94	
Ayana Renewable Power One Private Limited	Solar	48.58	52.65	4.07	8.38	
Azure Power Forty One Private Limited	Solar	50.04	53.41	3.37	6.73	
Azure Power Forty Three Private Ltd	Solar	105.10	107.30	2.20	2.09	

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of December 2023

Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Azure Power Maple Pvt Ltd	Solar	34.17	34.15	-0.02	-0.06
Azure Power Thirty Four Private Ltd	Solar	22.13	22.80	0.67	3.03
Azure Power India Pvt Ltd	Solar	28.73	29.55	0.82	2.85
Clean Solar Power (Jodhpur) Pvt Ltd	Solar	44.80	45.65	0.85	1.90
Clean Solar Power (Bhadla) Pvt Ldt	Solar	55.88	57.28	1.40	2.51
DADRI SOLAR	Solar	0.47	0.37	-0.10	-21.28
DEVIKOT SOLAR	Solar	42.56	44.13	1.57	3.69
Eden Renewable Cite Private Limited	Solar	57.59	59.41	1.82	3.16
KOLYAT SOLAR BIKANER	Solar	71.69	78.07	6.38	8.90
Mahindra Renewable Private Limited	Solar	45.60	46.75	1.15	2.52
Mega Surya Urja Pvt. Ltd	Solar	37.58	41.68	4.10	10.91
Nindan Solar Fatehgar	Solar	52.23	55.30	3.07	5.88
Nokhra Solar	Solar	54.36	55.40	1.04	1.91
Renew Solar Energy (Jharkhand Three) Pvt Ltd	Solar	53.77	55.07	1.30	2.42
Renew Solar Power Pvt Ltd	Solar	8.88	8.91	0.03	0.34
Renew Solar Urja Pvt Ltd	Solar	51.19	53.58	2.39	4.67
Renew Sun Bright Pvt Ltd	Solar	51.71	54.38	2.67	5.16
Renew Sun Waves Private Limited	Solar	53.95	55.23	1.28	2.37
Renew Surya Ravi Pvt Ltd	Solar	43.11	45.77	2.66	6.17
Rising Sun Energy	Solar	30.76	31.61	0.85	2.76
Renew Solar Power Pvt Ltd. Bikaner	Solar	40.89	41.42	0.53	1.30
SINGRAULI SOLAR	Solar	1.45	1.33	-0.12	-8.28
Tata Power Green Energy Limited	Solar	34.26	34.79	0.53	1.55
Tata Power Renewable Energy Ltd	Solar	54.14	54.00	-0.14	-0.26
Thar Surya1 Private Limited	Solar	50.89	51.40	0.51	1.00
Tata Power Saurya	Solar	16.45	16.49	0.04	0.24
Unchahar Solar	Solar	0.71	0.80	0.09	12.68
Total		2383.31	2412.22		

Western Region

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of December 2023

Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Arinsun Solar (Barsaitadesh)	Solar	33.56	34.03	0.47	1.41
Mahindra Solar (Badwar)	Solar	33.28	31.98	-1.29	-3.88
Masaya BWSRA_KNDW	Solar	34.46	33.59	-0.87	-2.52
Sherisha Raipur	Solar	7.11	6.50	-0.62	-8.68
Solapur Solar	Solar	1.15	1.19	0.04	3.45
Electro Solaire Private Limited (ESPL RSP Solar)	Solar	38.10	38.53	0.43	1.13
Tata Power Renewable Energy Limited (TPREL RSP Solar)	Solar	19.60	20.00	0.40	2.05
Gujarat Industries Power Company Limited (GIPCL RSP Solar)	Solar	19.95	20.54	0.59	2.97
Powerica Wind	Solar	13.87	12.60	-1.27	-9.16
NTPC Kawas	Solar	5.61	6.39	0.78	13.83
GSECL RSP	Solar	9.42	10.70	1.28	13.61
RPL_SECI-II	Solar	59.86	50.90	-8.95	-14.95
Gandhar_Solar	Solar	3.38	2.53	-0.85	-25.19
AWEK1L	Wind	81.33	87.59	6.27	7.70
Adani Wind Energy Kutchh Four Limited (AWEK4L)	Wind	59.17	53.82	-5.35	-9.05
Adani Wind Energy MP One Private Limited (AWEMP1PL)	Wind	72.57	63.24	-9.33	-12.86
Alfnar Wind (Nanavalka)	Wind	56.84	46.67	-10.17	-17.90
Green Infra Wind Energy Limited SECI-II (Giwel-II Wind (Vadva))	Wind	58.75	50.76	-7.99	-13.59
Green Infra Wind Energy Limited SECI-III (Giwel-III Wind (Naranpar))	Wind	64.38	55.29	-9.09	-14.12
GSECL_ph2_RSP_S	Wind	11.90	11.00	-0.90	-7.55
Ostro Kutch Wind Private Limited (OKWPL)	Wind	62.26	66.56	4.30	6.91
Renew Wind Energy (AP2) Private Limited (Ghadsisa)	Wind	84.01	75.63	-8.38	-9.98
Avikiran Solar India Private Limited (ASIPL), Baranda	Wind	43.06	36.49	-6.57	-15.27
Apraava Khkrda Jam	Wind	43.97	42.40	-1.57	-3.57
IGESL Dayapar	Wind	4.07	33.00	28.93	710.29
Netra Kotda	Wind	26.53	23.97	-2.56	-9.64

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of December 2023

Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Torrent Sidpur Jam	Wind	38.72	37.87	-0.85	-2.21
		986.91	953.77		
Southern Region					
Beetam(Tuticorin)	Wind	55.63	48.20	-7.44	-13.37
GIREL	Wind	61.48	53.43	-8.05	-13.09
Mytra	Wind	35.84	26.82	-9.03	-25.19
Orange	Wind	44.84	39.39	-5.45	-12.16
Sprng Renewable Energy Pvt Ltd(Pugalur)	Wind	35.67	16.50	-19.17	-53.75
GRTJIPL	Wind	19.18	17.26	-1.92	-10.00
JSW Renew Energy Two Limited (Tuticorin)	Wind	70.66	66.60	-4.06	-5.75
Ostro Hiriyur	Wind	71.36	62.05	-9.31	-13.04
NTPC-Ettayapuram,(Solar PV), Tuticorin	Solar	35.86	33.26	-2.60	-7.24
JSW Savlaperi	Wind	2.82	2.57	-0.25	-8.77
Roshini Renew, Koppal	Wind	36.35	31.86	-4.49	-12.36
KOPPAL_AYANASIX_W	Wind	18.62	15.38	-3.24	-17.42
Ramagundam Floating Solar	Solar	12.05	11.80	-0.25	-2.07
Simhadri Floating Solar	Solar	2.81	2.81	0.00	-0.02
		503.18	427.93		

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 December 2023

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Month of December 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	262.09	0.00	0.00	63.64	63.64	325.73	19.54
Haryana	2258.38	0.00	0.00	0.00	146.51	146.51	2404.89	6.09
HP	0.00	0.00	0.00	1430.66	97.12	1527.78	1527.78	100.00
J & K	0.00	0.00	0.00	437.96	16.32	454.28	454.28	100.00
Ladakh	0.00	0.00	0.00	18.00	0.00	18.00	18.00	100.00
Punjab	2584.73	0.00	0.00	382.23	228.89	611.12	3195.85	19.12
Rajasthan	4884.34	56.62	658.01	104.56	3428.13	4190.70	9131.66	45.89
Uttar Pradesh	11708.12	49.41	1.92	27.42	791.44	820.78	12578.31	6.53
Uttarakhand	0.00	59.43	0.00	765.55	77.81	843.36	902.79	93.42
Northern Region Total	21435.57	427.55	659.93	3166.38	4850.49	8676.80	30539.92	28.41
WESTERN REGION								
Chhattisgarh	13388.07	0.00	0.00	3.72	223.65	227.37	13615.44	1.67
Gujarat	6339.24	290.02	840.69	253.05	3113.09	4206.83	10836.09	38.82
Madhya Pradesh	13071.75	0.00	0.00	362.06	673.33	1035.39	14107.14	7.34
Maharashtra	10399.14	249.77	613.45	232.63	1646.79	2492.87	13141.78	18.97
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	2.32	2.32	2.32	100.00
Goa	0.00	0.00	0.00	0.00	5.44	5.44	5.44	100.00
Western Region Total	43198.20	539.79	1454.14	851.46	5664.61	7970.21	51708.20	15.41
SOUTHERN REGION								
Andhra Pradesh	4905.83	0.00	0.00	126.14	1048.16	1174.30	6080.13	19.31

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Month of December 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	4660.99	0.00	0.00	94.74	603.33	698.07	5359.06	13.03
Karnataka	3594.50	0.00	674.81	432.02	2502.25	3609.08	7203.58	50.10
Kerala	0.00	0.00	0.00	357.18	159.50	516.68	516.68	100.00
Tamil Nadu	5400.74	145.69	1487.93	305.69	1592.92	3386.54	8932.97	37.91
Lakshadweep	5.41	0.00	0.00	0.00	0.01	0.01	5.42	0.14
Puducherry	0.00	20.97	0.00	0.00	1.02	1.02	21.99	4.64
Southern Region Total	18567.47	166.66	2162.74	1315.77	5907.19	9385.70	28119.83	33.38
EASTERN REGION								
Andaman Nicobar	29.51	0.00	0.00	0.00	3.79	3.79	33.30	11.38
Bihar	4143.07	0.00	0.00	0.00	40.19	40.19	4183.26	0.96
Jharkhand	2906.57	0.00	0.00	19.98	1.47	21.45	2928.02	0.73
Odisha	5765.15	0.00	0.00	269.87	88.89	358.76	6123.91	5.86
Sikkim	0.00	0.00	0.00	70.75	1.03	71.78	71.78	100.00
West Bengal	7111.49	0.00	0.00	161.45	156.44	317.89	7429.38	4.28
Eastern Region Total	19955.79	0.00	0.00	522.05	291.80	813.85	20769.64	3.92
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	182.85	0.14	182.99	182.99	100.00
Assam	420.66	258.50	0.00	40.79	31.98	72.77	751.93	9.68
Manipur	0.00	0.00	0.00	33.16	0.61	33.77	33.77	100.00
Meghalaya	0.00	0.00	0.00	40.20	7.03	47.23	47.23	100.00
Mizoram	0.00	0.00	0.00	8.54	8.26	16.80	16.80	100.00
Nagaland	0.00	0.00	0.00	5.91	5.45	11.36	11.36	100.00
Tripura	0.00	521.06	0.00	0.00	0.49	0.49	521.55	0.09
North Eastern Region Total	420.66	779.56	0.00	311.45	53.97	365.42	1565.64	23.34
All India Total	103577.69	1913.56	4276.81	6167.11	16768.07	27211.99	132703.24	20.51

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

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Period of April- December 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	9.99	9.99	9.99	100.00
Delhi	0.00	2891.10	0.00	0.00	536.95	536.95	3428.05	15.66
Haryana	21441.38	137.28	0.00	0.00	1201.78	1201.78	22780.44	5.28
HP	0.00	0.00	0.00	32268.80	2359.86	34628.66	34628.66	100.00
J & K	0.00	0.00	0.00	13926.66	347.34	14274.00	14274.00	100.00
Ladakh	0.00	0.00	0.00	347.39	0.00	347.39	347.39	100.00
Punjab	24566.85	0.00	0.00	3875.17	3472.84	7348.01	31914.86	23.02
Rajasthan	43952.73	1021.20	5264.02	609.78	35418.53	41292.33	86266.26	47.87
Uttar Pradesh	115591.71	1554.86	2053.61	666.83	4680.33	7400.77	124547.34	5.94
Uttarakhand	0.00	354.24	0.00	11884.86	700.29	12585.15	12939.39	97.26
Northern Region Total	205552.67	5958.68	7317.63	63579.49	48727.90	119625.02	331136.37	36.13
WESTERN REGION								
Chhattisgarh	120111.32	0.00	0.00	257.93	1803.63	2061.56	122172.88	1.69
Gujarat	55860.64	6205.82	5563.53	3717.09	29450.12	38730.74	100797.20	38.42
Madhya Pradesh	110347.26	0.00	0.00	5313.27	7110.02	12423.29	122770.55	10.12
Maharashtra	97489.62	2656.18	6368.97	4293.19	13739.31	24401.47	124547.27	19.59
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	20.81	20.81	20.81	100.00
Goa	0.00	0.00	0.00	0.00	51.64	51.64	51.64	100.00
Western Region Total	383808.84	8862.00	11932.50	13581.48	52175.53	77689.51	470360.35	16.52
SOUTHERN REGION								
Andhra Pradesh	52461.09	0.00	0.00	1112.50	13621.02	14733.52	67194.61	21.93
Telangana	40964.99	0.00	0.00	1071.77	5432.98	6504.75	47469.74	13.70
Karnataka	31953.39	0.00	5562.90	7262.83	23314.08	36139.81	68093.20	53.07
Kerala	0.00	0.00	0.00	3895.44	1710.05	5605.49	5605.49	100.00

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Period of April- December 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	53074.95	1417.95	11450.33	2860.98	24307.08	38618.39	93111.29	41.48
Lakshadweep	47.80	0.00	0.00	0.00	0.07	0.07	47.87	0.14
Puducherry	0.00	177.60	0.00	0.00	9.18	9.18	186.78	4.91
Southern Region Total	178502.22	1595.55	17013.23	16203.52	68394.46	101611.21	281708.98	36.07
EASTERN REGION								
Andaman Nicobar	252.70	0.00	0.00	0.00	27.41	27.41	280.11	9.78
Bihar	43267.06	0.00	0.00	0.00	218.89	218.89	43485.95	0.50
Jharkhand	26257.70	0.00	0.00	179.21	13.23	192.44	26450.14	0.73
Odisha	48629.98	0.00	0.00	4897.38	972.57	5869.95	54499.93	10.77
Sikkim	0.00	0.00	0.00	8492.35	9.28	8501.63	8501.63	100.00
West Bengal	66682.01	0.00	0.00	2352.76	1440.13	3792.89	70474.90	5.38
Eastern Region Total	185089.45	0.00	0.00	15921.70	2681.50	18603.20	203692.65	9.13
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	3752.98	2.11	3755.09	3755.09	100.00
Assam	3930.55	2541.58	0.00	518.52	295.44	813.96	7286.09	11.17
Manipur	0.00	0.00	0.00	248.72	7.02	255.74	255.74	100.00
Meghalaya	0.00	0.00	0.00	714.12	53.60	767.72	767.72	100.00
Mizoram	0.00	0.00	0.00	81.71	74.34	156.05	156.05	100.00
Nagaland	0.00	0.00	0.00	155.53	72.93	228.46	228.46	100.00
Tripura	0.00	4945.72	0.00	0.00	3.58	3.58	4949.30	0.07
North Eastern Region Total	3930.55	7487.30	0.00	5471.58	509.02	5980.60	17398.45	34.37
All India Total	956883.73	23903.53	36263.36	114757.77	172488.40	323509.53	1304296.79	24.80

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

Renewable Energy (State Wise) Generation(MU) for the Month of December 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	262.09	0.00	0.00	63.64	63.64	325.73	19.54
Haryana	2258.38	0.00	0.00	0.00	146.51	146.51	2404.89	6.09
HP	0.00	0.00	0.00	1430.66	97.12	1527.78	1527.78	100.00
J & K	0.00	0.00	0.00	437.96	16.32	454.28	454.28	100.00
Ladakh	0.00	0.00	0.00	18.00	0.00	18.00	18.00	100.00
Punjab	2584.73	0.00	0.00	382.23	228.89	611.12	3195.85	19.12
Rajasthan	4884.34	56.62	658.01	104.56	3428.13	4190.70	9131.66	38.69
Uttar Pradesh	11708.12	49.41	1.92	27.42	791.44	820.78	12578.31	6.51
Uttarakhand	0.00	59.43	0.00	765.55	77.81	843.36	902.79	93.42
Northern Region Total	21435.57	427.55	659.93	3166.38	4850.49	8676.80	30539.92	26.25
WESTERN REGION								
Chhattisgarh	13388.07	0.00	0.00	3.72	223.65	227.37	13615.44	1.67
Gujarat	6339.24	290.02	840.69	253.05	3113.09	4206.83	10836.09	31.06
Madhya Pradesh	13071.75	0.00	0.00	362.06	673.33	1035.39	14107.14	7.34
Maharashtra	10399.14	249.77	613.45	232.63	1646.79	2492.87	13141.78	14.30
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	2.32	2.32	2.32	100.00
Goa	0.00	0.00	0.00	0.00	5.44	5.44	5.44	100.00
Western Region Total	43198.20	539.79	1454.14	851.46	5664.61	7970.21	51708.20	12.60
SOUTHERN REGION								
Andhra Pradesh	4905.83	0.00	0.00	126.14	1048.16	1174.30	6080.13	19.31
Telangana	4660.99	0.00	0.00	94.74	603.33	698.07	5359.06	13.03
Karnataka	3594.50	0.00	674.81	432.02	2502.25	3609.08	7203.58	40.73

Renewable Energy (State Wise) Generation(MU) for the Month of December 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	357.18	159.50	516.68	516.68	100.00
Tamil Nadu	5400.74	145.69	1487.93	305.69	1592.92	3386.54	8932.97	21.25
Lakshadweep	5.41	0.00	0.00	0.00	0.01	0.01	5.42	0.14
Puducherry	0.00	20.97	0.00	0.00	1.02	1.02	21.99	4.64
Southern Region Total	18567.47	166.66	2162.74	1315.77	5907.19	9385.70	28119.83	25.69
EASTERN REGION								
Andaman Nicobar	29.51	0.00	0.00	0.00	3.79	3.79	33.30	11.38
Bihar	4143.07	0.00	0.00	0.00	40.19	40.19	4183.26	0.96
Jharkhand	2906.57	0.00	0.00	19.98	1.47	21.45	2928.02	0.73
Odisha	5765.15	0.00	0.00	269.87	88.89	358.76	6123.91	5.86
Sikkim	0.00	0.00	0.00	70.75	1.03	71.78	71.78	100.00
West Bengal	7111.49	0.00	0.00	161.45	156.44	317.89	7429.38	4.28
Eastern Region Total	19955.79	0.00	0.00	522.05	291.80	813.85	20769.64	3.92
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	182.85	0.14	182.99	182.99	100.00
Assam	420.66	258.50	0.00	40.79	31.98	72.77	751.93	9.68
Manipur	0.00	0.00	0.00	33.16	0.61	33.77	33.77	100.00
Meghalaya	0.00	0.00	0.00	40.20	7.03	47.23	47.23	100.00
Mizoram	0.00	0.00	0.00	8.54	8.26	16.80	16.80	100.00
Nagaland	0.00	0.00	0.00	5.91	5.45	11.36	11.36	100.00
Tripura	0.00	521.06	0.00	0.00	0.49	0.49	521.55	0.09
North Eastern Region Total	420.66	779.56	0.00	311.45	53.97	365.42	1565.64	23.34
All India Total	103577.69	1913.56	4276.81	6167.11	16768.07	27211.99	132703.24	17.28

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

Renewable Energy (State Wise Generation(MU) for the Period of April- December 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	9.99	9.99	9.99	100.00
Delhi	0.00	2891.10	0.00	0.00	536.95	536.95	3428.05	15.66
Haryana	21441.38	137.28	0.00	0.00	1201.78	1201.78	22780.44	5.28
HP	0.00	0.00	0.00	32268.80	2359.86	34628.66	34628.66	100.00
J & K	0.00	0.00	0.00	13926.66	347.34	14274.00	14274.00	100.00
Ladakh	0.00	0.00	0.00	347.39	0.00	347.39	347.39	100.00
Punjab	24566.85	0.00	0.00	3875.17	3472.84	7348.01	31914.86	23.02
Rajasthan	43952.73	1021.20	5264.02	609.78	35418.53	41292.33	86266.26	41.76
Uttar Pradesh	115591.71	1554.86	2053.61	666.83	4680.33	7400.77	124547.34	4.29
Uttarakhand	0.00	354.24	0.00	11884.86	700.29	12585.15	12939.39	97.26
Northern Region Total	205552.67	5958.68	7317.63	63579.49	48727.90	119625.02	331136.37	33.92
WESTERN REGION								
Chhattisgarh	120111.32	0.00	0.00	257.93	1803.63	2061.56	122172.88	1.69
Gujarat	55860.64	6205.82	5563.53	3717.09	29450.12	38730.74	100797.20	32.90
Madhya Pradesh	110347.26	0.00	0.00	5313.27	7110.02	12423.29	122770.55	10.12
Maharashtra	97489.62	2656.18	6368.97	4293.19	13739.31	24401.47	124547.27	14.48
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	20.81	20.81	20.81	100.00
Goa	0.00	0.00	0.00	0.00	51.64	51.64	51.64	100.00
Western Region Total	383808.84	8862.00	11932.50	13581.48	52175.53	77689.51	470360.35	13.98
SOUTHERN REGION								
Andhra Pradesh	52461.09	0.00	0.00	1112.50	13621.02	14733.52	67194.61	21.93
Telangana	40964.99	0.00	0.00	1071.77	5432.98	6504.75	47469.74	13.70
Karnataka	31953.39	0.00	5562.90	7262.83	23314.08	36139.81	68093.20	44.90

Renewable Energy (State Wise Generation(MU) for the Period of April- December 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	3895.44	1710.05	5605.49	5605.49	100.00
Tamil Nadu	53074.95	1417.95	11450.33	2860.98	24307.08	38618.39	93111.29	29.18
Lakshadweep	47.80	0.00	0.00	0.00	0.07	0.07	47.87	0.14
Puducherry	0.00	177.60	0.00	0.00	9.18	9.18	186.78	4.91
Southern Region Total	178502.22	1595.55	17013.23	16203.52	68394.46	101611.21	281708.98	30.03
EASTERN REGION								
Andaman Nicobar	252.70	0.00	0.00	0.00	27.41	27.41	280.11	9.78
Bihar	43267.06	0.00	0.00	0.00	218.89	218.89	43485.95	0.50
Jharkhand	26257.70	0.00	0.00	179.21	13.23	192.44	26450.14	0.73
Odisha	48629.98	0.00	0.00	4897.38	972.57	5869.95	54499.93	10.77
Sikkim	0.00	0.00	0.00	8492.35	9.28	8501.63	8501.63	100.00
West Bengal	66682.01	0.00	0.00	2352.76	1440.13	3792.89	70474.90	5.38
Eastern Region Total	185089.45	0.00	0.00	15921.70	2681.50	18603.20	203692.65	9.13
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	3752.98	2.11	3755.09	3755.09	100.00
Assam	3930.55	2541.58	0.00	518.52	295.44	813.96	7286.09	11.17
Manipur	0.00	0.00	0.00	248.72	7.02	255.74	255.74	100.00
Meghalaya	0.00	0.00	0.00	714.12	53.60	767.72	767.72	100.00
Mizoram	0.00	0.00	0.00	81.71	74.34	156.05	156.05	100.00
Nagaland	0.00	0.00	0.00	155.53	72.93	228.46	228.46	100.00
Tripura	0.00	4945.72	0.00	0.00	3.58	3.58	4949.30	0.07
North Eastern Region Total	3930.55	7487.30	0.00	5471.58	509.02	5980.60	17398.45	34.37
All India Total	956883.73	23903.53	36263.36	114757.77	172488.40	323509.53	1304296.79	22.02

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

RE generation(MUs) data (source wise) for the month of December 2023 and December 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Dec'23	Dec'22	Dec'23	Dec'22	Dec'23	Dec'22	Dec'23	Dec'22	Dec'23	Dec'22	Dec'23	Dec'22	Dec'23	Dec'22
NORTHERN REGION														
Chandigarh	0.00	0.00	0.63	1.00	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	18.23	0.00	0.00
Haryana	0.00	0.00	96.90	19.64	20.79	34.08	3.11	22.42	21.14	21.73	4.57	5.88	0.00	0.00
Himachal Pradesh	0.00	0.00	4.76	4.23	0.00	0.00	0.00	0.00	92.36	136.00	0.00	0.00	1430.66	1757.96
J & K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.32	15.99	0.00	0.00	437.96	465.84
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	18.00	16.58
Punjab	0.00	0.00	73.70	240.87	59.16	59.43	32.95	39.46	63.08	48.76	0.00	0.00	382.23	378.70
Rajasthan	491.77	281.01	2900.31	2840.35	34.61	37.06	0.00	0.00	1.43	1.95	0.00	0.00	104.56	133.47
Uttar Pradesh	0.00	0.00	255.67	285.47	4.11	3.80	509.37	552.08	20.80	27.91	1.50	4.52	27.42	108.78
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	765.55	867.62
Northern Region	491.77	281.01	3376.83	3436.29	118.67	134.37	566.14	634.67	244.57	281.79	52.51	28.63	3166.38	3728.95
WESTERN REGION														
Chhattisgarh	0.00	0.00	84.92	60.37	127.24	140.20	4.30	1.97	7.19	5.50	0.00	0.00	3.72	3.73
Gujarat	2028.39	1591.32	1065.84	835.69	0.00	0.00	0.00	0.00	18.86	17.33	0.00	0.00	253.05	260.25
Madhya Pradesh	286.95	261.42	319.95	264.78	7.69	3.29	15.22	21.73	41.13	43.84	2.39	2.20	362.06	400.60
Maharashtra	381.25	280.75	466.05	401.35	23.83	16.43	702.15	802.99	68.17	33.66	5.34	0.02	232.63	464.96
Dadra and Nagar Haveli and Daman and Diu	0.00	0.00	1.14	1.26	1.18	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 December 2023 and December 2022

Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Dec'23	Dec'22	Dec'23	Dec'22	Dec'23	Dec'22	Dec'23	Dec'22	Dec'23	Dec'22	Dec'23	Dec'22	Dec'23	Dec'22
Western Region	2696.59	2133.49	1942.66	1564.96	159.94	159.92	721.67	826.69	135.35	100.33	8.41	2.64	851.46	1129.54
SOUTHERN REGION														
Andhra Pradesh	422.65	323.57	578.54	617.09	1.62	3.24	9.16	7.54	9.73	50.00	26.46	21.81	126.14	210.10
Telangana	22.33	20.07	539.06	525.48	1.57	0.04	20.41	35.40	5.81	5.10	14.16	14.42	94.74	221.68
Karnataka	721.20	611.28	1181.20	1149.15	3.65	8.28	530.95	472.88	65.25	161.01	0.00	0.00	432.02	1094.95
Kerala	8.65	6.91	100.03	86.26	0.00	0.00	6.92	5.36	43.90	52.97	0.00	0.00	357.18	516.06
Tamil Nadu	749.80	619.82	751.15	719.09	11.71	10.47	52.23	90.22	28.04	34.27	0.00	0.00	305.69	518.42
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	1924.63	1581.65	3151.00	3098.10	18.55	22.02	619.67	611.41	152.73	303.36	40.62	36.23	1315.77	2561.21
EASTERN REGION														
Andaman Nicobar	0.00	0.00	2.61	1.56	0.00	0.00	0.00	0.00	1.18	1.24	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	14.96	12.29	0.00	0.00	25.09	25.10	0.13	0.00	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	1.47	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.98	3.00
Odisha	0.00	0.00	60.28	60.28	9.30	9.30	0.00	0.00	19.31	19.31	0.00	0.00	269.87	218.95
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	70.75	393.02
West Bengal	0.00	0.00	16.09	10.13	0.00	0.00	0.00	0.00	12.77	18.23	127.58	142.34	161.45	223.82
Eastern Region	0.00	0.00	95.40	85.72	9.30	9.30	25.09	25.10	34.42	39.81	127.58	142.34	522.05	838.79

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

Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Dec'23	Dec'22	Dec'23	Dec'22	Dec'23	Dec'22	Dec'23	Dec'22	Dec'23	Dec'22	Dec'23	Dec'22	Dec'23	Dec'22
NORTH-EASTERN REGION														
Arunachal Pradesh	0.00	0.00	0.10	0.19	0.00	0.00	0.00	0.00	0.05	0.06	0.00	0.00	182.85	230.93
Assam	0.00	0.00	27.15	20.76	0.00	0.00	0.00	0.00	4.73	6.38	0.10	0.00	40.79	26.52
Manipur	0.00	0.00	0.61	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.16	20.49
Megh alaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.03	3.53	0.00	0.00	40.20	36.23
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	8.54	11.82
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	5.91	6.27
Tripura	0.00	0.00	0.49	0.55	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	28.62	22.44	0.00	0.00	0.00	0.00	25.25	33.17	0.10	0.00	311.45	332.26
All India Total	5113.00	3996.15	8594.51	8207.51	306.46	325.61	1932.57	2097.86	592.32	758.46	229.22	209.84	6167.11	8590.75

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

RE generation(MUs) data (source wise) for the period of April-December 2023 and April-December 2022

Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22
NORTHERN REGION														
Chandigarh	0.00	0.00	9.99	9.03	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	154.90	184.48	0.00	0.00	0.00	0.00	0.00	0.00	382.05	198.43	0.00	0.00
Haryana	0.00	0.00	701.62	448.65	218.99	272.31	57.46	150.31	178.80	193.14	44.91	49.12	0.00	0.00
Himachal Pradesh	0.00	0.00	44.94	46.59	0.00	0.00	0.00	0.00	2314.92	2559.13	0.00	0.00	32268.80	34487.77
J & K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	347.34	327.03	0.00	0.00	13926.66	14433.20
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	347.39	359.84
Punjab	0.00	0.00	2403.38	1919.79	440.49	342.61	83.69	84.24	545.28	549.69	0.00	0.00	3875.17	3443.48
Rajasthan	6861.59	4995.24	28274.90	25120.22	279.48	296.10	0.00	0.00	2.56	3.23	0.00	0.00	609.78	642.53
Uttar Pradesh	0.00	0.00	2966.98	2697.61	24.39	45.57	1486.24	1519.94	126.03	172.59	76.69	42.03	666.83	696.80
Uttarakhand	0.00	0.00	248.85	248.85	0.00	0.00	186.39	186.39	265.05	265.05	0.00	0.00	11884.86	13177.53
Northern Region	6861.59	4995.24	34805.56	30675.22	963.35	956.59	1813.77	1940.88	3779.98	4069.87	503.65	289.58	63579.49	67241.15
WESTERN REGION														
Chhattisgarh	0.00	0.00	622.30	411.43	1038.31	819.56	8.85	4.93	134.17	137.80	0.00	0.00	257.93	190.27
Gujarat	19804.55	14942.86	9499.73	7210.67	0.00	0.00	0.74	2.88	145.11	144.76	0.00	2.24	3717.09	5166.03
Madhya Pradesh	3946.61	3653.87	2696.29	2855.08	64.85	10.23	27.28	47.29	355.13	257.81	19.86	26.46	5313.27	5887.46
Maharashtra	7121.00	6286.56	4130.21	2989.75	228.17	168.23	1561.09	2611.02	684.92	576.43	13.92	0.37	4293.19	4488.50

RE generation(MUs) data (source wise) for the period of April-December 2023 and April-December 2022

Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22
Dadra and Nagar Haveli and Daman and Diu	0.00	0.00	11.10	23.18	9.71	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Goa	0.00	0.00	45.72	10.33	0.00	0.00	0.00	0.00	0.00	0.00	5.92	3.82	0.00	0.00
Western Region	30872.15	24883.29	17005.34	13500.44	1341.04	1001.23	1597.96	2666.13	1319.33	1116.79	39.70	32.88	13581.48	15732.26
SOUTHERN REGION														
Andhra Pradesh	7257.52	6283.17	5990.90	5828.41	13.38	45.57	32.57	69.41	95.97	285.10	230.68	206.08	1112.50	3128.30
Telangana	242.92	223.54	4988.87	4802.72	3.88	21.37	38.82	58.82	50.16	82.88	108.33	119.47	1071.77	5590.10
Karnataka	9216.22	8012.45	11119.16	9983.65	44.20	89.33	1637.40	1695.23	1297.11	2056.54	0.00	0.00	7262.83	10024.71
Kerala	196.72	157.68	840.23	547.16	0.00	0.00	60.45	45.53	612.62	738.61	0.03	0.00	3895.44	6589.02
Tamil Nadu	15177.48	14976.98	8468.41	6629.06	95.56	95.49	423.43	542.98	142.21	231.27	0.00	0.00	2860.98	4746.82
Lakshadweep	0.00	0.00	0.07	0.08	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	9.18	9.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Southern Region	32090.85	29653.83	31416.82	27800.26	157.01	251.76	2192.67	2411.98	2198.06	3394.40	339.05	325.55	16203.52	30078.95
EASTERN REGION														
Andaman Nicobar	0.00	0.00	18.10	17.57	0.00	0.00	0.00	0.00	9.31	11.95	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	140.65	126.93	0.00	0.00	72.73	35.63	5.51	9.91	0.00	0.00	0.00	0.00

RE generation(MUs) data (source wise) for the period of April-December 2023 and April-December 2022

Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22	Apr'23-Dec'23	Apr'22-Dec'22
Jharkhand	0.00	0.00	13.23	15.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	179.21	281.07
Odisha	0.00	0.00	548.77	509.20	73.21	42.14	0.00	0.00	350.59	361.98	0.00	0.00	4897.38	4464.60
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.27	9.27	0.00	0.00	8492.36	10858.86
West Bengal	0.00	0.00	119.30	92.01	0.00	0.00	0.00	0.00	163.65	166.61	1157.18	1248.74	2352.76	2861.29
Eastern Region	0.00	0.00	840.05	760.99	73.21	42.14	72.73	35.63	538.32	559.72	1157.18	1248.74	15921.71	18465.82
NORTH-EASTERN REGION														
Arunachal Pradesh	0.00	0.00	1.59	21.73	0.00	0.00	0.00	0.00	0.52	2.34	0.00	0.03	3752.98	4284.77
Assam	0.00	0.00	238.47	152.17	0.00	0.00	0.00	0.00	56.58	52.09	0.39	0.00	518.52	435.53
Manipur	0.00	0.00	5.79	6.29	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.01	248.72	446.43
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	53.60	60.40	0.00	0.00	714.12	887.75
Mizoram	0.00	0.00	2.39	2.42	0.00	0.00	0.00	0.00	71.95	35.07	0.00	0.00	81.71	166.49
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	72.93	102.07	0.00	0.00	155.53	164.46
Tripura	0.00	0.00	3.58	4.95	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	251.82	187.56	0.00	0.00	0.00	0.00	255.57	251.98	1.62	0.03	5471.58	6385.43
All India Total	69824.59	59532.36	84319.58	72924.48	2534.61	2251.72	5677.13	7054.61	8091.27	9392.75	2041.21	1896.79	114757.78	137903.61



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