



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

August-2023/अगस्त-2023

नवीकरणीय परियोजना प्रबोधन प्रभाग
Renewable Project Monitoring Division

वितरण सूची/Distribution List

1. सचिव, विद्युत मंत्रालय, श्रम शक्ति भवन, रफी मार्ग, नई दिल्ली- 110001
Secretary, Ministry of Power, Shram Shakti Bhawan, Rafi Marg, New Delhi-01
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Adviser (Energy), Niti Aayog, Sansad Marg, New Delhi, Delhi 110001
8. मुख्य अभियंता (जी.एम.), के.वि.प्रा. सेवा भवन, नई दिल्ली- 110066
Chief Engineer (GM), CEA, Sewa Bhawan, New Delhi-110066
9. मुख्य अभियंता (आई.टी.), के.वि.प्रा. सेवा भवन, नई दिल्ली- 110066
Chief Engineer (IT), CEA, Sewa Bhawan, New Delhi-110066
10. मुख्य अभियंता (ओ.पी.एम.), के.वि.प्रा. सेवा भवन, नई दिल्ली- 110066
Chief Engineer (OPM), CEA, Sewa Bhawan, New Delhi-110066
11. मुख्य अभियंता (आई सी एवम समन्वय), के.वि.प्रा. सेवा भवन, नई दिल्ली- 110066
Chief Engineer (Coord.), CEA, Sewa Bhawan, New Delhi-110066
12. निदेशालय (अर्थशास्त्र और सांख्यिकी), विकास भवन- II, तीसरी मंजिल, B 'विंग, मेटकाफ हाउस, न. दि -110054
Directorate of Economics & Statistics, Vikas Bhawan-II, IIIrd Floor, 'B' Wing, Metcalfe House, ND-54.

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Highlights of RE GENERATION

During August 2023

1. RE capacity addition during August 2023 has been 628.39 MW (Solar - 464.99 MW and Wind – 149.6 MW, Bio Power-13.8 MW).
2. RE generation during August 2023 has increased by 07.83 % as compared to August 2022.
3. Large Hydro Power generation during August 2023 as compared to August 2022 has decreased by 08.40%.
4. Solar Power generation during August 2023 as compared to August 2022 has increased by 25.54 % on All India basis in all States/UTs except states of Haryana, Himachal Pradesh, Bihar, West Bengal and Arunachal Pradesh.
5. Wind Power generation during August 2023 as compared to August 2022 has increased by 42.54 % on All India basis in all States/UTs except States of Telangana and Tamil Nadu.
6. Biomass Power generation during August 2023 as compared to August 2022 has increased by 31.15 % on All India basis except States of Rajasthan, Haryana, Uttar Pradesh , Andhra Pradesh, Karnataka and Tamil Nadu .
7. Bagasse power generation during August 2023 as compared to August 2022 has decreased by 29.20 %.
8. Others (Waste to Heat) Power generation has increased by 0.64 % during August 2023 as compared to August 2022 except States of Uttar Pradesh, Madhya Pradesh , Maharashtra and West Bengal.
9. Small Hydro Power generation during August 2023 as compared to August 2022 has decreased by 18.55 %.

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

Decreased by 61.69 % as compared to August 22.

Decreased by 49.47 % as compared to July 23.

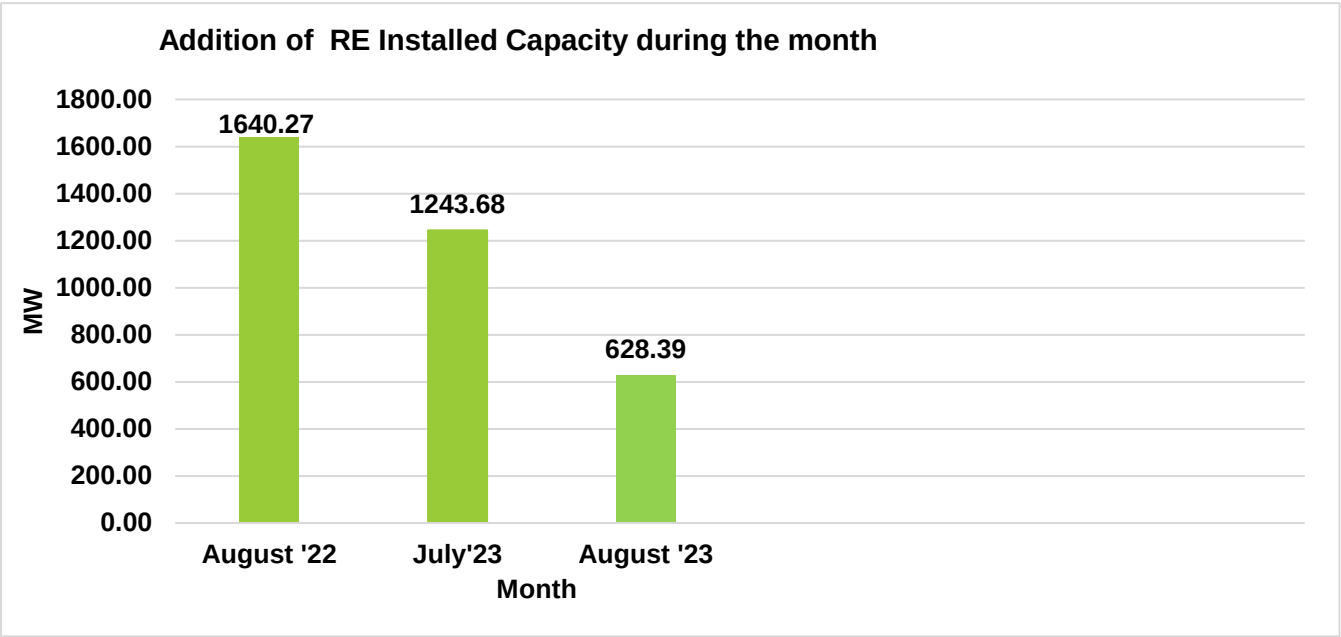


Figure 1: RE capacity added during the Month

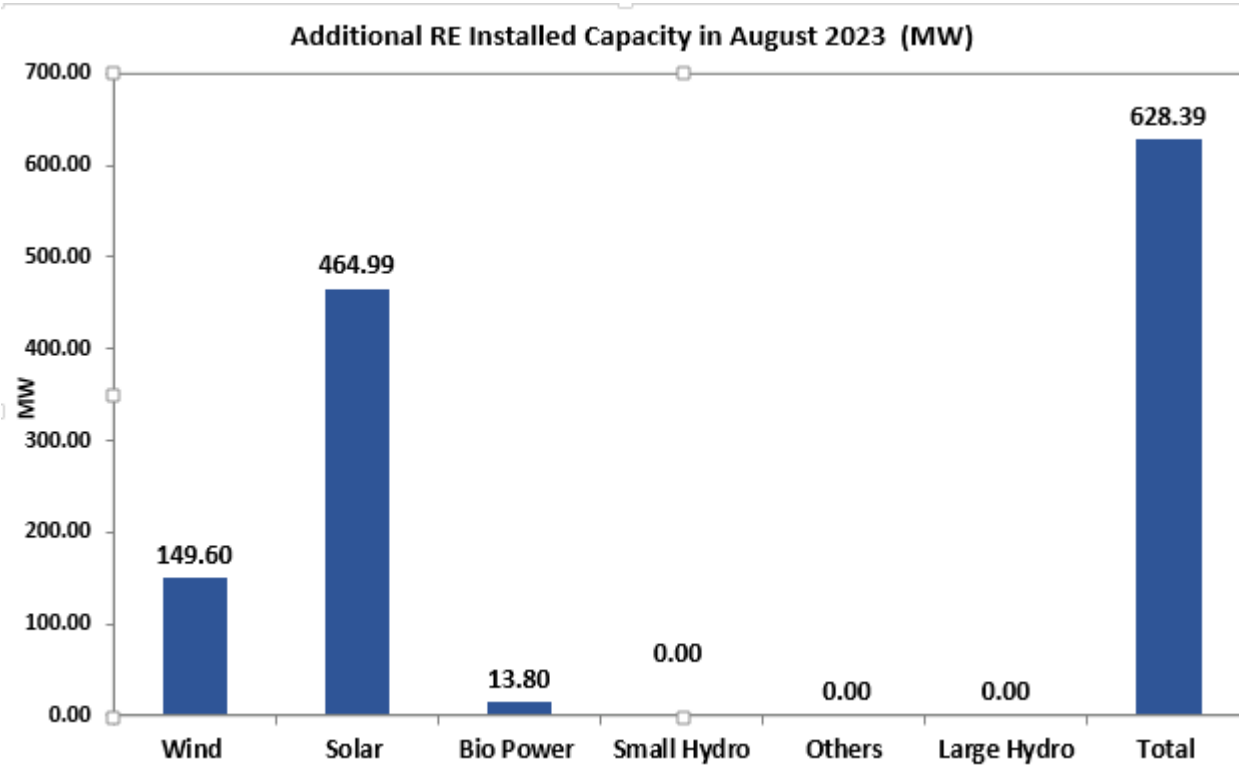


Figure 2: Source wise addition in RE Installed Capacity in August 23

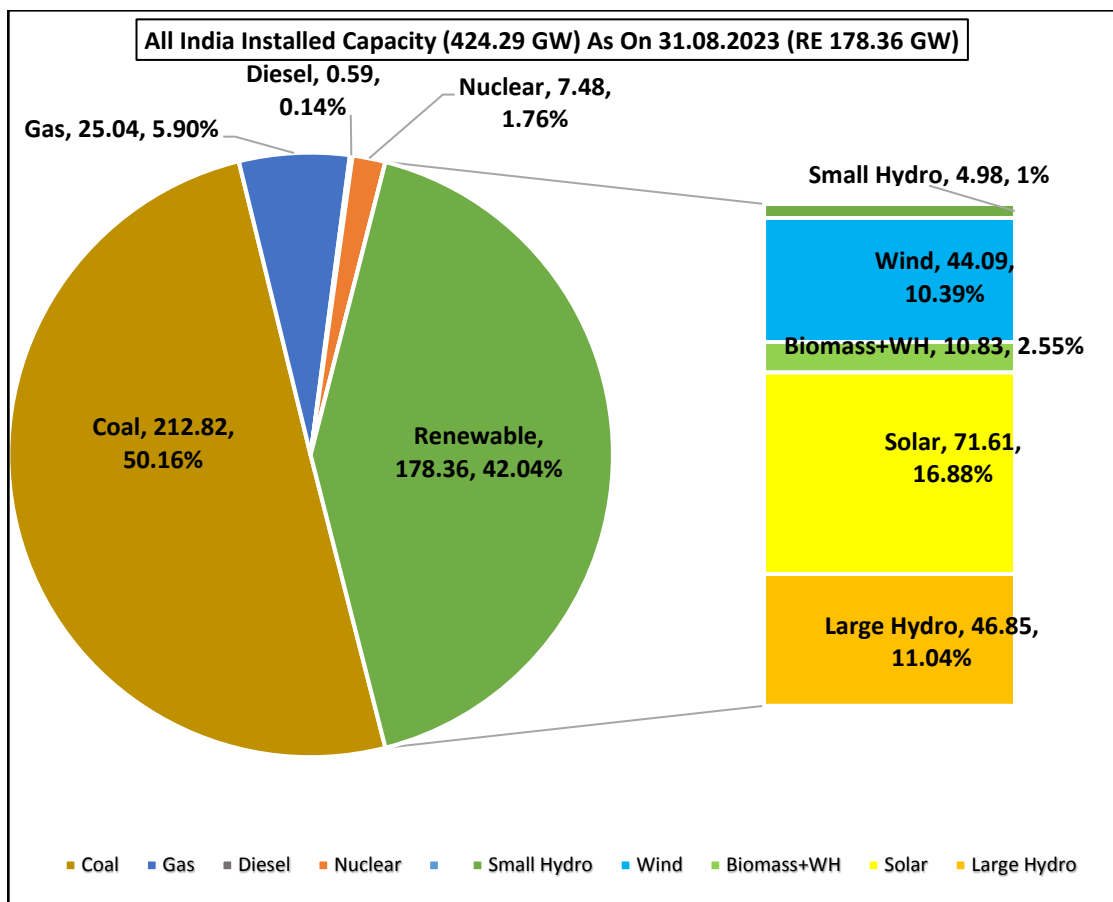


Figure 3: Installed Capacity in India as on 31.08.2023

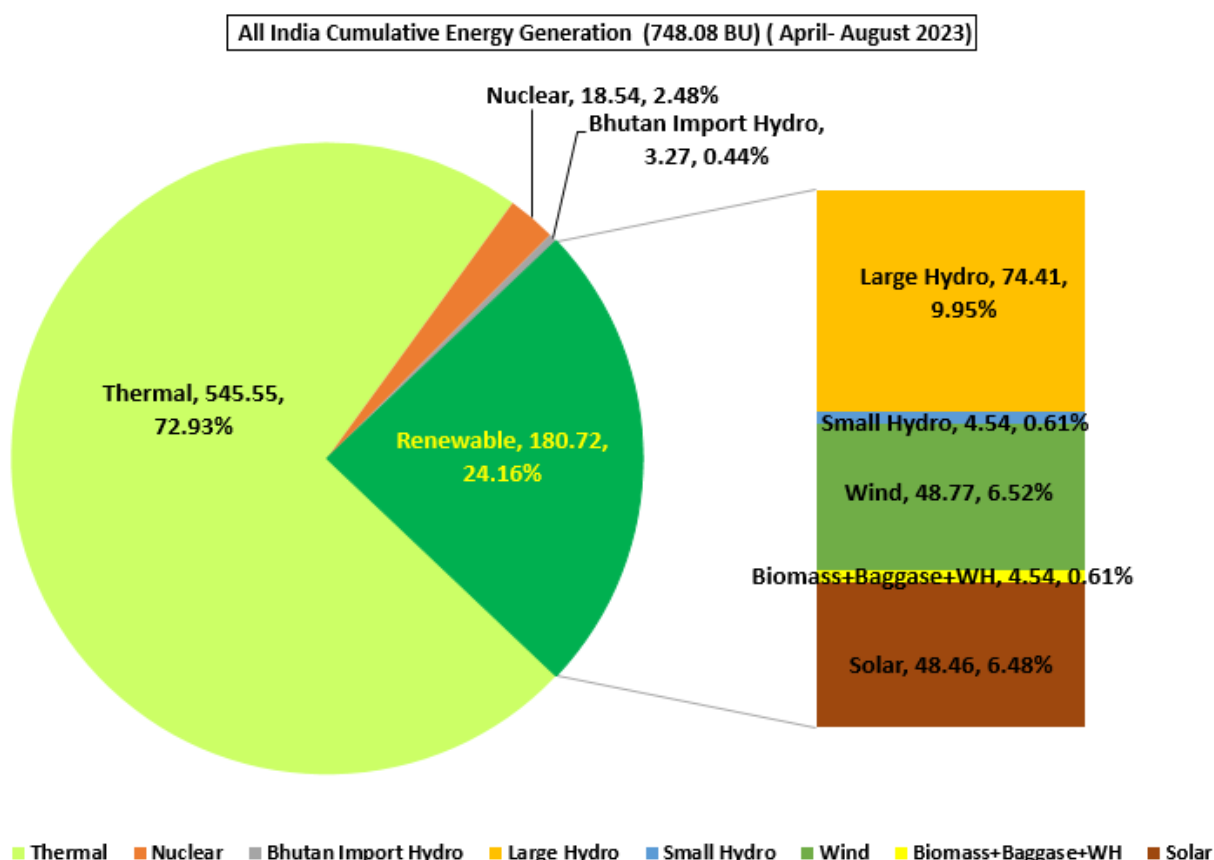


Figure 4: Cumulative Total Energy Generation in India and Share of RE for the year 2023-24

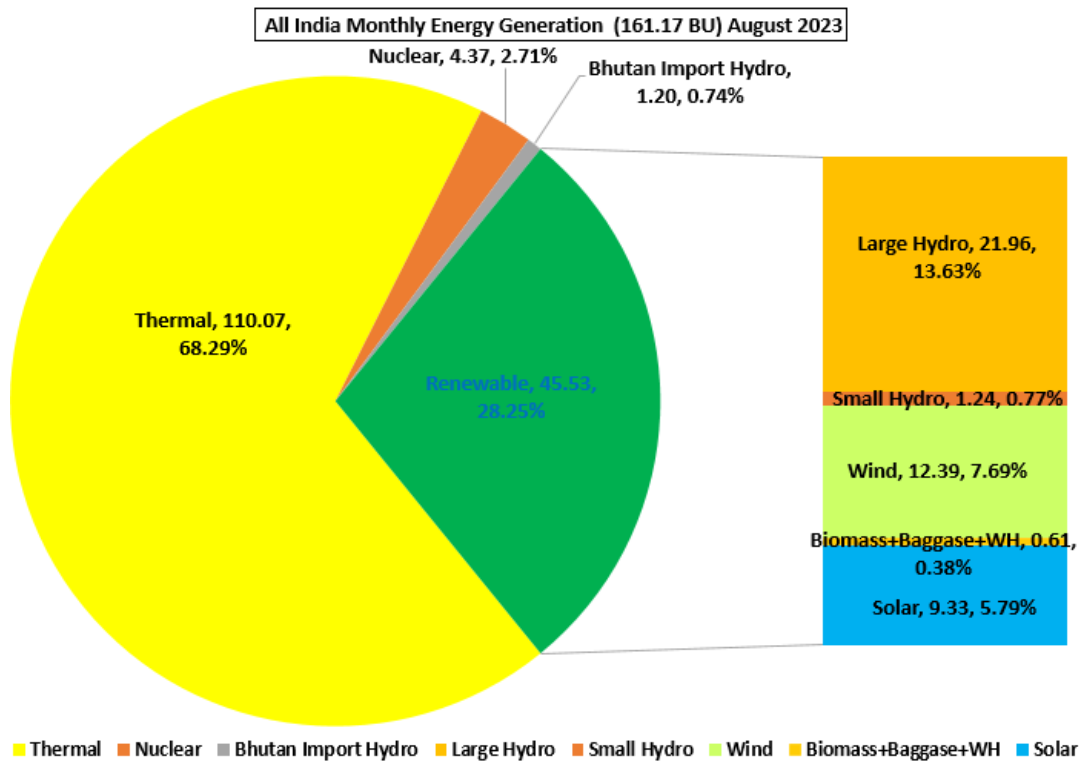


Figure 5: Total Energy Generation in India and Share of RE in the month of August 2023

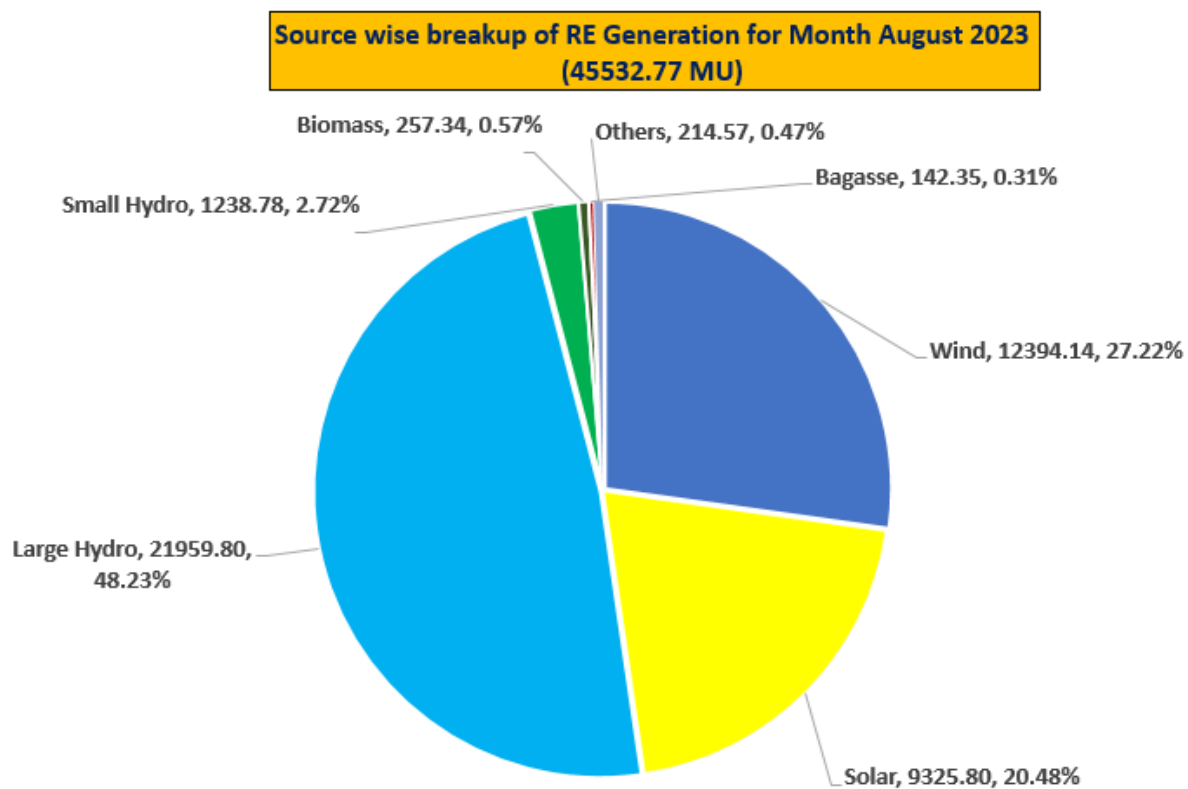


Figure 6: Source wise breakup of RE Generation in the month of August-2023

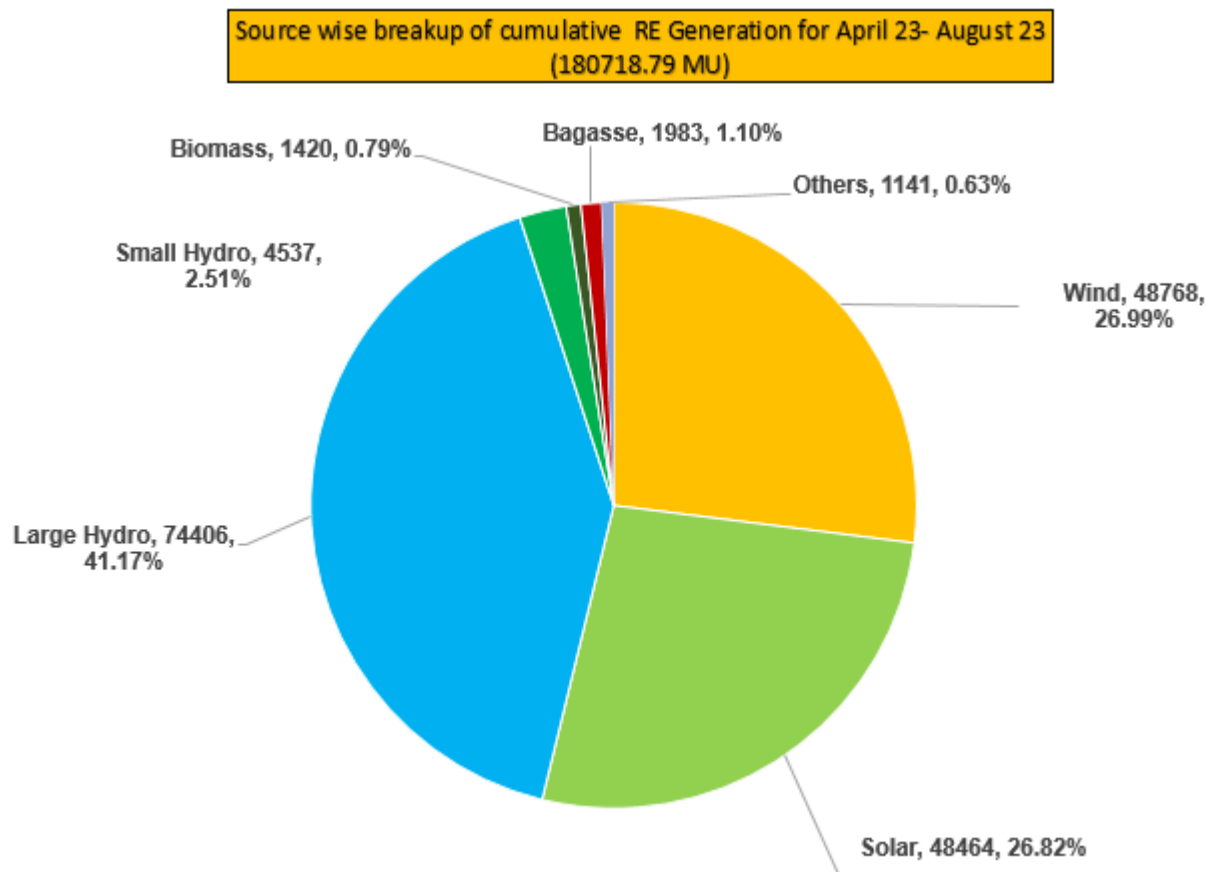


Figure 7: Source wise breakup of Cumulative RE Generation for the year 2023-24.

Summary of Renewable Energy Generation

Increased by 07.83 % as compared to August 22

Increased by 11.95 % as compared to July '23.

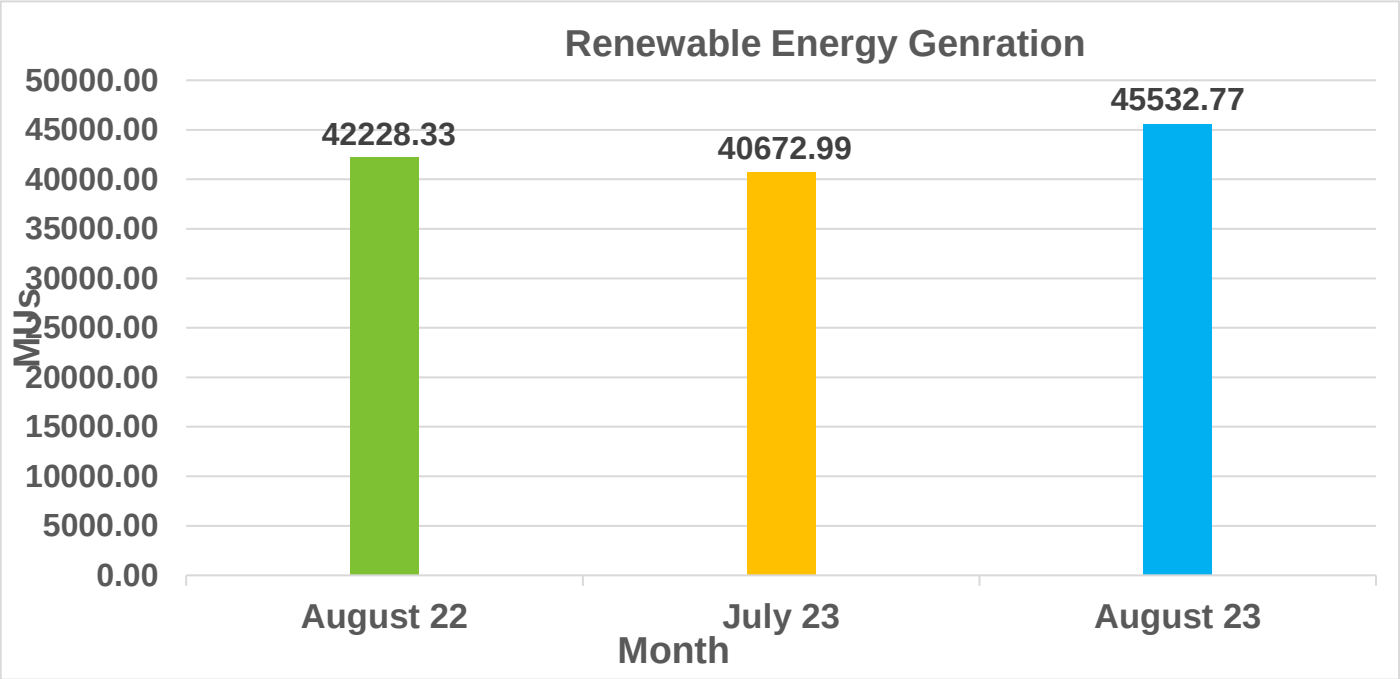


Figure 8: Renewable Energy Generation

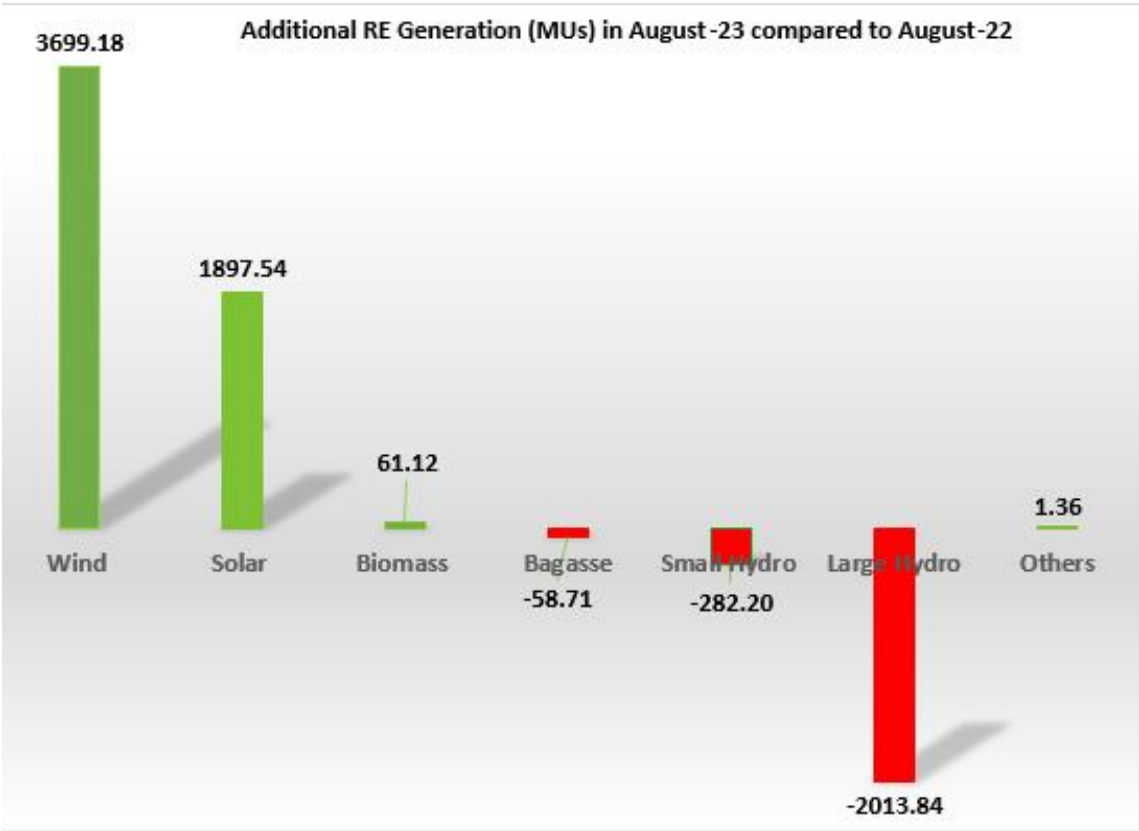


Figure 9: Additional RE Generation in August-23 as compared to August-22

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

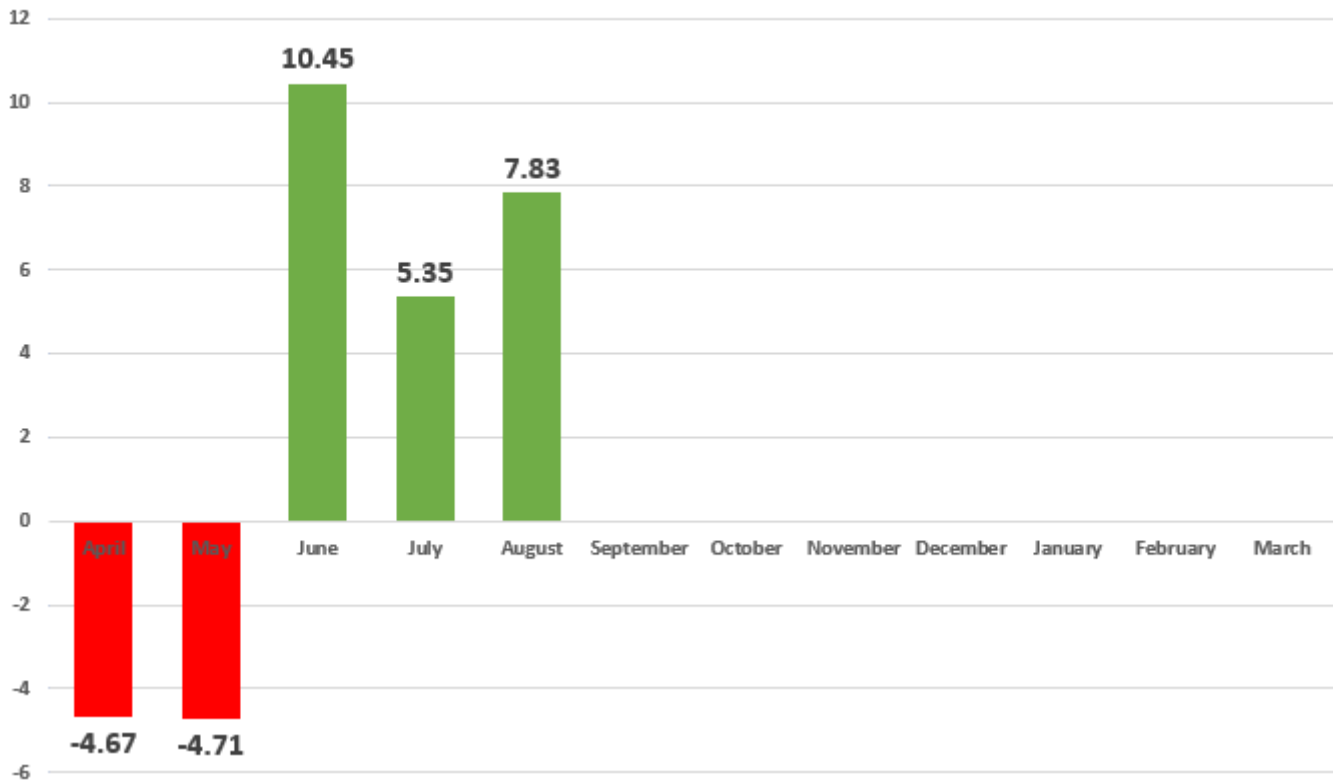


Figure 10: Month Wise % Growth of RE Generation in year 2023-24 w.r.t to previous year Same Month.

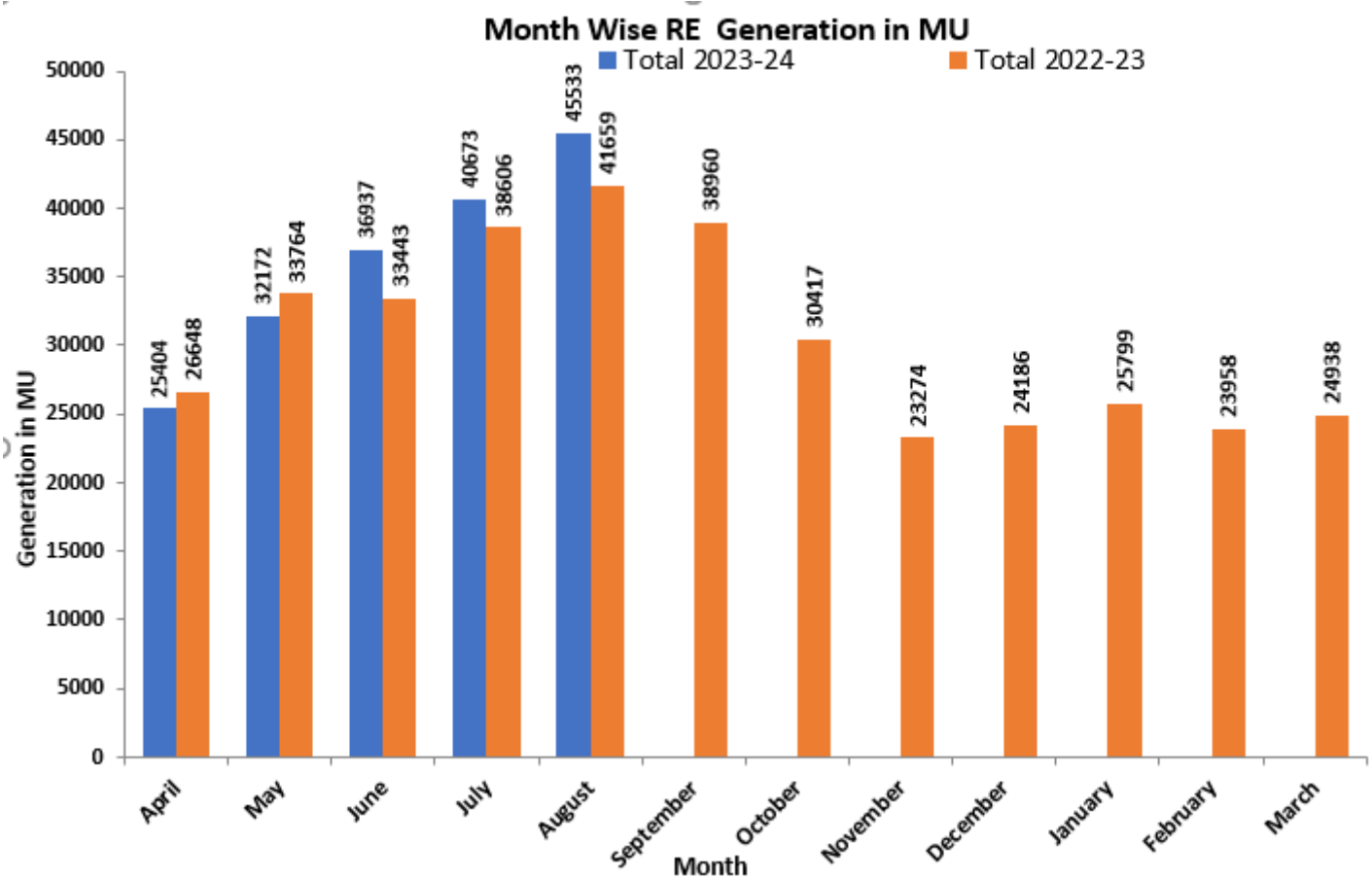


Figure 11: comparison of Month Wise RE Generation in year 2022-23 & in year 2023-24

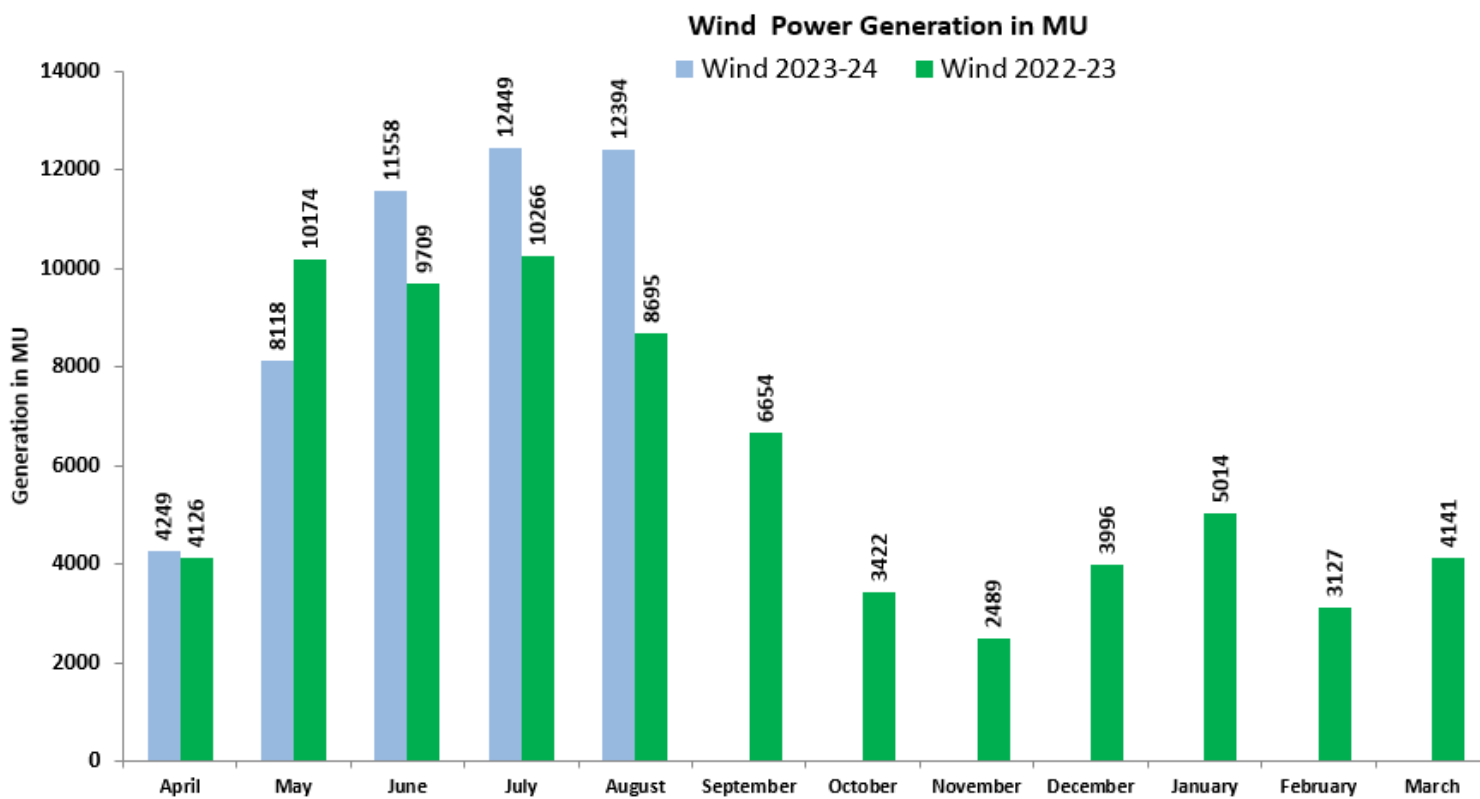


Figure 12: Month Wise Wind Power Generation for the year 2022-23 and year 2023-24.

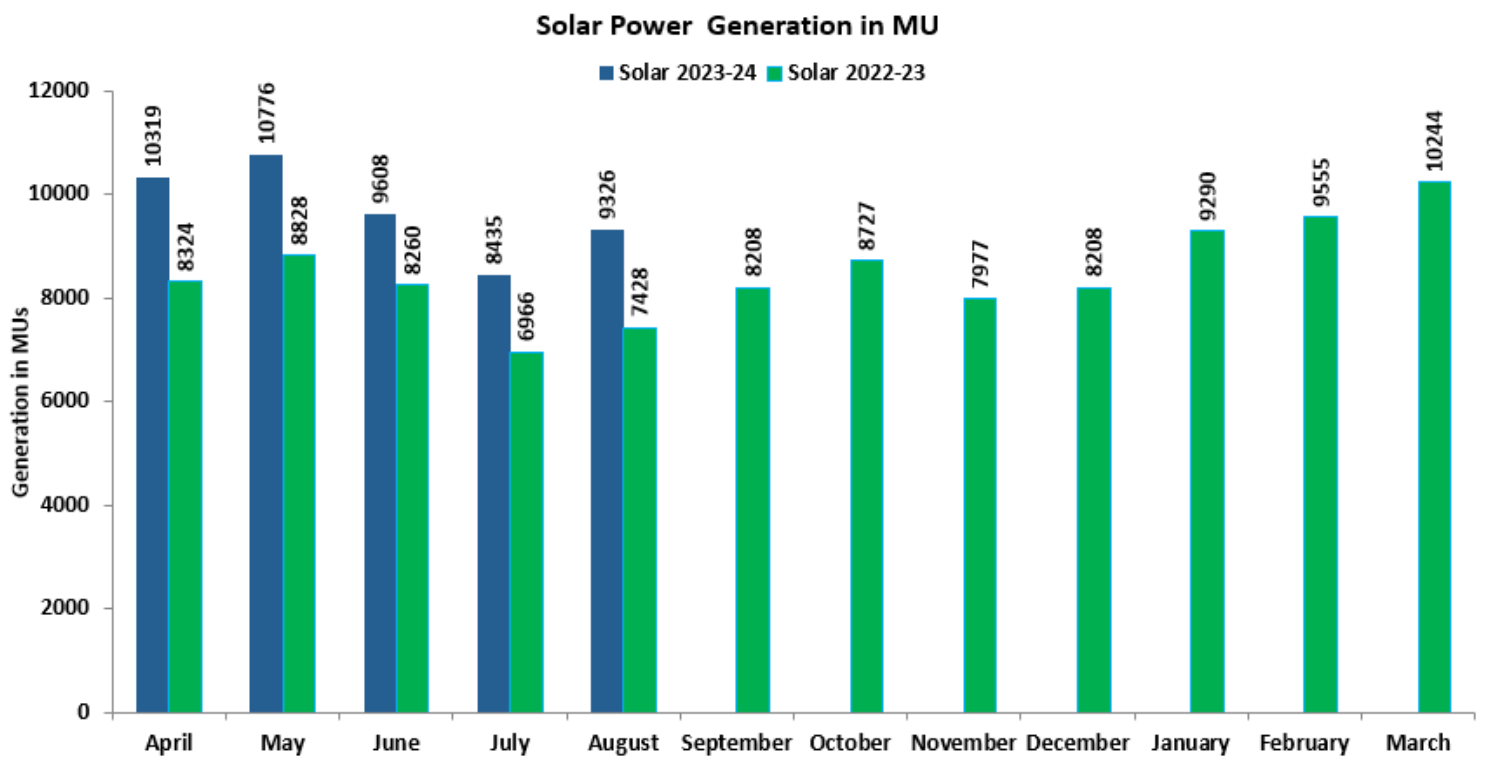


Figure 13: Month Wise Solar Power Generation for the year 2022-23 and year 2023-24.

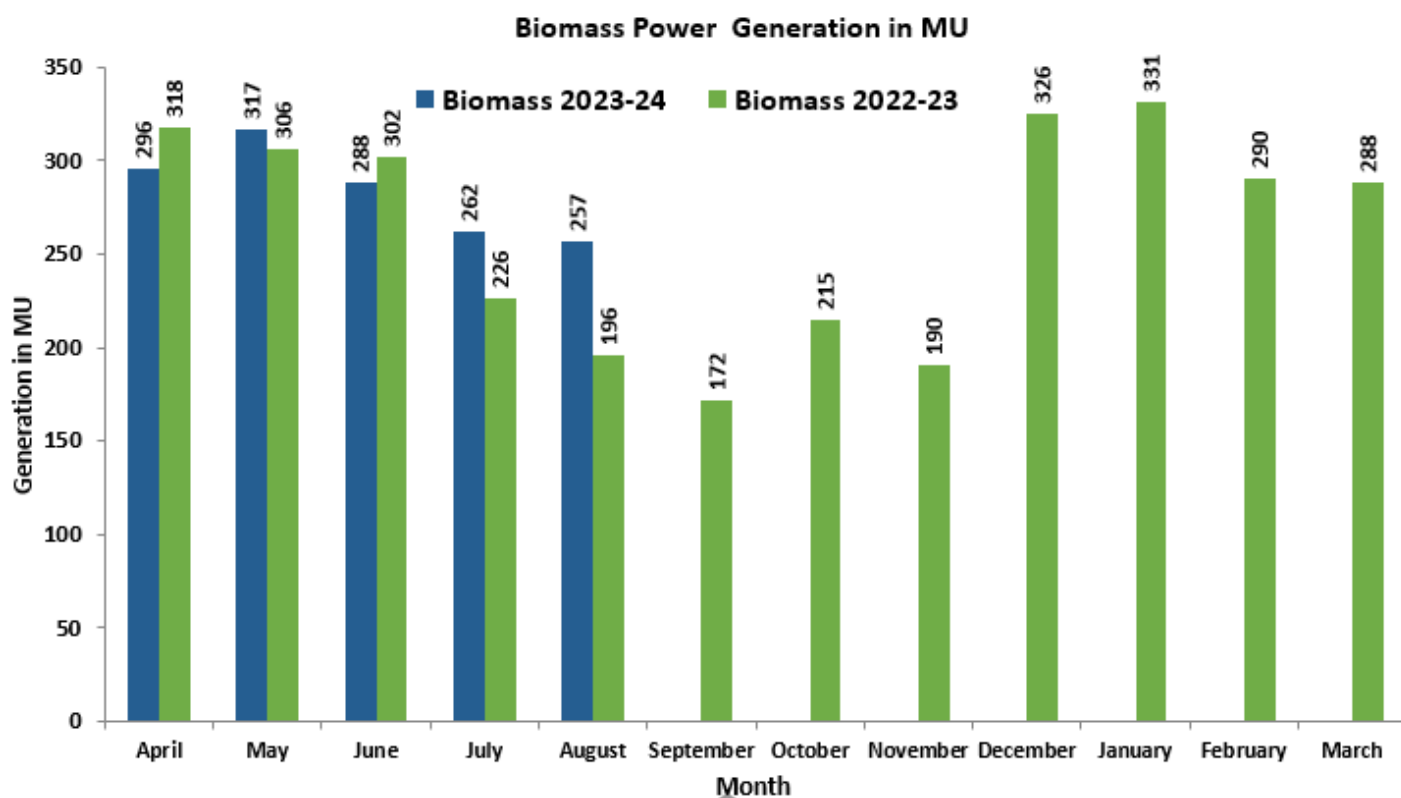


Figure 14: Month Wise Biomass Power Generation for the year 2022-23 and year 2023-24.

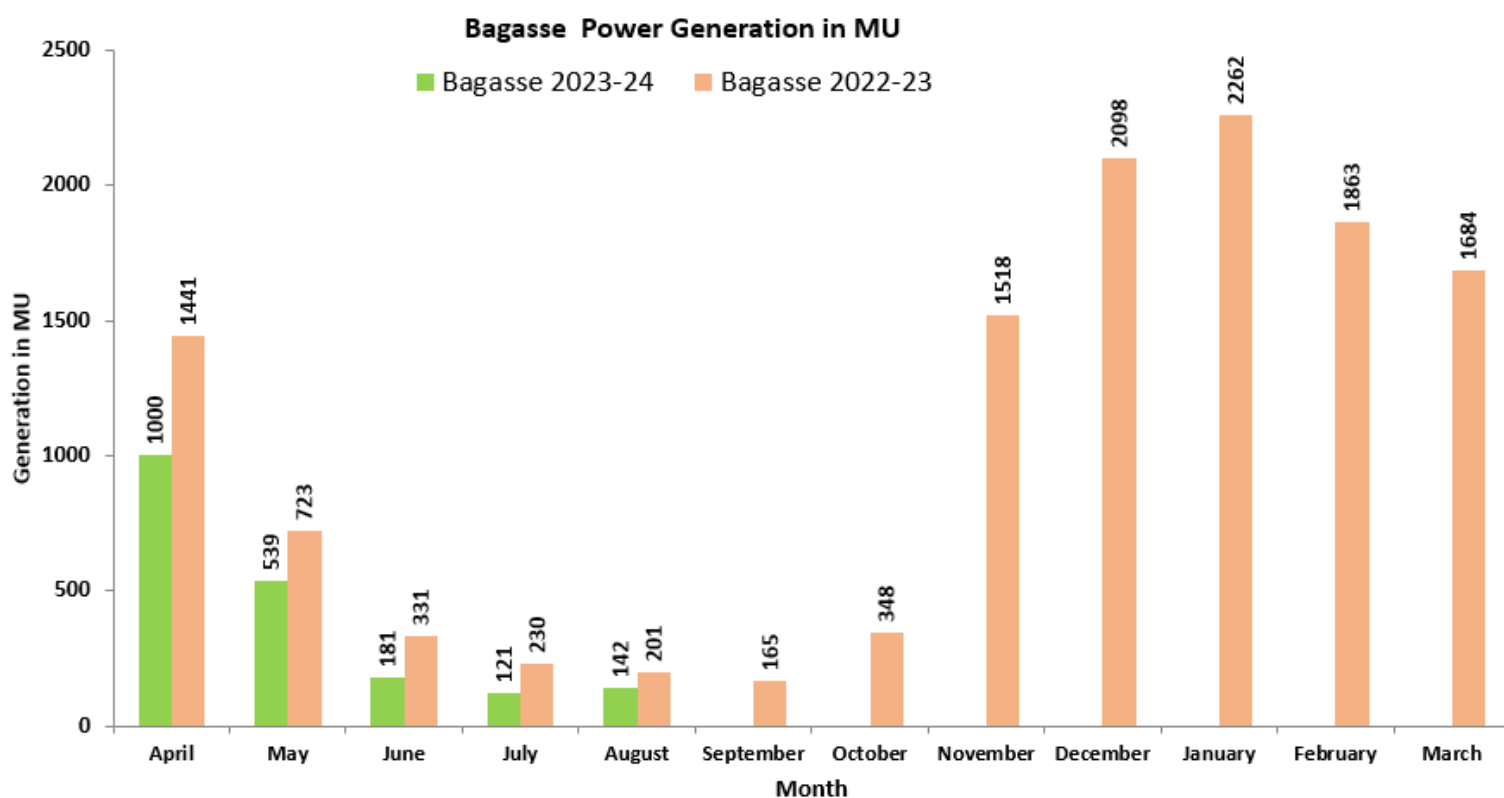


Figure 15: Month Wise Bagasse Power Generation for the year 2022-23 and year 2023-24.

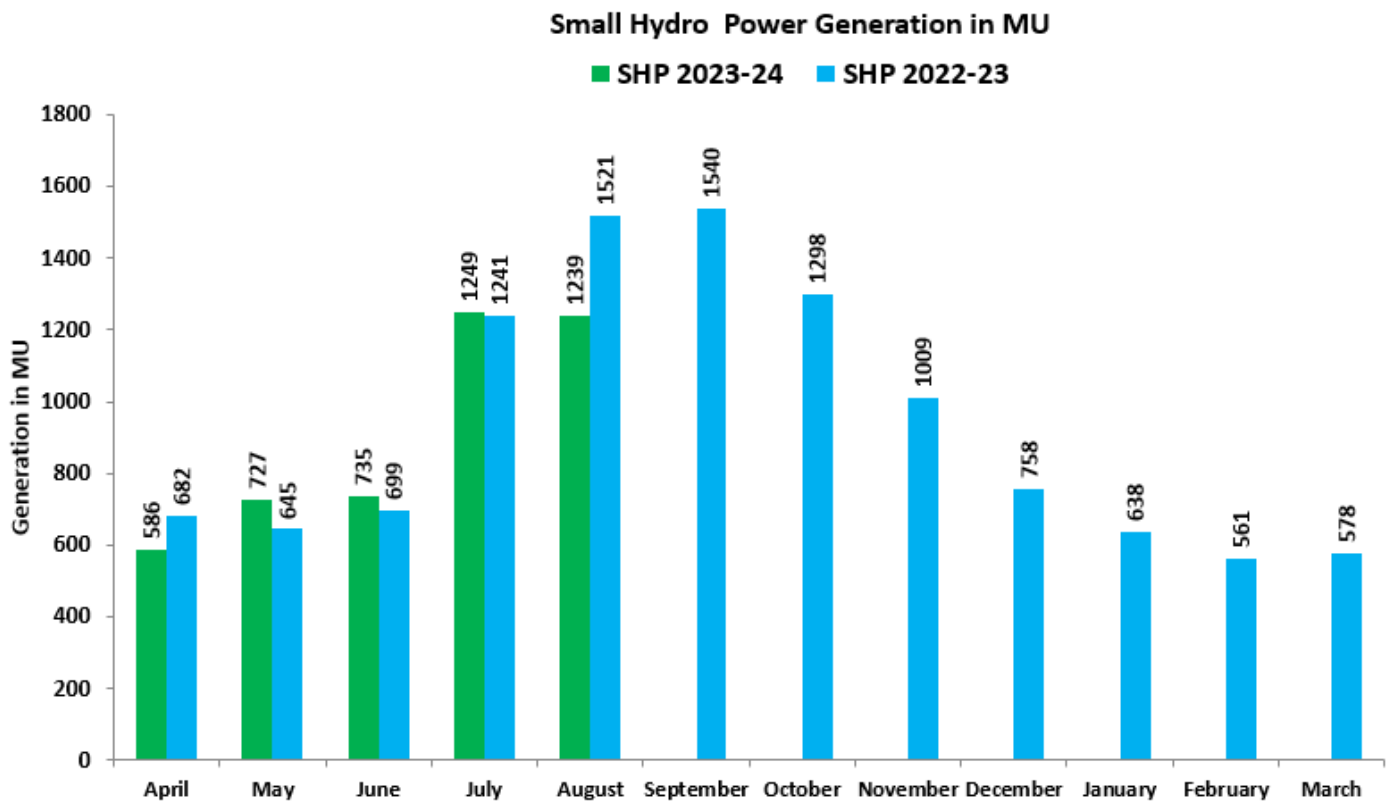


Figure 16: Month Wise Small Hydro Power Generation for the year 2022-23 and year 2023-24.

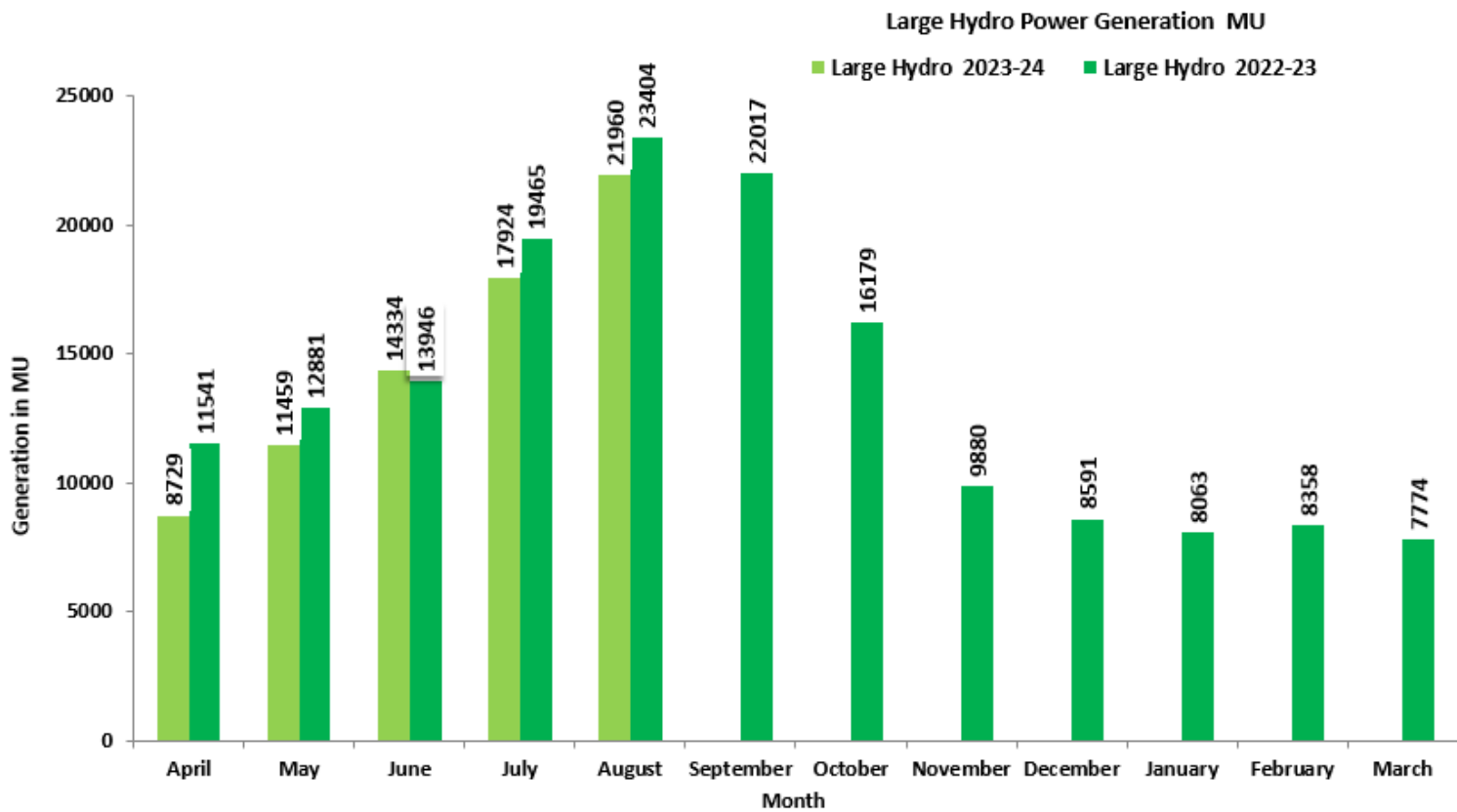


Figure 17: Month Wise Large Hydro Power Generation for the year 2022-23 and year 2023-24.

Power Generation from other RE sources in MU

■ Other 2023-24 ■ Other 2022-23

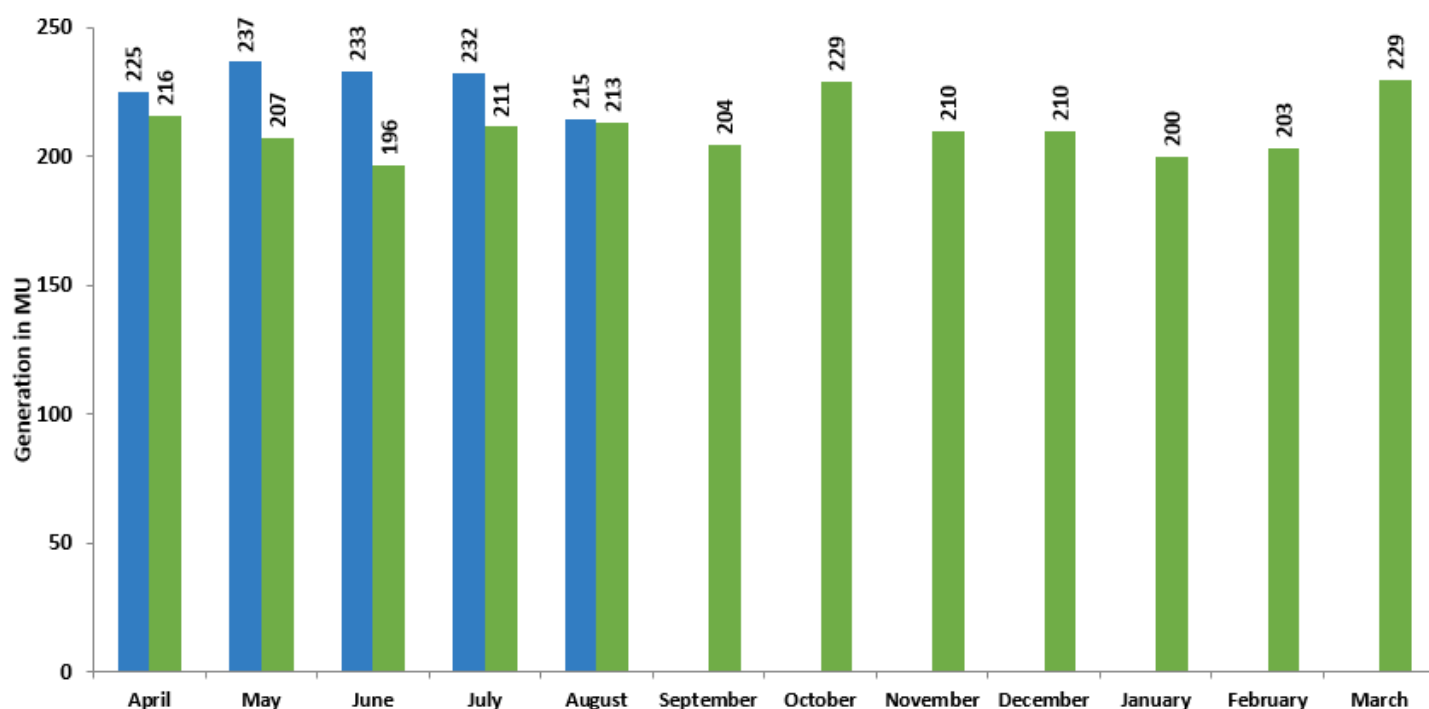


Figure 18: Month Wise Other RE (Waste Heat etc.) Power for the year 2022-23 and year 2023-24.

Year wise Generation of RE in MU

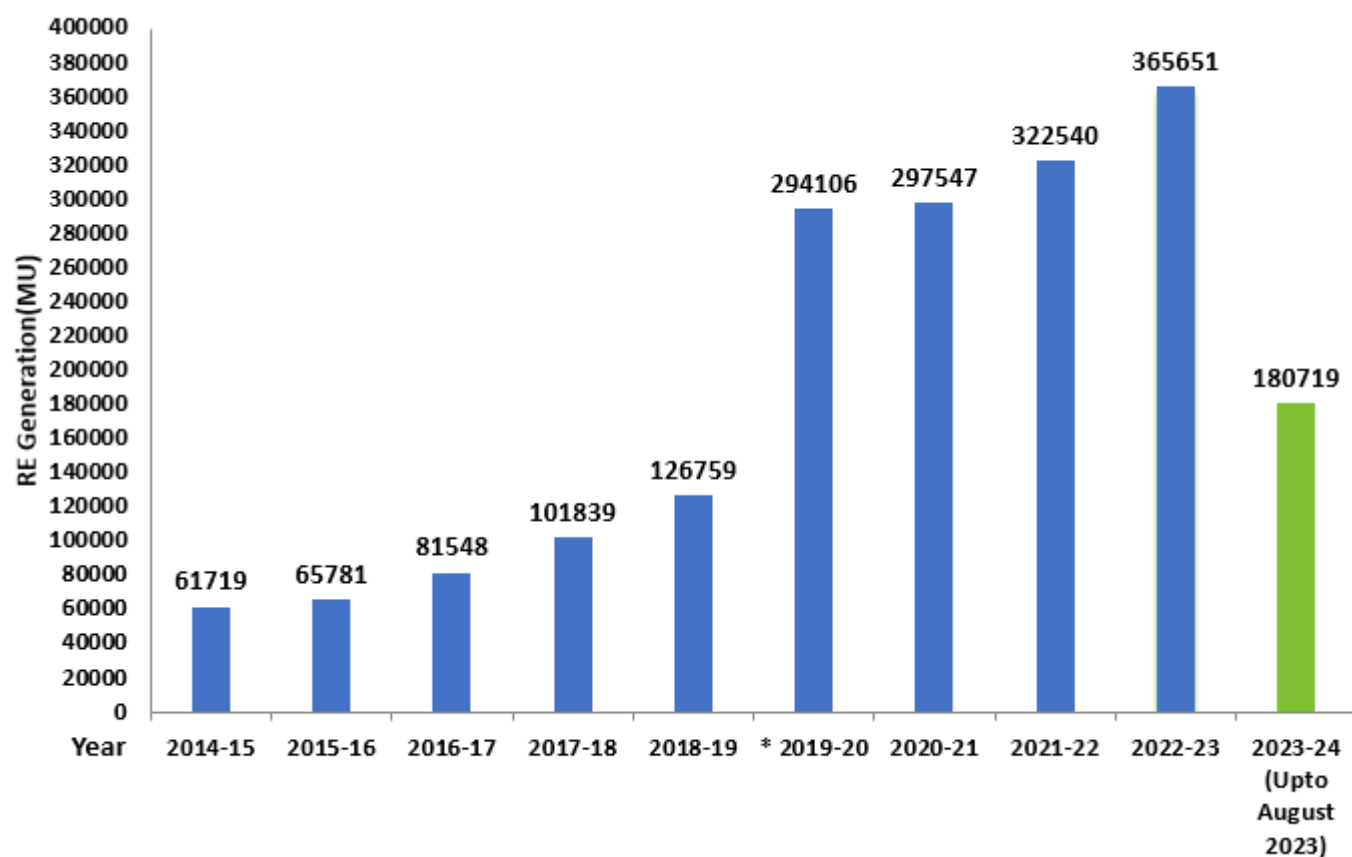


Figure 19: Year Wise RE Generation

(*) 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.

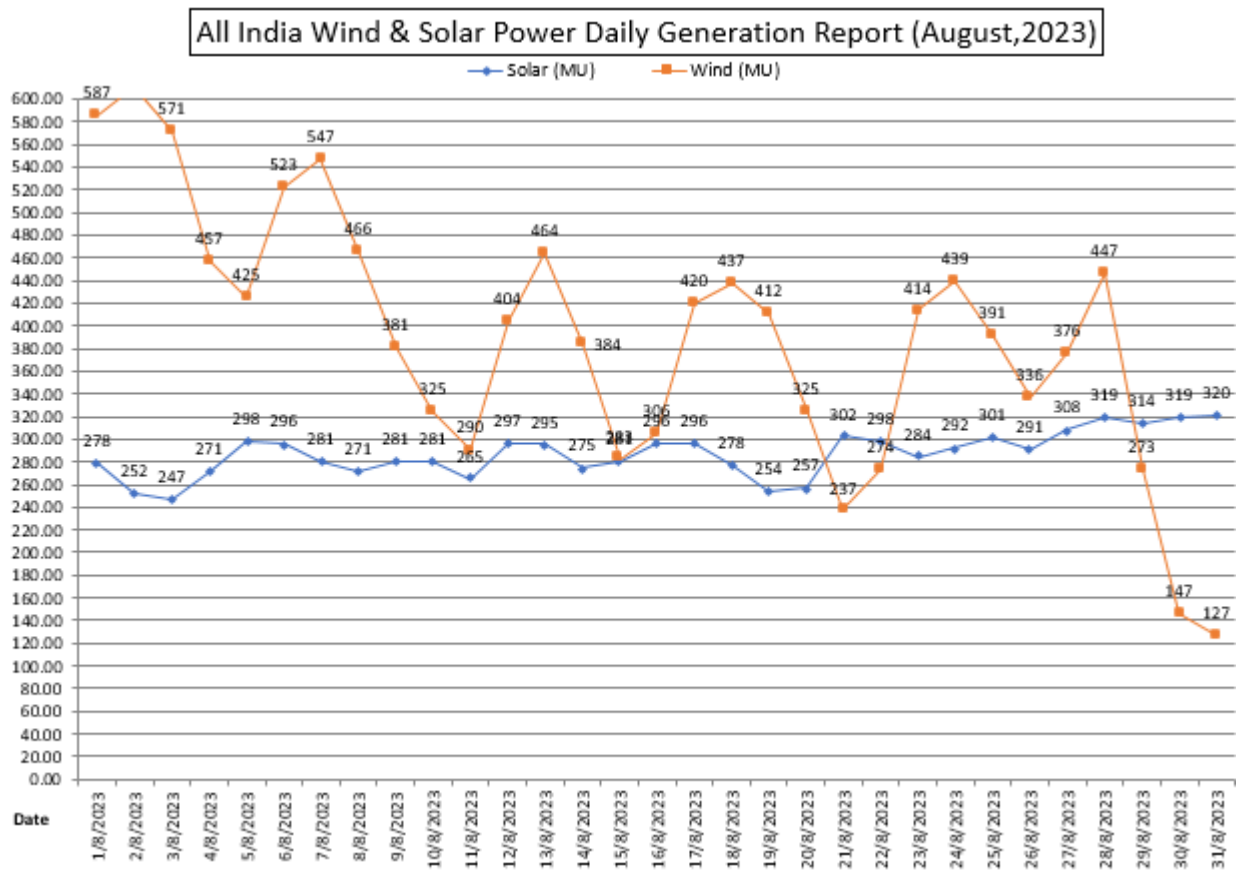


Figure 20: Daily solar and wind power generation trend in the month of August-2023

Summary of All India Total Renewable Energy Generation

Table 1 All India Summary of Renewable Energy Generation

Category	Installed Capacity (MW) (as on 31.08.2023)	Monitored Capacity (MW) (as on 31.08.2023) for which generation data is available	RE Generation (MU) August'2023	RE Generation (MU) August'2022	% of same Month Last Year	RE Generation (MU) April'2023-August'2023	RE Generation (MU) April'2022-August'2022	% of same period Last Year
पवन/Wind	44089.68	43150.00	12394.14	8694.96	142.54	48768.15	42970.43	113.49
सौर/Solar	71610.00	63771.95(*)	9325.80	7428.25	125.54	48463.60	39805.54	121.75
बायोमास/Biomass	10261.81	9648.77	257.34	196.22	131.15	1419.74	1348.41	105.29
बगास/Bagasse			142.35	201.06	70.80	1983.30	2926.12	67.78
लघु जल विद्युत्/ Small Hydro	4982.75	4300.40	1238.78	1520.98	81.45	4536.64	4787.79	94.75
बृहत् जल विद्युत्/ Large Hydro(\$)	46850.17	46850.17	21959.80	23973.64	91.60	74406.18	81806.74	90.95
अन्य/Others	570.38	701.28	214.57	213.20	100.64	1141.18	1043.73	109.34
कुल/Total	178364.79	168422.57	45532.77	42228.33	107.83	180718.79	174688.77	103.45

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

(\$)

Large Hydro Generation data excludes import from Bhutan. However, the import from Bhutan during August 2023 and April 23 -August 23 is 1198.8 MU and 3266.10 MUs respectively.

Table 2: Renewable Energy Generation by ISGS Stations for the Month of August 2023.

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Unchahar Solar (NTPC)	Uttar Pradesh	Central	Solar	1.13
Dadri Solar (NTPC)	Uttar Pradesh	Central	Solar	0.46
Singrauli Solar (NTPC)	Uttar Pradesh	Central	Solar	1.78
Auraiya (NTPC)	Uttar Pradesh	Central	Solar	5.79
Kolayat (NTPC)	Rajasthan	Central	Solar	81.30
Nokhra (NTPC)	Rajasthan	Central	Solar	53.91
Devikot (NTPC)	Rajasthan	Central	Solar	45.40
ABC Renewable Energy	Rajasthan	Private	Solar	61.27
Acme Chittorgarh Energy Pvt Ltd.	Rajasthan	Private	Solar	51.62
Acme Heergharh Powertech Pvt Ltd	Rajasthan	Private	Solar	53.45
Adani Hybrid Energy Jaisalmer Four Limited	Rajasthan	Private	Solar	97.97
Adani Hybrid Energy Jaisalmer One Limited	Rajasthan	Private	Solar	63.29
Adani Hybrid Energy Jaisalmer Three Limited	Rajasthan	Private	Solar	62.85
Adani Hybrid Energy Jaisalmer Two Limited	Rajasthan	Private	Solar	18.18
Adani Renewable Energy RJ Limited (RERJL)	Rajasthan	Private	Solar	38.97
Adani Jaisalmer One SEPL Solar	Rajasthan	Private	Solar	72.62
Adani SB Energy Four Pvt. Ltd.(SE4PL(Kilaj Solar))	Rajasthan	Private	Solar	10.35
M/S Adani Solar Energy Four PVT. LTD.L(Adani SEJ5PL)	Rajasthan	Private	Solar	39.07
Adani SB Energy Four Pvt. Ltd. (SERJ1PL)	Rajasthan	Private	Solar	59.79
Avaada Sunrays Energy Private Limited	Rajasthan	Private	Solar	64.12
Avaada RJHN Private Limited	Rajasthan	Private	Solar	44.56
Avaada Sunce Energy Private Limited	Rajasthan	Private	Solar	65.02
Avaada Sustainable RJ Project Private Ltd.	Rajasthan	Private	Solar	56.89

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Ayana Renewable Power One Private Limited	Rajasthan	Private	Solar	60.73
Azure Power Forty One Private Limited	Rajasthan	Private	Solar	58.78
Azure Power Forty Three Private Ltd	Rajasthan	Private	Solar	116.34
Azure Power India Pvt Ltd	Rajasthan	Private	Solar	34.28
Azure Power Maple Pvt Ltd	Rajasthan	Private	Solar	51.36
Azure Power Thirty Four Private Ltd	Rajasthan	Private	Solar	24.41
Clean Solar Power (Jodhpur) Pvt Ltd	Rajasthan	Private	Solar	50.92
Clean Solar Power (Bhadla) Pvt Ltd	Rajasthan	Private	Solar	64.42
Eden Renewable Cite Private Limited	Rajasthan	Private	Solar	64.06
M/S Adani Solar Energy Jodhpur Two Ltd	Rajasthan	Private	Solar	10.32
Mahindra Renewable Private Limited	Rajasthan	Private	Solar	34.19
Mega Surya Urja Pvt. Ltd	Rajasthan	Private	Solar	51.11
Nindan Solar Fatehgar	Rajasthan	Private	Solar	62.83
Renew Solar Energy (Jharkhand Three) Pvt Ltd	Rajasthan	Private	Solar	61.41
Renew Solar Power Pvt Ltd	Rajasthan	Private	Solar	10.23
Renew Solar Power Pvt Ltd. Bikaner	Rajasthan	Private	Solar	47.42
Renew Solar Urja Pvt Ltd	Rajasthan	Private	Solar	58.91
Renew Sun Bright Pvt Ltd	Rajasthan	Private	Solar	60.79
Renew Sun Waves Private Limited	Rajasthan	Private	Solar	61.20
Renew Surya Ravi Pvt Ltd	Rajasthan	Private	Solar	57.44
SBSR Power Cleantech Eleven Private Limited	Rajasthan	Private	Solar	48.49
Tata Power Green Energy Limited	Rajasthan	Private	Solar	38.93
Tata Power Renewable Energy Ltd	Rajasthan	Private	Solar	57.17
Tata Power Saurya 1	Rajasthan	Private	Solar	22.75
Thar Surya1 Private Limited	Rajasthan	Private	Solar	54.82
Adani Hybrid Energy Jaisalmer Four Limited	Rajasthan	Private	Wind	156.82

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Adani Hybrid Energy Jaisalmer One Limited	Rajasthan	Private	Wind	37.31
Adani Hybrid Energy Jaisalmer Three Limited	Rajasthan	Private	Wind	28.79
Adani Hybrid Energy Jaisalmer Two Limited	Rajasthan	Private	Wind	75.01
Adani Jaisalmer One SEPL Wind	Rajasthan	Private	Wind	44.65
Northern Region				2655.68
Arinsun Solar (Barsaitadesh)	Madhya Pradesh	Private	Solar	34.66
Mahindra Solar (Badwar)	Madhya Pradesh	Private	Solar	35.09
Masaya BWSPRA_KNDW	Madhya Pradesh	Private	Solar	16.84
Sherisha Raipur	Chhattisgarh	Private	Solar	6.61
Solapur Solar	Maharashtra	Central	Solar	1.56
Electro Solaire Private Limited (ESPL RSP Solar)	Gujarat	Private	Solar	33.17
Tata Power Renewable Energy Limited (TPREL RSP Solar)	Gujarat	Private	Solar	17.73
Gujarat Industries Power Company Limited (GIPCL RSP Solar)	Gujarat	Private	Solar	17.24
Powerica Wind	Gujarat	Private	Solar	22.22
NTPC Kawas	Gujarat	Central	Solar	5.77
Gujarat State Electricity Corporation Limited (GSECL)	Gujarat	Private	Solar	8.56
Gandhar_Solar	Gujarat	Private	Solar	2.23
GSECL RSP	Gujarat	Private	Solar	8.38
RPL_SECI-II	Gujarat	Private	Solar	97.62
Adani Wind Energy Kutchh Four Limited (AWEK4L)	Gujarat	Private	Wind	81.85
Adani Wind Energy MP One Private Limited (AWEMP1PL)	Gujarat	Private	Wind	120.01
Alfnar Wind (Nanavalka)	Gujarat	Private	Wind	142.46
Green Infra Wind Energy Limited SECI-II (Giwel-II Wind (Vadva))	Gujarat	Private	Wind	114.88
Green Infra Wind Energy Limited SECI-III (Giwel-III Wind (Naranpar))	Gujarat	Private	Wind	142.39
Athena_RUM	Gujarat	Private	Wind	34.72
GSECL_PH2	Gujarat	Private	Wind	8.56

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Ostro Kutch Wind Private Limited (OKWPL)	Gujarat	Private	Wind	135.90
Renew Wind Energy (AP2) Private Limited (Ghadsisa)	Gujarat	Private	Wind	143.49
Avikiran Solar India Private Limited (ASIPL), Baranda	Gujarat	Private	Wind	96.08
Apraava Khkrda Jam	Gujarat	Private	Wind	54.69
IGESL Dayapar	Gujarat	Private	Wind	135.05
Netra Kotda	Gujarat	Private	Wind	46.69
Torrent Sidpur Jam	Gujarat	Private	Wind	42.68
SITAC	Gujarat	Private	Wind	157.42
SRIJAN	Gujarat	Private	Wind	64.74
Western Region				1829.29
TUTICORIN				
Beetam(Tuticorin)	Tamil Nadu	Private	Wind	60.22
GRTJIPL	Tamil Nadu	Private	Solar	30.88
Mytra	Tamil Nadu	Private	Wind	54.60
Orange	Tamil Nadu	Private	Wind	46.97
Green Infra	Tamil Nadu	Private	Wind	58.93
Hiriyur Ostro	Tamil Nadu	Private	Wind	109.88
Sprng Renewable Energy Pvt Ltd(Pugalur)	Tamil Nadu	Private	Wind	81.98
JSW Renew Energy Two Limited (Tuticorin)	Tamil Nadu	Private	Wind	41.28
Ettayapuram	Tamil Nadu	Central	Solar	47.08
Southern Region				531.83
All India Total				5016.80

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 by CPSU Owned stations

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) August'2023	RE Generation(MU) August'2022	RE Generation(MU) April 2023- August 2023	RE Generation(MU) April 2022- August 2022
NTPC							
Faridabad_Solar	Haryana	5.00	Solar	0.49	0.55	2.80	2.98
Bhadla	Rajasthan	260.00	Solar	37.64	33.45	186.05	181.98
Jetsar	Rajasthan	160.00	Solar	33.35	25.97	165.39	158.89
Fatehgarh	Rajasthan	296.00	Solar	116.86	54.25	331.95	256.39
Devikot	Rajasthan	240.00	Solar	48.28	0.00	244.05	0.00
Nokhra	Rajasthan	200.00	Solar	61.72	0.00	297.35	0.00
Dadri_Solar	Uttar Pradesh	5.00	Solar	0.49	0.54	2.74	2.90
Unchahar_Solar	Uttar Pradesh	10.00	Solar	0.96	1.11	6.13	6.16
Singrauli_Solar	Uttar Pradesh	15.00	Solar	1.36	1.62	8.67	8.99
Auraiya	Uttar Pradesh	40.00	Solar	5.95	2.76	32.19	16.05
Small Hydro Vindhyachal	Uttar Pradesh	8.00	Small Hydro	3.17	2.92	17.43	13.25
Rojmal	Gujarat	50.00	Wind	14.16	9.65	56.03	61.19
Rajgarh_Solar	Madhya Pradesh	50.00	Solar	4.89	4.47	28.73	30.50
Mandsaur	Madhya Pradesh	250.00	Solar	26.75	25.02	152.53	159.24
Solapur	Maharashtra	10.00	Solar	1.54	0.00	7.68	0.00
Anantapuram	Andhra Pradesh	250.00	Solar	0.00	30.09	96.28	157.87
Ramagundam	Telangana	110.00	Solar	19.89	15.70	89.17	59.85
Andaman Nicobar	Andaman Nicobar	5.00	Solar	0.46	0.41	2.34	2.21
Talchar_Solar	Orissa	10.00	Solar	0.98	1.04	5.35	5.62
Solar_Bilhaur	Uttar Pradesh	225.00	Solar	34.95	38.15	200.04	225.30
Simhadri Floating Project	Andhra Pradesh	25.00	Solar	6.87	3.92	24.12	20.88
Kayamkulam	Kerala	92.00	Solar	20.80	15.40	90.22	46.42
Kawas	Gujarat	56.00	Solar	5.80	7.44	41.26	15.15

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) August'2023	RE Generation(MU) August'2022	RE Generation(MU) April 2023- August 2023	RE Generation(MU) April 2022- August 2022
Gandhar	Gujarat	10.00	Solar	2.72	0.20	12.49	0.20
Shambu ki Burj-I	Rajasthan	250.00	Solar	53.90	33.48	268.11	33.48
Shambu ki Burj-II	Rajasthan	150.00	Solar	33.59	0.00	167.69	0.00
Ettayapuram	Tamil Nadu	230.00	Solar	49.04	0.00	211.71	0.00
Total NTPC		3012.00		586.58	308.14	2748.48	1465.50
THDC							
Patan Wind Power Project	Gujarat	50.00	Wind	12.11	7.51	42.43	47.12
Devbhumi Dwarka Wind Power Project	Gujarat	63.00	Wind	21.87	13.76	70.52	78.48
Solar Kasaragod	Kerala	50.00	Solar	7.78	6.20	38.16	32.43
Rishikesh office Premises	Uttar Pradesh	0.50	Solar	0.03	0.04	0.22	0.24
Dhukwan SHEP Jhansi,UP	Uttar Pradesh	24.00	Small Hydro	6.69	11.51	22.46	25.41
Total THDC		187.50		48.48	39.02	173.79	183.68
NHPC							
Wind Power Project	Rajasthan	50.00	Wind	13.11	6.05	33.35	38.18
Solar Power Project	Tamilnadu	50.00	Solar	9.23	7.40	33.66	37.79
Total NHPC		100.00		22.34	13.45	67.01	75.98
ONGC							
Bhuj	Gujarat	51.00	Wind	0.00	10.66	11.51	50.13
Jaisalmer	Rajasthan	102.00	Wind	27.10	11.71	66.00	85.30
Assam	Assam	1.00	Roof Top	0.00	0.08	0.15	0.51
Assam	Assam	10.00	Ground Mounted	0.01	0.97	1.57	5.97
Tripura	Tripura	5.00	Roof Top	0.00	0.62	0.72	3.70
Rajahmundry,Base Complex	Andhra Pradesh	5.00	Ground Mounted	0.01	0.00	0.83	0.00

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) August'2023	RE Generation(MU) August'2022	RE Generation(MU) April 2023- August 2023	RE Generation(MU) April 2022- August 2022
Tati Paka, Rajahmundry	Andhra Pradesh	1.00	Ground Mounted	0.61	0.07	1.81	0.40
Cauvery	Tamil Nadu	1.09	Ground Mounted	0.00	0.13	0.13	0.59
Vagara, Ankleshwar	Gujarat	5.00	Ground Mounted	0.61	0.59	2.76	3.01
Gujarat	Gujarat	4.23	Roof Top	0.00	0.28	0.48	2.10
Jodhpur	Rajasthan	1.65	Ground Mounted	0.00	0.15	0.15	0.70
Jaisalmer	Rajasthan	1.24	Ground Mounted	0.00	0.10	0.15	0.65
Uttarakhand	Uttarakhand	0.25	Roof Top	0.00	0.25	0.02	0.34
Goa	Goa	0.29	Ground Mounted	0.03	0.00	0.17	0.10
Hazira	Gujarat	0.27	Ground Mounted	0.00	0.01	0.01	0.03
Hazira	Gujarat	0.30	Ground Mounted	0.00	0.03	0.04	0.12
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	0.00	0.03	0.00
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		28.37	25.64	86.55	153.64
SJVN Limited							
Khirvire Wind Power	Maharashtra	47.60	Wind	8.92	10.28	35.92	39.62
Sadla Wind Power	Gujarat	50.00	Wind	15.94	9.19	61.65	56.33
Charanka Solar Power	Gujarat	5.60	Solar	0.46	0.38	3.36	3.18
Wadhal Solar Power Project	Gujarat	1.00	Solar	0.02	0.11	0.41	0.68

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) August'2023	RE Generation(MU) August'2022	RE Generation(MU) April 2023- August 2023	RE Generation(MU) April 2022- August 2022
Parasan Solar Power	Gujarat	75.00	Solar	12.28	0.00	69.80	0.00
Total SJVN		179.20		37.62	19.96	171.14	99.81
Oil India Ltd							
Oil India Ltd	Rajasthan	14.00	Solar	2.12	1.74	10.70	10.28
Oil India Ltd	Rajasthan	67.60	Wind	12.33	6.95	36.33	48.92
Oil India Ltd	Gujarat	43.30	Wind	11.55	9.00	48.21	50.51
Oil India Ltd	Madhya Pradesh	63.20	Wind	15.00	9.91	54.31	57.42
Total Oil India Ltd		188.10		41.00	27.60	149.55	167.13
NEEPCO							
NEEPCO	Tripura	5.00	Solar	0.28	0.56	1.71	2.60
NEEPCO	Assam	25.00	Small Hydro	18.93	0.00	53.92	0.00
NEEPCO Total		30.00		19.21	0.56	55.62	2.60
DVC							
DVC	West Bangal	0.08	Solar	0.01	0.01	0.02	0.04
DVC	Jharkhand	4.00	Small Hydro	0.00	0.00	0.00	0.00
Total DVC		4.08		0.01	0.01	0.02	0.04
All India Total		3891.64		783.60	434.38	3452.17	2148.38

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 August 2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Northern Region					
ABC RENEWABLE ENERGY	Solar	64.94	61.27	-3.67	-5.65
Acme Heergharh Powertech Pvt Ltd	Solar	52.89	53.45	0.56	1.06
Acme Chittorgarh Energy Pvt Ltd.	Solar	51.44	51.62	0.18	0.35
Adani Hybrid Energy Jaisalmer One Limited	Solar	106.68	100.60	-6.08	-5.70
Adani Hybrid Energy Jaisalmer Four Limited	Solar	251.25	254.79	3.54	1.41
Adani Hybrid Energy Jaisalmer Three Limited	Solar	94.94	91.64	-3.30	-3.48
Adani Hybrid Energy Jaisalmer Two Limited	Solar	93.24	93.19	-0.05	-0.05
Adani Renewable Energy RJ Limited (RERJL)	Solar	39.05	38.97	-0.08	-0.20
Adani Jaisalmer One SEPL Solar	Solar	123.70	117.27	-6.43	-5.20
M/S Adani Solar Energy Jodhpur Two Ltd	Solar	10.46	10.32	-0.14	-1.34
Adani SB Energy Four Pvt. Ltd.(SE4PL(Kilaj Solar))	Solar	10.28	10.35	0.07	0.68
Adani SEJ5PL	Solar	40.14	39.07	-1.07	-2.67
Adani SERJ1PL	Solar	62.56	59.79	-2.77	-4.43
AURAIYA SOLAR	Solar	6.52	5.79	-0.73	-11.20
Avaada RJHN Private Limited	Solar	47.05	44.56	-2.49	-5.29
Avaada Sunce Energy Private Limited	Solar	69.07	65.02	-4.05	-5.86
Avaada Sunrays Energy Private Limited	Solar	64.97	64.12	-0.85	-1.31
Avaada Sustainable RJ Project Private Ltd.	Solar	59.34	56.89	-2.45	-4.13

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of August 2023						
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule	
Ayana Renewable Power One Private Limited	Solar	62.77	60.73	-2.04	-3.25	
Azure Power Forty One Private Limited	Solar	59.19	58.78	-0.41	-0.69	
Azure Power Forty Three Private Ltd	Solar	124.03	116.34	-7.69	-6.20	
Azure Power Maple Pvt Ltd	Solar	55.38	51.36	-4.02	-7.26	
Azure Power Thirty Four Private Ltd	Solar	25.21	24.41	-0.80	-3.17	
Azure Power India Pvt Ltd	Solar	34.64	34.28	-0.36	-1.04	
Clean Solar Power (Jodhpur) Pvt Ltd	Solar	52.89	50.92	-1.97	-3.72	
Clean Solar Power (Bhadla) Pvt Ltd	Solar	64.49	64.42	-0.07	-0.11	
DADRI SOLAR	Solar	0.62	0.46	-0.16	-25.81	
DEVIKOT SOLAR	Solar	47.53	45.40	-2.13	-4.48	
Eden Renewable Cite Private Limited	Solar	66.03	64.06	-1.97	-2.98	
KOLYAT SOLAR BIKANER	Solar	81.01	81.30	0.29	0.36	
Mahindra Renewable Private Limited	Solar	35.43	34.19	-1.24	-3.50	
Mega Surya Urja Pvt. Ltd	Solar	52.16	51.11	-1.05	-2.01	
Nindan Solar Fatehgar	Solar	62.68	62.83	0.15	0.24	
Nokhra Solar	Solar	57.41	53.91	-3.50	-6.10	
Renew Solar Energy (Jharkhand Three) Pvt Ltd	Solar	63.95	61.41	-2.54	-3.97	
Renew Solar Power Pvt Ltd	Solar	10.30	10.23	-0.07	-0.68	
Renew Solar Urja Pvt Ltd	Solar	59.42	58.91	-0.51	-0.86	
Renew Sun Bright Pvt Ltd	Solar	61.19	60.79	-0.40	-0.65	
Renew Sun Waves Private Limited	Solar	64.06	61.20	-2.86	-4.46	
Renew Surya Ravi Pvt Ltd	Solar	58.92	57.44	-1.48	-2.51	
Renew Solar Power Pvt Ltd. Bikaner	Solar	48.99	47.42	-1.57	-3.20	
SBSR Power Cleantech Eleven Private Limited	Solar	50.99	48.49	-2.50	-4.90	
SINGRAULI SOLAR	Solar	2.05	1.78	-0.27	-13.17	
Tata Power Green Energy Limited	Solar	45.10	38.93	-6.17	-13.68	

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of August 2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Tata Power Renewable Energy Ltd	Solar	60.40	57.17	-3.23	-5.35
Thar Surya1 Private Limited	Solar	55.55	54.82	-0.73	-1.31
Tata Power Saurya	Solar	22.62	22.75	0.13	0.57
Unchahar Solar	Solar	1.23	1.13	-0.10	-8.13
Total Northern Region		2734.75	2656.22		
Western Region					
Arinsun Solar (Barsaitadesh)	Solar	37.49	34.66	-2.83	-7.55
Mahindra Solar (Badwar)	Solar	37.92	35.09	-2.83	-7.46
Masaya BWSPRA_KNDW	Solar	18.44	16.84	-1.60	-8.68
Sherisha Raipur	Solar	7.28	6.61	-0.67	-9.20
Solarpur Solar	Solar	1.58	1.56	-0.02	-1.27
Electro Solaire Private Limited (ESPL RSP Solar)	Solar	35.80	33.17	-2.63	-7.35
Tata Power Renewable Energy Limited (TPREL RSP Solar)	Solar	18.04	17.73	-0.31	-1.72
Gujarat Industries Power Company Limited (GIPCL RSP Solar)	Solar	17.98	17.24	-0.74	-4.12
Powerica Wind	Solar	22.95	22.22	-0.73	-3.18
NTPC Kawas	Solar	7.21	5.77	-1.44	-19.97
Gujarat State Electricity Corporation Limited (GSECL)	Solar	8.76	8.56	-0.20	-2.28
GSECL RSP	Solar	7.13	8.38	1.25	17.53
RPL_SECI-II	Solar	98.63	97.62	-1.01	-1.02
Gandhar_Solar	Solar	2.62	2.23	-0.39	-14.89
AWEK1L	Wind	289.31	266.54	-22.77	-7.87
Adani Wind Energy Kutchh Four Limited (AWEK4L)	Wind	80.55	81.85	1.30	1.61
Adani Wind Energy MP One Private Limited (AWEMP1PL)	Wind	126.55	120.01	-6.54	-5.17
Alfnar Wind (Nanavalka)	Wind	144.21	142.46	-1.75	-1.21
Green Infra Wind Energy Limited SECI-II (Giwel-II Wind (Vadva))	Wind	116.14	114.88	-1.26	-1.08

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of August 2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Green Infra Wind Energy Limited SECI-III (Giwel-III Wind (Naranpar))	Wind	144.68	142.39	-2.29	-1.58
Athena_RUM	Wind	38.52	34.72	-3.80	-9.87
Ostro Kutch Wind Private Limted (OKWPL)	Wind	137.73	135.90	-1.83	-1.33
Renew Wind Energy (AP2) Private Limited (Ghadsisa)	Wind	142.48	143.49	1.01	0.71
Avikiran Solar India Private Limited (ASIPL), Baranda	Wind	95.61	96.08	0.47	0.49
Apraava Khkrda Jam	Wind	54.68	54.69	0.01	0.02
IGESL Dayapar	Wind	148.10	135.05	-13.05	-8.81
Netra Kotda	Wind	46.49	46.69	0.20	0.43
Torrent Sidpur Jam	Wind	43.57	42.68	-0.89	-2.04
SRIJAN_MORJAR	Wind	66.46	64.74	-1.72	-2.59
SITAC_CHUGGER	Wind	154.90	157.42	2.52	1.63
		2151.81	2087.27		
Southern Region					
Beetam(Tuticorin)	Wind	64.64	60.22	-4.42	-6.84
GIREL	Wind	65.45	58.93	-6.52	-9.96
Mytra	Wind	63.55	54.60	-8.95	-14.08
Orange	Wind	52.06	46.97	-5.09	-9.78
Sprng Renewable Energy Pvt Ltd(Pugalur)	Wind	100.09	81.98	-18.11	-18.09
GRTJIPL	Wind	32.29	30.88	-1.41	-4.37
JSW Renew Energy Two Limited (Tuticorin)	Wind	44.19	41.28	-2.91	-6.59
Ostro Hiriyur	Wind	114.48	109.88	-4.60	-4.02
NTPC-Ettayapuram,(Solar PV), Tuticorin	Solar	47.02	47.08	0.06	0.13
		583.77	531.82		

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 August 2023

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Month of August 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	1.24	1.24	1.24	100.00
Delhi	0.00	528.99	0.00	0.00	55.54	55.54	584.53	9.50
Haryana	2831.44	25.62	0.00	0.00	116.34	116.34	2973.40	3.91
HP	0.00	0.00	0.00	6512.44	362.40	6874.84	6874.84	100.00
J & K	0.00	0.00	0.00	2237.67	31.82	2269.49	2269.49	100.00
Ladakh	0.00	0.00	0.00	66.89	0.00	66.89	66.89	100.00
Punjab	3365.03	0.00	0.00	649.95	457.38	1107.33	4472.36	24.76
Rajasthan	5174.15	150.59	622.47	109.32	4555.21	5287.00	10611.74	49.82
Uttar Pradesh	14266.41	417.52	277.23	121.71	340.45	739.39	15423.32	4.79
Uttarakhand	0.00	0.00	0.00	2472.35	77.81	2550.16	2550.16	100.00
Northern Region Total	25637.03	1122.72	899.70	12170.33	5998.20	19068.23	45827.98	41.61
WESTERN REGION								
Chhattisgarh	12594.03	0.00	0.00	69.32	188.66	257.98	12852.01	2.01
Gujarat	6531.22	1071.88	764.86	1004.62	4747.24	6516.72	14119.82	46.15
Madhya Pradesh	11922.37	0.00	0.00	1329.34	1005.46	2334.80	14257.17	16.38
Maharashtra	10636.74	345.59	809.32	654.86	1827.74	3291.92	14274.25	23.06
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	2.21	2.21	2.21	100.00
Goa	0.00	0.00	0.00	0.00	6.99	6.99	6.99	100.00
Western Region Total	41684.36	1417.47	1574.18	3058.14	7778.29	12410.61	55512.44	22.36
SOUTHERN REGION								
Andhra Pradesh	5856.31	0.00	0.00	142.72	1872.27	2014.99	7871.30	25.60
Telangana	4638.34	0.00	0.00	316.41	597.07	913.48	5551.82	16.45

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Month of August 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	3029.43	0.00	657.49	1385.58	3059.85	5102.92	8132.35	62.75
Kerala	0.00	0.00	0.00	430.22	255.97	686.19	686.19	100.00
Tamil Nadu	5417.96	171.27	1238.75	435.50	3647.21	5321.46	10910.69	48.77
Lakshadweep	5.36	0.00	0.00	0.00	0.01	0.01	5.37	0.14
Puducherry	0.00	21.07	0.00	0.00	1.02	1.02	22.09	4.62
Southern Region Total	18947.40	192.34	1896.24	2710.43	9433.40	14040.07	33179.81	42.32
EASTERN REGION								
Andaman Nicobar	28.34	0.00	0.00	0.00	2.99	2.99	31.33	9.53
Bihar	5319.70	0.00	0.00	0.00	15.32	15.32	5335.02	0.29
Jharkhand	2946.85	0.00	0.00	14.58	1.47	16.05	2962.90	0.54
Orissa	4196.35	0.00	0.00	811.82	132.00	943.82	5140.17	18.36
Sikkim	0.00	0.00	0.00	1794.35	1.03	1795.38	1795.38	100.00
West Bengal	7218.78	0.00	0.00	371.05	152.00	523.05	7741.83	6.76
Eastern Region Total	19710.02	0.00	0.00	2991.80	304.80	3296.60	23006.62	14.33
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	744.39	0.24	744.63	744.63	100.00
Assam	466.07	298.24	0.00	57.30	28.36	85.66	849.97	10.08
Manipur	0.00	0.00	0.00	34.28	0.64	34.92	34.92	100.00
Meghalaya	0.00	0.00	0.00	131.67	7.03	138.70	138.70	100.00
Mizoram	0.00	0.00	0.00	9.04	8.26	17.30	17.30	100.00
Nagaland	0.00	0.00	0.00	52.42	13.47	65.89	65.89	100.00
Tripura	0.00	589.99	0.00	0.00	0.28	0.28	590.27	0.05
North Eastern Region Total	466.07	888.23	0.00	1029.10	58.28	1087.38	2441.68	44.53
All India Total	106444.88	3620.76	4370.12	21959.80	23572.97	49902.89	159968.53	31.20

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

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Period of April-August 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	6.76	6.76	6.76	100.00
Delhi	0.00	1444.07	0.00	0.00	284.77	284.77	1728.84	16.47
Haryana	12085.88	95.82	0.00	0.00	586.06	586.06	12767.76	4.59
HP	0.00	0.00	0.00	21984.33	1528.44	23512.77	23512.77	100.00
J & K	0.00	0.00	0.00	10229.78	259.59	10489.37	10489.37	100.00
Ladakh	0.00	0.00	0.00	217.69	0.00	217.69	217.69	100.00
Punjab	14165.86	0.00	0.00	2318.04	2236.31	4554.35	18720.21	24.33
Rajasthan	23975.86	657.11	3022.55	196.31	21423.68	24642.54	49275.51	50.01
Uttar Pradesh	66262.83	1076.81	1457.66	400.30	2474.37	4332.33	71671.97	6.04
Uttarakhand	0.00	294.81	0.00	7488.80	389.05	7877.85	8172.66	96.39
Northern Region Total	116490.43	3568.62	4480.21	42835.25	29189.01	76504.47	196563.52	38.92
WESTERN REGION								
Chhattisgarh	66938.50	0.00	0.00	130.22	948.44	1078.66	68017.16	1.59
Gujarat	28279.33	3891.96	2273.95	1828.87	18887.05	22989.87	55161.16	41.68
Madhya Pradesh	59940.26	0.00	0.00	2895.16	4519.47	7414.63	67354.89	11.01
Maharashtra	54874.14	1515.43	3389.90	2853.56	8388.61	14632.07	71021.64	20.60
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	11.30	11.30	11.30	100.00
Goa	0.00	0.00	0.00	0.00	29.89	29.89	29.89	100.00
Western Region Total	210032.23	5407.39	5663.85	7707.81	32784.76	46156.42	261596.04	17.64
SOUTHERN REGION								
Andhra Pradesh	29976.76	0.00	0.00	624.27	8823.68	9447.95	39424.71	23.96
Telangana	22596.07	0.00	0.00	607.93	3122.59	3730.52	26326.59	14.17
Karnataka	17230.65	0.00	3094.72	4741.39	13719.28	21555.39	38786.04	55.58
Kerala	0.00	0.00	0.00	2538.51	938.03	3476.54	3476.54	100.00

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Period of April-August 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) (1)	Gas (2)	Nuclear (3)	Large Hydro (4)	Renewable (Excluding Large Hydro) (5)			
Tamil Nadu	29959.55	847.71	5303.97	1555.86	15988.73	22848.56	53655.82	42.58
Lakshadweep	27.30	0.00	0.00	0.00	0.04	0.04	27.34	0.14
Puducherry	0.00	104.18	0.00	0.00	5.10	5.10	109.28	4.67
Southern Region Total	99790.33	951.89	8398.69	10067.96	42597.44	61064.09	161806.31	37.74
EASTERN REGION								
Andaman Nicobar	142.72	0.00	0.00	0.00	14.14	14.14	156.86	9.01
Bihar	24703.06	0.00	0.00	0.00	119.07	119.07	24822.13	0.48
Jharkhand	14451.01	0.00	0.00	37.55	7.35	44.90	14495.91	0.31
Orissa	25866.72	0.00	0.00	2704.08	518.22	3222.30	29089.02	11.08
Sikkim	0.00	0.00	0.00	6453.11	5.16	6458.27	6458.27	100.00
West Bengal	37707.81	0.00	0.00	1447.00	801.50	2248.50	39956.31	5.63
Eastern Region Total	102871.32	0.00	0.00	10641.74	1465.44	12107.18	114978.50	10.53
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	2386.94	1.24	2388.18	2388.18	100.00
Assam	2208.93	1452.27	0.00	154.20	162.69	316.89	3978.09	7.97
Manipur	0.00	0.00	0.00	63.40	4.50	67.90	67.90	100.00
Meghalaya	0.00	0.00	0.00	423.59	25.47	449.06	449.06	100.00
Mizoram	0.00	0.00	0.00	32.23	41.30	73.53	73.53	100.00
Nagaland	0.00	0.00	0.00	93.05	38.51	131.56	131.56	100.00
Tripura	0.00	2776.44	0.00	0.00	2.25	2.25	2778.69	0.08
North Eastern Region Total	2208.93	4228.71	0.00	3153.41	275.97	3429.38	9867.02	34.76
All India Total	531393.24	14156.61	18542.75	74406.17	106312.63	199261.55	744811.40	26.75

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

Renewable Energy (State Wise) Generation(MU) for the Month of August 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	1.24	1.24	1.24	100.00
Delhi	0.00	528.99	0.00	0.00	55.54	55.54	584.53	9.50
Haryana	2831.44	25.62	0.00	0.00	116.34	116.34	2973.40	3.91
HP	0.00	0.00	0.00	6512.44	362.40	6874.84	6874.84	100.00
J & K	0.00	0.00	0.00	2237.67	31.82	2269.49	2269.49	100.00
Ladakh	0.00	0.00	0.00	66.89	0.00	66.89	66.89	100.00
Punjab	3365.03	0.00	0.00	649.95	457.38	1107.33	4472.36	24.76
Rajasthan	5174.15	150.59	622.47	109.32	4555.21	5287.00	10611.74	43.96
Uttar Pradesh	14266.41	417.52	277.23	121.71	340.45	739.39	15423.32	3.00
Uttarakhand	0.00	0.00	0.00	2472.35	77.81	2550.16	2550.16	100.00
Northern Region Total	25637.03	1122.72	899.70	12170.33	5998.20	19068.23	45827.98	39.65
WESTERN REGION								
Chhattisgarh	12594.03	0.00	0.00	69.32	188.66	257.98	12852.01	2.01
Gujarat	6531.22	1071.88	764.86	1004.62	4747.24	6516.72	14119.82	40.74
Madhya Pradesh	11922.37	0.00	0.00	1329.34	1005.46	2334.80	14257.17	16.38
Maharashtra	10636.74	345.59	809.32	654.86	1827.74	3291.92	14274.25	17.39
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	2.21	2.21	2.21	100.00
Goa	0.00	0.00	0.00	0.00	6.99	6.99	6.99	100.00
Western Region Total	41684.36	1417.47	1574.18	3058.14	7778.29	12410.61	55512.44	19.52
SOUTHERN REGION								
Andhra Pradesh	5856.31	0.00	0.00	142.72	1872.27	2014.99	7871.30	25.60
Telangana	4638.34	0.00	0.00	316.41	597.07	913.48	5551.82	16.45
Karnataka	3029.43	0.00	657.49	1385.58	3059.85	5102.92	8132.35	54.66

Renewable Energy (State Wise) Generation(MU) for the Month of August 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	430.22	255.97	686.19	686.19	100.00
Tamil Nadu	5417.96	171.27	1238.75	435.50	3647.21	5321.46	10910.69	37.42
Lakshadweep	5.36	0.00	0.00	0.00	0.01	0.01	5.37	0.14
Puducherry	0.00	21.07	0.00	0.00	1.02	1.02	22.09	4.62
Southern Region Total	18947.40	192.34	1896.24	2710.43	9433.40	14040.07	33179.81	36.60
EASTERN REGION								
Andaman Nicobar	28.34	0.00	0.00	0.00	2.99	2.99	31.33	9.53
Bihar	5319.70	0.00	0.00	0.00	15.32	15.32	5335.02	0.29
Jharkhand	2946.85	0.00	0.00	14.58	1.47	16.05	2962.90	0.54
Orissa	4196.35	0.00	0.00	811.82	132.00	943.82	5140.17	18.36
Sikkim	0.00	0.00	0.00	1794.35	1.03	1795.38	1795.38	100.00
West Bengal	7218.78	0.00	0.00	371.05	152.00	523.05	7741.83	6.76
Eastern Region Total	19710.02	0.00	0.00	2991.80	304.80	3296.60	23006.62	14.33
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	744.39	0.24	744.63	744.63	100.00
Assam	466.07	298.24	0.00	57.30	28.36	85.66	849.97	10.08
Manipur	0.00	0.00	0.00	34.28	0.64	34.92	34.92	100.00
Meghalaya	0.00	0.00	0.00	131.67	7.03	138.70	138.70	100.00
Mizoram	0.00	0.00	0.00	9.04	8.26	17.30	17.30	100.00
Nagaland	0.00	0.00	0.00	52.42	13.47	65.89	65.89	100.00
Tripura	0.00	589.99	0.00	0.00	0.28	0.28	590.27	0.05
North Eastern Region Total	466.07	888.23	0.00	1029.10	58.28	1087.38	2441.68	44.53
All India Total	106444.88	3620.76	4370.12	21959.80	23572.97	49902.89	159968.53	28.46

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

Renewable Energy (State Wise Generation(MU) for the Period of April-August 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	6.76	6.76	6.76	100.00
Delhi	0.00	1444.07	0.00	0.00	284.77	284.77	1728.84	16.47
Haryana	12085.88	95.82	0.00	0.00	586.06	586.06	12767.76	4.59
HP	0.00	0.00	0.00	21984.33	1528.44	23512.77	23512.77	100.00
J & K	0.00	0.00	0.00	10229.78	259.59	10489.37	10489.37	100.00
Ladakh	0.00	0.00	0.00	217.69	0.00	217.69	217.69	100.00
Punjab	14165.86	0.00	0.00	2318.04	2236.31	4554.35	18720.21	24.33
Rajasthan	23975.86	657.11	3022.55	196.31	21423.68	24642.54	49275.51	43.88
Uttar Pradesh	66262.83	1076.81	1457.66	400.30	2474.37	4332.33	71671.97	4.01
Uttarakhand	0.00	294.81	0.00	7488.80	389.05	7877.85	8172.66	96.39
Northern Region Total	116490.43	3568.62	4480.21	42835.25	29189.01	76504.47	196563.52	36.64
WESTERN REGION								
Chhattisgarh	66938.50	0.00	0.00	130.22	948.44	1078.66	68017.16	1.59
Gujarat	28279.33	3891.96	2273.95	1828.87	18887.05	22989.87	55161.16	37.56
Madhya Pradesh	59940.26	0.00	0.00	2895.16	4519.47	7414.63	67354.89	11.01
Maharashtra	54874.14	1515.43	3389.90	2853.56	8388.61	14632.07	71021.64	15.83
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	11.30	11.30	11.30	100.00
Goa	0.00	0.00	0.00	0.00	29.89	29.89	29.89	100.00
Western Region Total	210032.23	5407.39	5663.85	7707.81	32784.76	46156.42	261596.04	15.48
SOUTHERN REGION								
Andhra Pradesh	29976.76	0.00	0.00	624.27	8823.68	9447.95	39424.71	23.96
Telangana	22596.07	0.00	0.00	607.93	3122.59	3730.52	26326.59	14.17
Karnataka	17230.65	0.00	3094.72	4741.39	13719.28	21555.39	38786.04	47.60
Kerala	0.00	0.00	0.00	2538.51	938.03	3476.54	3476.54	100.00

Renewable Energy (State Wise Generation(MU) for the Period of April-August 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	29959.55	847.71	5303.97	1555.86	15988.73	22848.56	53655.82	32.70
Lakshadweep	27.30	0.00	0.00	0.00	0.04	0.04	27.34	0.14
Puducherry	0.00	104.18	0.00	0.00	5.10	5.10	109.28	4.67
Southern Region Total	99790.33	951.89	8398.69	10067.96	42597.44	61064.09	161806.31	32.55
EASTERN REGION								
Andaman Nicobar	142.72	0.00	0.00	0.00	14.14	14.14	156.86	9.01
Bihar	24703.06	0.00	0.00	0.00	119.07	119.07	24822.13	0.48
Jharkhand	14451.01	0.00	0.00	37.55	7.35	44.90	14495.91	0.31
Orissa	25866.72	0.00	0.00	2704.08	518.22	3222.30	29089.02	11.08
Sikkim	0.00	0.00	0.00	6453.11	5.16	6458.27	6458.27	100.00
West Bengal	37707.81	0.00	0.00	1447.00	801.50	2248.50	39956.31	5.63
Eastern Region Total	102871.32	0.00	0.00	10641.74	1465.44	12107.18	114978.50	10.53
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	2386.94	1.24	2388.18	2388.18	100.00
Assam	2208.93	1452.27	0.00	154.20	162.69	316.89	3978.09	7.97
Manipur	0.00	0.00	0.00	63.40	4.50	67.90	67.90	100.00
Meghalaya	0.00	0.00	0.00	423.59	25.47	449.06	449.06	100.00
Mizoram	0.00	0.00	0.00	32.23	41.30	73.53	73.53	100.00
Nagaland	0.00	0.00	0.00	93.05	38.51	131.56	131.56	100.00
Tripura	0.00	2776.44	0.00	0.00	2.25	2.25	2778.69	0.08
North Eastern Region Total	2208.93	4228.71	0.00	3153.41	275.97	3429.38	9867.02	34.76
All India Total	531393.24	14156.61	18542.75	74406.17	106312.63	199261.55	744811.40	24.26

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

RE generation(MUs) data (source wise) for the month of August 2023 and August 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	August'23	August'22	August'23	August'22	August'23	August'22	August'23	August'22	August'23	August'22	August'23	August'22	August'23	August'22
NORTHERN REGION														
Chandigarh	0.00	0.00	1.24	2.16	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	38.33	22.95	0.00	0.00
Haryana	0.00	0.00	60.08	63.04	28.39	29.70	0.00	20.96	22.91	22.16	4.96	4.55	0.00	0.00
Himachal Pradesh	0.00	0.00	3.80	5.76	0.00	0.00	0.00	0.00	358.60	371.52	0.00	0.00	6512.44	6239.03
J & K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.82	48.21	0.00	0.00	2237.67	2253.42
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	66.89	64.00
Punjab	0.00	0.00	323.14	181.95	47.40	24.92	0.07	0.00	86.77	92.29	0.00	0.00	649.95	544.53
Rajasthan	1461.50	548.23	3063.64	2555.92	29.97	34.16	0.00	0.00	0.10	0.00	0.00	0.00	109.32	113.28
Uttar Pradesh	0.00	0.00	304.35	276.99	3.00	7.83	10.19	12.65	15.99	28.97	6.92	7.53	121.71	102.96
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	2472.35	2190.90
Northern Region	1461.50	548.23	3801.11	3136.11	108.76	96.60	30.97	54.32	545.64	592.61	50.21	35.03	12170.33	11508.12
WESTERN REGION														
Chhattisgarh	0.00	0.00	58.49	39.54	97.55	60.34	0.00	0.00	32.62	34.23	0.00	0.00	69.32	17.09
Gujarat	3804.74	1629.11	924.51	648.12	0.00	0.00	0.00	0.00	17.99	21.79	0.00	0.00	1004.62	1300.18
Madhya Pradesh	695.22	432.07	252.16	234.28	4.23	1.03	0.00	0.00	52.73	41.30	1.12	2.27	1329.34	1162.29
Maharashtra	1306.79	1101.84	424.18	292.43	20.90	12.45	2.04	11.23	73.83	95.63	0.00	0.07	654.86	569.53
Dadra and Nagar Haveli and Daman and Diu	0.00	0.00	1.06	1.00	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	569.53
Goa	0.00	0.00	6.29	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.42	0.00	0.00

RE generation(MUs) data (source wise) for the month of August 2023 and August 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	August'23	August'22	August'23	August'22	August'23	August'22	August'23	August'22	August'23	August'22	August'23	August'22	August'23	August'22
Western Region	5806.75	3163.02	1666.70	1216.88	123.82	73.82	2.04	11.23	177.16	192.94	1.82	2.77	3058.14	3618.62
SOUTHERN REGION														
Andhra Pradesh	1133.14	1062.68	696.33	639.37	0.92	4.10	1.63	1.63	12.61	32.54	27.64	26.14	142.72	623.33
Telangana	31.41	34.54	542.53	500.50	0.29	0.01	0.00	0.01	9.20	15.89	13.64	11.89	316.41	1325.11
Karnataka	1436.09	1317.08	1290.57	1014.75	5.32	9.73	46.80	52.43	281.08	399.44	0.00	0.00	1385.58	1249.63
Kerala	97.58	16.54	93.77	55.90	0.00	0.00	5.41	3.32	59.21	120.71	0.00	0.00	430.22	1161.24
Tamil Nadu	2427.66	2552.87	1129.24	760.95	11.26	11.94	55.28	78.13	23.77	36.60	0.00	0.00	435.50	741.36
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	5125.88	4983.71	3753.47	2972.50	17.79	25.77	109.11	135.52	385.87	605.18	41.28	38.03	2710.43	5100.67
EASTERN REGION														
Andaman Nicobar	0.00	0.00	1.86	1.90	0.00	0.00	0.00	0.00	1.13	1.78	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	13.34	15.28	0.00	0.00	0.23	0.00	1.75	2.62	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	1.47	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.58	45.44
Orissa	0.00	0.00	54.21	47.45	6.97	0.03	0.00	0.00	70.82	69.22	0.00	0.00	811.82	679.77
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	1794.35	1693.25
West Bengal	0.00	0.00	8.61	9.21	0.00	0.00	0.00	0.00	22.19	20.42	121.20	137.38	371.05	376.67
Eastern Region	0.00	0.00	79.49	75.70	6.97	0.03	0.23	0.00	96.92	95.07	121.20	137.38	2991.80	2795.13

RE generation(MUs) data (source wise) for the month of August 2023 and August 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	August'23	August'22	August'23	August'22	August'23	August'22	August'23	August'22	August'23	August'22	August'23	August'22	August'23	August'22
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	744.39	622.57
Assam	0.00	0.00	23.66	21.34	0.00	0.00	0.00	0.00	4.64	8.19	0.05	0.00	57.30	66.27
Manipur	0.00	0.00	0.64	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.28	76.86
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.03	10.43	0.00	0.00	131.67	126.68
Mizoram	0.00	0.00	0.27	0.23	0.00	0.00	0.00	0.00	7.99	1.03	0.00	0.00	9.04	39.13
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.47	15.12	0.00	0.00	52.42	19.59
Tripura	0.00	0.00	0.28	0.56	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	25.03	27.07	0.00	0.00	0.00	0.00	33.19	35.19	0.05	0.00	1029.10	951.10
All India Total	12394.14	8694.96	9325.80	7428.25	257.34	196.22	142.35	201.06	1238.78	1520.98	214.57	213.20	21959.80	23973.64

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

RE generation(MUs) data (source wise) for the period of April-August2023 and April-August2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22
NORTHERN REGION														
Chandigarh	0.00	0.00	6.76	5.63	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	86.06	110.61	0.00	0.00	0.00	0.00	0.00	0.00	198.71	111.07	0.00	0.00
Haryana	0.00	0.00	294.52	315.20	133.71	148.50	51.24	104.80	81.45	110.80	25.14	22.75	0.00	0.00
Himachal Pradesh	0.00	0.00	25.51	27.14	0.00	0.00	0.00	0.00	1502.93	1320.89	0.00	0.00	21984.33	22744.43
J & K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	259.59	214.83	0.00	0.00	10229.78	10536.93
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	217.69	237.43
Punjab	0.00	0.00	1642.26	892.23	238.84	195.32	44.04	44.78	311.17	326.09	0.00	0.00	2318.04	1900.12
Rajasthan	4844.22	3733.43	16435.83	13320.23	143.35	156.28	0.00	0.00	0.27	0.24	0.00	0.00	196.31	198.44
Uttar Pradesh	0.00	0.00	1766.19	1541.64	16.17	41.25	579.71	586.38	51.08	78.56	61.22	24.06	400.30	357.86
Uttarakhand	0.00	0.00	138.25	138.25	0.00	0.00	103.55	103.55	147.25	147.25	0.00	0.00	7488.80	7789.73
Northern Region	4844.22	3733.43	20395.37	16350.93	532.07	541.35	778.54	839.51	2353.74	2198.66	285.07	157.88	42835.25	43764.94
WESTERN REGION														
Chhattisgarh	0.00	0.00	292.43	199.24	592.06	496.32	4.55	0.60	59.40	58.44	0.00	0.00	130.22	86.36
Gujarat	13623.32	10522.97	5187.12	3887.65	0.00	0.00	0.00	2.86	76.60	65.60	0.00	2.24	1828.87	2328.95
Madhya Pradesh	2783.16	2652.99	1502.26	1693.43	37.43	6.94	9.93	22.15	176.40	92.23	10.28	15.84	2895.16	2687.38
Maharashtra	5204.40	4697.94	2295.25	1507.69	125.58	118.07	336.77	1075.68	426.49	335.50	0.12	0.30	2853.56	2938.34

RE generation(MUs) data (source wise) for the period of April-August2023 and April-August2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22
Dadra and Nagar Haveli and Daman and Diu	0.00	0.00	6.10	17.95	5.19	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	569.53
Goa	0.00	0.00	26.68	4.28	0.00	0.00	0.00	0.00	0.00	0.00	3.21	2.12	0.00	0.00
Western Region	21610.88	17873.90	9309.85	7310.23	760.26	624.55	351.26	1101.29	738.89	551.76	13.61	20.51	7707.81	8610.56
SOUTHERN REGION														
Andhra Pradesh	5122.10	4737.42	3487.22	3381.70	10.21	35.01	10.87	46.92	64.13	87.48	129.15	110.28	624.27	1252.14
Telangana	162.88	148.95	2869.52	2702.53	2.20	17.35	11.43	7.17	17.42	27.49	59.14	71.38	607.93	1993.41
Karnataka	6218.28	5555.69	6373.99	5625.68	30.41	59.07	492.12	597.53	604.49	1013.34	0.00	0.00	4741.39	5505.99
Kerala	156.16	71.03	457.56	260.14	0.00	0.00	33.58	26.90	290.70	420.95	0.02	0.00	2538.51	3805.81
Tamil Nadu	10653.64	10850.01	4964.22	3652.64	48.88	53.78	269.35	306.81	52.64	99.26	0.00	0.00	1555.86	2301.78
Lakshadweep	0.00	0.00	0.04	0.05	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	5.10	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Southern Region	22313.05	21363.09	18157.65	15627.84	91.70	165.22	817.35	985.32	1029.38	1648.52	188.30	181.66	10067.96	14859.13
EASTERN REGION														
Andaman Nicobar	0.00	0.00	11.00	10.58	0.00	0.00	0.00	0.00	3.14	6.09	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	80.04	76.77	0.00	0.00	36.15	0.00	2.88	5.70	0.00	0.00	0.00	0.00

RE generation(MUs) data (source wise) for the period of April-August2023 and April-August2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22	April'23-August'23	April'22-August'22
Jharkhand	0.00	0.00	7.35	9.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.55	82.38
Orissa	0.00	0.00	307.65	273.65	35.71	17.30	0.00	0.00	174.87	169.26	0.00	0.00	2704.08	2181.17
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.15	5.15	0.00	0.00	6453.12	6878.26
West Bengal	0.00	0.00	58.70	50.66	0.00	0.00	0.00	0.00	89.97	83.26	652.83	683.68	1447.00	1632.70
Eastern Region	0.00	0.00	464.74	420.97	35.71	17.30	36.15	0.00	276.01	269.46	652.83	683.68	10641.75	10774.51
NORTH-EASTERN REGION														
Arunachal Pradesh	0.00	0.00	0.94	16.94	0.00	0.00	0.00	0.00	0.30	1.73	0.00	0.00	2386.94	2497.77
Assam	0.00	0.00	128.20	71.20	0.00	0.00	0.00	0.00	34.36	28.64	0.13	0.00	154.20	233.87
Manipur	0.00	0.00	3.27	3.48	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.01	63.40	299.58
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.47	44.18	0.00	0.00	423.59	587.16
Mizoram	0.00	0.00	1.33	1.35	0.00	0.00	0.00	0.00	39.97	3.10	0.00	0.00	32.23	77.67
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.51	41.74	0.00	0.00	93.05	101.55
Tripura	0.00	0.00	2.25	2.59	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	135.99	95.57	0.00	0.00	0.00	0.00	138.62	119.38	1.36	0.01	3153.41	3797.60
All India Total	48768.16	42970.42	48463.60	39806.94	1419.74	1348.41	1983.30	2926.12	4536.64	4767.79	1141.18	1043.73	74406.18	81806.74



This report is published by
Renewable Project Monitoring Division
Central Electricity Authority, New Delhi

For any query, please contact at:
011-26732320
ce-rpmcea@cea.nic.in/ cerpmcea@gmail.com