



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

April-2023/ अप्रैल-2023

नवीकरणीय परियोजना प्रबोधन प्रभाग
Renewable Project Monitoring Division

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Highlights of RE GENERATION

During April 2023

1. RE capacity addition during April 2023 has been 532.49MW (Solar -297.54MW and Wind -234.95 MW)
2. RE generation during April 2023 has increased by 10.38 % as compared to April 2022.
3. Large Hydro Power generation during April 2023 as compared to April 2022 has decreased by 24.37 %
4. Solar Power generation during April 2023 as compared to April 2022 has increased by 23.96% on All India basis in all states except Chandigarh, Haryana, Delhi, Himachal Pradesh, Madhya Pradesh, Arunachal Pradesh, Mizoram and Tripura.
5. Wind Power generation during April 2023 as compared to April 2022 has increased by 2.98 % on All India basis in all states except Gujarat, Madhya Pradesh and Kerala.
6. Biomass Power generation during April 2023 as compared to April 2022 has decreased by 6.94 % on All India basis except Punjab, Madhya Pradesh and Tamil Nadu.
7. Bagasse power generation during April 2023 as compared to April 2022 has decreased by 30.58% on All India basis except Haryana, Telangana and Bihar.
8. Others (Waste to Heat) Power generation has increased by 4.43 % during April 2023 as compared to April 2022 except Uttar Pradesh, Madhya Pradesh, Telangana and West Bengal.
9. Small Hydro Power generation during April 2023 as compared to April 2022 has decreased by 14.10 % on All India basis except Gujarat, Madhya Pradesh, Odisha, West Bengal, Assam Meghalaya, Nagaland, Arunachal Pradesh and Mizoram.

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

Decreased by 64.82 % as compared to April 22.

Decreased by 82.53 % as compared to March 23.

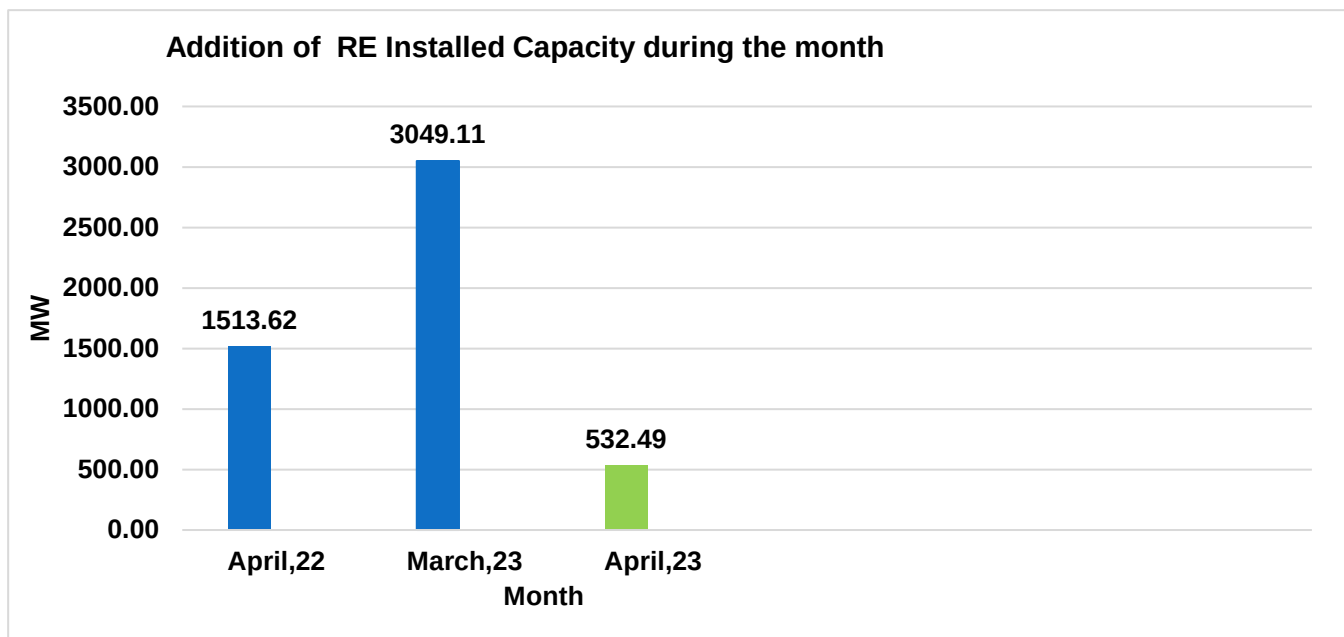


Figure 1: RE capacity added during the Month

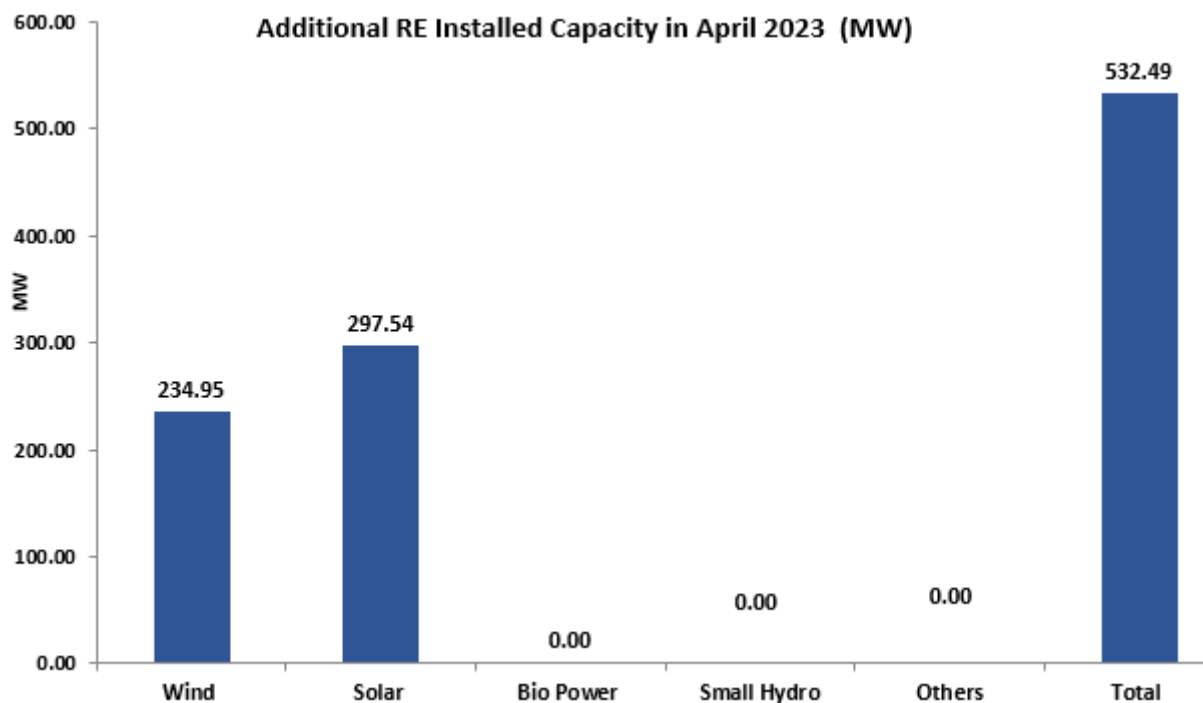


Figure 2: Source wise addition in RE Installed Capacity in April 23

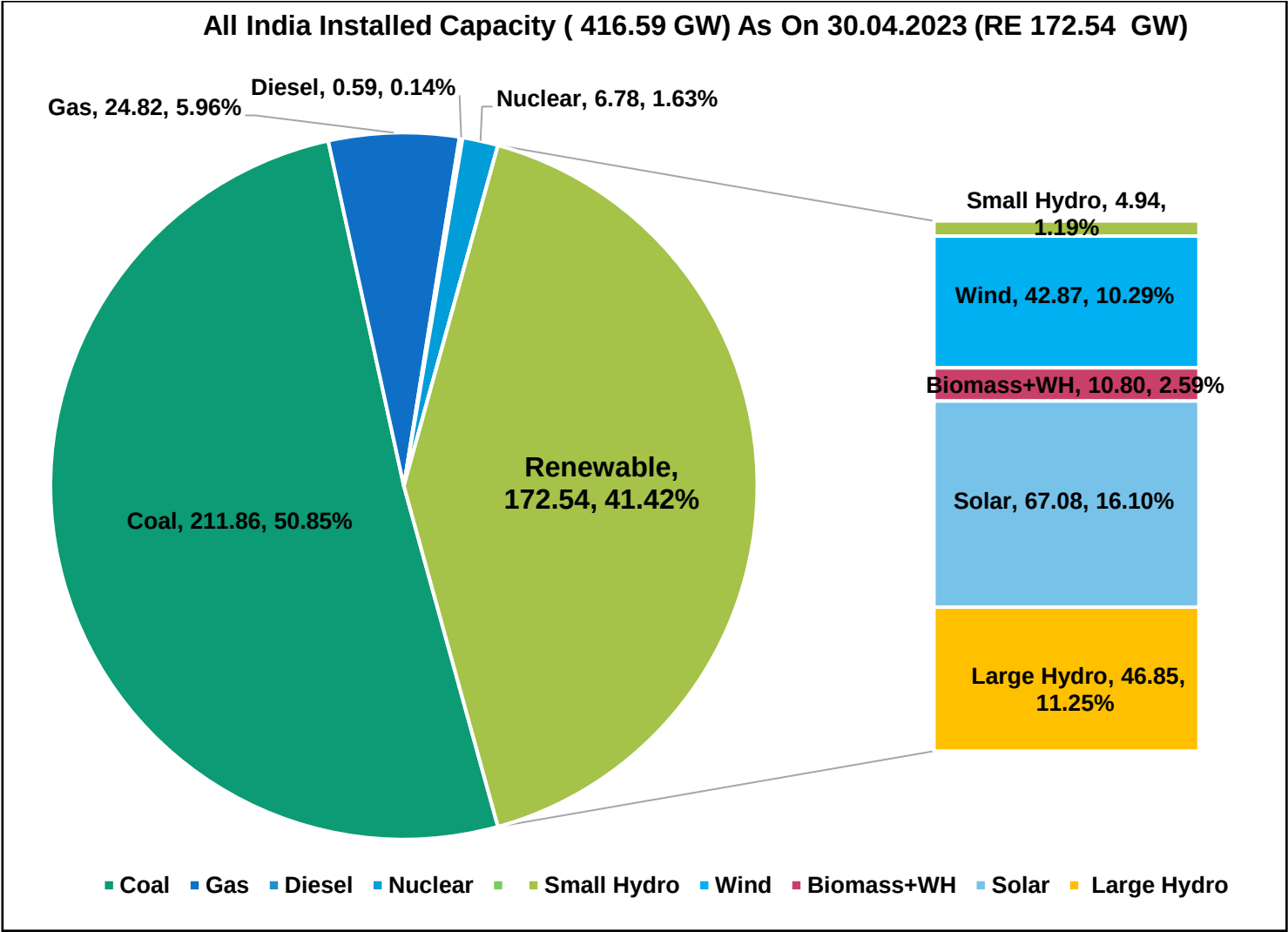


Figure 3: Installed Capacity in India as on 30.04.2023

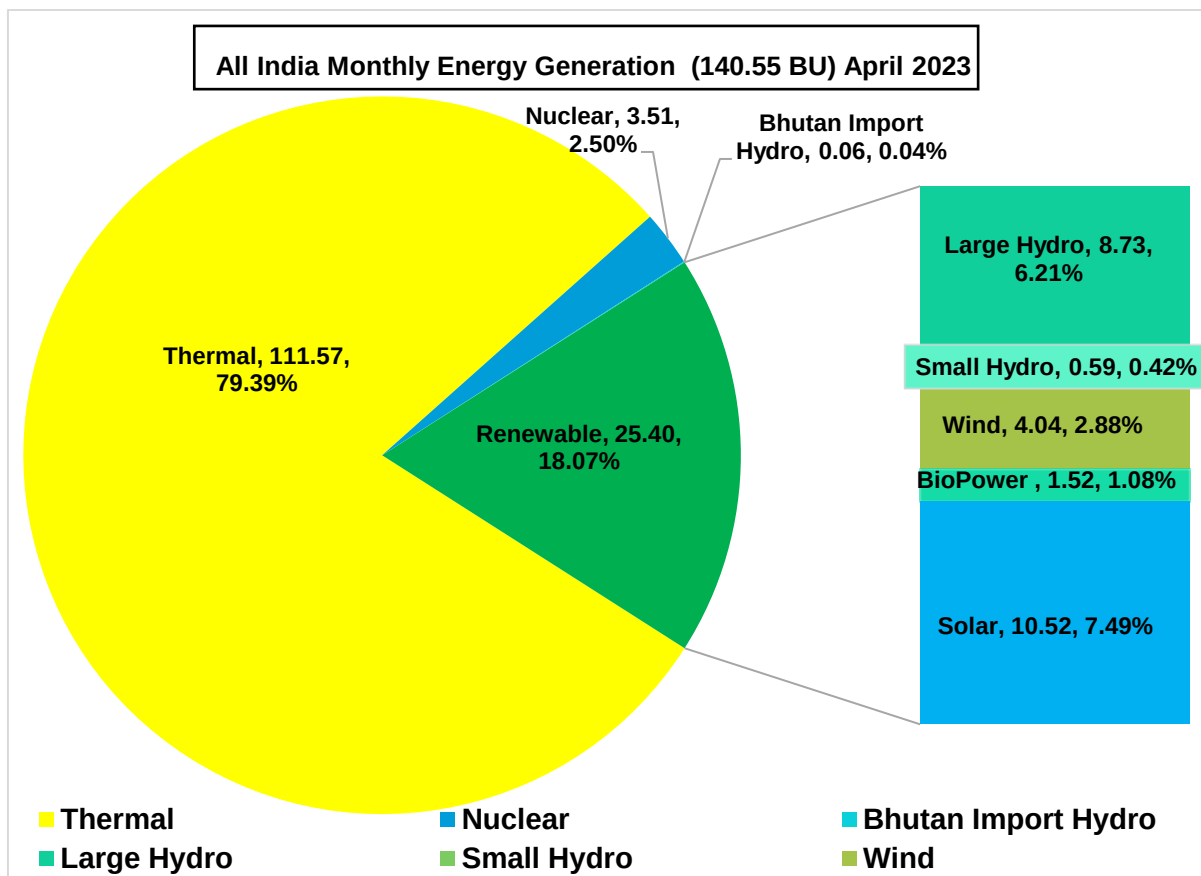


Figure 4: Total Energy Generation in India and Share of RE in the month of April-2023

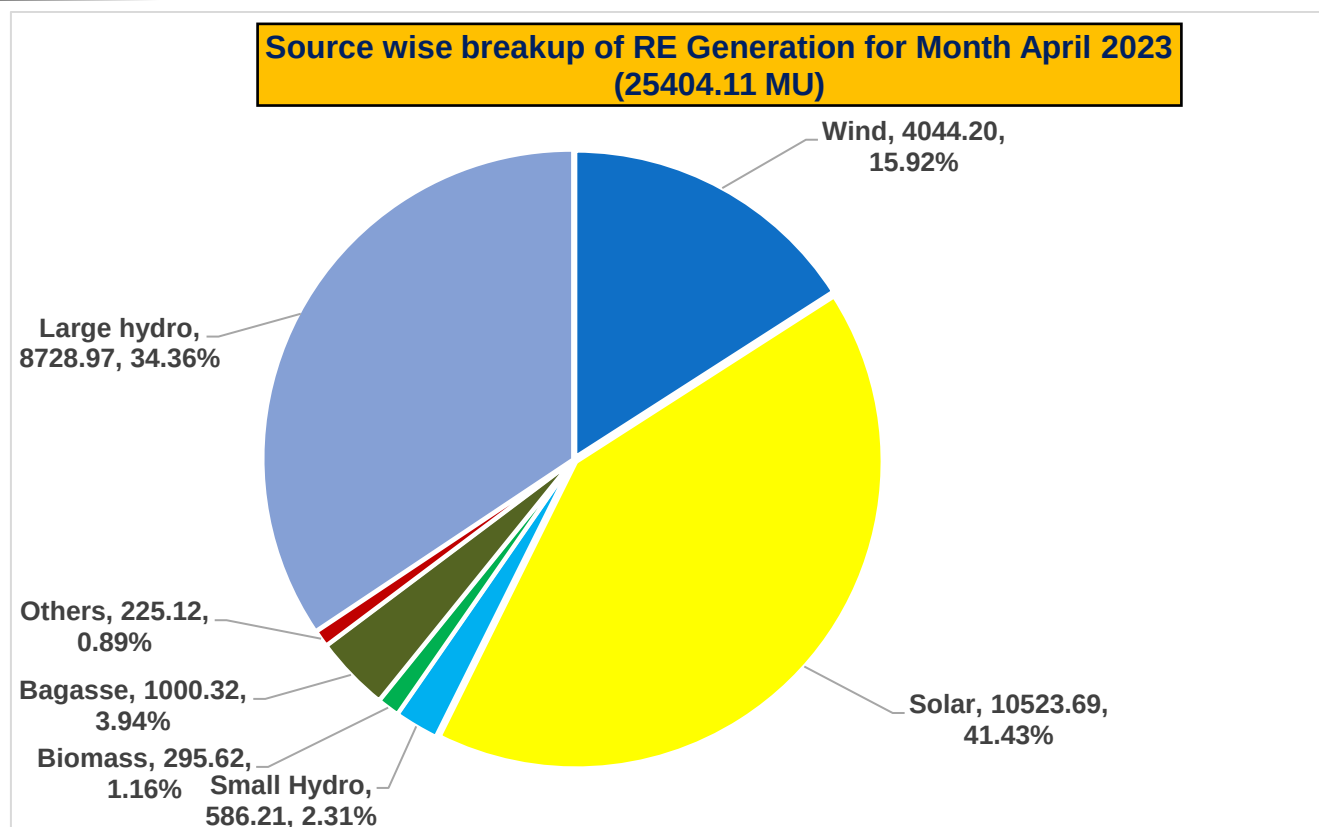


Figure 5: Source wise breakup of RE Generation in the month of April-2023

Summary of Renewable Energy Generation

Decreased by 04.67% as compared to April'22

Increased by 01.87% as compared to March'23.

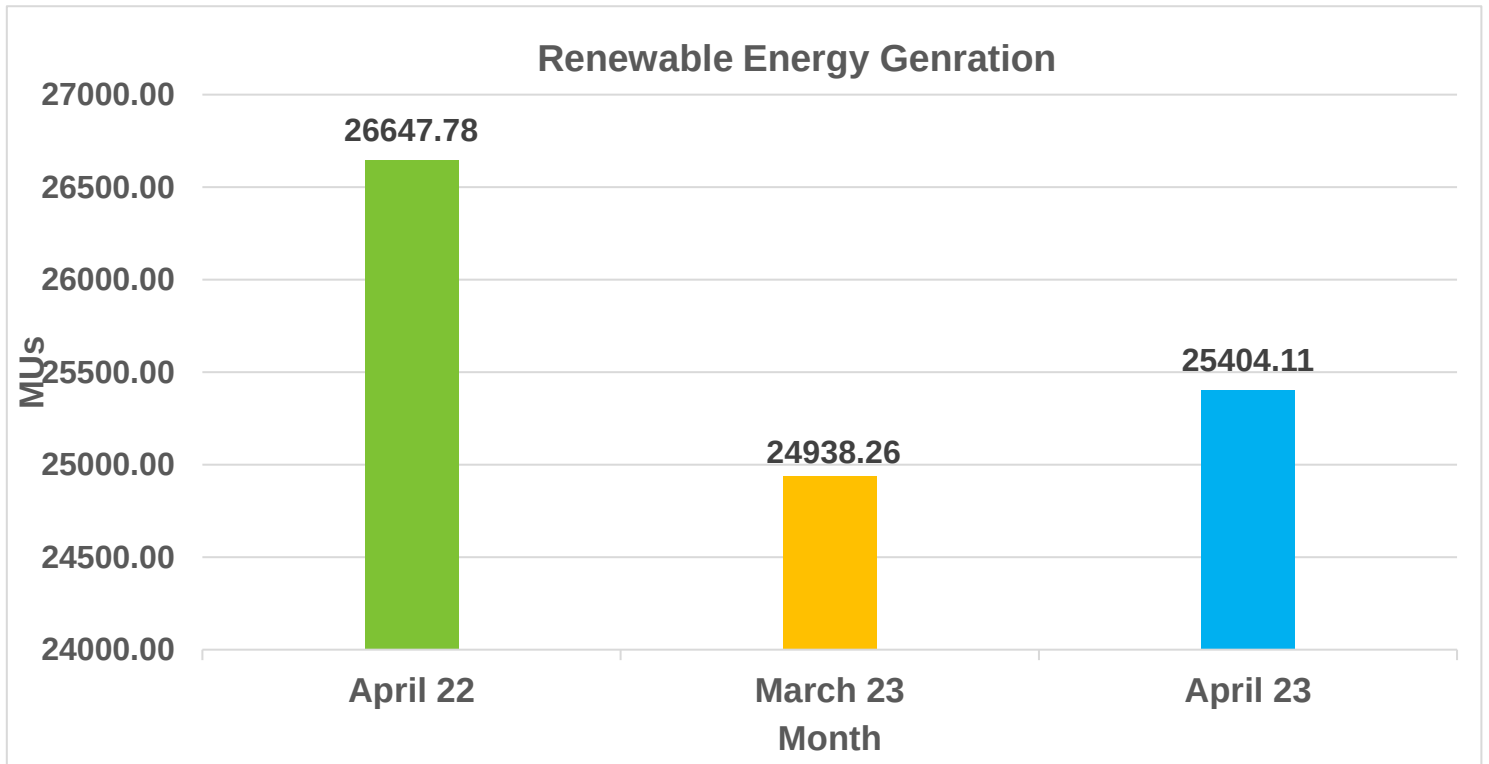


Figure 6: Renewable Energy Generation

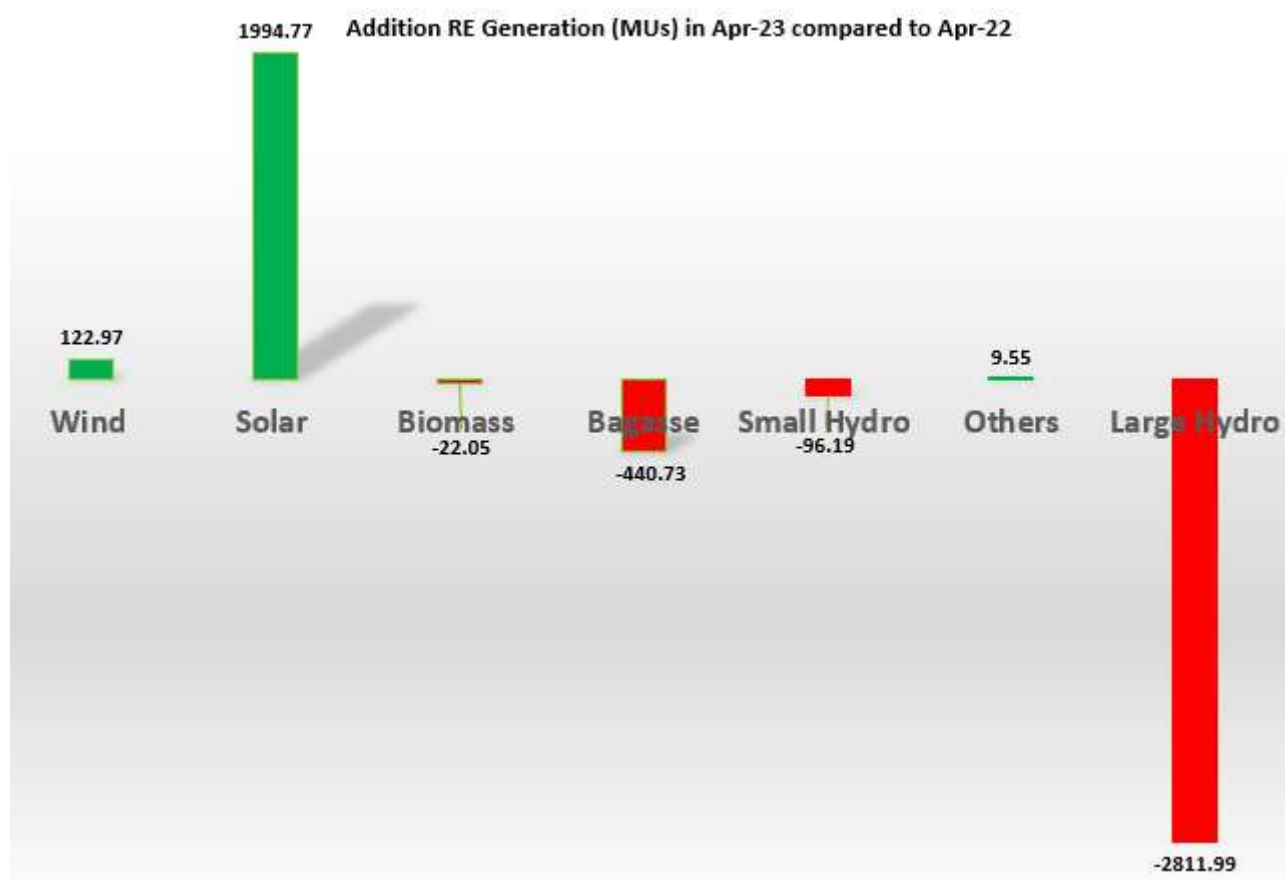


Figure 7: Additional RE Generation in April-23 as compared to April-22



Figure 8: Month Wise % Growth of RE Generation in year 2022-23 w.r.t to previous year Same Month.

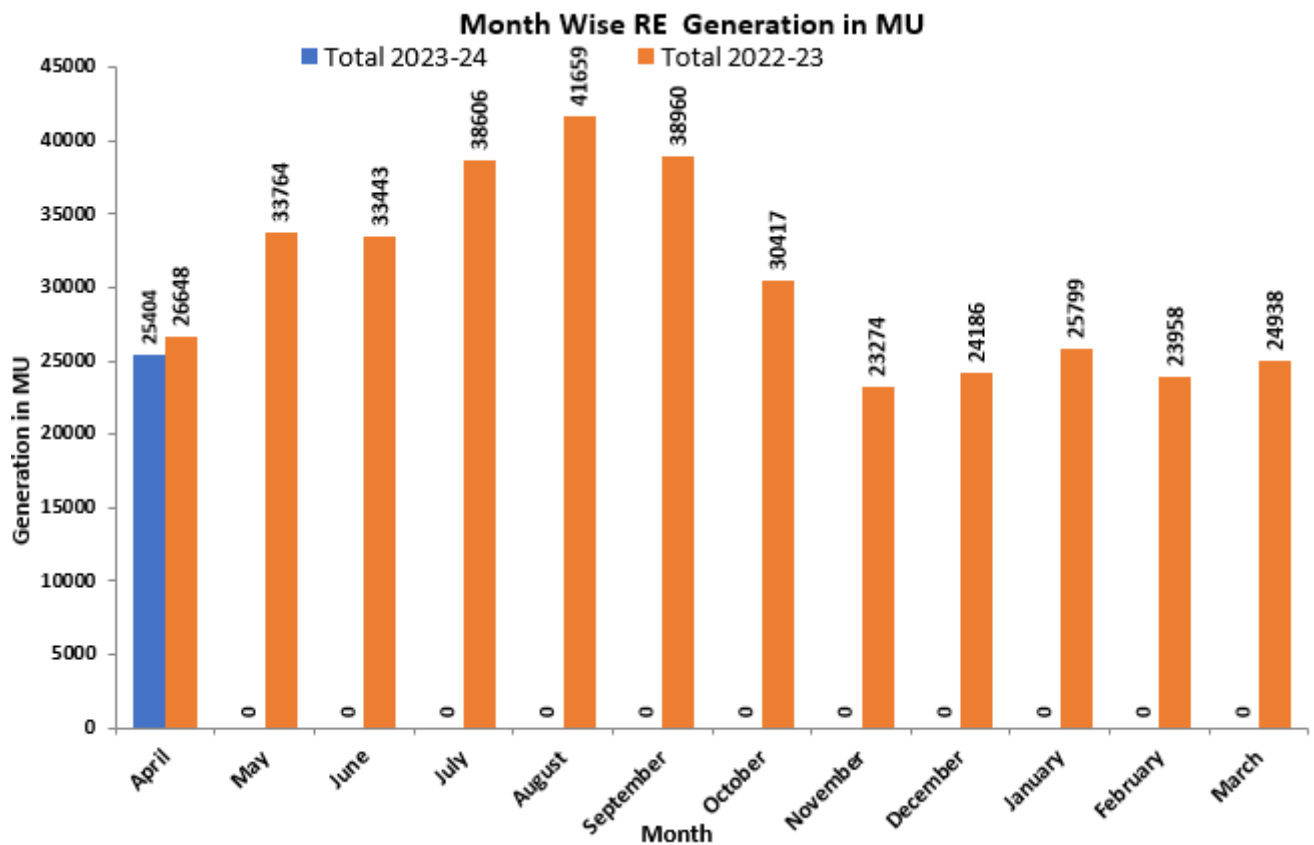


Figure 9: comparison of Month Wise RE Generation in year 2022-23 & in year 2023-24

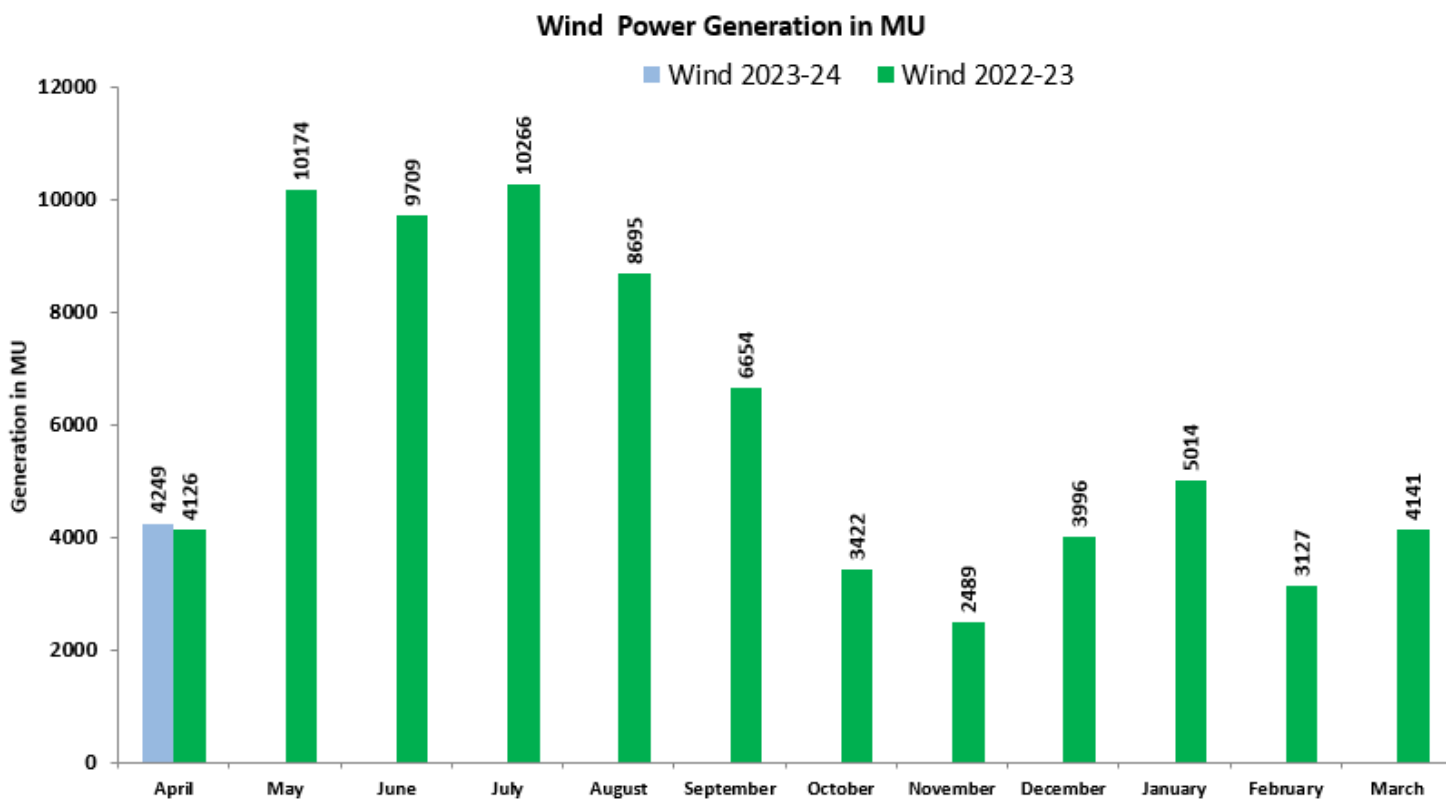


Figure 10: Month Wise Wind Power Generation for the year 2022-23 and year 2023-24.

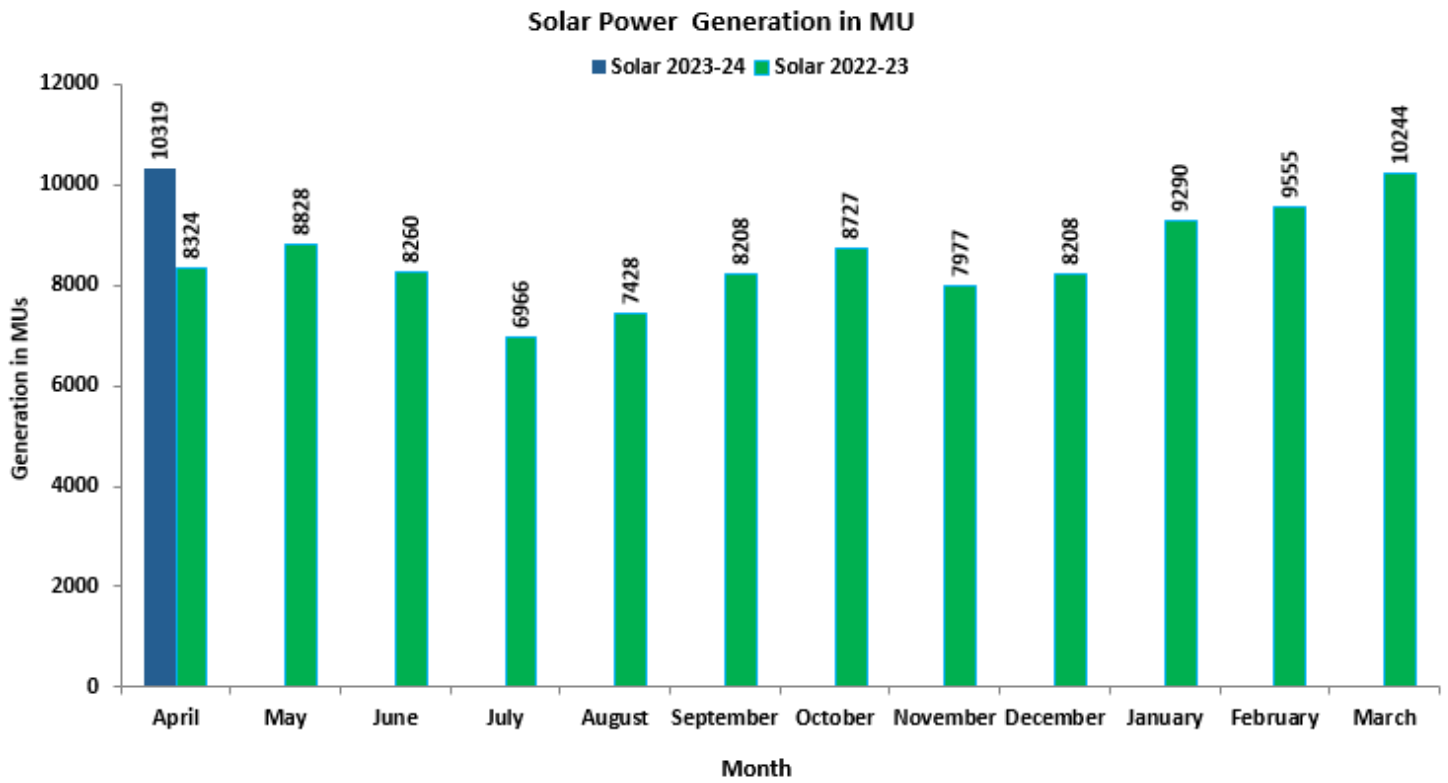


Figure 11: Month Wise Solar Power Generation for the year 2022-23 and year 2023-24.

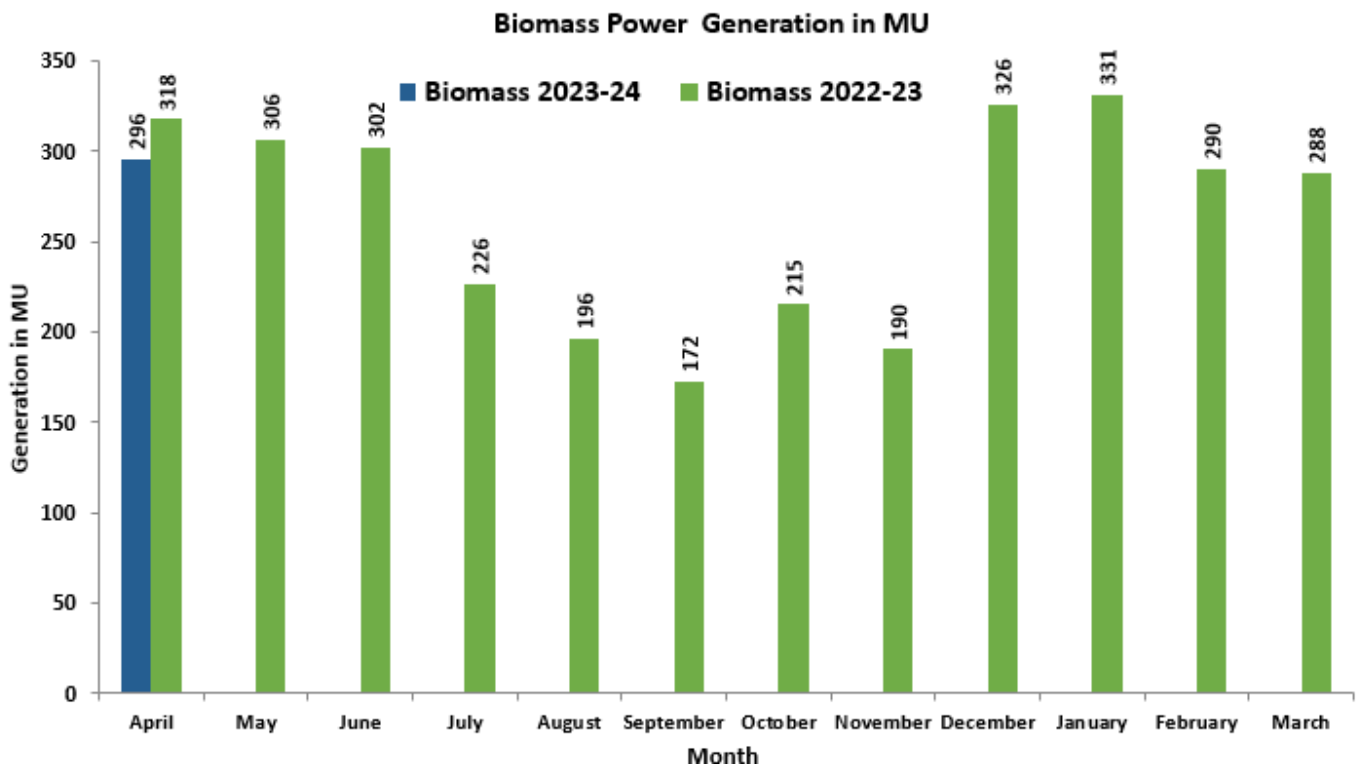


Figure 12: Month Wise Biomass Power Generation for the year 2022-23 and year 2023-24.

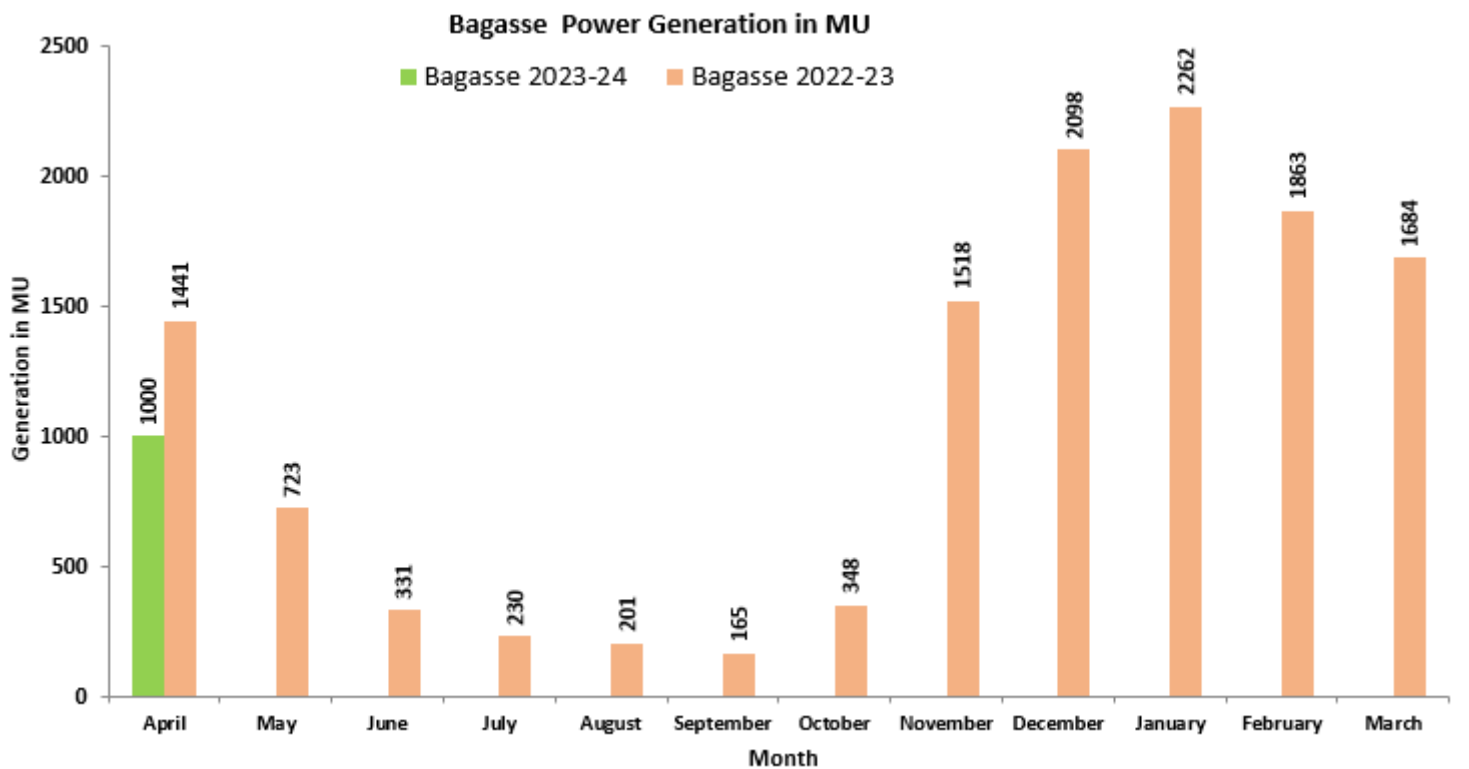


Figure 13: Month Wise Bagasse Power Generation for the year 2022-23 and year 2023-24.

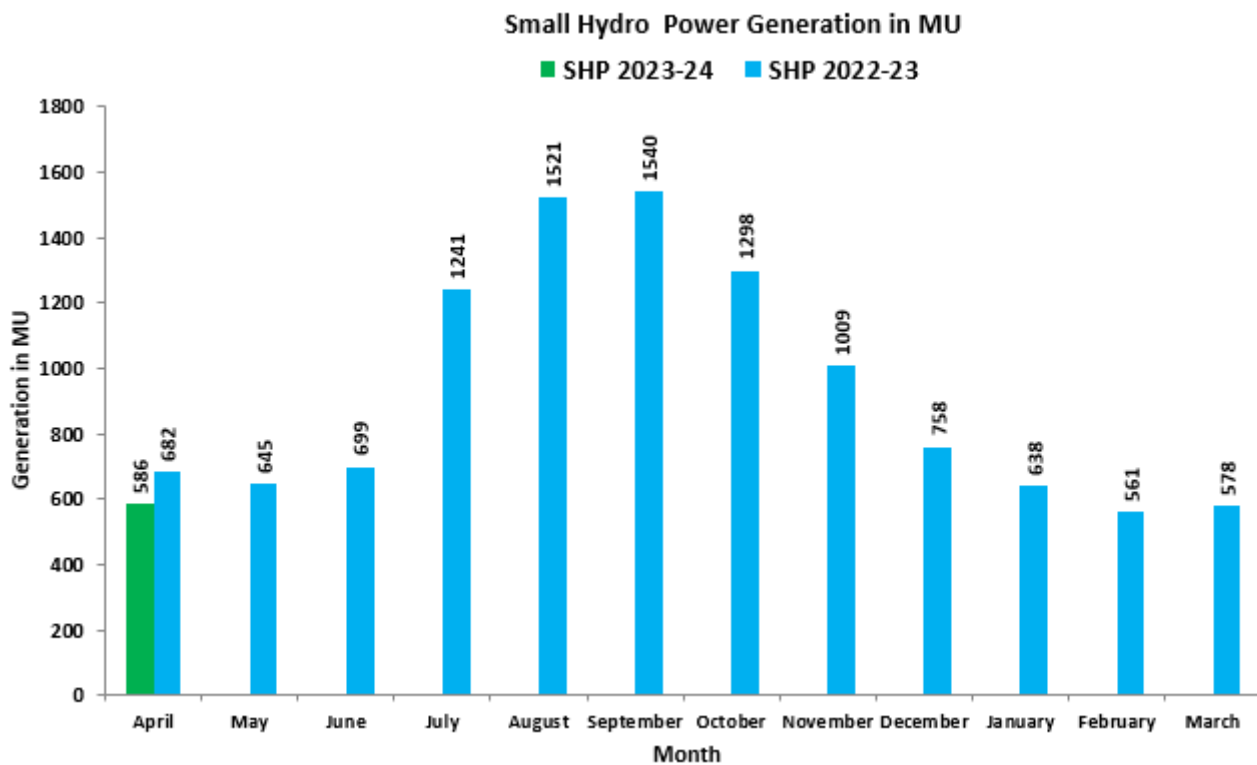


Figure 14: Month Wise Small Hydro Power Generation for the year 2022-23 and year 2023-24.

Power Generation from other RE sources in MU

Other 2023-24 Other 2022-23

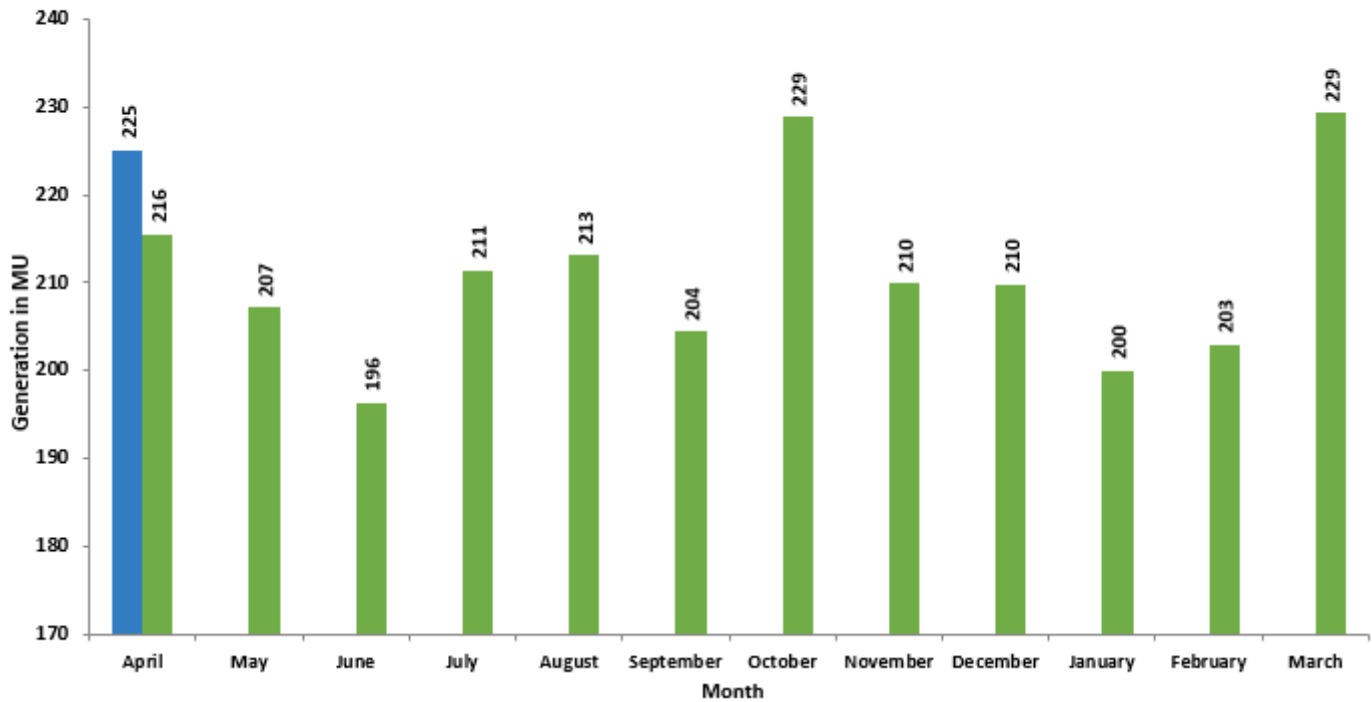


Figure 15: Month Wise Other RE (Waste Heat etc.) Power for the year 2022-23 and year 2023-24.

Power Generation from Large Hydro RE sources in MU

Large Hydro 2023-24 Large Hydro 2022-23

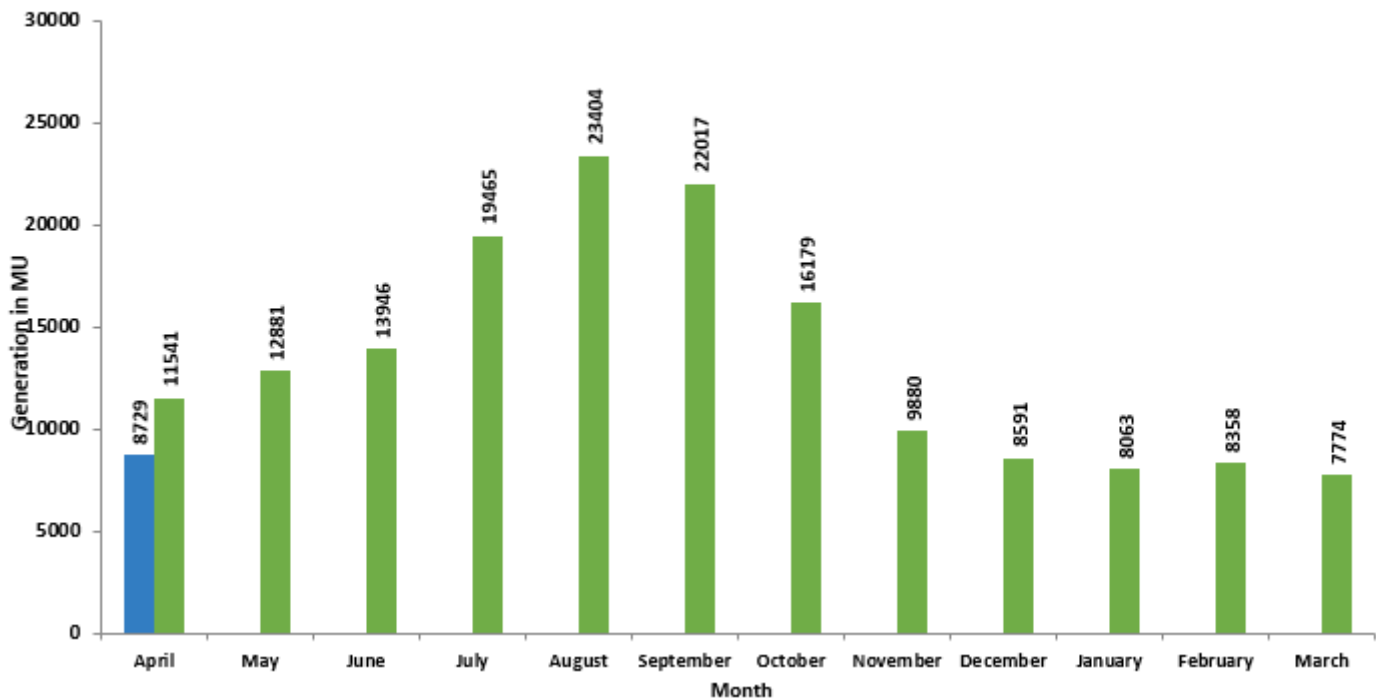


Figure 16: Month Wise Large Hydro Power Generation for the year 2022-23 and year 2023-24.

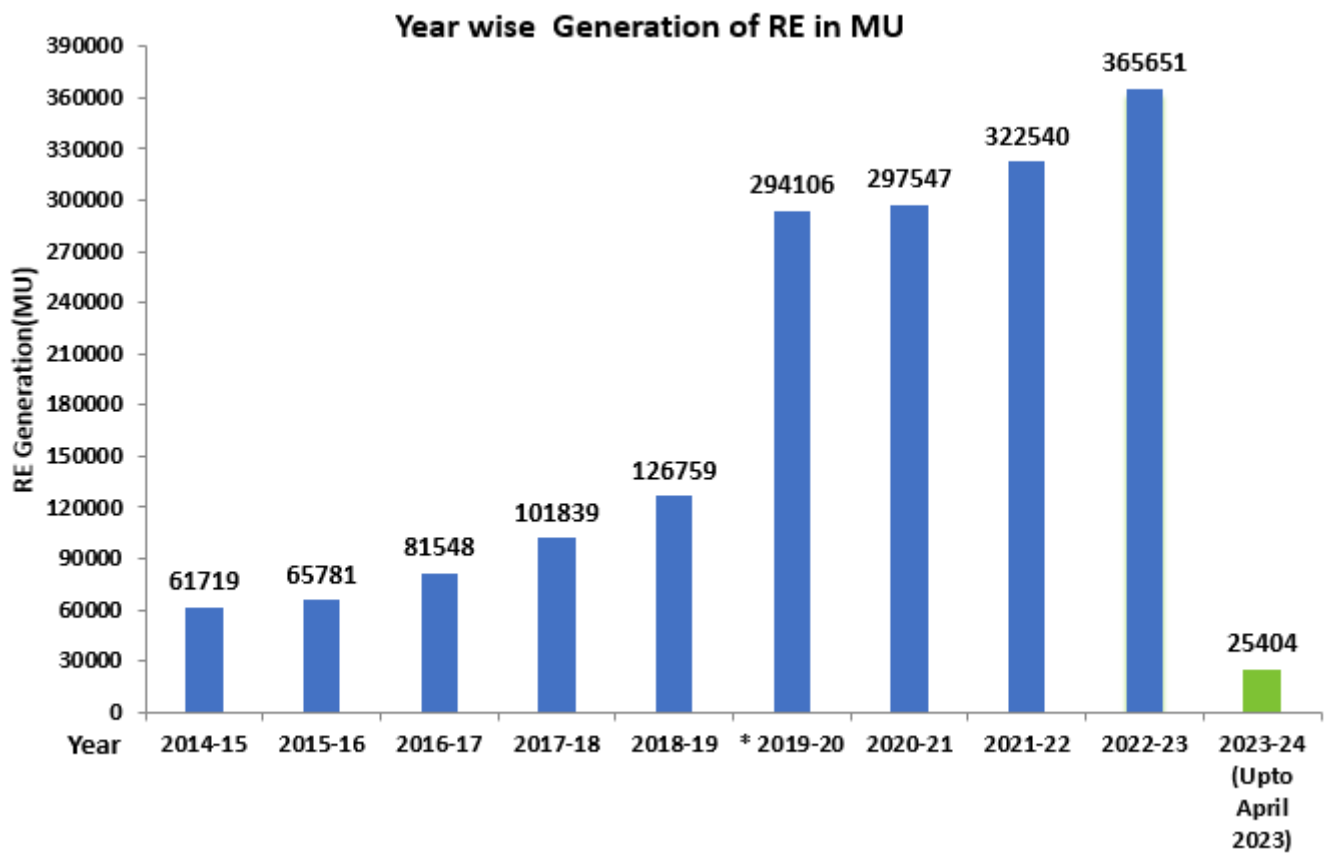


Figure 17: Year Wise RE Generation

(*) 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 (April-2023)

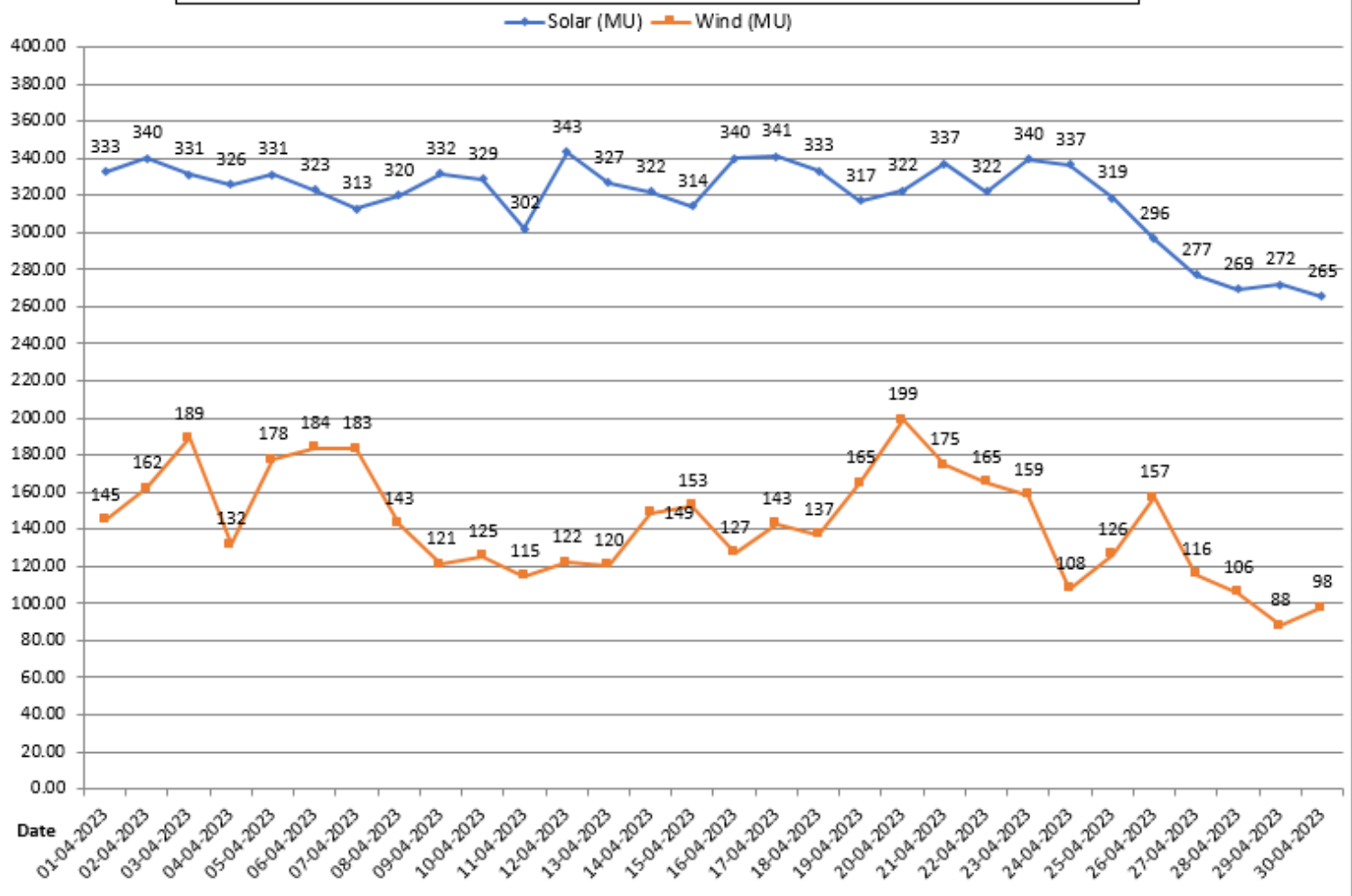


Figure 18: Daily solar and wind power generation trend in the month of April-2023

Summary of All India Total Renewable Energy Generation

Table 1 All India Summary of Renewable Energy Generation

Category	MNRE Installed Capacity (MW) (as on 30.04.2023)	SLDC Installed Capacity (MW) (as on 30.04.2023)	RE Generation (MU) April'2023	RE Generation (MU) April'2022	% of same Month Last Year
पवन/Wind	42868.08	42756.68	4249.20	4126.22	102.98
सौर/Solar	67077.88	54955.16(*)	10318.69	8323.92	123.96
बायोमास/Biomass	10248.01	8705.954	295.62	317.66	93.06
बगास/Bagasse			1000.32	1441.05	69.42
लघु जल विद्युत्/Small Hydro	4944.3	4271.00	586.21	682.40	85.90
विशाल जल विद्युत्/ Large Hydro (\$)	(#)	46850.17	8728.97	11540.96	75.63
अन्य/Others	554.03	642.68	225.12	215.57	104.43
कुल/Total	# 172542.47	158181.64	25404.11	26647.78	95.33

(*) Solar Installed capacity including 1.8GW rooftop solar.

(#) Large Hydro Capacity is reported to CEA and same has been added to the Total.

(\$) Large Hydro Generation data excluding import from Bhutan.

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

Station	State/ Region	Sector (Central /State /Private)	Owner	Type	Generation (MU)
Unchahar Solar	Uttar Pradesh	Central	NTPC	Solar	1.32
Dadri Solar	Uttar Pradesh	Central	NTPC	Solar	0.60
Singrauli Solar	Uttar Pradesh	Central	NTPC	Solar	1.78
Auraiya	Uttar Pradesh	Central	NTPC	Solar	6.46
Kolayat	Rajasthan	Central	NTPC	Solar	90.65
Nokhra	Rajasthan	Central	NTPC	Solar	58.21
Devikot	Rajasthan	Central	NTPC	Solar	49.24
ABC Renewable Energy	Rajasthan	Private	IPP	Solar	68.18
Acme Chittorgarh Energy Pvt Ltd.	Rajasthan	Private	IPP	Solar	54.56
Acme Heerghar Powertech Pvt Ltd	Rajasthan	Private	IPP	Solar	52.08
Adani Hybrid Energy Jaisalmer Four Limited	Rajasthan	Private	IPP	Solar	139.11
Adani Hybrid Energy	Rajasthan	Private	IPP	Solar	82.88
Adani Hybrid Energy Jaisalmer Three Limited	Rajasthan	Private	IPP	Solar	75.97
Adani Hybrid Energy Jaisalmer Two Limited	Rajasthan	Private	IPP	Solar	78.60
Adani RERJL	Rajasthan	Private	IPP	Solar	42.79
Adani SE Jaisalmer One	Rajasthan	Private	IPP	Solar	99.64
Adani SE4PL(Kilaj Solar)	Rajasthan	Private	IPP	Solar	11.36
Adani SEJ5PL(SB Energy)	Rajasthan	Private	IPP	Solar	42.67
Adani SERJ1PL(SB Energy Six)	Rajasthan	Private	IPP	Solar	66.43
Avaada Sunrays	Rajasthan	Private	IPP	Solar	72.51
Avaada RJHN	Rajasthan	Private	IPP	Solar	51.66
Avaada Sunce	Rajasthan	Private	IPP	Solar	75.49
Avaada Sustainable	Rajasthan	Private	IPP	Solar	65.95
Ayana Renewable One	Rajasthan	Private	IPP	Solar	70.71
Azure Power Forty One Private Limited	Rajasthan	Private	IPP	Solar	65.13
Azure Power Forty Three Private Ltd	Rajasthan	Private	IPP	Solar	134.72
Azure Power India Pvt Ltd	Rajasthan	Private	IPP	Solar	38.83
Azure Power Maple	Rajasthan	Private	IPP	Solar	51.99
Azure Power Thirty Four Private Ltd	Rajasthan	Private	IPP	Solar	26.85
Clean Solar Power	Rajasthan	Private	IPP	Solar	45.28
Clean Solar Power (Bhadla) Pvt Ldt	Rajasthan	Private	IPP	Solar	66.29
Eden Renewable Cite Private Limited	Rajasthan	Private	IPP	Solar	68.33
M/S Adani Solar Energy Jodhpur Two Ltd	Rajasthan	Private	IPP	Solar	11.66
Mahindra Renewable Private Limited	Rajasthan	Private	IPP	Solar	55.31

Station	State/ Region	Sector (Central /State /Private)	Owner	Type	Generation (MU)
Mega Surya Urja	Rajasthan	Private	IPP	Solar	55.05
Nindan Solar Fatehgar	Rajasthan	Private	IPP	Solar	66.50
Renew Jharkhand	Rajasthan	Private	IPP	Solar	67.22
Renew Solar Power Pvt Ltd	Rajasthan	Private	IPP	Solar	10.97
Renew Solar Power Pvt Ltd. Bikaner	Rajasthan	Private	IPP	Solar	55.40
Renew Solar Urja	Rajasthan	Private	IPP	Solar	65.85
Renew Sun Bright	Rajasthan	Private	IPP	Solar	66.57
Renew Sun Waves Private Limited	Rajasthan	Private	IPP	Solar	66.74
Renew Surya Ravi	Rajasthan	Private	IPP	Solar	50.71
SBSR Power Cleantech Eleven Private Limited	Rajasthan	Private	IPP	Solar	49.31
Tata Power Green Energy	Rajasthan	Private	IPP	Solar	47.71
Tata Power Renewable Energy Ltd	Rajasthan	Private	IPP	Solar	64.11
Thar Surya1	Rajasthan	Private	IPP	Solar	61.76
Adani Hybrid Energy Jaisalmer Four Limited	Rajasthan	Private	IPP	Wind	118.25
Adani Hybrid Energy	Rajasthan	Private	IPP	Wind	23.25
Adani Hybrid Energy Jaisalmer Three Limited	Rajasthan	Private	IPP	Wind	19.05
Adani Hybrid Energy Jaisalmer Two Limited	Rajasthan	Private	IPP	Wind	19.65
Adani SE Jaisalmer One	Rajasthan	Private	IPP	Wind	24.79
Northern Region					2856.13
Arinsun Solar (Barsaitadesh)	Madhya Pradesh	Private	IPP	Solar	48.24
Acme Solar (Ramnagar)	Madhya Pradesh	Private	IPP	Solar	0.00
Mahindra Solar (Badwar)	Madhya Pradesh	Private	IPP	Solar	48.85
Solapur_Solar	Maharashtra	Private	IPP	Solar	1.67
ESPL RSP Solar	Gujarat	Private	IPP	Solar	46.79
TPREL RSP Solar	Gujarat	Private	IPP	Solar	23.32
GIPCL RSP Solar	Gujarat	Private	IPP	Solar	23.69
Powerica Wind	Gujarat	Private	IPP	Solar	10.61
NTPC Kawas	Gujarat	Central	NTPC	Solar	10.58
GSECL	Gujarat	Private	IPP	Solar	15.18
Athen_RUM	Gujarat	Private	IPP	Solar	49.29
Gandhar_Solar	Gujarat	Private	IPP	Solar	2.45
RPL_SECI-II	Gujarat	Private	IPP	Solar	44.44
AWEK4L	Gujarat	Private	IPP	Wind	0.00
AWEKL1L	Gujarat	Private	IPP	Wind	113.08
AWEMP1PL	Gujarat	Private	IPP	Wind	74.25
Alfnar Wind	Gujarat	Private	IPP	Wind	63.67
Adani Green Energy Mp Ltd(Dayapar)(CPTTNPL)	Gujarat	Private	IPP	Wind	0.00
Giwel-II Wind (Vadva)	Gujarat	Private	IPP	Wind	51.06
Giwel-III Wind (Naranpar)	Gujarat	Private	IPP	Wind	65.71

Station	State/ Region	Sector (Central /State /Private)	Owner	Type	Generation (MU)
IWISL Wind (Dayapar)	Gujarat	Private	IPP	Wind	0.00
Ostro Wind (Kutch)	Gujarat	Private	IPP	Wind	62.70
Renew Ap2 Wind(Ghadsisa)	Gujarat	Private	IPP	Wind	69.05
Avikiran Solar India Private Limited (AS IPL)	Gujarat	Private	IPP	Wind	37.27
SITAC	Gujarat	Private	IPP	Wind	69.01
SRIJAN	Gujarat	Private	IPP	Wind	17.36
NETRA KOTDA BHUJ	Gujarat	Private	IPP	Wind	5.66
Western Region					953.93
Beetam(Tuticorin)	Tamil Nadu	Private	IPP	Wind	15.24
GRTJIPL	Tamil Nadu	Private	IPP	Wind	26.73
Mytra	Tamil Nadu	Private	IPP	Wind	12.26
Orange	Tamil Nadu	Private	IPP	Wind	13.63
Green Infra	Tamil Nadu	Private	IPP	Wind	18.34
Hiritur Ostro	Tamil Nadu	Private	IPP	Wind	36.05
Sprng Renewable Energy Pvt Ltd(Pugalur)	Tamil Nadu	Private	IPP	Wind	20.23
JSW_Renew2 Tuticorin	Tamil Nadu	Private	IPP	Wind	6.46
Ettayapuram	Tamil Nadu	Central	NTPC	Solar	40.23
RSTPS Floating Solar	Andhra Pradesh	Private	IPP	Solar	18.39
Simhadri Floating Solar	Andhra Pradesh	Private	IPP	Solar	4.96
Adani7	Telangana	Private	IPP	Solar	-0.46
Biwadi	Andhra Pradesh	Private	IPP	Solar	10.65
Hisar	Andhra Pradesh	Private	IPP	Solar	10.32
Karnal	Andhra Pradesh	Private	IPP	Solar	10.57
Ayana	Andhra Pradesh	Private	IPP	Solar	56.22
Azure	Andhra Pradesh	Private	IPP	Solar	9.04
FRV2	Andhra Pradesh	Private	IPP	Solar	10.76
FRV	Andhra Pradesh	Private	IPP	Solar	9.91
NTPC	Andhra Pradesh	Private	IPP	Solar	35.96
Sprng Agnitra	Andhra Pradesh	Private	IPP	Solar	51.02
Tata	Andhra Pradesh	Private	IPP	Solar	18.49
Adyah10	Karnataka	Private	IPP	Solar	65.55
Adyah13	Karnataka	Private	IPP	Solar	
Adyah1	Karnataka	Private	IPP	Solar	
Adyah2	Karnataka	Private	IPP	Solar	
Adyah3	Karnataka	Private	IPP	Solar	
Adyah6	Karnataka	Private	IPP	Solar	
Amplus	Karnataka	Private	IPP	Solar	10.54
Avaada	Karnataka	Private	IPP	Solar	30.72
Avaada Solarise	Karnataka	Private	IPP	Solar	31.62
Azure Power	Karnataka	Private	IPP	Solar	22.80
Fortum Finsurya	Karnataka	Private	IPP	Solar	19.21
Fortum	Karnataka	Private	IPP	Solar	53.99
Kredl	Karnataka	Private	IPP	Solar	9.80
Parampujya	Karnataka	Private	IPP	Solar	30.40
Renew	Karnataka	Private	IPP	Solar	10.94

Station	State/ Region	Sector (Central /State /Private)	Owner	Type	Generation (MU)
SBG	Karnataka	Private	IPP	Solar	44.59
Tata	Karnataka	Private	IPP	Solar	83.32
Yarrow	Karnataka	Private	IPP	Solar	10.06
Southern Region					858.54
All India Total					4668.60

Source: - 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) April'2023	RE Generation(MU) April'2022
NTPC					
Faridabad_Solar	Haryana	5.00	Solar	0.62	0.67
Bhadla	Rajasthan	260.00	Solar	37.52	39.39
Jetsar	Rajasthan	160.00	Solar	34.28	30.52
Fatehgarh	Rajasthan	296.00	Solar	67.04	48.06
Devikot	Rajasthan	240.00	Solar	49.68	0.00
Nokhra	Rajasthan	150.00	Solar	59.62	0.00
Dadri_Solar	Uttar Pradesh	5.00	Solar	0.60	0.62
Unchahar_Solar	Uttar Pradesh	10.00	Solar	1.33	1.25
Singrauli_Solar	Uttar Pradesh	15.00	Solar	2.39	1.70
Auraiya	Uttar Pradesh	40.00	Solar	6.46	3.18
Singrauli_SH	Uttar Pradesh	8.00	Small Hydro	3.52	3.15
Rojmal	Gujarat	50.00	Wind	6.83	273.87
Rajgarh_Solar	Madhya Pradesh	50.00	Solar	6.52	7.37
Mandsaur	Madhya Pradesh	250.00	Solar	34.17	37.57
Solapur	Maharashtra	10.00	Solar	1.64	0.00
Anantapuram	Andhra Pradesh	250.00	Solar	36.25	35.47
Ramagundam	Telangana	110.00	Solar	19.46	7.75
Andaman Nicobar	Andaman Nicobar	5.00	Solar	0.57	0.60
Talchar_Solar	Orissa	10.00	Solar	1.14	1.20
Solar_Bilhaur	Uttar Pradesh	225.00	Solar	43.91	50.01
Simhadri Floating Project	Andhra Pradesh	25.00	Solar	4.90	4.95
Kayamkulam	Kerala	92.00	Solar	20.03	3.56
Kawas	Gujarat	56.00	Solar	10.48	0.00
Gandhar	Gujarat	10.00	Solar	2.37	0.00
Shambu ki Burj-I	Rajasthan	250.00	Solar	56.50	0.00
Shambu ki Burj-II	Rajasthan	150.00	Solar	34.19	0.00
Ettayapuram	Tamil Nadu	230.00	Solar	40.10	0.00
Total NTPC		2962.00		582.12	550.89
THDC					
Patan Wind Power Project	Gujarat	50.00	Wind	5.50	6.94
Devbhumi Dwarka Wind Power Project	Gujarat	63.00	Wind	7.77	9.98
Solar Kasaragod	Kerala	50.00	Solar	9.67	8.13
Rishikesh office Premises	Uttar Pradesh	0.50	Solar	0.06	0.05

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) April'2023	RE Generation(MU) April'2022
Dhukwan SHEP Jhansi,UP	Uttar Pradesh	24.00	Small Hydro	0.00	1.35
Total THDC		187.50		23.00	26.45
NHPC					
Wind Power Project	Rajasthan	50.00	Wind	5.96	6.27
Solar Power Project	Tamilnadu	50.00	Solar	9.02	8.48
Total NHPC		100.00		14.98	14.75
ONGC					
Wind, Bhuj	Gujarat	51.00	Wind	5.02	4.73
Wind, Jaisalmer	Rajasthan	102.00	Wind	9.61	10.40
Solar, Goa	Goa	1.00	Solar	0.15	0.12
Solar, Hazira	Gujarat	10.00	Solar	1.51	1.57
Solar, Hazira	Gujarat	5.00	Solar	0.72	0.00
Solar, Ankleshwar	Gujarat	5.00	Solar	0.82	0.87
Solar,Rajahmundary	Andhra Pradesh	1.00	Solar	0.12	0.09
ONGS Solar, SPP of Assam	Assam	1.09	Solar	0.13	0.12
Solar, SPP of Tati paka, Rajahmundry	Andhra Pradesh	5.00	Solar	0.63	0.71
Solar, Rooftop (RTS) Gujarat	Gujarat	4.23	Solar	0.48	0.59
Solar, Assam (RTS)	Assam	1.65	Solar	0.15	0.18
Solar, Uttarkhand (RTS)	Uttarkhand	1.24	Solar	0.15	0.16
Solar, Agartala asset	Tripura	0.25	Solar	0.02	0.02
Solar, Mumbai (Uran & NBP green height)	Maharashtra	0.29	Solar	0.01	0.00
Solar, Cauvery Assest Karaikal	Maharashtra	0.07	Solar	0.01	0.00
Solar,DDU Bhawan, (Under Maintenance)	Goa	0.25	Solar	0.04	0.00
ONGC Colony Noida	Uttar Pradesh	0.06	Solar	0.01	0.00
ONCG Jodhpur	Rajasthan	0.16	Solar	0.03	0.00
ONCG Jaisalmer	Rajasthan	0.16	Solar	0.00	0.00

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) April'2023	RE Generation(MU) April'2022
Total ONGC		189.05		19.57	19.56
SJVN					
Khirvire Wind Power	Maharashtra	47.60	Wind	2.03	3.75
Sadla Wind Power	Gujarat	50.00	Wind	7.35	10.15
Charanka Solar Power	Gujarat	5.60	Solar	0.86	0.84
Wadhal Solar Power Project	Gujarat	1.00	Solar	0.13	0.16
Parasan Solar Power	Gujarat	75.00	Solar	15.37	0.00
Total SJVN		179.20		25.74	14.89
OIL					
Oil India Ltd	Rajasthan	14.00	Solar	2.10	2.22
Oil India Ltd	Rajasthan	67.60	Wind	5.10	5.62
Oil India Ltd	Gujarat	43.30	Wind	7.94	8.28
Oil India Ltd	Madhya Pradesh	63.20	Wind	11.26	7.07
Total Oil India Ltd		188.10		26.40	23.20
NEEPCO					
NEEPCO	Tripura	5.00	Solar	0.54	0.59
DVC					
DVC	West Bengal	0.08	Solar	0.01	0.01
DVC	Jharkhand	4.00	Small Hydro	0.00	0.00
Total DVC		4.08		0.01	0.01
All India Total		3814.93		692.36	650.34

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 April 2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Northern Region					
ABC RENEWABLE ENERGY	Solar	70.88	68.18	-2.70	-3.81
ACME HEERGARH POWERT	Solar	48.90	52.08	3.18	6.50
ACSEPL_BHADLA	Solar	54.23	54.56	0.33	0.61
ADANI HYBRID	Solar	107.60	106.13	-1.47	-1.37
ADANI HYBRID FOUR	Solar	266.51	257.36	-9.15	-3.43
ADANI HYBRID THREE	Solar	97.53	95.02	-2.51	-2.57
ADANI HYBRID TWO	Solar	96.41	98.25	1.84	1.91
Adani RERJL	Solar	46.29	42.79	-3.50	-7.56
Adani SE Jaisalmer One	Solar	124.58	124.43	-0.15	-0.12
ADANI SE JODHPUR 2 L	Solar	11.45	11.66	0.21	1.83
Adani SE4PL	Solar	11.95	11.36	-0.59	-4.94
Adani SEJ5PL	Solar	41.99	42.67	0.68	1.62
Adani SERJ1PL	Solar	68.07	66.43	-1.64	-2.41
AURAIYA SOLAR	Solar	6.98	6.46	-0.52	-7.45
AVAADA RJHN	Solar	52.44	51.66	-0.78	-1.49
AVAADA SUNCE	Solar	76.40	75.49	-0.91	-1.19
AVAADA SUNRAYS	Solar	75.62	72.51	-3.11	-4.11
AVAADA SUSTAINABLE	Solar	66.23	65.95	-0.28	-0.42
AYANA RENEWABLE ONE	Solar	70.22	70.71	0.49	0.70
AZURE FORTY ONE	Solar	65.58	65.13	-0.45	-0.69
AZURE FORTY THREE	Solar	131.93	134.72	2.79	2.11
AZURE POWER MAPLE	Solar	55.39	51.99	-3.40	-6.14
AZURE POWER THIRTY F	Solar	27.37	26.85	-0.52	-1.90
AZURE SOLAR	Solar	39.96	38.83	-1.13	-2.83
CLEAN SOLAR POWER	Solar	46.01	45.28	-0.73	-1.59
CSP_BHADLA	Solar	68.42	66.29	-2.13	-3.11
DADRI SOLAR	Solar	0.70	0.60	-0.10	-14.29
DEVIKOT	Solar	50.56	49.24	-1.32	-2.61
EDEN RENEWABLE	Solar	69.16	68.33	-0.83	-1.20
KOLYAT SOLAR BIKANER	Solar	86.60	90.65	4.05	4.68
MAHINDRA RPL	Solar	56.48	55.31	-1.17	-2.07
MEGA SURYAURJA	Solar	54.93	55.05	0.12	0.22
NIDAN SOLAR FATEHGAR	Solar	67.50	66.50	-1.00	-1.48
NOKHRA	Solar	56.79	58.21	1.42	2.50
RENEW JHARKHAND	Solar	68.10	67.22	-0.88	-1.29
RENEW SOLAR	Solar	11.09	10.97	0.00	0.00
RENEW SOLAR URJA	Solar	65.32	65.85	0.00	0.00
RENEW SUN BRIGHT	Solar	66.63	66.57	-0.06	-0.09
RENEW SUN WAVES	Solar	67.85	66.74	-1.11	-1.64
RENEW SURYA RAVI	Solar	51.30	50.71	-0.59	-1.15
RSPPL_BKN	Solar	54.95	55.40	0.45	0.82

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of April 2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
SBSR POWER CLEANTECH	Solar	46.88	49.31	2.43	5.18
SINGRAULI SOLAR	Solar	2.09	1.78	-0.31	-14.83
TATA POWER GREEN ENERGY	Solar	51.76	47.71	-4.05	-7.82
TATA SOLAR	Solar	68.08	64.11	-3.97	-5.83
THAR SURYA 1	Solar	61.31	61.76	0.45	0.73
UNCHAHAHAR SOLAR	Solar	1.69	1.32	-0.37	-21.89
Western Region					
Alfnar Wind	Wind	68.74	63.67	-5.07	-7.37
Arinsun Solar (Barsaitadesh)	Solar	45.23	48.24	3.01	6.66
Avikiran Solar India Private Limited (ASIPL)	Wind	39.39	37.27	-2.12	-5.37
Athen_RUM	Solar	47.92	49.29	1.37	2.87
AWEK1L	Wind	124.03	113.08	-10.95	-8.83
AWEMP1PL_PTNGR_IDR_W	Wind	79.64	74.25	-5.39	-6.77
ESPL RSP Solar	Solar	47.29	46.79	-0.51	-1.07
GANDHAR_SOLAR	Solar	2.37	2.45	0.09	3.74
GIPCL RSP Solar	Solar	24.37	23.69	-0.68	-2.79
Giwel-III Wind (Naranpar)	Wind	71.96	65.71	-6.24	-8.68
Giwel-II Wind (Vadva)	Wind	56.60	51.06	-5.54	-9.78
GSECL	Solar	15.16	15.18	0.01	0.09
IWISL Wind (Dayapar)	Wind	0.00	0.00	0.00	0.00
NTPC Kawas	Solar	10.96	10.58	-0.38	-3.50
Mahindra Solar (Badwar)	Solar	48.40	48.85	0.46	0.94
NETRA KOTDA BHUJ	Solar	6.15	5.66	-0.50	-8.08
Ostro Wind (Kutch)	Wind	71.45	62.70	-8.76	-12.25
Powerica	Wind	11.38	10.61	-0.77	-6.77
Renew Solar (Bhuvad)	Solar	53.22	44.44	-8.78	-16.50
Renew Ap2 Wind(Ghadsisa)	Wind	74.60	69.05	-5.55	-7.44
SITAC Wind	Wind	72.44	69.01	-3.43	-4.74
Solapur_Solar-Schedule	Solar	1.66	1.67	0.00	0.04
SRIJAN Wind	Wind	18.98	17.36	-1.61	-8.51
TPREL RSP Solar	Solar	23.81	23.32	-0.49	-2.07
Southern Region					
BEETAM	Wind	20.99	15.24	-4.24	-20.20
GIREL	Wind	28.34	18.34	-2.16	-7.62
MYTRAH	Wind	23.06	12.26	-3.66	-15.87
ORANGE	Wind	24.03	13.63	-2.03	-8.45
SPRNG RENEWABLE ENERGY PVT LTD(PUGALUR)	Wind	23.03	20.23	-6.35	-27.57
GRTJIPL	Wind	28.45	26.73	-1.18	-4.15
JSW_Renew2	Wind	8.57	6.46	-1.18	-13.77
Ostro Hiriyr	Wind	46.32	36.05	-1.18	-2.55

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

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

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Month of May 2023								
State/UT	Fossil =((1)+(2))		Non Fossil =((3)+(4)+(5))			Total Renewable (6)={(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	2.20	2.20	2.20	100.00
Delhi	0.00	138.50	0.00	0.00	60.95	60.95	199.45	30.56
Haryana	2292.75	0.00	0.00	0.00	118.52	118.52	2411.27	4.92
HP	0.00	0.00	0.00	1832.75	186.55	2019.30	2019.30	100.00
J & K	0.00	0.00	0.00	1498.42	39.96	1538.38	1538.38	100.00
Ladakh	0.00	0.00	0.00	15.61	0.00	15.61	15.61	100.00
Punjab	2822.28	0.00	0.00	217.46	454.83	672.29	3494.57	19.24
Rajasthan	4582.13	108.76	614.27	3.13	4103.09	4106.22	9411.38	50.16
Uttar Pradesh	12420.11	43.43	301.50	25.03	775.24	800.27	13565.31	8.12
Uttarakhand	0.00	78.70	0.00	699.75	77.81	777.56	856.26	90.81
Northern Region Total	22117.27	369.39	915.77	4292.15	5819.15	10111.30	33513.73	32.90
WESTERN REGION								
Chhattisgarh	13945.02	0.00	0.00	22.33	199.38	221.71	14166.73	1.57
Gujarat	5288.43	731.33	316.70	154.53	2645.44	2799.97	9136.43	34.11
Madhya Pradesh	12092.72	0.00	0.00	154.77	819.31	974.08	13066.80	7.45
Maharashtra	11643.68	232.87	390.37	648.43	1185.27	1833.70	14100.62	15.77
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	2.43	2.43	2.43	100.00
Goa	0.00	0.00	0.00	0.00	1.94	1.94	1.94	100.00
Western Region Total	42969.85	964.20	707.07	980.06	4853.77	5833.83	50474.95	12.96
SOUTHERN REGION								
Andhra Pradesh	6093.57	0.00	0.00	116.95	1214.39	1331.34	7424.91	17.93
Telangana	4797.88	0.00	0.00	51.92	679.37	731.29	5529.17	13.23

Karnataka	3863.66	0.00	655.33	1083.31	2179.12	3262.43	7781.42	50.35
Kerala	0.00	0.00	0.00	565.69	150.83	716.52	716.52	100.00
Tamil Nadu	6999.95	168.77	1234.28	245.95	1444.37	1690.32	10093.32	28.98
Lakshadweep	5.78	0.00	0.00	0.00	0.01	0.01	5.79	0.13
Puducherry	0.00	20.48	0.00	0.00	1.02	1.02	21.50	4.74
Southern Region Total	21760.84	189.25	1889.61	2063.82	5669.11	7732.93	31572.63	30.48
EASTERN REGION								
Andaman Nicobar	30.35	0.00	0.00	0.00	2.82	2.82	33.17	8.51
Bihar	5078.31	0.00	0.00	0.00	28.26	28.26	5106.57	0.55
Jharkhand	2890.98	0.00	0.00	10.67	1.47	12.14	2903.12	0.42
Orissa	5684.64	0.00	0.00	368.73	94.78	463.51	6148.15	7.54
Sikkim	0.00	0.00	0.00	545.25	1.03	546.28	546.28	100.00
West Bengal	8155.11	0.00	0.00	178.20	156.26	334.46	8489.57	3.94
Eastern Region Total	21839.39	0.00	0.00	1102.85	284.63	1387.48	23226.87	5.97
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	219.89	0.27	220.16	220.16	100.00
Assam	447.95	300.88	0.00	10.89	30.16	41.05	789.88	5.20
Manipur	0.00	0.00	0.00	7.05	1.28	8.33	8.33	100.00
Meghalaya	0.00	0.00	0.00	40.42	4.73	45.15	45.15	100.00
Mizoram	0.00	0.00	0.00	10.43	8.26	18.69	18.69	100.00
Nagaland	0.00	0.00	0.00	1.41	3.24	4.65	4.65	100.00
Tripura	0.00	607.03	0.00	0.00	0.54	0.54	607.57	0.09
North Eastern Region Total	447.95	907.91	0.00	290.09	48.48	338.57	1694.43	19.98
All India Total	109135.30	2430.75	3512.45	8728.97	16675.14	25404.11	140482.61	20.58

Table 6:- Renewable Energy as % of Total Electricity Generated

Renewable Energy (State Wise) Generation(MU) for the Month of May 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	2.20	2.20	2.20	100.00
Delhi	0.00	138.50	0.00	0.00	60.95	60.95	199.45	30.56
Haryana	2292.75	0.00	0.00	0.00	118.52	118.52	2411.27	4.92
HP	0.00	0.00	0.00	1832.75	186.55	2019.30	2019.30	100.00
J & K	0.00	0.00	0.00	1498.42	39.96	1538.38	1538.38	100.00
Ladakh	0.00	0.00	0.00	15.61	0.00	15.61	15.61	100.00
Punjab	2822.28	0.00	0.00	217.46	454.83	672.29	3494.57	19.24
Rajasthan	4582.13	108.76	614.27	3.13	4103.09	4106.22	9411.38	43.63
Uttar Pradesh	12420.11	43.43	301.50	25.03	775.24	800.27	13565.31	5.90
Uttarakhand	0.00	78.70	0.00	699.75	77.81	777.56	856.26	90.81
Northern Region Total	22117.27	369.39	915.77	4292.15	5819.15	10111.30	33513.73	30.17
WESTERN REGION								
Chhattisgarh	13945.02	0.00	0.00	22.33	199.38	221.71	14166.73	1.57
Gujarat	5288.43	731.33	316.70	154.53	2645.44	2799.97	9136.43	30.65
Madhya Pradesh	12092.72	0.00	0.00	154.77	819.31	974.08	13066.80	7.45
Maharashtra	11643.68	232.87	390.37	648.43	1185.27	1833.70	14100.62	13.00
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	2.43	2.43	2.43	100.00
Goa	0.00	0.00	0.00	0.00	1.94	1.94	1.94	100.00
Western Region Total	42969.85	964.20	707.07	980.06	4853.77	5833.83	50474.95	11.56
SOUTHERN REGION								
Andhra Pradesh	6093.57	0.00	0.00	116.95	1214.39	1331.34	7424.91	17.93
Telangana	4797.88	0.00	0.00	51.92	679.37	731.29	5529.17	13.23
Karnataka	3863.66	0.00	655.33	1083.31	2179.12	3262.43	7781.42	41.93

Kerala	0.00	0.00	0.00	565.69	150.83	716.52	716.52	100.00
Tamil Nadu	6999.95	168.77	1234.28	245.95	1444.37	1690.32	10093.32	16.75
Lakshadweep	5.78	0.00	0.00	0.00	0.01	0.01	5.79	0.13
Puducherry	0.00	20.48	0.00	0.00	1.02	1.02	21.50	4.74
Southern Region Total	21760.84	189.25	1889.61	2063.82	5669.11	7732.93	31572.63	24.49
EASTERN REGION								
Andaman Nicobar	30.35	0.00	0.00	0.00	2.82	2.82	33.17	8.51
Bihar	5078.31	0.00	0.00	0.00	28.26	28.26	5106.57	0.55
Jharkhand	2890.98	0.00	0.00	10.67	1.47	12.14	2903.12	0.42
Orissa	5684.64	0.00	0.00	368.73	94.78	463.51	6148.15	7.54
Sikkim	0.00	0.00	0.00	545.25	1.03	546.28	546.28	100.00
West Bengal	8155.11	0.00	0.00	178.20	156.26	334.46	8489.57	3.94
Eastern Region Total	21839.39	0.00	0.00	1102.85	284.63	1387.48	23226.87	5.97
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	219.89	0.27	220.16	220.16	100.00
Assam	447.95	300.88	0.00	10.89	30.16	41.05	789.88	5.20
Manipur	0.00	0.00	0.00	7.05	1.28	8.33	8.33	100.00
Meghalaya	0.00	0.00	0.00	40.42	4.73	45.15	45.15	100.00
Mizoram	0.00	0.00	0.00	10.43	8.26	18.69	18.69	100.00
Nagaland	0.00	0.00	0.00	1.41	3.24	4.65	4.65	100.00
Tripura	0.00	607.03	0.00	0.00	0.54	0.54	607.57	0.09
North Eastern Region Total	447.95	907.91	0.00	290.09	48.48	338.57	1694.43	19.98
All India Total	109135.30	2430.75	3512.45	8728.97	16675.14	25404.11	140482.61	18.08

RE generation(MUs) data (source wise) for the month of April 2023 and April 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	Apr'23	Apr'22	Apr'23	Apr'22	Apr'23	Apr'22	Apr'23	Apr'22	Apr'23	Apr'22	Apr'23	Apr'22	Apr'23	Apr'22
NORTHERN REGION														
Chandigarh	0.00	0.00	2.20	2.81	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	20.04	0.00	0.00	0.00	0.00	0.00	0.00	43.74	21.81	0.00	0.00
Haryana	0.00	0.00	57.14	63.04	24.27	29.70	25.62	20.96	6.36	22.16	5.13	4.55	0.00	0.00
Himachal Pradesh	0.00	0.00	5.11	6.57	0.00	0.00	0.00	0.00	181.44	199.55	0.00	0.00	1832.75	2447.17
J & K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.96	43.23	0.00	0.00	1498.42	1697.50
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	15.61	18.24
Punjab	0.00	0.00	338.65	165.42	53.04	51.11	26.90	31.43	36.25	59.17	0.00	0.00	217.46	229.98
Rajasthan	676.56	467.46	3395.19	2589.56	31.34	32.96	0.00	0.00	0.00	0.10	0.00	0.00	3.13	10.82
Uttar Pradesh	0.00	0.00	376.83	332.97	5.67	8.15	378.65	397.29	7.40	7.89	6.70	7.90	25.03	68.84
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	699.75	1046.57
Northern Region	676.56	467.46	4219.97	3208.06	114.32	121.92	451.88	470.39	300.85	361.55	55.57	34.26	4292.15	5519.12
WESTERN REGION														
Chhattisgarh	0.00	0.00	72.10	43.50	119.40	123.11	1.92	0.60	5.97	6.86	0.00	0.00	22.33	38.48
Gujarat	1478.24	1644.49	1147.51	841.65	0.00	0.00	0.00	2.07	19.68	15.12	0.00	2.24	154.53	174.04
Madhya Pradesh	442.25	481.72	327.15	422.59	8.98	0.17	9.93	16.65	28.20	12.38	2.80	3.33	154.77	383.08
Maharashtra	387.52	387.44	502.49	317.19	25.93	28.97	199.38	542.69	69.94	76.89	0.01	0.07	648.43	839.75
Dadra and Nagar Haveli and Daman and Diu	0.00	0.00	1.64	6.71	0.80	1.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Goa	0.00	0.00	1.51	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.42	0.00	0.00
Western Region	2308.01	2513.64	2052.40	1632.07	155.11	153.86	211.23	562.01	123.79	111.25	3.23	6.07	980.06	1435.35
SOUTHERN REGION														

RE generation(MUs) data (source wise) for the month of April 2023 and April 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	Apr'23	Apr'22	Apr'23	Apr'22	Apr'23	Apr'22	Apr'23	Apr'22	Apr'23	Apr'22	Apr'23	Apr'22	Apr'23	Apr'22
Andhra Pradesh	365.83	361.40	800.19	786.31	4.20	7.74	5.79	29.77	12.99	17.10	25.39	19.77	116.95	173.50
Telangana	19.11	15.97	634.38	601.94	0.04	6.54	11.43	6.69	2.82	3.57	11.60	14.90	51.92	69.90
Karnataka	496.73	403.01	1405.50	1229.97	5.38	11.50	224.43	292.34	47.09	78.62	0.00	0.00	1083.31	1391.34
Kerala	4.15	4.36	103.14	56.10	0.00	0.00	7.12	2.43	36.42	62.09	0.00	0.00	565.69	775.55
Tamil Nadu	378.80	360.39	970.18	701.01	10.56	8.93	76.55	77.41	8.28	8.02	0.00	0.00	245.95	241.15
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	1264.63	1145.12	3914.41	3376.37	20.18	34.70	325.32	408.64	107.59	169.40	36.99	34.67	2063.82	2651.44
EASTERN REGION														
Andaman Nicobar	0.00	0.00	2.81	2.69	0.00	0.00	0.00	0.00	0.01	0.73	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	16.37	15.85	0.00	0.00	11.89	0.00	0.00	0.00	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	10.67	7.17
Orissa	0.00	0.00	68.95	61.61	6.00	7.18	0.00	0.00	19.82	15.84	0.00	0.00	368.73	484.40
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	545.25	872.89
West Bengal	0.00	0.00	13.13	10.35	0.00	0.00	0.00	0.00	14.42	12.39	128.71	140.57	178.20	240.05
Eastern Region	0.00	0.00	102.74	92.37	6.00	7.18	11.89	0.00	35.28	29.98	128.71	140.57	1102.85	1604.51
NORTH-EASTERN REGION														
Arunachal Pradesh	0.00	0.00	0.19	4.19	0.00	0.00	0.00	0.00	0.08	0.42	0.00	0.00	219.89	231.56

RE generation(MUs) data (source wise) for the month of April 2023 and April 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	Apr'23	Apr'22	Apr'23	Apr'22	Apr'23	Apr'22	Apr'23	Apr'22	Apr'23	Apr'22	Apr'23	Apr'22	Apr'23	Apr'22
Assam	0.00	0.00	27.51	9.28	0.00	0.00	0.00	0.00	2.65	2.41	0.00	0.00	10.89	12.54
Manipur	0.00	0.00	0.67	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00	7.05	11.52
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.73	4.26	0.00	0.00	40.42	69.43
Mizoram	0.00	0.00	0.27	0.33	0.00	0.00	0.00	0.00	7.99	0.00	0.00	0.00	10.43	3.45
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.24	3.13	0.00	0.00	1.41	2.04
Tripura	0.00	0.00	0.54	0.59	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	29.17	15.04	0.00	0.00	0.00	0.00	18.69	10.22	0.62	0.00	290.09	330.54
All India Total	4249.20	4126.22	10318.69	8323.92	295.62	317.66	1000.32	1441.05	586.21	682.40	225.12	215.57	8728.97	11540.96

Table 7: Monthly Source wise RE generation April-2023 and April-2022



This report is published by
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