



सत्यमेव जयते

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

July-2023/जुलाई-2023

नवीकरणीय परियोजना प्रबोधन प्रभाग
Renewable Project Monitoring Division

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Highlights of RE GENERATION

During July 2023

1. RE capacity addition during July 2023 has been 1243.68 MW (Solar - 1048.18 MW and Wind - 167.1 MW, Others (Waste to Energy) - 4.8 MW, Small Hydro - 23.70MW).
2. RE generation during July 2023 has increased by 05.35 % as compared to July 2022.
3. Large Hydro Power generation during July2023 as compared to July 2022 has decreased by 07.91%.
4. Solar Power generation during July2023 as compared to July 2022 has increased by 21.10 % on All India basis in all States/UTs except states of Madhya Pradesh, Andhra Pradesh, and Dadra and Nagar Haveli and Daman and Diu.
5. Wind Power generation during July 2023 as compared to July 2022 has increased by 21.26 % on All India basis in all States/UTs except States of Madhya Pradesh.
6. Biomass Power generation during July 2023 as compared to July 2022 has increased by 15.60 % on All India basis except States of Rajasthan, Maharashtra, Andhra Pradesh, Karnataka and Tamil Nadu .
7. Bagasse power generation during July 2023 as compared to July 2022 has decreased by 47.42 %.
8. Others (Waste to Heat) Power generation has increased by 09.86% during July 2023 as compared to July 2022 except States of Madhya Pradesh, Telangana and West Bengal.
9. Small Hydro Power generation during July 2023 as compared to July 2022 has increased by 0.66 % on All India basis except States of Rajasthan, Punjab, Uttar Pradesh, Karnataka, Kerala, Telangana and Tamil Nadu.

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

Increased by 233.10 % as compared to July 22.

Decreased by 56.71 % as compared to June 23.

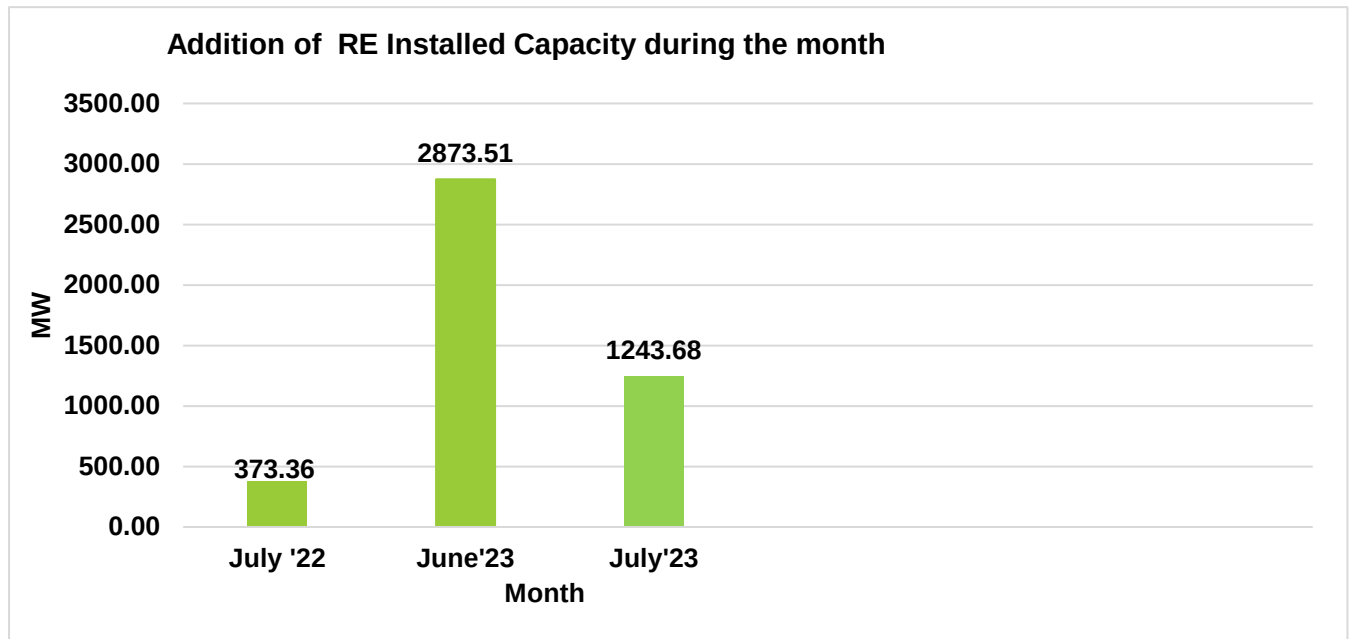


Figure 1: RE capacity added during the Month

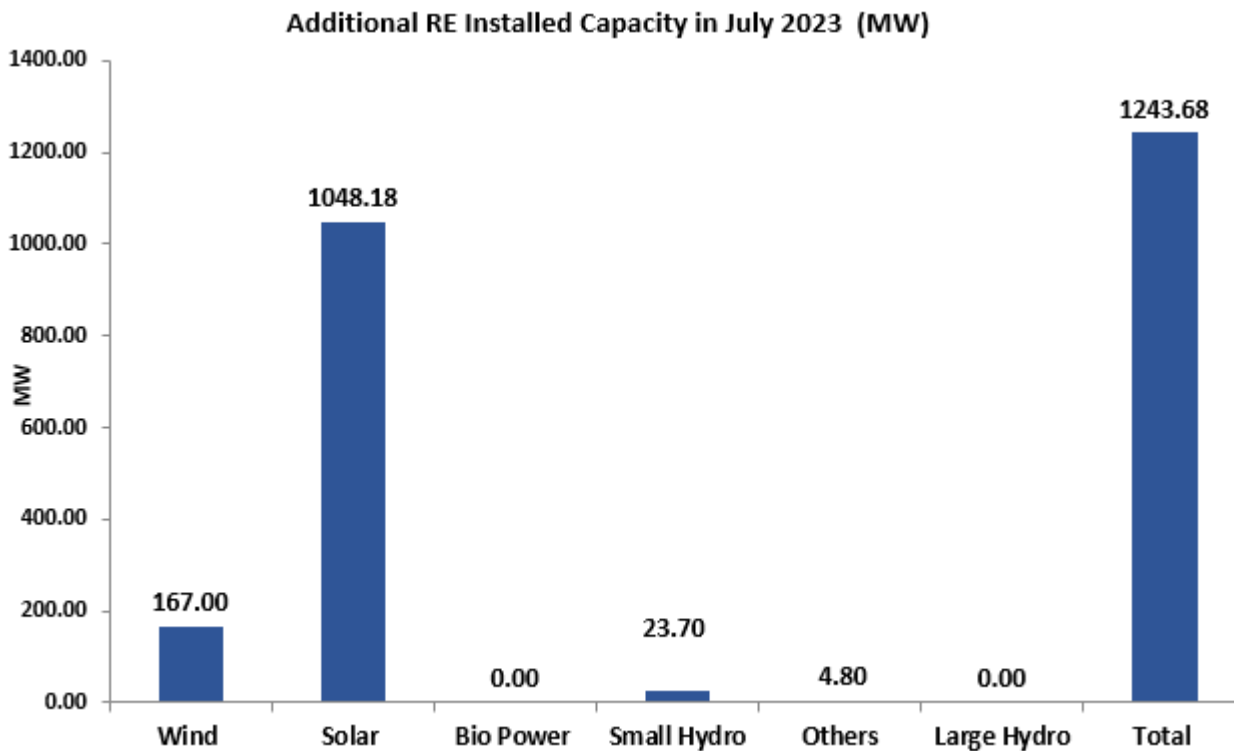


Figure 2: Source wise addition in RE Installed Capacity in July 23

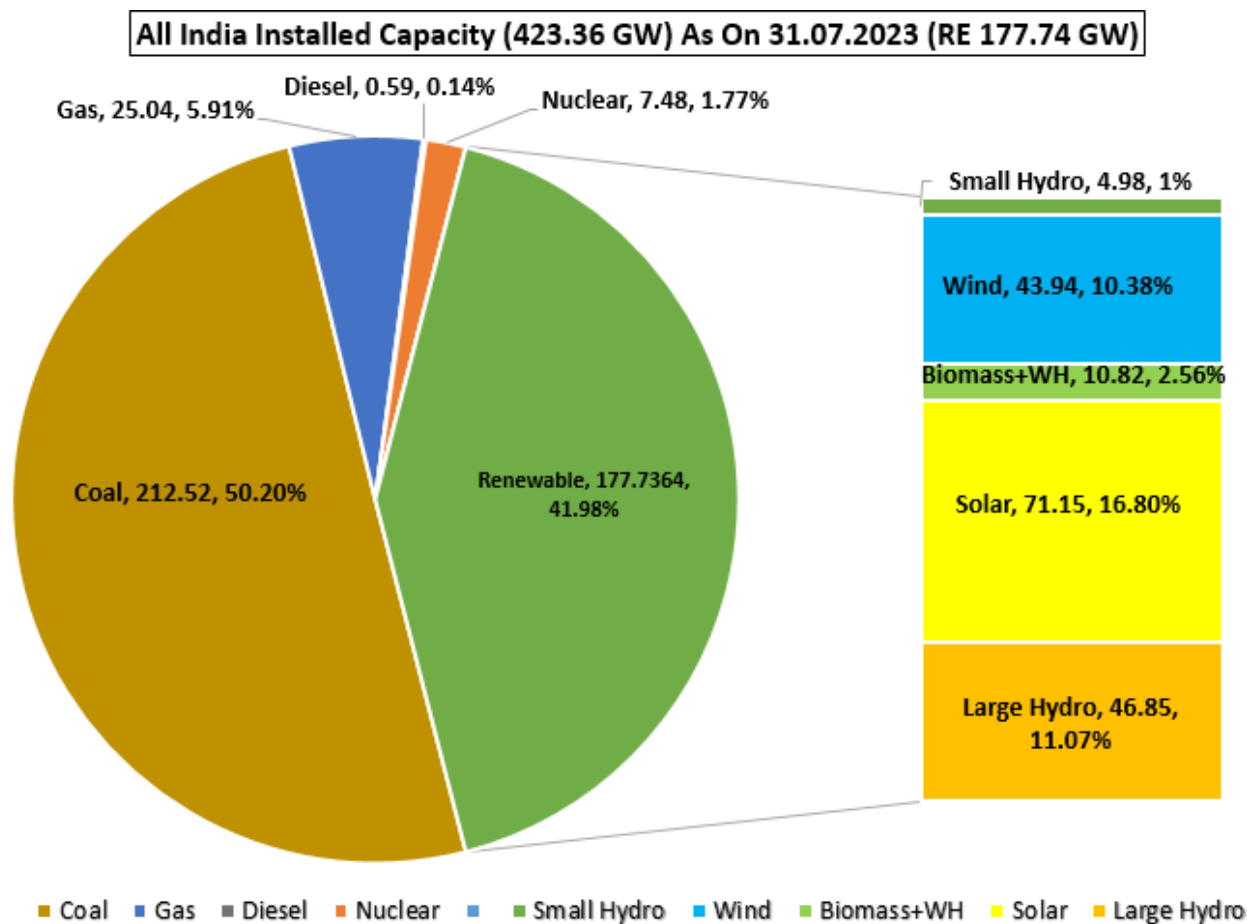


Figure 3: Installed Capacity in India as on 31.07.2023

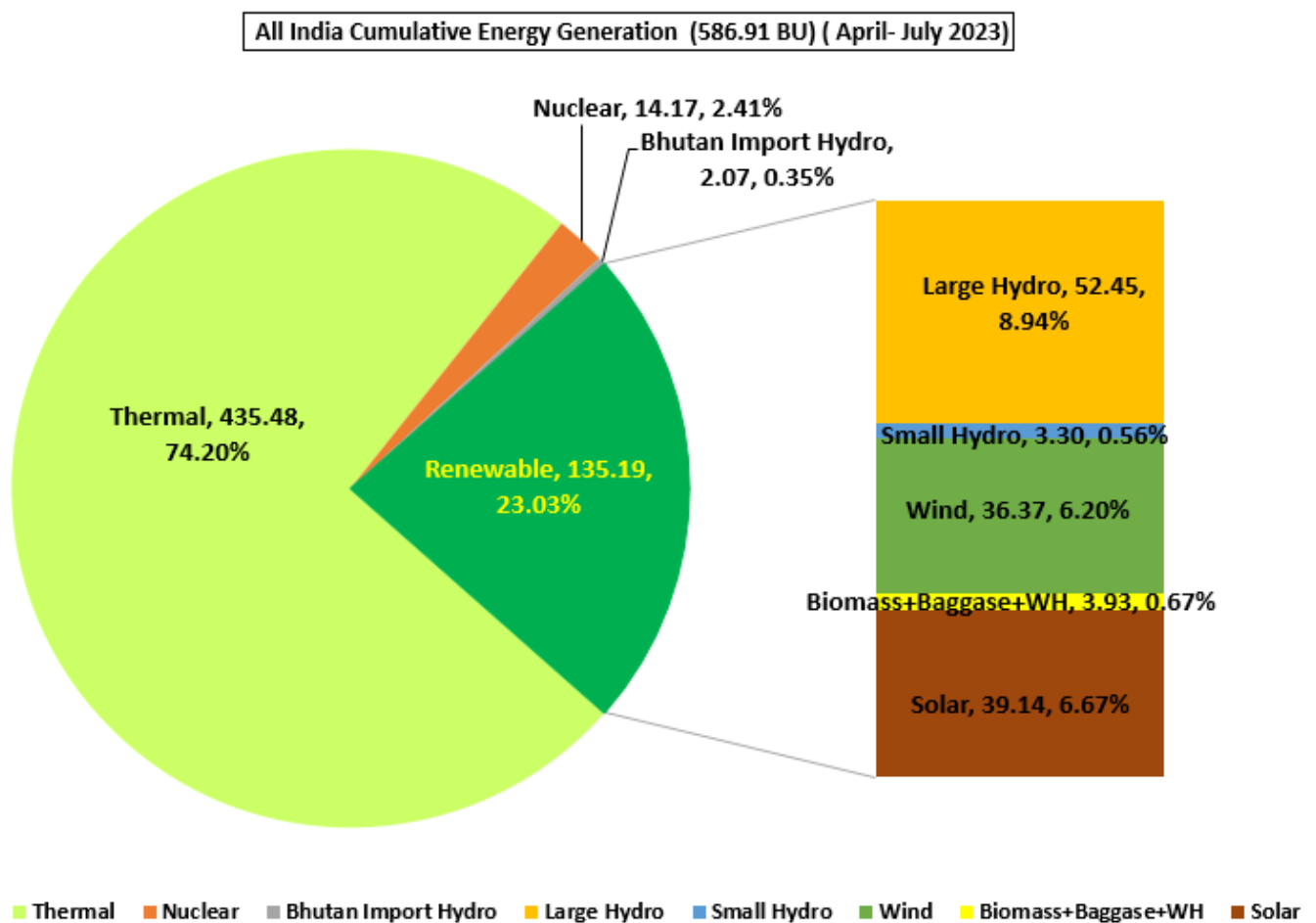


Figure 4: Cumulative Total Energy Generation in India and Share of RE for the year 2023-24

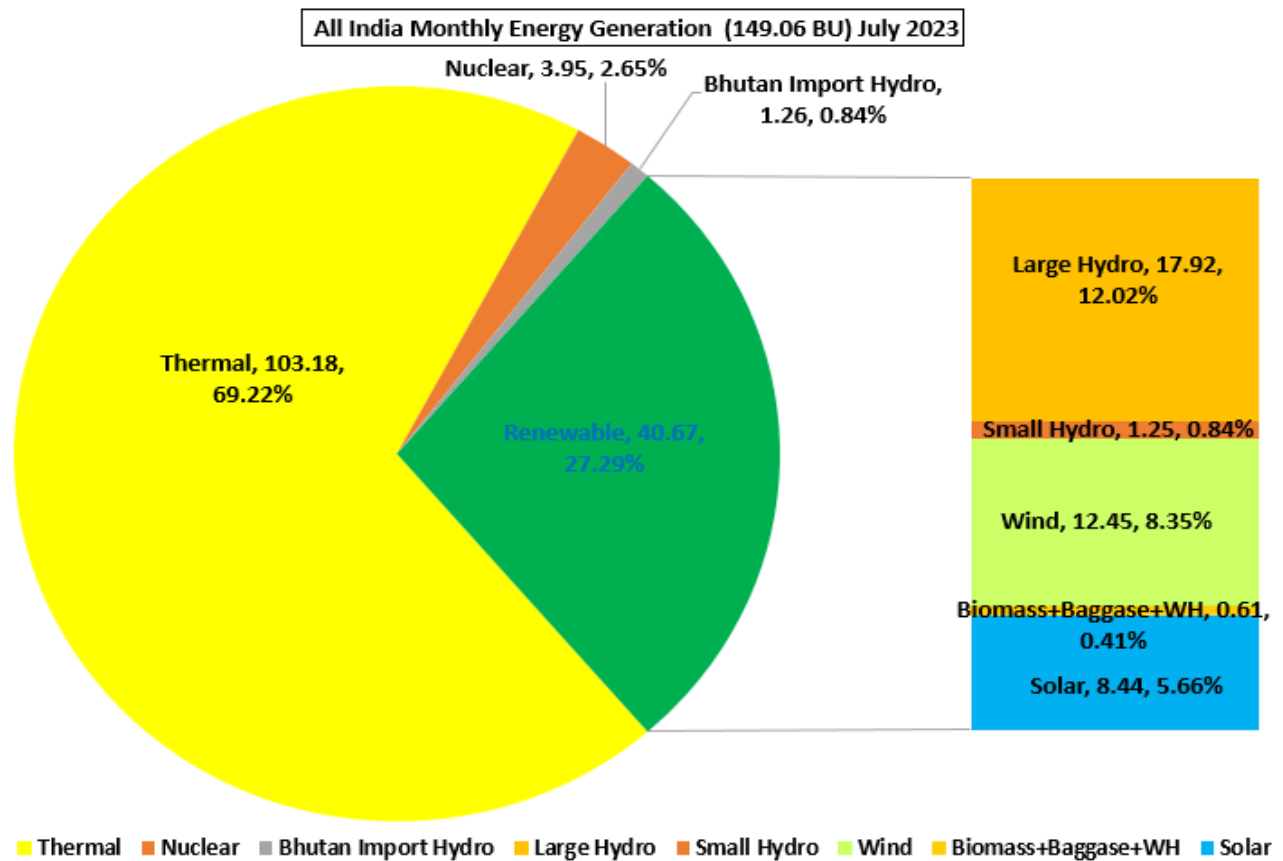


Figure 5: Total Energy Generation in India and Share of RE in the month of July-2023

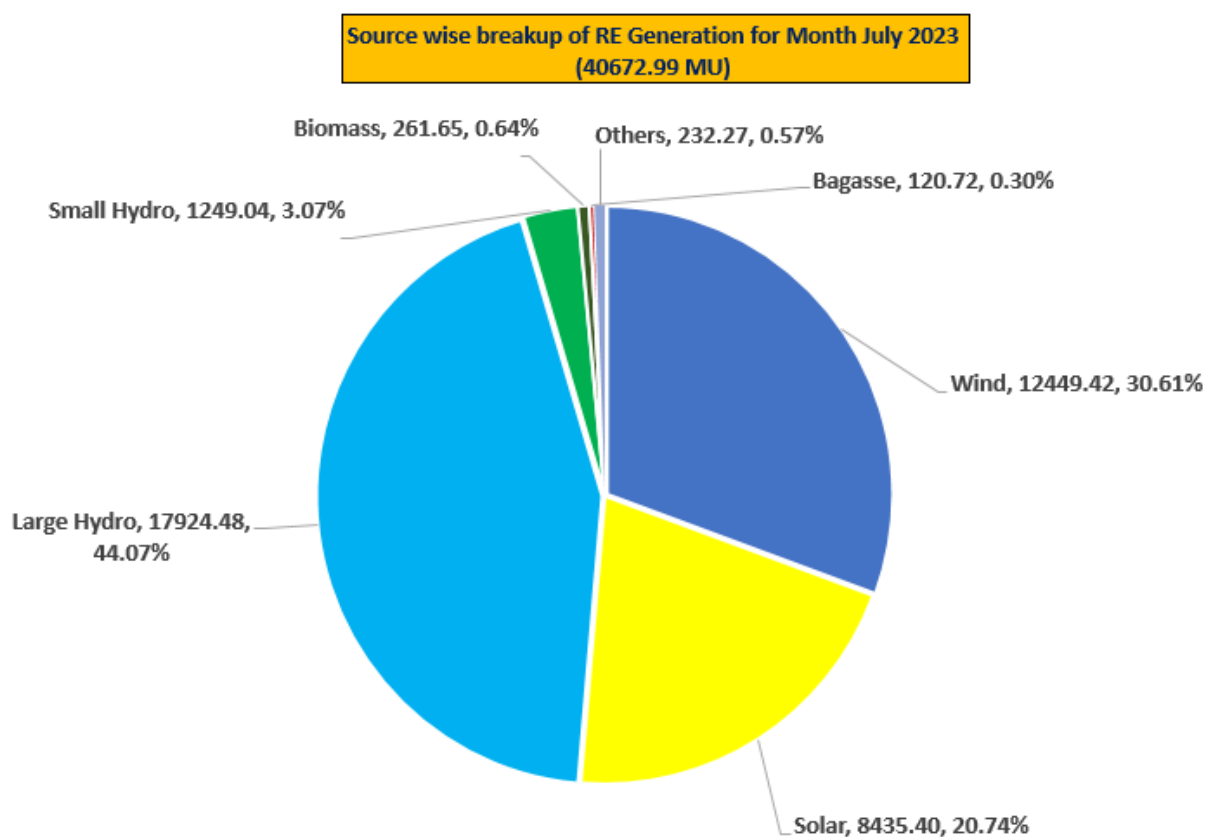


Figure 6: Source wise breakup of RE Generation in the month of July-2023

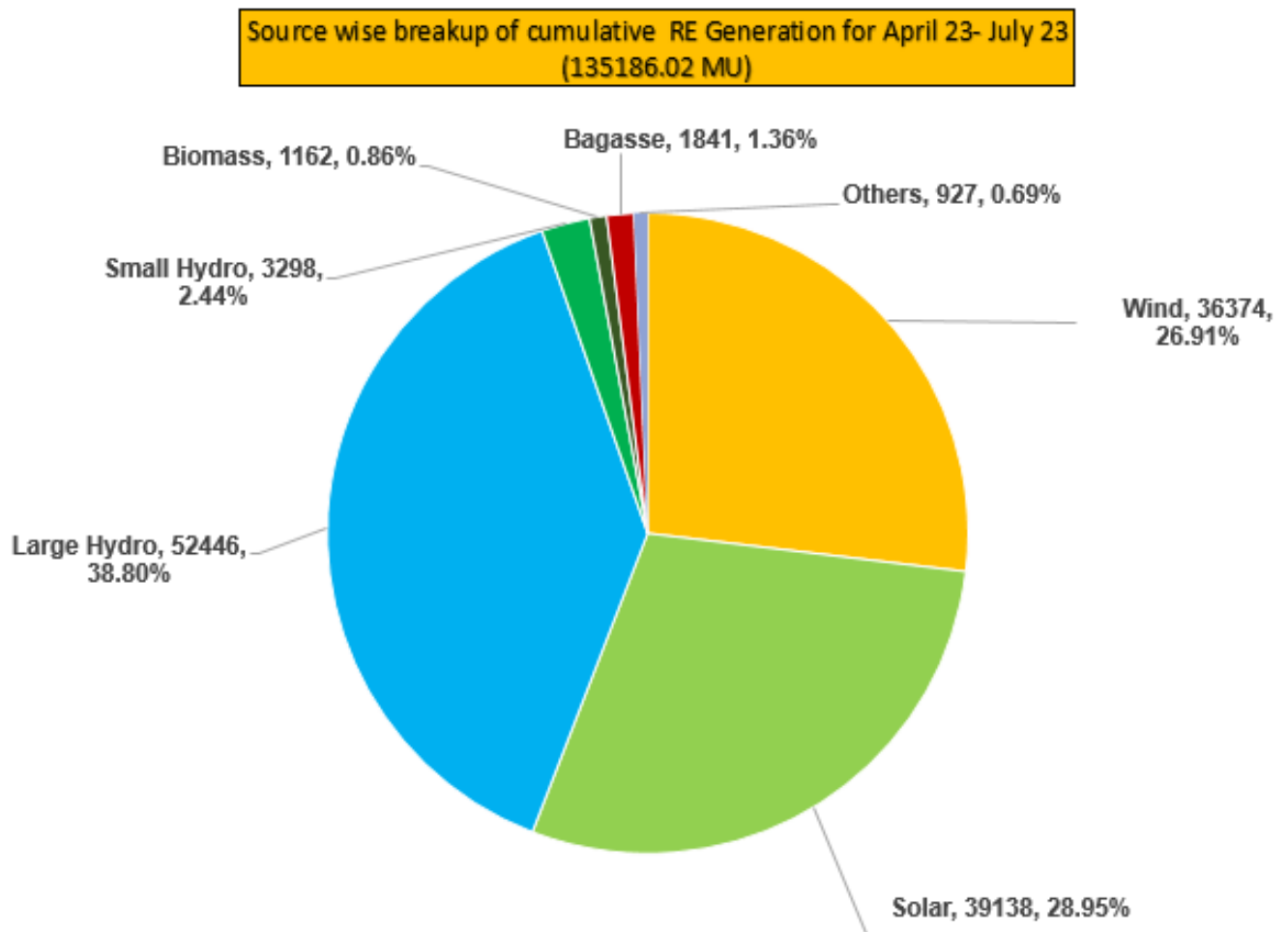


Figure 7: Source wise breakup of Cumulative RE Generation for the year 2023-24.

Summary of Renewable Energy Generation

Increased by 05.35 % as compared to July'22

Increased by 10.11 % as compared to June'23.

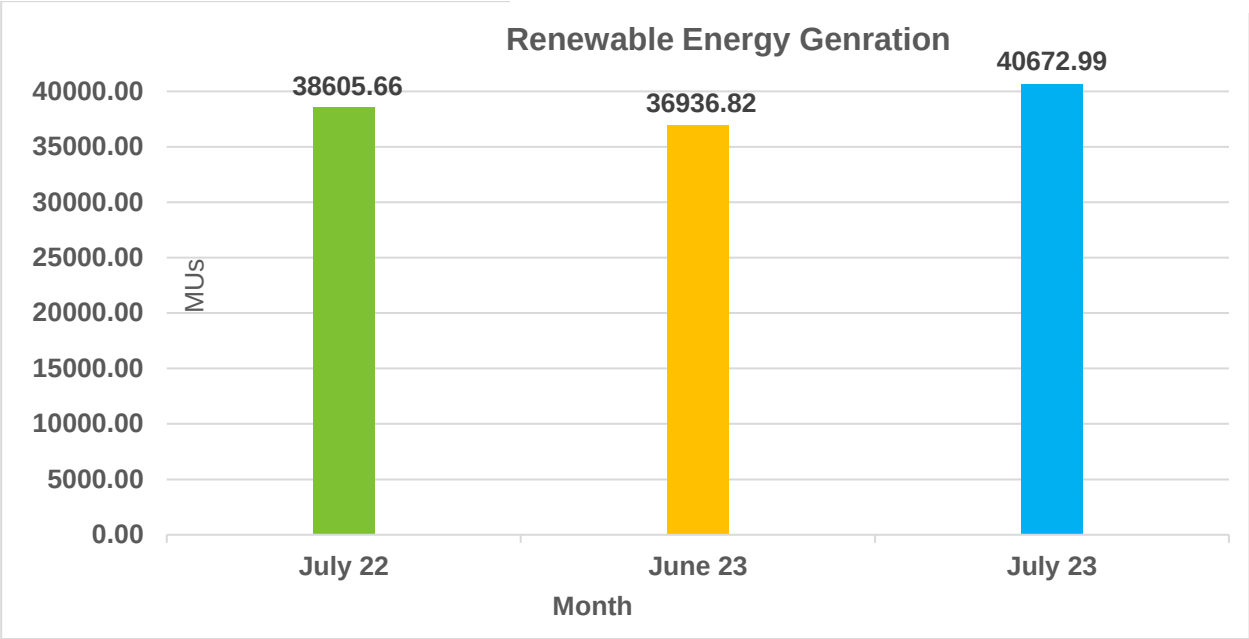


Figure 8: Renewable Energy Generation

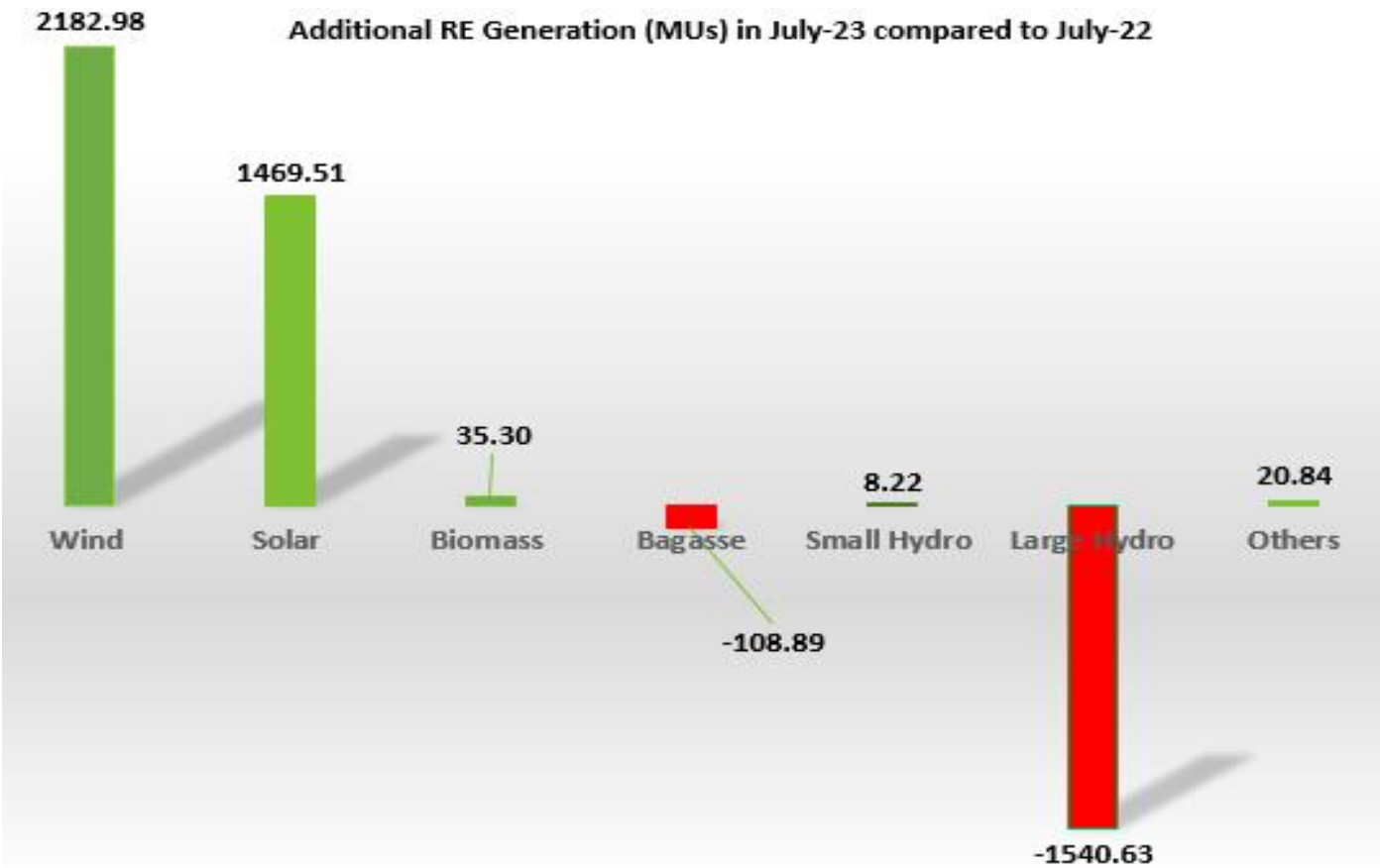


Figure 9: Additional RE Generation in July-23 as compared to July-22

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

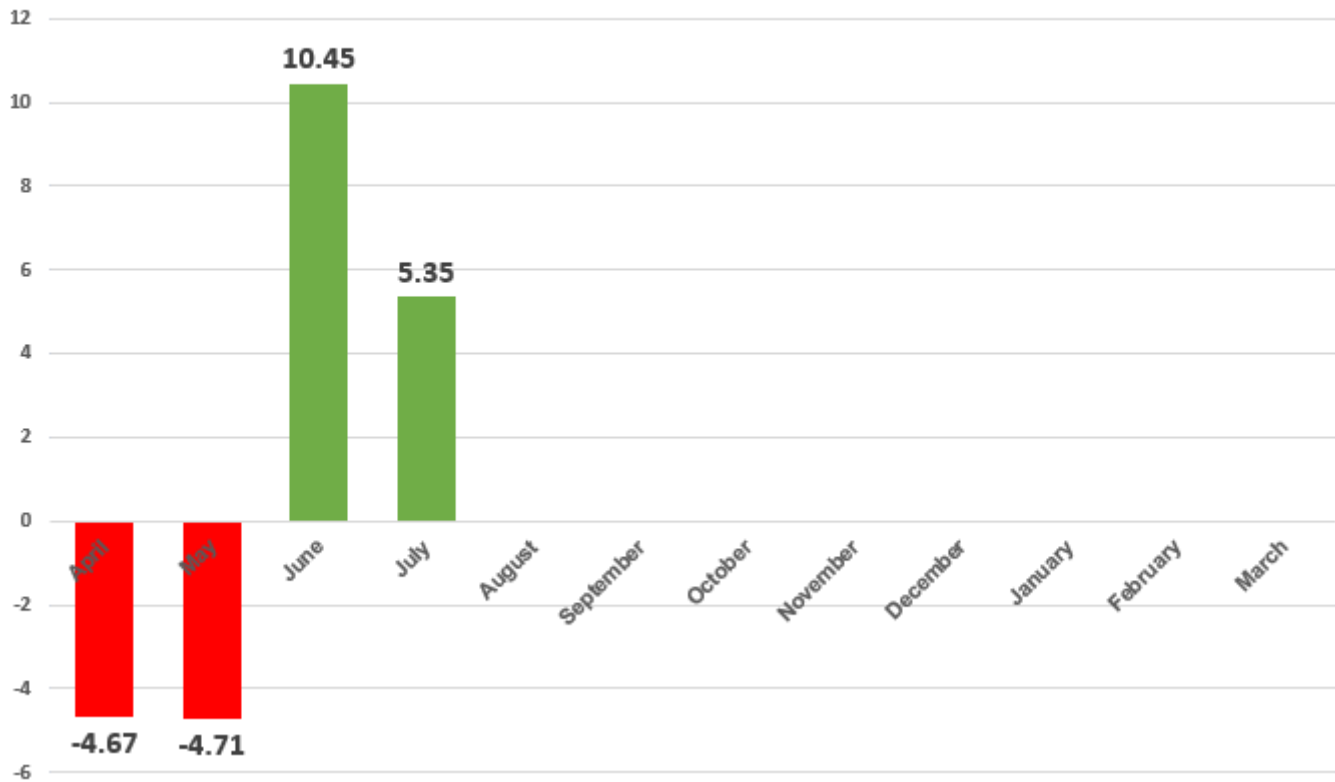


Figure 10: Month Wise % Growth of RE Generation in year 2023-24 w.r.t to previous year Same Month.

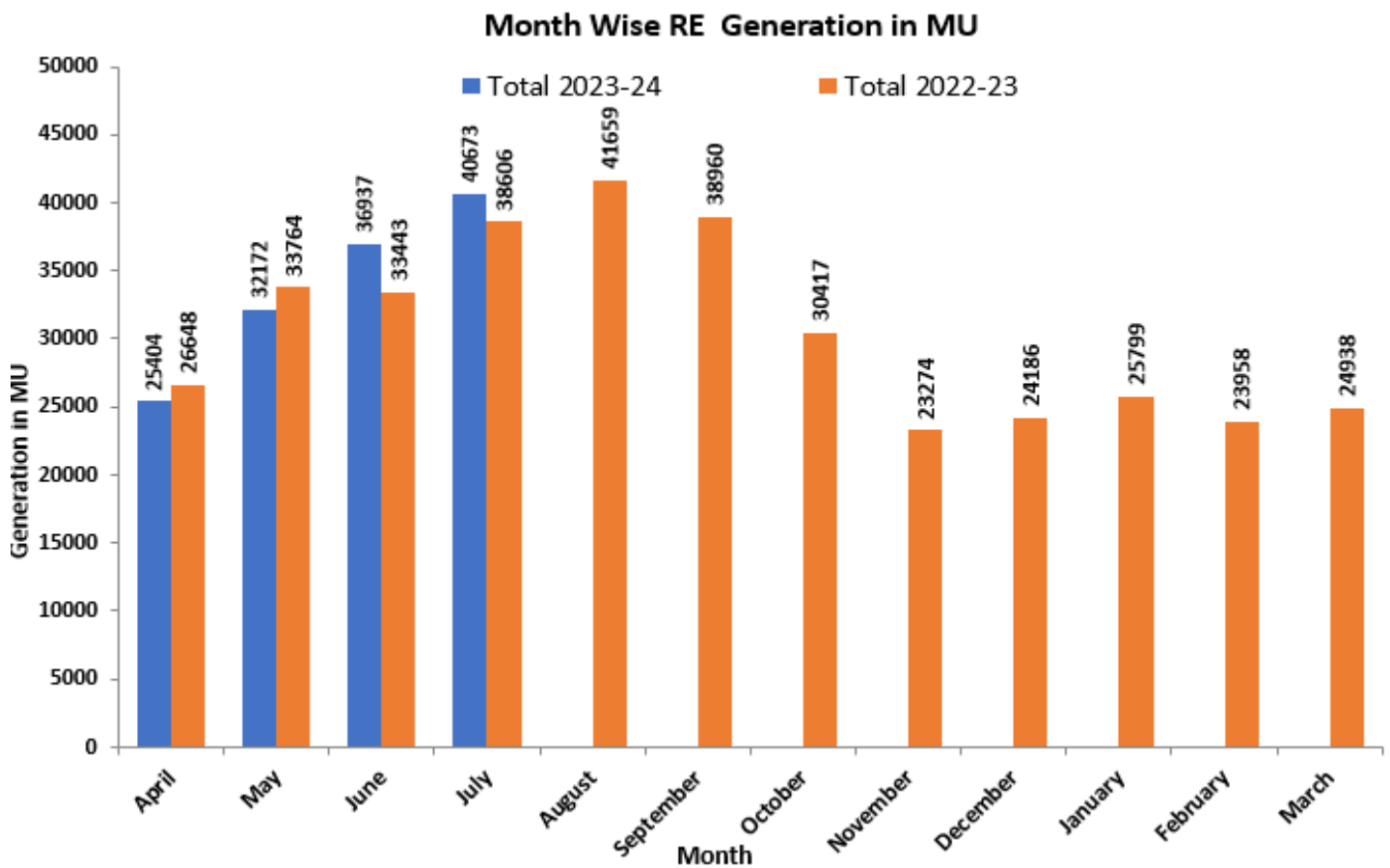


Figure 11: comparison of Month Wise RE Generation in year 2022-23 & in year 2023-24

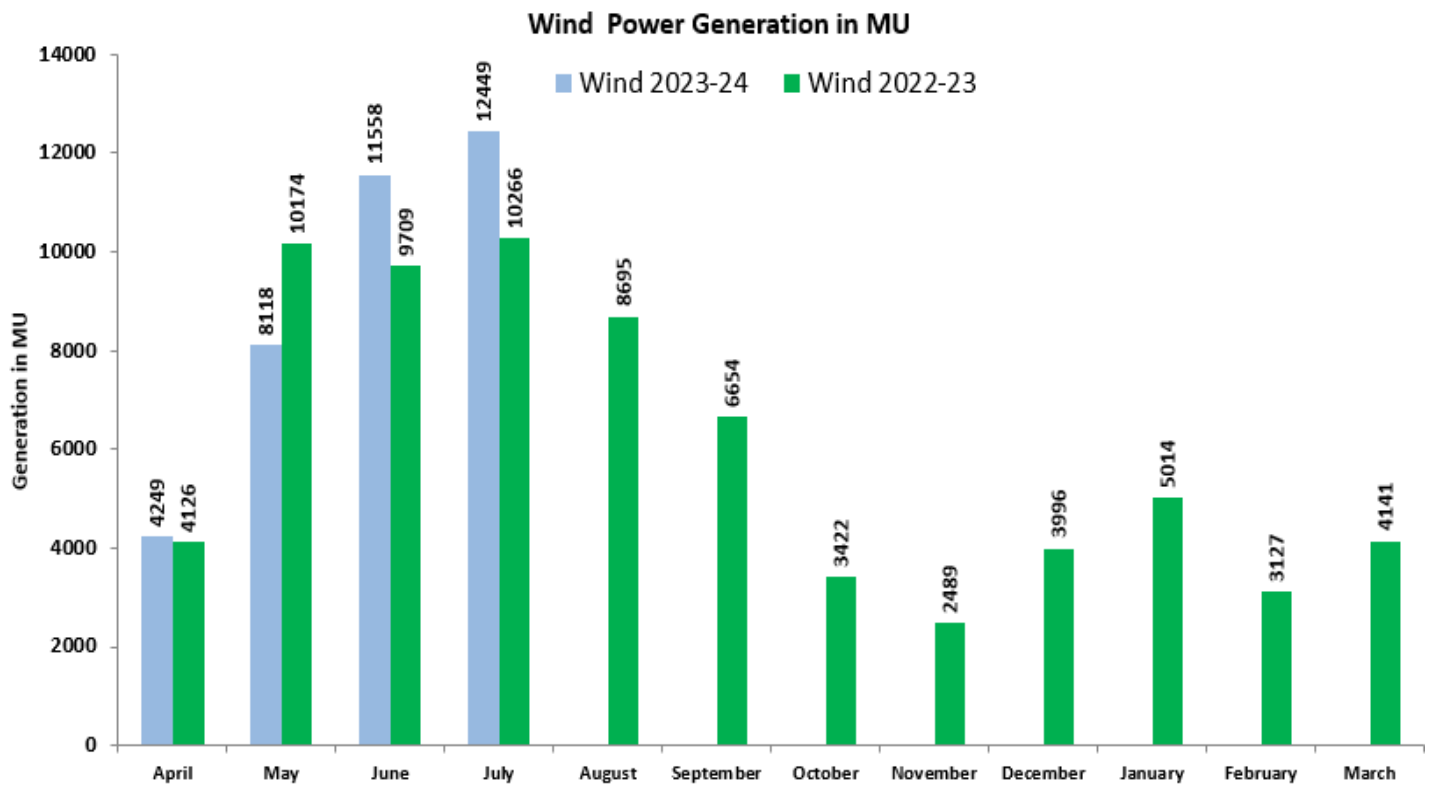


Figure 12: Month Wise Wind Power Generation for the year 2022-23 and year 2023-24.

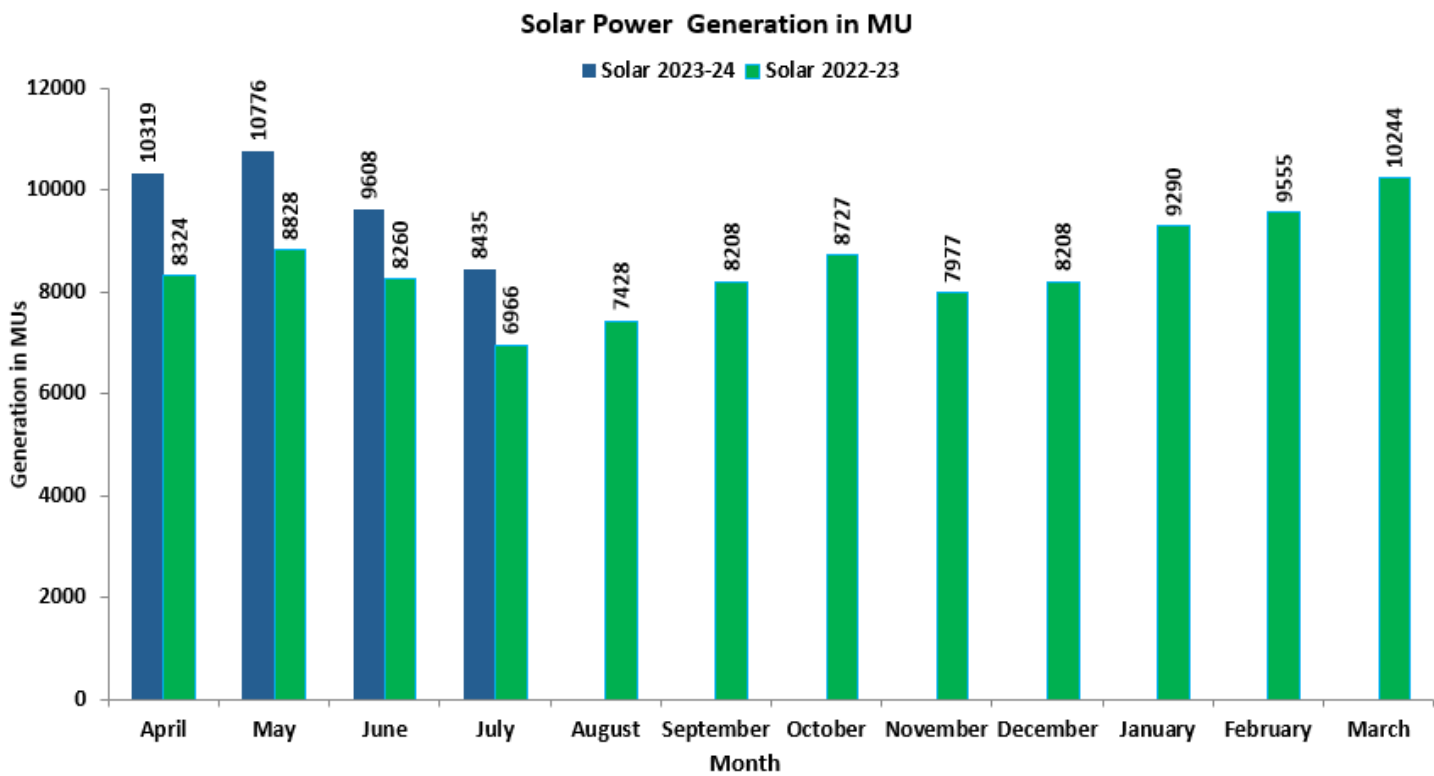


Figure 13: Month Wise Solar Power Generation for the year 2022-23 and year 2023-24.

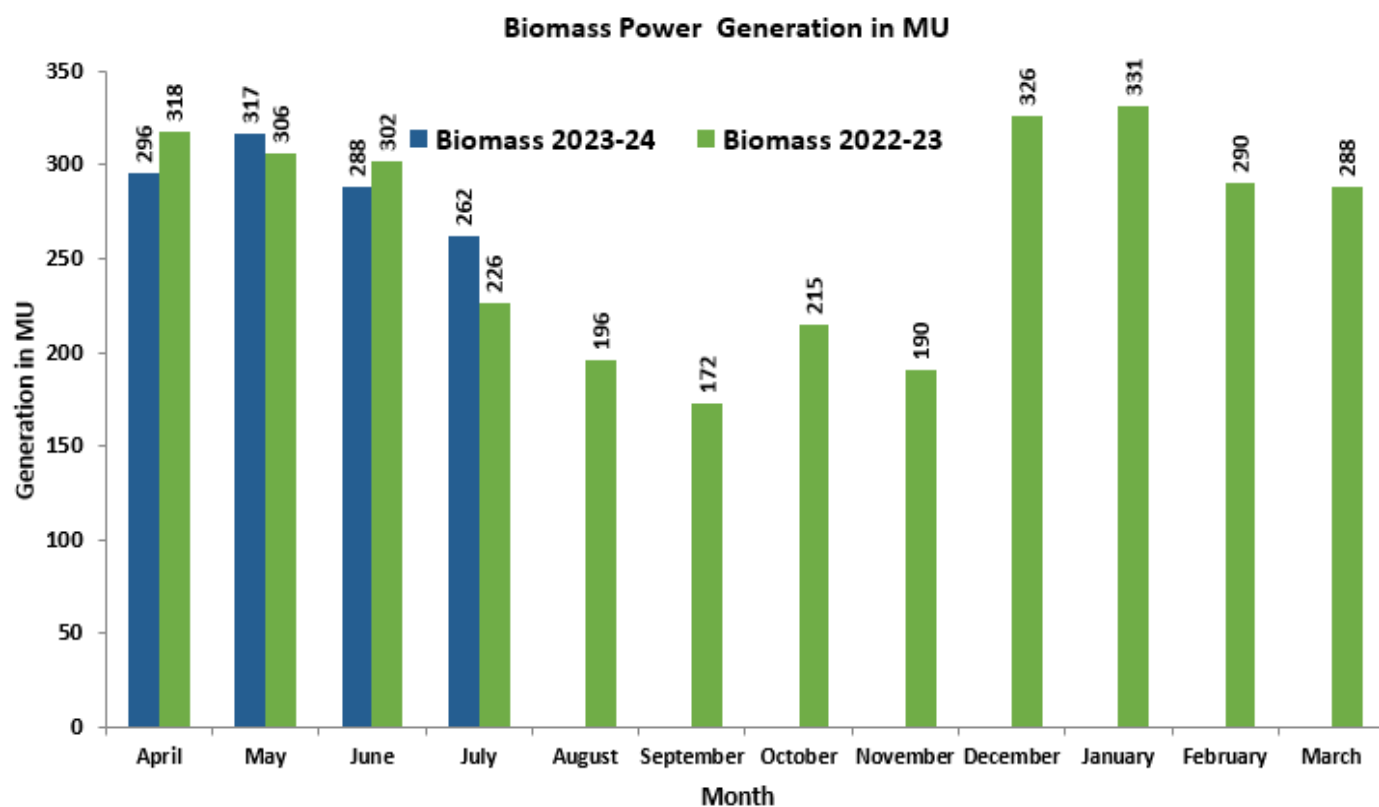


Figure 14: Month Wise Biomass Power Generation for the year 2022-23 and year 2023-24.

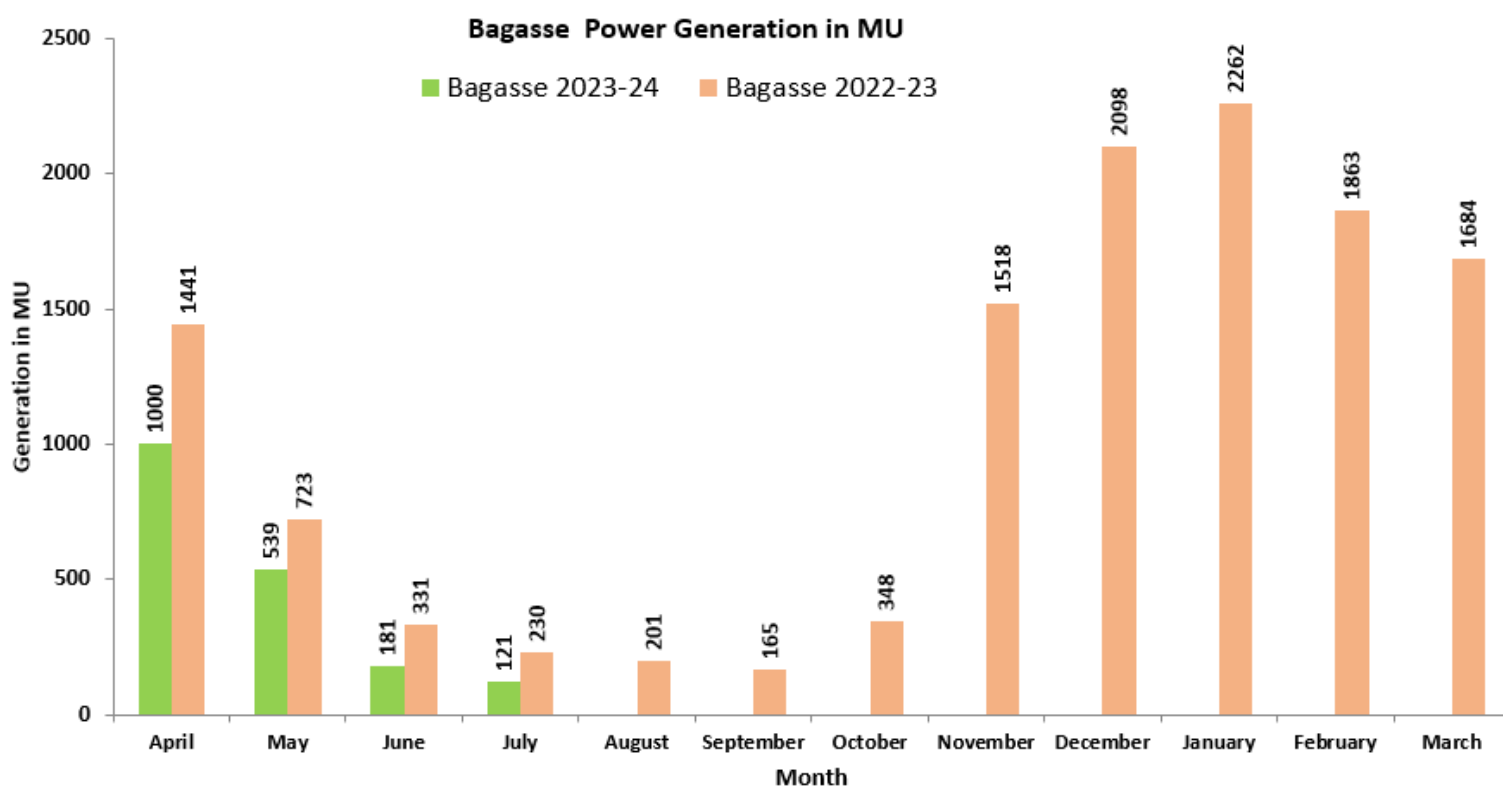


Figure 15: Month Wise Bagasse Power Generation for the year 2022-23 and year 2023-24.

Small Hydro Power Generation in MU

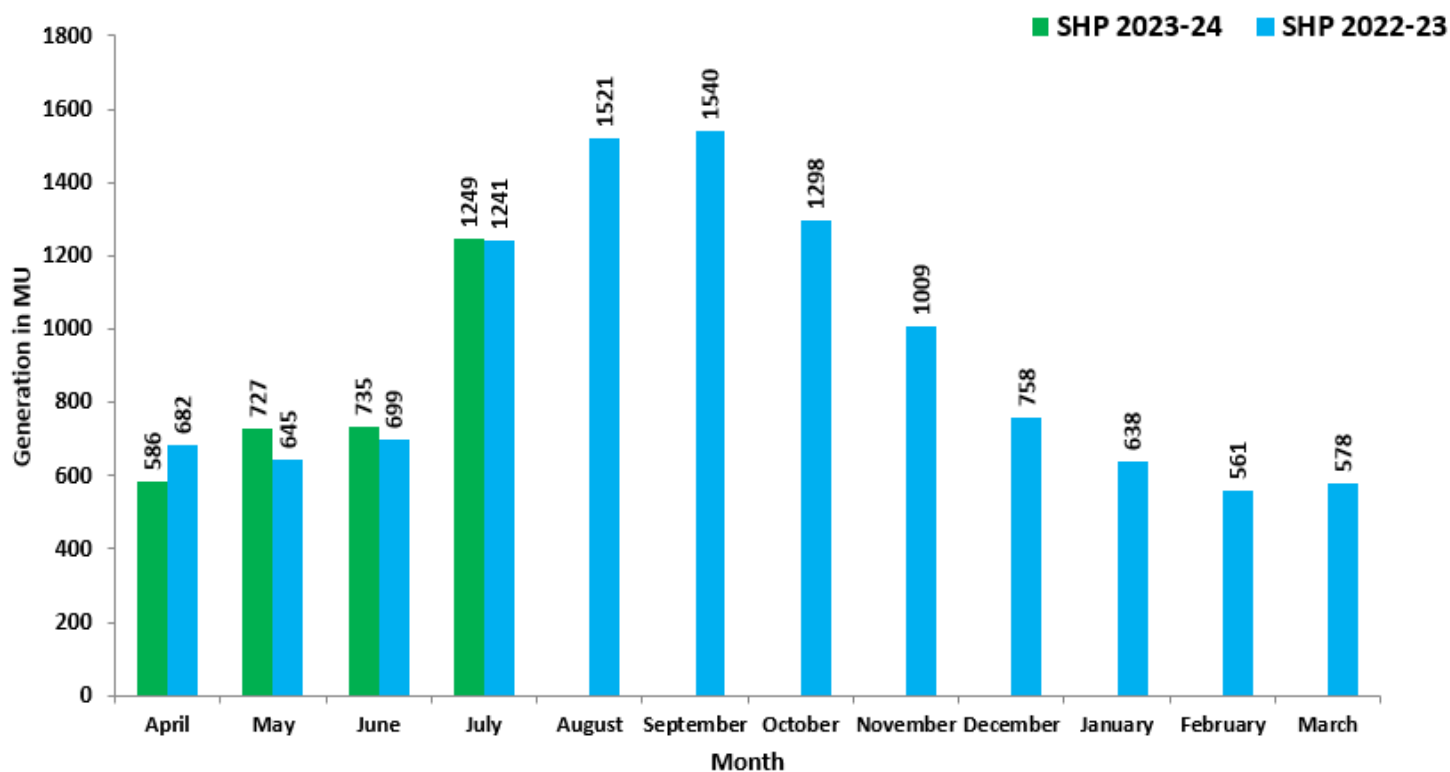


Figure 16: Month Wise Small Hydro Power Generation for the year 2022-23 and year 2023-24.

Large Hydro Power Generation MU

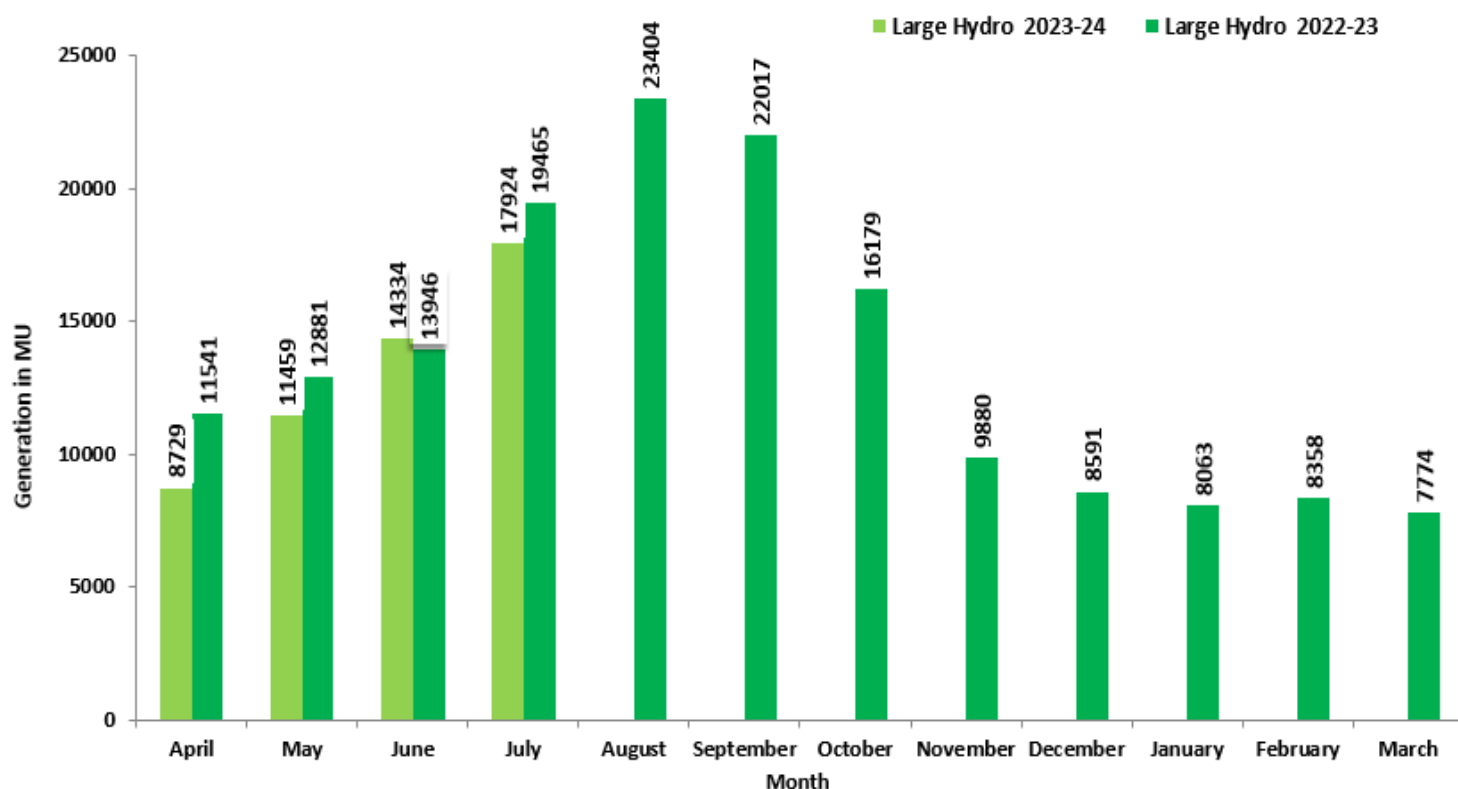


Figure 17: Month Wise Large Hydro Power Generation for the year 2022-23 and year 2023-24.

Power Generation from other RE sources in MU

■ Other 2023-24 ■ Other 2022-23

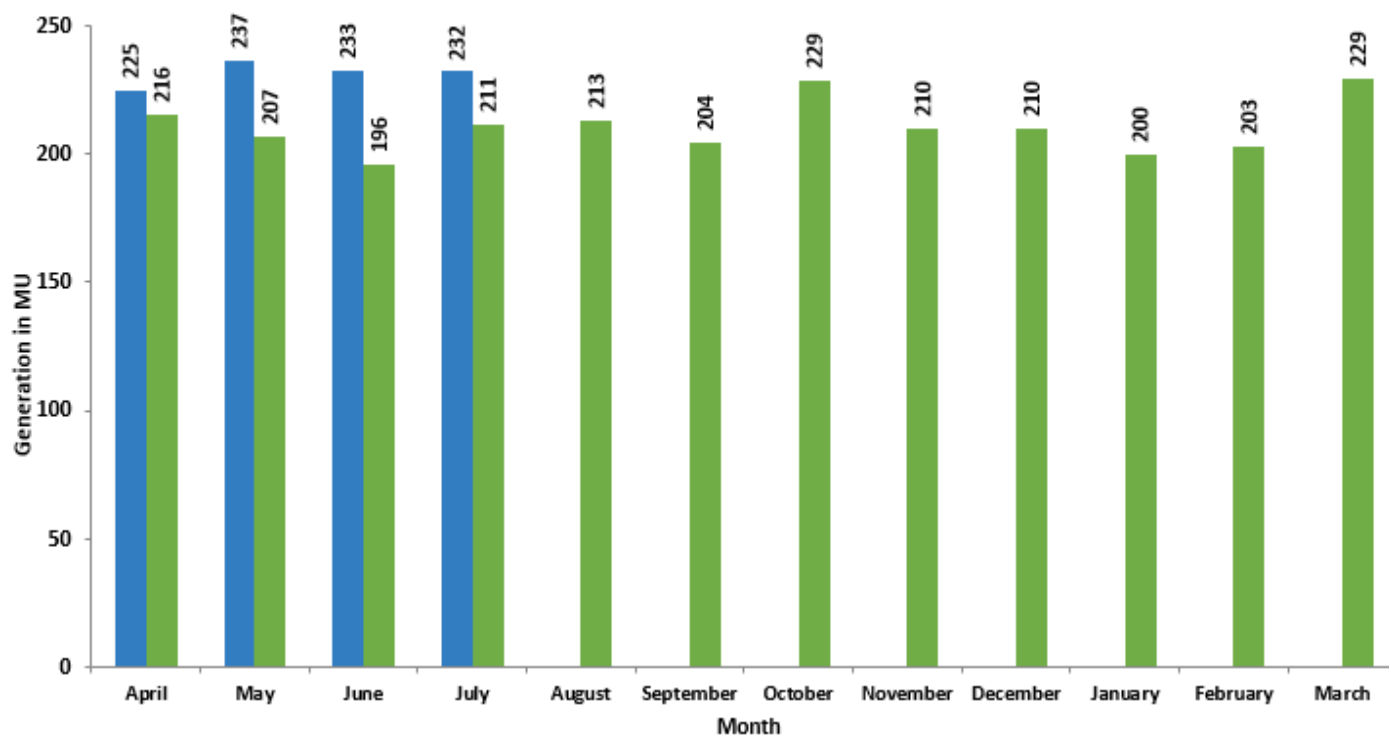


Figure 18: Month Wise Other RE (Waste Heat etc.) Power for the year 2022-23 and year 2023-24.

Year wise Generation of RE in MU

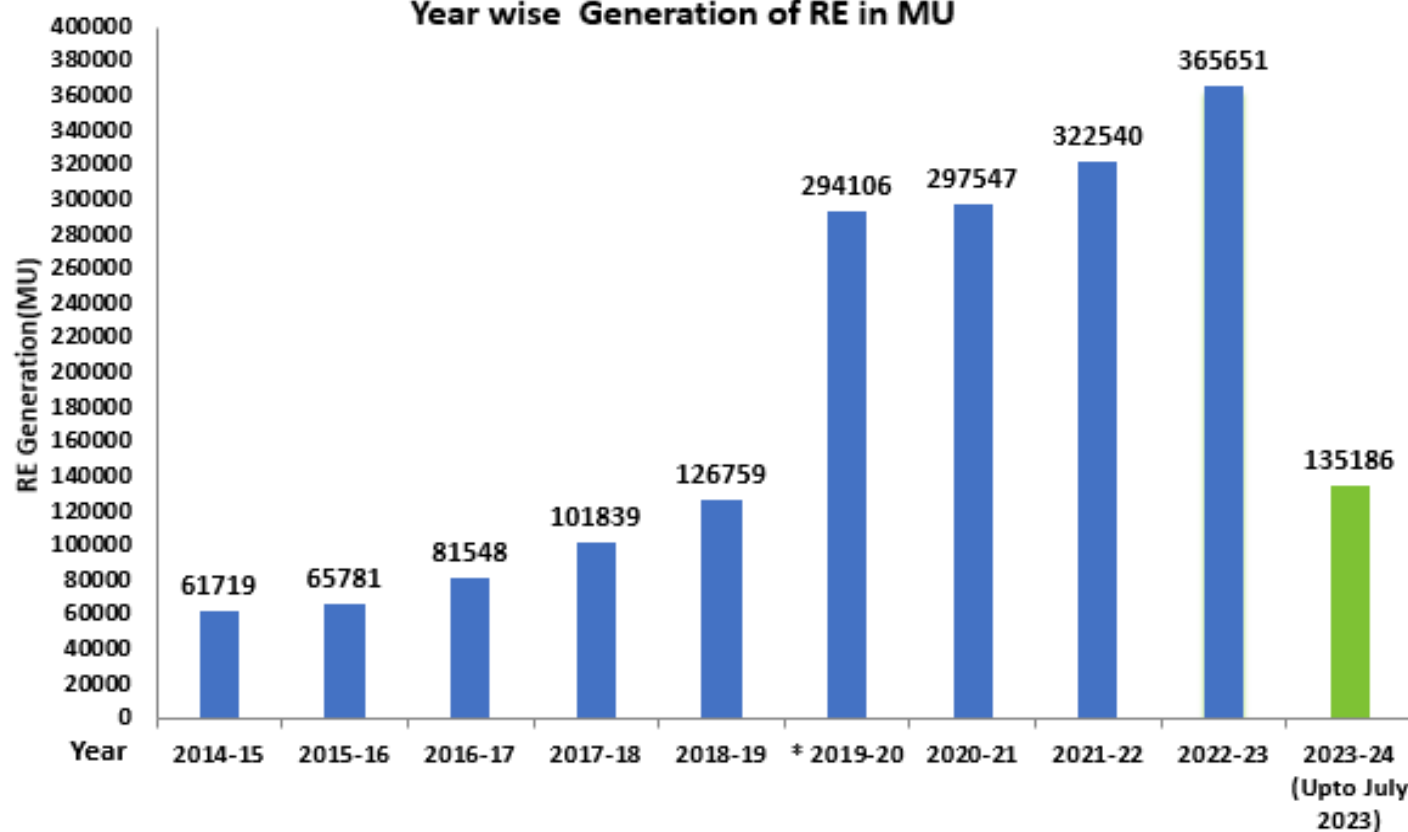


Figure 19: Year Wise RE Generation

(*) 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.

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

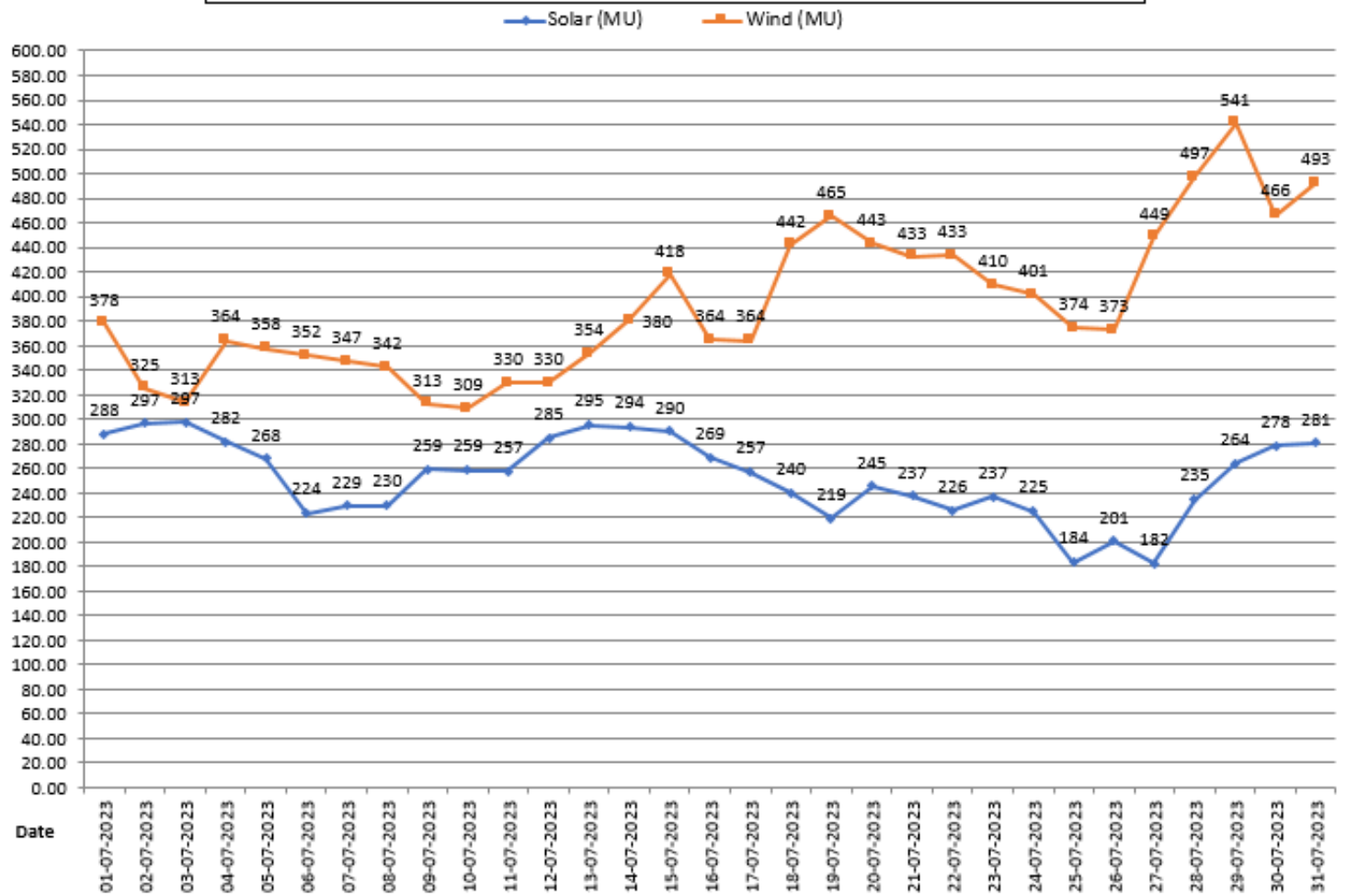


Figure 20: Daily solar and wind power generation trend in the month of July-2023

Summary of All India Total Renewable Energy (Excluding Large Hydro) Generation for the RE Capacity informed to CEA

Table 1 All India Summary of Renewable Energy Generation

Category	Installed Capacity (MW) (as on 31.07.2023)	Monitored Capacity (MW) (as on 31.07.2023) for which generation data is available	RE Generation (MU) July'2023	RE Generation (MU) July'2022	% of same Month Last Year	RE Generation(MU) April'2023-July'2023	RE Generation(MU) April'2022-July'2022	% of same period Last Year
पवन/Wind	43940.08	43002.11	12449.42	10266.44	121.26	36374.01	34275.46	106.12
सौर/Solar	71145.01	63306.95	8435.40	6965.89	121.10	39137.81	32377.29	120.88
बायोमास/Biomass	10248.01	8809.87	261.65	226.35	115.60	1162.39	1152.19	100.89
बगास/Bagasse			120.72	229.61	52.58	1840.95	2725.06	67.56
लघु जल विद्युत्/ Small Hydro	4982.75	4281.02	1249.04	1240.83	100.66	3297.86	3266.81	100.95
बृहत् जल विद्युत्/ Large Hydro(\$)	46850.17	46850.17	17924.48	19465.11	92.09	52446.38	57833.10	90.69
अन्य/Others	570.38	665.10	232.27	211.43	109.86	926.61	830.53	111.57
कुल/Total	177736.40	166915.22	40672.99	38605.66	105.35	135186.02	132460.44	102.06

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

(\$)

Large Hydro Generation data excludes import from Bhutan. However, the import from Bhutan during July 2023 and April 23 -July 23 is 1258.60 MU and 2067.30 MUs respectively.

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

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Unchahar (NTPC)	Uttar Pradesh	Central	Solar	1.14
Dadri (NTPC)	Uttar Pradesh	Central	Solar	0.47
Singrauli (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	45.93
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	156.12
Adani Hybrid Energy Jaisalmer One Limited	Rajasthan	Private	Solar	76.56
Adani Hybrid Energy Jaisalmer Three Limited	Rajasthan	Private	Solar	74.10
Adani Hybrid Energy Jaisalmer Two Limited	Rajasthan	Private	Solar	75.97
Adani Renewable Energy RJ Limited (RERJL)	Rajasthan	Private	Solar	38.97
Adani Jaisalmer One SEPL Solar	Rajasthan	Private	Solar	88.94
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	98.67

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Adani Hybrid Energy Jaisalmer One Limited	Rajasthan	Private	Wind	24.04
Adani Hybrid Energy Jaisalmer Three Limited	Rajasthan	Private	Wind	17.54
Adani Hybrid Energy Jaisalmer Two Limited	Rajasthan	Private	Wind	17.22
Adani Jaisalmer One SEPL Wind	Rajasthan	Private	Wind	28.33
Northern Region				2656.23
Arinsun Solar (Barsaitadesh)	Madhya Pradesh	Private	Solar	39.28
Mahindra Solar (Badwar)	Madhya Pradesh	Private	Solar	39.08
Masaya BWSPRA_KNDW	Madhya Pradesh	Private	Solar	13.94
Sherisha Raipur	Chhattisgarh	Private	Solar	6.35
Solarpur Solar	Maharashtra	Central	Solar	1.13
Electro Solaire Private Limited (ESPL RSP Solar)	Gujarat	Private	Solar	37.40
Tata Power Renewable Energy Limited (TPREL RSP Solar)	Gujarat	Private	Solar	19.33
Gujarat Industries Power Company Limited (GIPCL RSP Solar)	Gujarat	Private	Solar	19.30
Powerica Wind	Gujarat	Private	Solar	16.58
NTPC Kawas	Gujarat	Central	Solar	4.65
Gujarat State Electricity Corporation Limited (GSECL)	Gujarat	Private	Solar	9.46
Gandhar_Solar	Gujarat	Private	Solar	1.85
GSECL RSP	Gujarat	Private	Solar	3.95
RPL_SECI-II	Gujarat	Private	Solar	35.81
Adani Wind Energy Kutchh Four Limited (AWEK4L)	Gujarat	Private	Wind	42.47
Adani Wind Energy MP One Private Limited (AWEMP1PL)	Gujarat	Private	Wind	73.75
Alfnar Wind (Nanavalka)	Gujarat	Private	Wind	81.81
Green Infra Wind Energy Limited SECI-II (Giwel-II Wind (Vadva))	Gujarat	Private	Wind	65.54
Green Infra Wind Energy Limited SECI-III (Giwel-III Wind (Naranpar))	Gujarat	Private	Wind	87.16
Inox Green Energy Services Limited (IWISL Wind (Dayapar))	Gujarat	Private	Wind	62.48

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Ostro Kutch Wind Private Limited (OKWPL)	Gujarat	Private	Wind	75.42
Renew Wind Energy (AP2) Private Limited (Ghadsisa)	Gujarat	Private	Wind	96.74
Avikiran Solar India Private Limited (ASIPL), Baranda	Gujarat	Private	Wind	55.04
Apraava Khkrda Jam	Gujarat	Private	Wind	41.18
IGESL Dayapar	Gujarat	Private	Wind	62.48
Netra Kotda	Gujarat	Private	Wind	18.90
Torrent Sidpur Jam	Gujarat	Private	Wind	29.13
Western Region				1040.19
TUTICORIN				
Beetam(Tuticorin)	Tamil Nadu	Private	Wind	106.69
GRTJIPL	Tamil Nadu	Private	Solar	28.36
Mytra	Tamil Nadu	Private	Wind	109.01
Orange	Tamil Nadu	Private	Wind	95.12
Green Infra	Tamil Nadu	Private	Wind	120.31
Hiriyur Ostro	Tamil Nadu	Private	Wind	160.27
Sprng Renewable Energy Pvt Ltd(Pugalur)	Tamil Nadu	Private	Wind	137.93
JSW Renew Energy Two Limited (Tuticorin)	Tamil Nadu	Private	Wind	62.55
Ettayapuram	Tamil Nadu	Central	Solar	43.20
Southern Region				863.43
All India Total				4559.85

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) July'2023	RE Generation(MU) July'2022	RE Generation(MU) April 2023- July 2023	RE Generation(MU) April 2022- July 2022
NTPC							
Faridabad	Haryana	5.00	Solar	0.49	0.57	2.31	2.43
Bhadla	Rajasthan	260.00	Solar	36.14	32.17	148.41	148.5
Jetsar	Rajasthan	160.00	Solar	29.88	30.04	132.05	129.8
Fatehgarh	Rajasthan	296.00	Solar	19.55	50.09	215.10	202.14
Devikot	Rajasthan	240.00	Solar	45.93	0.00	195.77	0.00
Nokhra	Rajasthan	200.00	Solar	54.21	0.00	235.63	0.00
Dadri	Uttar Pradesh	5.00	Solar	0.47	0.51	2.25	2.4
Unchahar	Uttar Pradesh	10.00	Solar	1.14	1.26	5.17	5.1
Singrauli	Uttar Pradesh	15.00	Solar	1.78	1.88	7.31	7.4
Auraiya	Uttar Pradesh	40.00	Solar	5.79	2.98	26.24	12.6
Small Hydro Vindhyachal	Uttar Pradesh	8.00	Small Hydro	3.55	2.70	14.27	10.3
Rojmal	Gujarat	50.00	Wind	10.32	13.05	41.87	51.5
Rajgarh	Madhya Pradesh	50.00	Solar	4.68	4.87	23.84	26.0
Mandsaur	Madhya Pradesh	250.00	Solar	25.47	23.76	125.78	134.1
Solapur	Maharashtra	10.00	Solar	1.11	0.00	6.13	0.0
Anantapuram	Andhra Pradesh	250.00	Solar	0.00	27.81	96.28	127.4
Ramagundam	Telangana	110.00	Solar	10.33	8.71	69.28	44.0
Andaman Nicobar	Andaman Nicobar	5.00	Solar	0.38	0.37	1.88	1.8
Talchar_Solar	Orissa	10.00	Solar	0.91	0.91	4.37	4.6
Solar_Bilhaur	Uttar Pradesh	225.00	Solar	35.78	41.39	165.08	184.8
Simhadri Floating Project	Andhra Pradesh	25.00	Solar	3.42	3.38	17.25	17.0
Kayamkulam	Kerala	92.00	Solar	16.06	15.19	69.42	31.3
Kawas	Gujarat	56.00	Solar	6.55	2.44	35.46	8.0

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) July'2023	RE Generation(MU) July'2022	RE Generation(MU) April 2023- July 2023	RE Generation(MU) April 2022- July 2022
Gandhar	Gujarat	10.00	Solar	1.56	0.00	9.77	0.0
Shambu ki Burj-I	Rajasthan	250.00	Solar	50.54	0.00	214.21	0.0
Shambu ki Burj-II	Rajasthan	150.00	Solar	30.61	0.00	134.10	0.0
Ettayapuram	Tamil Nadu	230.00	Solar	41.93	0.00	162.67	0.0
Total NTPC		3012.00		438.58	264.08	2161.90	1151.34
THDC							
Patan Wind Power Project	Gujarat	50.00	Wind	3.98	9.11	30.32	39.61
Devbhumi Dwarka Wind Power Project	Gujarat	63.00	Wind	14.49	20.01	48.65	64.72
Solar Kasaragod	Kerala	50.00	Solar	4.83	5.52	30.38	26.24
Rishikesh office Premises	Uttar Pradesh	0.50	Solar	0.04	0.04	0.19	0.19
Dhukwan SHEP Jhansi,UP	Uttar Pradesh	24.00	Small Hydro	6.70	4.28	15.77	13.9
Total THDC		187.50		30.04	38.96	125.31	144.66
NHPC							
Wind Power Project	Rajasthan	50.00	Wind	6.26	6.03	20.24	32.13
Solar Power Project	Tamilnadu	50.00	Solar	7.39	7.02	24.43	30.40
Total NHPC		100.00		13.65	13.05	44.67	62.53
ONGC							
Bhuj	Gujarat	51.00	Wind	6.49	8.41	11.51	39.47
Jaisalmer	Rajasthan	102.00	Wind	11.70	11.99	38.90	73.59
Assam	Assam	1.00	Roof Top	0.00	0.08	0.15	0.43
Assam	Assam	10.00	Ground Mounted	0.03	0.72	1.56	5.00
Tripura	Tripura	5.00	Roof Top	0.00	0.00	0.72	0.00
Rajahmundry,Base Complex	Andhra Pradesh	5.00	Ground Mounted	0.01	0.56	0.83	3.08

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) July'2023	RE Generation(MU) July'2022	RE Generation(MU) April 2023- July 2023	RE Generation(MU) April 2022- July 2022
Tati Paka, Rajahmundry	Andhra Pradesh	1.00	Ground Mounted	0.48	0.05	1.20	0.33
Cauvery	Tamil Nadu	1.09	Ground Mounted	0.00	0.12	0.13	0.46
Vagara, Ankleshwar	Gujarat	5.00	Ground Mounted	0.56	0.49	2.15	2.42
Gujarat	Gujarat	4.23	Roof Top	0.00	0.37	0.48	1.82
Jodhpur	Rajasthan	1.65	Ground Mounted	0.00	0.14	0.15	0.55
Jaisalmer	Rajasthan	1.24	Ground Mounted	0.00	0.11	0.15	0.54
Uttarakhand	Uttarakhand	0.25	Roof Top	0.00	0.03	0.02	0.09
Goa	Goa	0.29	Ground Mounted	0.03	0.00	0.14	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	0.09
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
Total ONGC		189.30		19.29	23.12	58.18	128.00
SJVN Limited							
Khirvire Wind Power	Maharashtra	47.60	Wind	10.13	9.82	27.00	29.34
Sadla Wind Power	Gujarat	50.00	Wind	9.50	11.03	45.72	47.14
Charanka Solar Power	Gujarat	5.60	Solar	0.53	0.48	2.89	2.80
Wadhal Solar Power Project	Gujarat	1.00	Solar	0.02	0.13	0.39	0.57
Parasan Solar Power	Gujarat	75.00	Solar	12.30	0.00	57.53	0.00

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) July'2023	RE Generation(MU) July'2022	RE Generation(MU) April 2023- July 2023	RE Generation(MU) April 2022- July 2022
Total SJVN		179.20		32.47	21.45	133.52	79.85
Oil India Ltd							
Oil India Ltd	Rajasthan	14.00	Solar	2.03	1.82	8.58	8.54
Oil India Ltd	Rajasthan	67.60	Wind	5.02	7.94	24.00	41.97
Oil India Ltd	Gujarat	43.30	Wind	7.65	10.23	36.67	41.51
Oil India Ltd	Madhya Pradesh	63.20	Wind	6.68	9.13	39.31	47.51
Total Oil India Ltd		188.10		21.37	29.12	108.55	139.53
NEEPCO							
NEEPCO	Tripura	5.00	Solar	0.49	0.54	1.43	2.03
NEEPCO	Assam	25.00	Small Hydro	18.10	0.00	34.99	0.00
NEEPCO Total		30.00		18.59	0.54	36.42	2.03
DVC							
DVC	West Bengal	0.08	Solar	0.01	0.01	0.02	0.03
DVC	Jharkhand	4.00	Small Hydro	0.00	0.00	0.00	0.00
Total DVC		4.08		0.01	0.01	0.02	0.03
All India Total		3890.26		574.00	390.33	2668.57	1707.97

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

Table 4:- RE Deviation Data for ISGS

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of July2023					
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
Ayana Renewable Power One Private Limited	Solar	62.77	60.73	-2.04	-3.25

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of July2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
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	45.93	-1.60	-3.37
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	10.31	10.23	-0.08	-0.78
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	64.04	61.20	-2.84	-4.43
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
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

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of July2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Tata Power Saurya	Solar	22.62	22.75	0.13	0.57
Unchahar Solar	Solar	1.23	1.14	-0.09	-7.32
Total Northern Region		2734.75	2656.22		
Western Region					
Arinsun Solar (Barsaitadesh)	Solar	39.80	39.28	-0.52	-1.32
Mahindra Solar (Badwar)	Solar	42.64	39.08	-3.56	-8.35
Masaya BWSPRA_KNDW	Solar	14.42	13.94	-0.48	-3.36
Sherisha Raipur	Solar	7.09	6.35	-0.74	-10.46
Solarpur Solar	Solar	1.20	1.13	-0.07	-5.47
Electro Solaire Private Limited (ESPL RSP Solar)	Solar	39.23	37.40	-1.83	-4.66
Tata Power Renewable Energy Limited (TPREL RSP Solar)	Solar	19.95	19.33	-0.62	-3.12
Gujarat Industries Power Company Limited (GIPCL RSP Solar)	Solar	19.86	19.30	-0.57	-2.86
Powerica Wind	Solar	17.54	16.58	-0.97	-5.51
NTPC Kawas	Solar	6.08	4.65	-1.43	-23.50
Gujarat State Electricity Corporation Limited (GSECL)	Solar	4.31	9.46	5.16	119.73
GSECL RSP	Solar	3.74	3.95	0.21	5.73
RPL_SECI-II	Solar	40.10	35.81	-4.29	-10.69
Gandhar_Solar	Solar	2.10	1.85	-0.25	-11.92
Adani Wind Energy Kutchh Four Limited (AWEK4L)	Wind	42.84	42.47	-0.37	-0.86
Adani Wind Energy MP One Private Limited (AWEMP1PL)	Wind	85.88	73.75	-12.13	-14.13
Alfnar Wind (Nanavalka)	Wind	87.27	81.81	-5.45	-6.25
Green Infra Wind Energy Limited SECI-II (Giwel-II Wind (Vadva))	Wind	70.39	65.54	-4.85	-6.88
Green Infra Wind Energy Limited SECI-III (Giwel-III Wind (Naranpar))	Wind	92.31	87.16	-5.16	-5.59
Ostro Kutch Wind Private Limted (OKWPL)	Wind	68.89	75.42	6.53	9.48

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of July2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Renew Wind Energy (AP2) Private Limited (Ghadsisa)	Wind	100.42	96.74	-3.68	-3.66
Avikiran Solar India Private Limited (ASIPL), Baranda	Wind	56.28	55.04	-1.24	-2.20
Apraava Khkrda Jam	Wind	41.17	41.18	0.01	0.01
IGESL Dayapar	Wind	77.62	62.48	-15.14	-19.52
Netra Kotda	Wind	20.14	18.90	-1.24	-6.14
Torrent Sidpur Jam	Wind	29.83	29.13	-0.70	-2.34
Total Western Region		957.44	1040.20		
Southern Region					
Beetam(Tuticorin)	Wind	105.71	106.69	0.98	0.93
GIREL	Wind	118.92	120.31	1.39	1.17
Mytra	Wind	113.51	109.01	-4.50	-3.96
Orange	Wind	95.39	95.12	-0.27	-0.29
Sprng Renewable Energy Pvt Ltd(Pugalur)	Wind	162.20	137.93	-24.27	-14.96
GRTJIPL	Wind	29.81	28.36	-1.45	-4.87
JSW Renew Energy Two Limited (Tuticorin)	Wind	62.94	62.55	-0.39	-0.62
Ostro Hiriyur	Wind	154.85	160.27	5.42	3.50
NTPC-Ettayapuram,(Solar PV), Tuticorin	Solar	43.90	43.20	-0.70	-1.59
Total Southern Region		887.22	863.43		

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 July2023

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Month of July 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	0.59	0.59	0.59	100.00
Delhi	0.00	240.86	0.00	0.00	59.75	59.75	300.61	19.88
Haryana	2385.25	0.01	0.00	0.00	116.34	116.34	2501.60	4.65
HP	0.00	0.00	0.00	5717.14	384.85	6101.99	6101.99	100.00
J & K	0.00	0.00	0.00	2220.03	59.90	2279.93	2279.93	100.00
Ladakh	0.00	0.00	0.00	65.71	0.00	65.71	65.71	100.00
Punjab	2597.30	0.00	0.00	688.16	397.64	1085.80	3683.10	29.48
Rajasthan	4388.60	108.48	581.02	78.02	3906.55	4565.59	9062.67	50.38
Uttar Pradesh	13461.28	284.24	302.19	126.55	352.05	780.79	14526.31	5.38
Uttarakhand	0.00	6.24	0.00	1901.51	77.81	1979.32	1985.56	99.69
Northern Region Total	22832.43	639.83	883.21	10797.12	5355.48	17035.81	40508.07	42.06
WESTERN REGION								
Chhattisgarh	12902.02	0.00	0.00	23.26	188.09	211.35	13113.37	1.61
Gujarat	5364.88	397.20	693.39	441.47	2905.96	4040.82	9802.90	41.22
Madhya Pradesh	11865.53	0.00	0.00	784.29	718.48	1502.77	13368.30	11.24
Maharashtra	9975.28	180.18	806.77	304.91	2151.89	3263.57	13419.03	24.32
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	1.81	1.81	1.81	100.00
Goa	0.00	0.00	0.00	0.00	6.99	6.99	6.99	100.00
Western Region Total	40107.71	577.38	1500.16	1553.93	5973.22	9027.31	49712.40	18.16
SOUTHERN REGION								
Andhra Pradesh	5523.89	0.00	0.00	125.50	2424.93	2550.43	8074.32	31.59
Telangana	4383.80	0.00	0.00	127.82	488.99	616.81	5000.61	12.33

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Month of July 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	2681.05	0.00	627.62	760.42	3253.27	4641.31	7322.36	63.39
Kerala	0.00	0.00	0.00	426.65	212.79	639.44	639.44	100.00
Tamil Nadu	5346.92	177.50	943.54	363.26	4698.46	6005.26	11529.68	52.09
Lakshadweep	5.08	0.00	0.00	0.00	0.01	0.01	5.09	0.15
Puducherry	0.00	21.08	0.00	0.00	1.02	1.02	22.10	4.62
Southern Region Total	17940.74	198.58	1571.16	1803.65	11079.47	14454.28	32593.60	44.35
EASTERN REGION								
Andaman Nicobar	26.28	0.00	0.00	0.00	2.85	2.85	29.13	9.78
Bihar	4833.42	0.00	0.00	0.00	18.96	18.96	4852.38	0.39
Jharkhand	2841.20	0.00	0.00	5.76	1.47	7.23	2848.43	0.25
Orissa	4744.73	0.00	0.00	698.01	107.06	805.07	5549.80	14.51
Sikkim	0.00	0.00	0.00	1782.97	1.03	1784.00	1784.00	100.00
West Bengal	7183.96	0.00	0.00	371.15	152.50	523.65	7707.61	6.79
Eastern Region Total	19629.59	0.00	0.00	2857.89	283.87	3141.76	22771.35	13.80
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	696.72	0.24	696.96	696.96	100.00
Assam	426.36	286.89	0.00	36.64	30.82	67.46	780.71	8.64
Manipur	0.00	0.00	0.00	13.14	0.64	13.78	13.78	100.00
Meghalaya	0.00	0.00	0.00	126.39	7.03	133.42	133.42	100.00
Mizoram	0.00	0.00	0.00	6.59	8.26	14.85	14.85	100.00
Nagaland	0.00	0.00	0.00	32.41	8.99	41.40	41.40	100.00
Tripura	0.00	535.90	0.00	0.00	0.49	0.49	536.39	0.09
North Eastern Region Total	426.36	822.79	0.00	911.89	56.47	968.36	2217.51	43.67
All India Total	100936.83	2238.58	3954.53	17924.48	22748.51	44627.52	147802.93	30.19

Table 6:-Fossil and Non-Fossil Generation for the period of April-July2023

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Period of April-July2023								
State/UT	Fossil		Non Fossil			Total Renewable (6)=((3)+(4)+(5))	Grand Total (7)=((1)+(2)+(3)+(4)+(5))	Non Fossil as % of Total Generation
	Thermal (1)	Gas (2)	Nuclear (3)	Large Hydro (4)	Renewable (Excluding Large Hydro) (5)			
NORTHERN REGION								
Chandigarh	0.00	0.00	0.00	0.00	5.52	5.52	5.52	100.00
Delhi	0.00	915.08	0.00	0.00	229.23	229.23	1144.31	20.03
Haryana	9254.44	70.20	0.00	0.00	469.72	469.72	9794.36	4.80
HP	0.00	0.00	0.00	15471.89	1166.04	16637.93	16637.93	100.00
J & K	0.00	0.00	0.00	7992.11	227.76	8219.87	8219.87	100.00
Ladakh	0.00	0.00	0.00	150.80	0.00	150.80	150.80	100.00
Punjab	10800.83	0.00	0.00	1668.09	1778.92	3447.01	14247.84	24.19
Rajasthan	18801.71	506.52	2400.08	86.99	16868.47	19355.54	38663.77	50.06
Uttar Pradesh	51996.42	659.29	1180.43	278.59	2133.92	3592.94	56248.65	6.39
Uttarakhand	0.00	294.81	0.00	5016.45	311.24	5327.69	5622.50	94.76
Northern Region Total	90853.40	2445.90	3580.51	30664.92	23190.81	57436.24	150735.54	38.10
WESTERN REGION								
Chhattisgarh	54344.47	0.00	0.00	60.90	759.79	820.69	55165.16	1.49
Gujarat	21748.11	2820.08	1509.09	824.25	14139.81	16473.15	41041.34	40.14
Madhya Pradesh	48017.89	0.00	0.00	1565.82	3514.01	5079.83	53097.72	9.57
Maharashtra	44237.40	1169.84	2580.58	2198.70	6560.87	11340.15	56747.39	19.98
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	9.09	9.09	9.09	100.00
Goa	0.00	0.00	0.00	0.00	22.90	22.90	22.90	100.00
Western Region Total	168347.87	3989.92	4089.67	4649.67	25006.47	33745.81	206083.60	16.37
SOUTHERN REGION								
Andhra Pradesh	24120.45	0.00	0.00	481.55	6951.41	7432.96	31553.41	23.56
Telangana	17957.73	0.00	0.00	291.52	2525.52	2817.04	20774.77	13.56
Karnataka	14201.22	0.00	2437.23	3355.81	10659.43	16452.47	30653.69	53.67
Kerala	0.00	0.00	0.00	2108.29	682.05	2790.34	2790.34	100.00

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Period of April-July2023								
State/UT	Fossil		Non Fossil			Total Renewable (6)=((3)+(4)+(5))	Grand Total (7)=((1)+(2)+(3)+(4)+(5))	Non Fossil as % of Total Generation
	Thermal (1) (1)	Gas (2)	Nuclear (3)	Large Hydro (4)	Renewable (Excluding Large Hydro) (5)			
Tamil Nadu	24541.59	676.44	4065.22	1120.36	12341.52	17527.10	42745.13	41.00
Lakshadweep	21.94	0.00	0.00	0.00	0.03	0.03	21.97	0.14
Puducherry	0.00	83.11	0.00	0.00	4.08	4.08	87.19	4.68
Southern Region Total	80842.93	759.55	6502.45	7357.53	33164.04	47024.02	128626.50	36.56
EASTERN REGION								
Andaman Nicobar	114.38	0.00	0.00	0.00	11.15	11.15	125.53	8.88
Bihar	19383.36	0.00	0.00	0.00	103.75	103.75	19487.11	0.53
Jharkhand	11504.16	0.00	0.00	22.97	5.88	28.85	11533.01	0.25
Orissa	21670.37	0.00	0.00	1892.26	386.22	2278.48	23948.85	9.51
Sikkim	0.00	0.00	0.00	4658.77	4.12	4662.89	4662.89	100.00
West Bengal	30489.03	0.00	0.00	1075.95	649.51	1725.46	32214.49	5.36
Eastern Region Total	83161.30	0.00	0.00	7649.95	1160.63	8810.58	91971.88	9.58
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	1642.55	1.00	1643.55	1643.55	100.00
Assam	1742.86	1154.03	0.00	96.90	134.34	231.24	3128.13	7.39
Manipur	0.00	0.00	0.00	29.12	3.86	32.98	32.98	100.00
Meghalaya	0.00	0.00	0.00	291.92	18.44	310.36	310.36	100.00
Mizoram	0.00	0.00	0.00	23.19	33.04	56.23	56.23	100.00
Nagaland	0.00	0.00	0.00	40.63	25.04	65.67	65.67	100.00
Tripura	0.00	2186.45	0.00	0.00	1.97	1.97	2188.42	0.09
North Eastern Region Total	1742.86	3340.48	0.00	2124.31	217.69	2342.00	7425.34	31.54
All India Total	424948.36	10535.85	14172.63	52446.38	82739.64	149358.65	584842.86	25.54

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

Renewable Energy (State Wise) Generation(MU) for the Month of July2023								
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	0.59	0.59	0.59	100.00
Delhi	0.00	240.86	0.00	0.00	59.75	59.75	300.61	19.88
Haryana	2385.25	0.01	0.00	0.00	116.34	116.34	2501.60	4.65
HP	0.00	0.00	0.00	5717.14	384.85	6101.99	6101.99	100.00
J & K	0.00	0.00	0.00	2220.03	59.90	2279.93	2279.93	100.00
Ladakh	0.00	0.00	0.00	65.71	0.00	65.71	65.71	100.00
Punjab	2597.30	0.00	0.00	688.16	397.64	1085.80	3683.10	29.48
Rajasthan	4388.60	108.48	581.02	78.02	3906.55	4565.59	9062.67	43.97
Uttar Pradesh	13461.28	284.24	302.19	126.55	352.05	780.79	14526.31	3.29
Uttarakhand	0.00	6.24	0.00	1901.51	77.81	1979.32	1985.56	99.69
Northern Region Total	22832.43	639.83	883.21	10797.12	5355.48	17035.81	40508.07	39.88
WESTERN REGION								
Chhattisgarh	12902.02	0.00	0.00	23.26	188.09	211.35	13113.37	1.61
Gujarat	5364.88	397.20	693.39	441.47	2905.96	4040.82	9802.90	34.15
Madhya Pradesh	11865.53	0.00	0.00	784.29	718.48	1502.77	13368.30	11.24
Maharashtra	9975.28	180.18	806.77	304.91	2151.89	3263.57	13419.03	18.31
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	1.81	1.81	1.81	100.00
Goa	0.00	0.00	0.00	0.00	6.99	6.99	6.99	100.00
Western Region Total	40107.71	577.38	1500.16	1553.93	5973.22	9027.31	49712.40	15.14
SOUTHERN REGION								
Andhra Pradesh	5523.89	0.00	0.00	125.50	2424.93	2550.43	8074.32	31.59
Telangana	4383.80	0.00	0.00	127.82	488.99	616.81	5000.61	12.33
Karnataka	2681.05	0.00	627.62	760.42	3253.27	4641.31	7322.36	54.81

Renewable Energy (State Wise) Generation(MU) for the Month of July2023								
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	426.65	212.79	639.44	639.44	100.00
Tamil Nadu	5346.92	177.50	943.54	363.26	4698.46	6005.26	11529.68	43.90
Lakshadweep	5.08	0.00	0.00	0.00	0.01	0.01	5.09	0.15
Puducherry	0.00	21.08	0.00	0.00	1.02	1.02	22.10	4.62
Southern Region Total	17940.74	198.58	1571.16	1803.65	11079.47	14454.28	32593.60	39.53
EASTERN REGION								
Andaman Nicobar	26.28	0.00	0.00	0.00	2.85	2.85	29.13	9.78
Bihar	4833.42	0.00	0.00	0.00	18.96	18.96	4852.38	0.39
Jharkhand	2841.20	0.00	0.00	5.76	1.47	7.23	2848.43	0.25
Orissa	4744.73	0.00	0.00	698.01	107.06	805.07	5549.80	14.51
Sikkim	0.00	0.00	0.00	1782.97	1.03	1784.00	1784.00	100.00
West Bengal	7183.96	0.00	0.00	371.15	152.50	523.65	7707.61	6.79
Eastern Region Total	19629.59	0.00	0.00	2857.89	283.87	3141.76	22771.35	13.80
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	696.72	0.24	696.96	696.96	100.00
Assam	426.36	286.89	0.00	36.64	30.82	67.46	780.71	8.64
Manipur	0.00	0.00	0.00	13.14	0.64	13.78	13.78	100.00
Meghalaya	0.00	0.00	0.00	126.39	7.03	133.42	133.42	100.00
Mizoram	0.00	0.00	0.00	6.59	8.26	14.85	14.85	100.00
Nagaland	0.00	0.00	0.00	32.41	8.99	41.40	41.40	100.00
Tripura	0.00	535.90	0.00	0.00	0.49	0.49	536.39	0.09
North Eastern Region Total	426.36	822.79	0.00	911.89	56.47	968.36	2217.51	43.67
All India Total	100936.83	2238.58	3954.53	17924.48	22748.51	44627.52	147802.93	27.52

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

Renewable Energy (State Wise Generation(MU) for the Period of April-July2023								
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	5.52	5.52	5.52	100.00
Delhi	0.00	915.08	0.00	0.00	229.23	229.23	1144.31	20.03
Haryana	9254.44	70.20	0.00	0.00	469.72	469.72	9794.36	4.80
HP	0.00	0.00	0.00	15471.89	1166.04	16637.93	16637.93	100.00
J & K	0.00	0.00	0.00	7992.11	227.76	8219.87	8219.87	100.00
Ladakh	0.00	0.00	0.00	150.80	0.00	150.80	150.80	100.00
Punjab	10800.83	0.00	0.00	1668.09	1778.92	3447.01	14247.84	24.19
Rajasthan	18801.71	506.52	2400.08	86.99	16868.47	19355.54	38663.77	43.85
Uttar Pradesh	51996.42	659.29	1180.43	278.59	2133.92	3592.94	56248.65	4.29
Uttarakhand	0.00	294.81	0.00	5016.45	311.24	5327.69	5622.50	94.76
Northern Region Total	90853.40	2445.90	3580.51	30664.92	23190.81	57436.24	150735.54	35.73
WESTERN REGION								
Chhattisgarh	54344.47	0.00	0.00	60.90	759.79	820.69	55165.16	1.49
Gujarat	21748.11	2820.08	1509.09	824.25	14139.81	16473.15	41041.34	36.46
Madhya Pradesh	48017.89	0.00	0.00	1565.82	3514.01	5079.83	53097.72	9.57
Maharashtra	44237.40	1169.84	2580.58	2198.70	6560.87	11340.15	56747.39	15.44
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	9.09	9.09	9.09	100.00
Goa	0.00	0.00	0.00	0.00	22.90	22.90	22.90	100.00
Western Region Total	168347.87	3989.92	4089.67	4649.67	25006.47	33745.81	206083.60	14.39
SOUTHERN REGION								
Andhra Pradesh	24120.45	0.00	0.00	481.55	6951.41	7432.96	31553.41	23.56
Telangana	17957.73	0.00	0.00	291.52	2525.52	2817.04	20774.77	13.56
Karnataka	14201.22	0.00	2437.23	3355.81	10659.43	16452.47	30653.69	45.72
Kerala	0.00	0.00	0.00	2108.29	682.05	2790.34	2790.34	100.00

Renewable Energy (State Wise Generation(MU) for the Period of April-July2023								
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	24541.59	676.44	4065.22	1120.36	12341.52	17527.10	42745.13	31.49
Lakshadweep	21.94	0.00	0.00	0.00	0.03	0.03	21.97	0.14
Puducherry	0.00	83.11	0.00	0.00	4.08	4.08	87.19	4.68
Southern Region Total	80842.93	759.55	6502.45	7357.53	33164.04	47024.02	128626.50	31.50
EASTERN REGION								
Andaman Nicobar	114.38	0.00	0.00	0.00	11.15	11.15	125.53	8.88
Bihar	19383.36	0.00	0.00	0.00	103.75	103.75	19487.11	0.53
Jharkhand	11504.16	0.00	0.00	22.97	5.88	28.85	11533.01	0.25
Orissa	21670.37	0.00	0.00	1892.26	386.22	2278.48	23948.85	9.51
Sikkim	0.00	0.00	0.00	4658.77	4.12	4662.89	4662.89	100.00
West Bengal	30489.03	0.00	0.00	1075.95	649.51	1725.46	32214.49	5.36
Eastern Region Total	83161.30	0.00	0.00	7649.95	1160.63	8810.58	91971.88	9.58
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	1642.55	1.00	1643.55	1643.55	100.00
Assam	1742.86	1154.03	0.00	96.90	134.34	231.24	3128.13	7.39
Manipur	0.00	0.00	0.00	29.12	3.86	32.98	32.98	100.00
Meghalaya	0.00	0.00	0.00	291.92	18.44	310.36	310.36	100.00
Mizoram	0.00	0.00	0.00	23.19	33.04	56.23	56.23	100.00
Nagaland	0.00	0.00	0.00	40.63	25.04	65.67	65.67	100.00
Tripura	0.00	2186.45	0.00	0.00	1.97	1.97	2188.42	0.09
North Eastern Region Total	1742.86	3340.48	0.00	2124.31	217.69	2342.00	7425.34	31.54
All India Total	424948.36	10535.85	14172.63	52446.38	82739.64	149358.65	584842.86	23.11

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

RE generation(MUs) data (source wise) for the month of July 2023 and July 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	July'23	July'22	July'23	July'22	July'23	July'22	July'23	July'22	July'23	July'22	July'23	July'22	July'23	July'22
NORTHERN REGION														
Chandigarh	0.00	0.00	0.59	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	17.21	22.64	0.00	0.00	0.00	0.00	0.00	0.00	42.54	21.96	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	5.18	4.91	0.00	0.00	0.00	0.00	379.67	364.93	0.00	0.00	5717.14	6180.21
J & K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	59.90	42.65	0.00	0.00	2220.03	2340.55
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	65.71	64.79
Punjab	0.00	0.00	301.99	157.78	36.11	32.89	0.56	0.10	58.97	66.09	0.00	0.00	688.16	399.27
Rajasthan	730.09	532.70	3152.47	2431.45	23.91	31.16	0.00	0.00	0.09	0.00	0.00	0.00	78.02	19.97
Uttar Pradesh	0.00	0.00	313.04	293.09	0.34	7.08	11.26	11.24	9.53	14.74	17.89	8.64	126.55	60.43
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	1901.51	1765.50
Northern Region	730.09	532.70	3878.21	3000.77	88.75	100.82	32.54	53.01	560.51	540.02	65.39	35.15	10797.12	10830.72
WESTERN REGION														
Chhattisgarh	0.00	0.00	57.22	30.73	117.77	70.94	0.00	0.00	13.10	11.19	0.00	0.00	23.26	10.10
Gujarat	2118.65	2216.97	779.54	633.18	0.00	0.00	0.00	0.00	7.76	8.16	0.00	0.00	441.47	497.82
Madhya Pradesh	415.43	424.02	253.98	276.51	7.47	0.55	0.00	0.00	40.08	23.56	1.52	2.49	784.29	760.74
Maharashtra	1587.67	1301.28	329.26	235.43	22.79	24.12	8.15	35.84	203.98	67.19	0.04	0.07	304.91	456.73
Dadra and Nagar Haveli and Daman and Diu	0.00	0.00	0.65	0.75	1.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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 July 2023 and July 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	July'23	July'22	July'23	July'22	July'23	July'22	July'23	July'22	July'23	July'22	July'23	July'22	July'23	July'22
Western Region	4121.76	3942.27	1426.94	1178.11	149.19	95.61	8.15	35.84	264.93	110.10	2.26	2.98	1553.93	1725.39
SOUTHERN REGION														
Andhra Pradesh	1843.66	1375.98	538.30	571.47	1.71	6.12	1.34	0.40	11.87	15.59	28.05	24.16	125.50	270.37
Telangana	54.96	44.30	417.62	412.77	0.96	1.93	0.00	0.00	2.40	5.12	13.05	16.62	127.82	475.20
Karnataka	2009.22	1533.70	1017.41	925.97	4.35	10.66	34.01	55.68	188.28	309.42	0.00	0.00	760.42	1181.38
Kerala	23.04	18.81	74.13	57.29	0.00	0.00	6.14	10.25	109.48	112.26	0.00	0.00	426.65	765.57
Tamil Nadu	3666.70	2818.68	973.37	731.17	8.85	11.18	38.31	74.43	11.24	36.60	0.00	0.00	363.26	683.29
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	7597.58	5791.47	3021.86	2699.70	15.86	29.89	79.79	140.76	323.27	478.99	41.11	40.78	1803.65	3375.81
EASTERN REGION														
Andaman Nicobar	0.00	0.00	1.62	1.64	0.00	0.00	0.00	0.00	1.23	1.48	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	17.59	15.28	0.00	0.00	0.24	0.00	1.13	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	5.76	13.17
Orissa	0.00	0.00	50.24	45.69	7.86	0.03	0.00	0.00	48.97	59.19	0.00	0.00	698.01	463.86
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	1782.97	1722.73
West Bengal	0.00	0.00	10.34	9.86	0.00	0.00	0.00	0.00	18.65	19.76	123.51	132.52	371.15	383.07
Eastern Region	0.00	0.00	81.26	74.34	7.86	0.03	0.24	0.00	71.01	84.08	123.51	132.52	2857.89	2582.83

RE generation(MUs) data (source wise) for the month of July 2023 and July 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	July'23	July'22	July'23	July'22	July'23	July'22	July'23	July'22	July'23	July'22	July'23	July'22	July'23	July'22
NORTH-EASTERN REGION														
Arunachal Pradesh	0.00	0.00	0.19	0.19	0.00	0.00	0.00	0.00	0.06	0.05	0.00	0.00	696.72	595.44
Assam	0.00	0.00	25.54	11.33	0.00	0.00	0.00	0.00	5.26	5.44	0.01	0.00	36.64	60.23
Manipur	0.00	0.00	0.64	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.14	75.97
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.03	13.28	0.00	0.00	126.39	152.63
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	6.59	25.14
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.99	7.83	0.00	0.00	32.41	40.95
Tripura	0.00	0.00	0.49	0.54	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	27.12	12.98	0.00	0.00	0.00	0.00	29.33	27.63	0.01	0.00	911.89	950.36
All India Total	12449.42	10266.44	8435.40	6965.89	261.65	226.35	120.72	229.61	1249.04	1240.83	232.27	211.43	17924.48	19465.11

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

RE generation(MUs) data (source wise) for the period of April-July2023 and April-July2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22
NORTHERN REGION														
Chandigarh	0.00	0.00	5.52	3.47	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	68.84	87.97	0.00	0.00	0.00	0.00	0.00	0.00	160.38	88.12	0.00	0.00
Haryana	0.00	0.00	234.44	252.16	105.32	118.80	51.24	83.84	58.54	88.64	20.18	18.20	0.00	0.00
Himachal Pradesh	0.00	0.00	21.71	21.38	0.00	0.00	0.00	0.00	1144.33	949.37	0.00	0.00	15471.89	16505.40
J & K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	227.76	166.62	0.00	0.00	7992.11	8283.51
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	150.80	173.43
Punjab	0.00	0.00	1319.12	710.29	191.44	170.40	43.97	44.78	224.40	233.80	0.00	0.00	1668.09	1355.59
Rajasthan	3382.72	3185.20	13372.19	10764.30	113.38	122.12	0.00	0.00	0.17	0.24	0.00	0.00	86.99	85.16
Uttar Pradesh	0.00	0.00	1461.84	1264.66	13.17	33.43	569.53	573.73	35.09	49.59	54.30	16.54	278.59	254.90
Uttarakhand	0.00	0.00	110.60	110.60	0.00	0.00	82.84	82.84	117.80	117.80	0.00	0.00	5016.45	5598.83
Northern Region	3382.72	3185.20	16594.26	13214.83	423.31	444.74	747.58	785.19	1808.10	1606.06	234.86	122.86	30664.92	32256.82
WESTERN REGION														
Chhattisgarh	0.00	0.00	233.94	159.70	494.51	435.98	4.55	0.60	26.78	24.21	0.00	0.00	60.90	69.27
Gujarat	9818.58	8893.86	4262.61	3239.52	0.00	0.00	0.00	2.86	58.62	43.81	0.00	2.24	824.25	1028.77
Madhya Pradesh	2087.94	2220.92	1250.10	1459.15	33.20	5.91	9.93	22.15	123.67	50.93	9.17	13.57	1565.82	1525.09
Maharashtra	3897.61	3596.10	1871.07	1215.26	104.68	105.62	334.73	1064.45	352.66	239.87	0.12	0.23	2198.70	2368.81
Dadra and Nagar Haveli and Daman and Diu	0.00	0.00	5.04	16.95	4.05	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Goa	0.00	0.00	20.39	2.77	0.00	0.00	0.00	0.00	0.00	0.00	2.52	1.70	0.00	0.00

RE generation(MUs) data (source wise) for the period of April-July2023 and April-July2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22
Western Region	15804.13	14710.88	7643.16	6093.36	636.44	550.73	349.22	1090.06	561.73	358.82	11.80	17.74	4649.67	4991.94
SOUTHERN REGION														
Andhra Pradesh	3988.96	3674.74	2790.89	2742.33	9.29	30.91	9.24	45.29	51.52	54.94	101.51	84.14	481.55	628.81
Telangana	131.47	114.41	2326.99	2202.03	1.91	17.34	11.43	7.16	8.23	11.61	45.50	59.49	291.52	668.30
Karnataka	4782.19	4238.61	5083.42	4610.93	25.09	49.35	445.32	545.11	323.41	613.90	0.00	0.00	3355.81	4256.36
Kerala	58.59	54.49	363.79	204.23	0.00	0.00	28.18	23.57	231.49	300.25	0.01	0.00	2108.29	2644.57
Tamil Nadu	8225.97	8297.14	3834.98	2891.69	37.62	41.84	214.08	228.68	28.87	62.66	0.00	0.00	1120.36	1560.42
Lakshadweep	0.00	0.00	0.03	0.04	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	4.08	4.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Southern Region	17187.17	16379.38	14404.18	12655.34	73.91	139.44	708.24	849.81	643.51	1043.35	147.02	143.63	7357.53	9758.46
EASTERN REGION														
Andaman Nicobar	0.00	0.00	9.14	8.68	0.00	0.00	0.00	0.00	2.01	4.31	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	66.70	61.49	0.00	0.00	35.92	0.00	1.13	3.08	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	5.88	7.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.97	36.94
Orissa	0.00	0.00	253.43	226.20	28.74	17.27	0.00	0.00	104.05	100.05	0.00	0.00	1892.26	1501.40
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.12	4.12	0.00	0.00	4658.77	5185.01
West Bengal	0.00	0.00	50.09	41.45	0.00	0.00	0.00	0.00	67.79	62.83	531.63	546.30	1075.95	1256.03
Eastern Region	0.00	0.00	385.25	345.27	28.74	17.27	35.92	0.00	179.09	174.40	531.63	546.30	7649.95	7979.38

RE generation(MUs) data (source wise) for the period of April-July2023 and April-July2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy etc.)		Large Hydro	
	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22	April'23-July'23	April'22-July'22
NORTH-EASTERN REGION														
Arunachal Pradesh	0.00	0.00	0.76	12.75	0.00	0.00	0.00	0.00	0.25	1.31	0.00	0.00	1642.55	1875.20
Assam	0.00	0.00	104.53	49.86	0.00	0.00	0.00	0.00	29.72	20.45	0.08	0.00	96.90	167.60
Manipur	0.00	0.00	2.63	2.74	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.00	29.12	222.72
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.44	33.75	0.00	0.00	291.92	460.48
Mizoram	0.00	0.00	1.06	1.12	0.00	0.00	0.00	0.00	31.98	2.07	0.00	0.00	23.19	38.54
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.04	26.62	0.00	0.00	40.63	81.96
Tripura	0.00	0.00	1.97	2.03	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	110.95	68.50	0.00	0.00	0.00	0.00	105.43	84.19	1.31	0.00	2124.31	2846.50
All India Total	36374.02	34275.46	39137.81	32377.29	1162.39	1152.19	1840.95	2725.06	3297.86	3266.81	926.61	830.53	52446.38	57833.10



This report is published by
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