



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

October-2023/ अक्टूबर -2023

नवीकरणीय परियोजना प्रबोधन प्रभाग
Renewable Project Monitoring Division

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Highlights of RE GENERATION

1. RE capacity addition during October 2023 has been 349.08 MW (Solar – 237.33 MW, Wind – 107.75 MW and Small Hydro –4.00 MW).
2. RE generation during October 2023 has decreased by 12.38 % as compared to October 2022.
3. Large Hydro Power generation during October 2023 as compared to October 2022 has decreased by 30.52 %.
4. Solar Power generation during October 2023 as compared to October 2022 has increased by 17.11 % on All India basis in all States/UTs except states of Chandigarh, Andaman & Nicobar Islands, Jharkhand, Tripura and Manipur.
5. Wind Power generation during October 2023 as compared to October 2022 has increased by 3.70 % on All India basis in all States/UTs except Gujarat, Maharashtra, Tamil Nadu and Kerala.
6. Biomass Power generation during October 2023 as compared to October 2022 has increased by 23.93 % on All India basis except States of Haryana, Andhra Pradesh, Karnataka and Telangana .
7. Bagasse power generation during October 2023 as compared to October 2022 has decreased by 47.40 %.
8. Others (Waste to Energy) Power generation has decreased by 0.19 % during October 2023 as compared to October 2022.
9. Small Hydro Power generation during October 2023 as compared to October 2022 has decreased by 25.59 %.

All India RE Capacity Addition

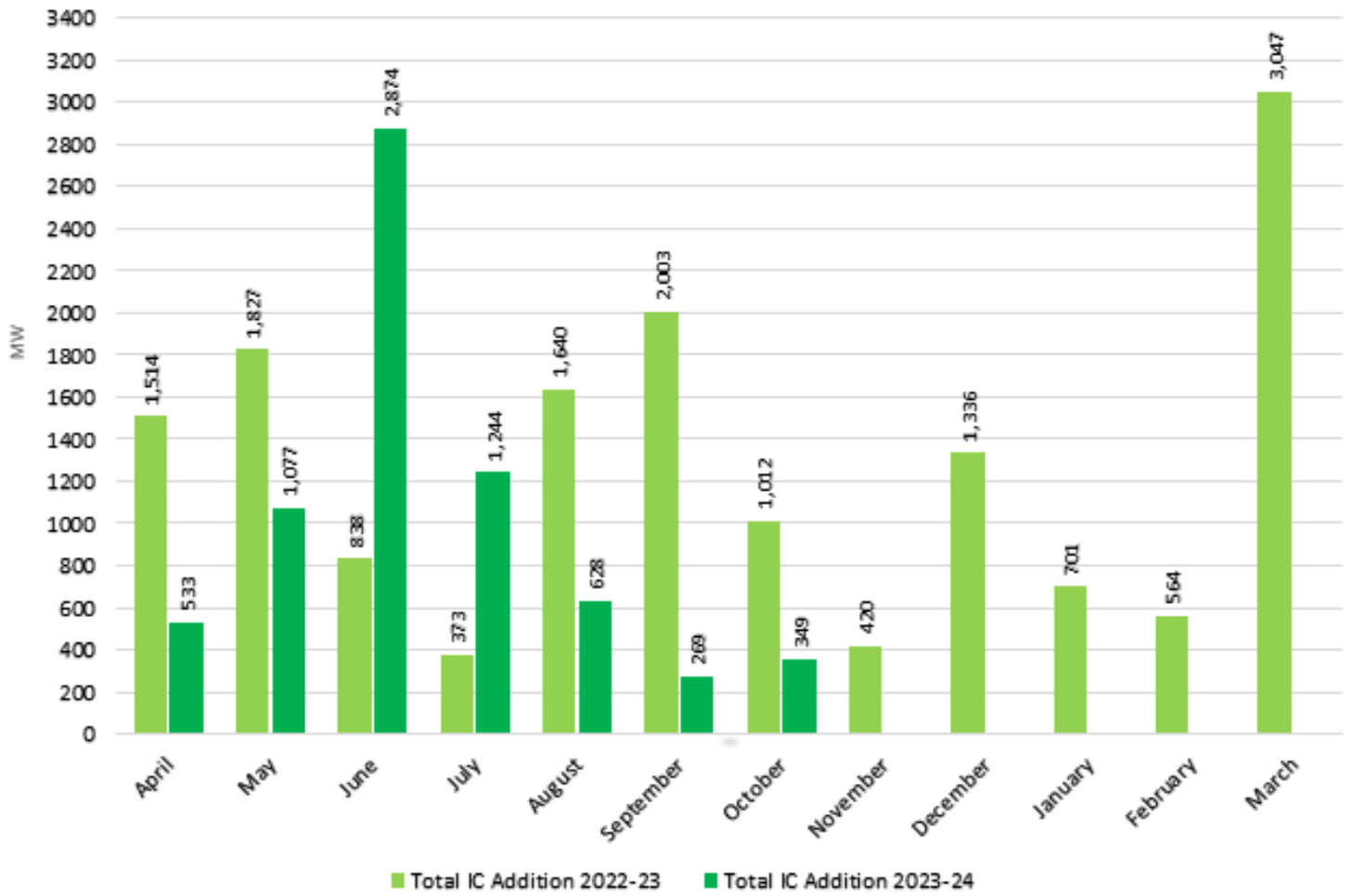


Figure 1: All India Month wise RE Capacity Addition

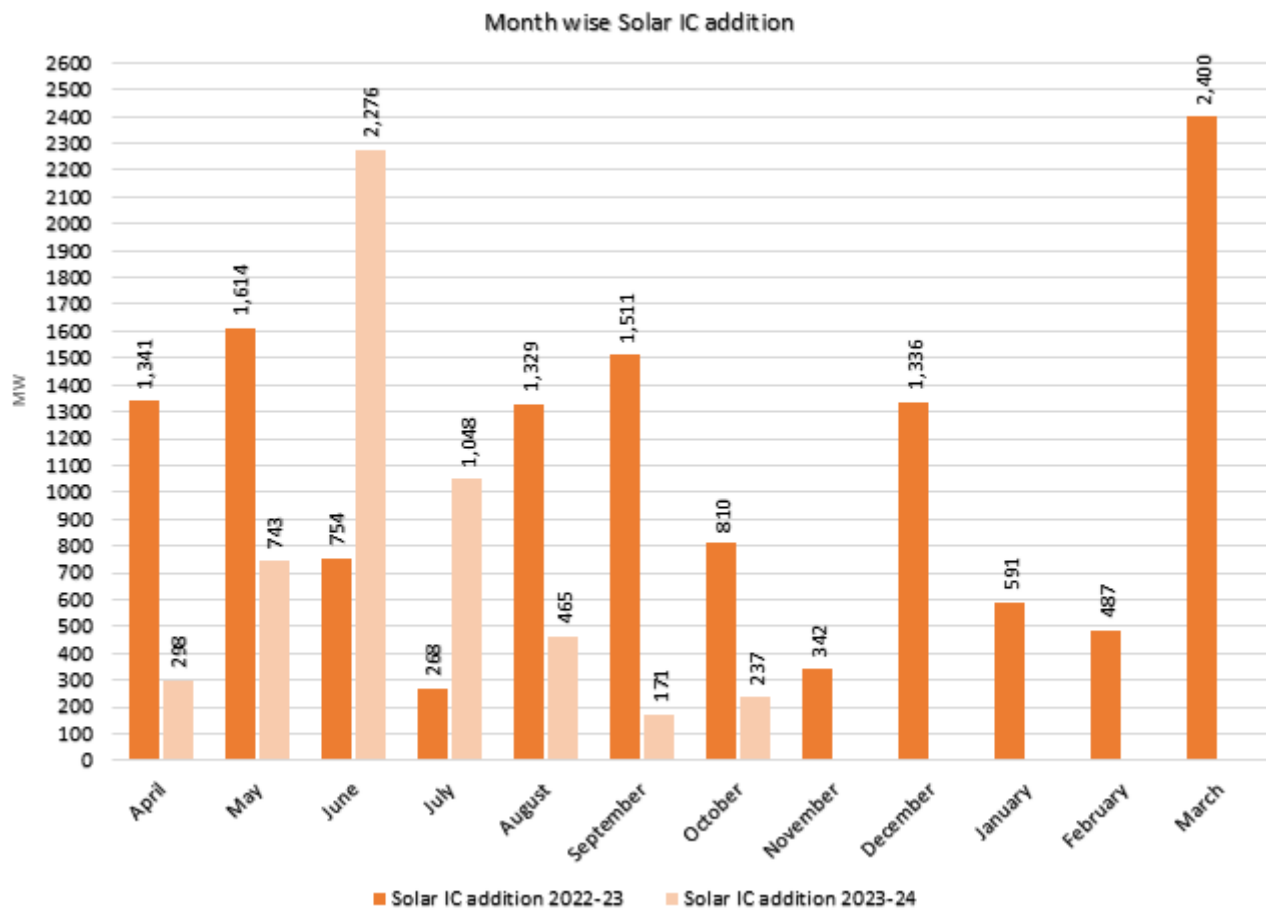


Figure 2: All India Month wise Solar Capacity Addition

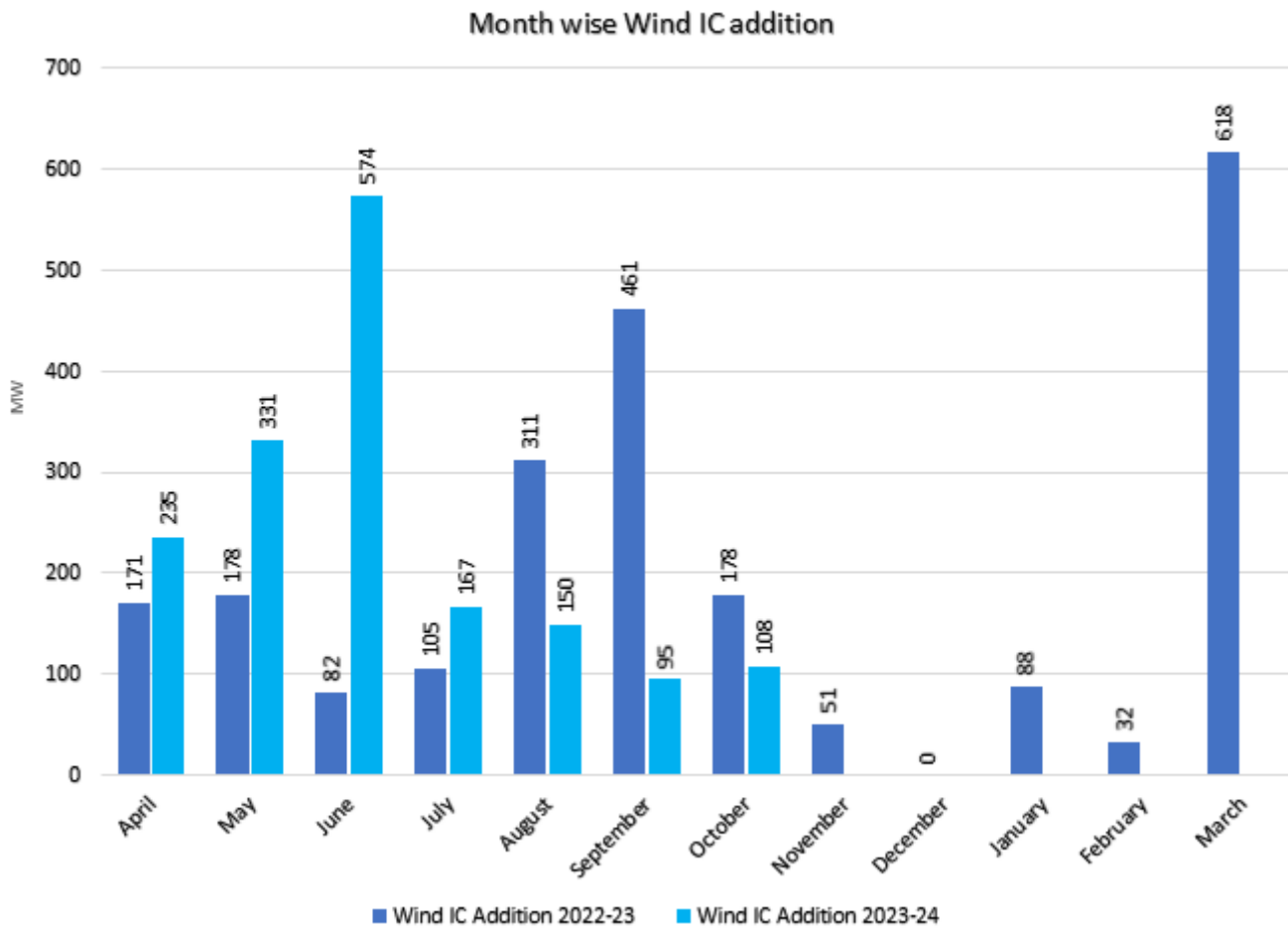


Figure 3: All India Month wise Wind Capacity Addition

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

Decreased by 65.51 % as compared to October 22.

Increased by 29.88 % as compared to September 23.

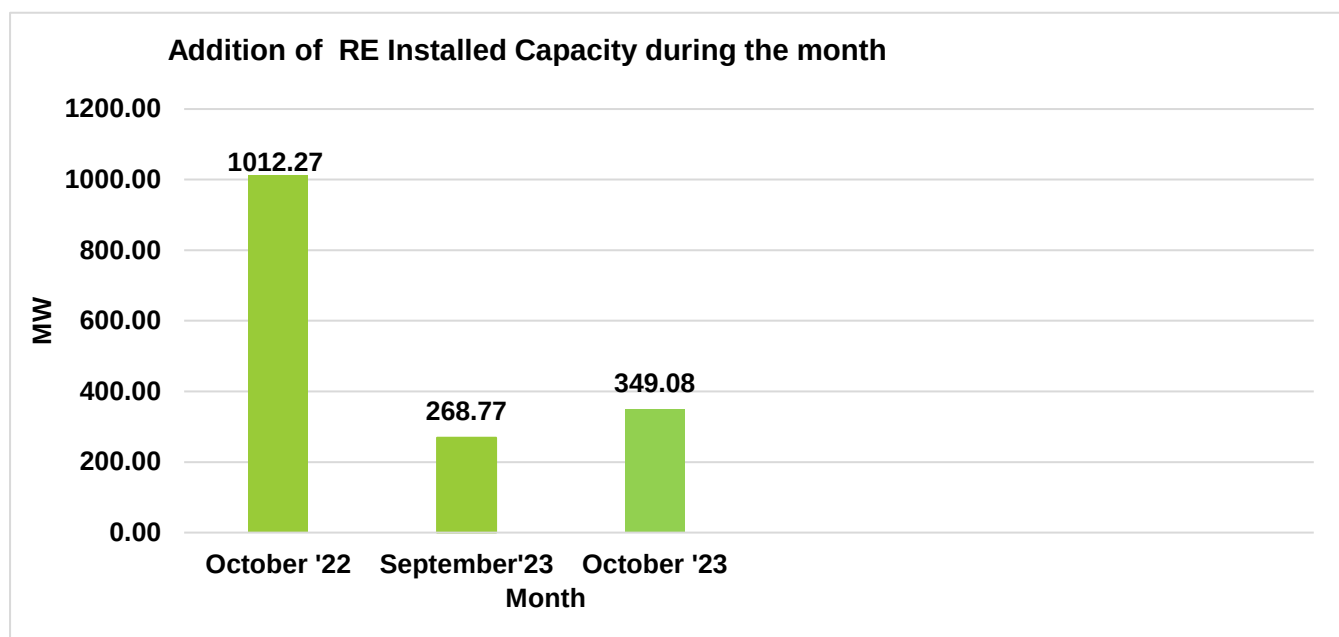


Figure 4: RE capacity added during the Month

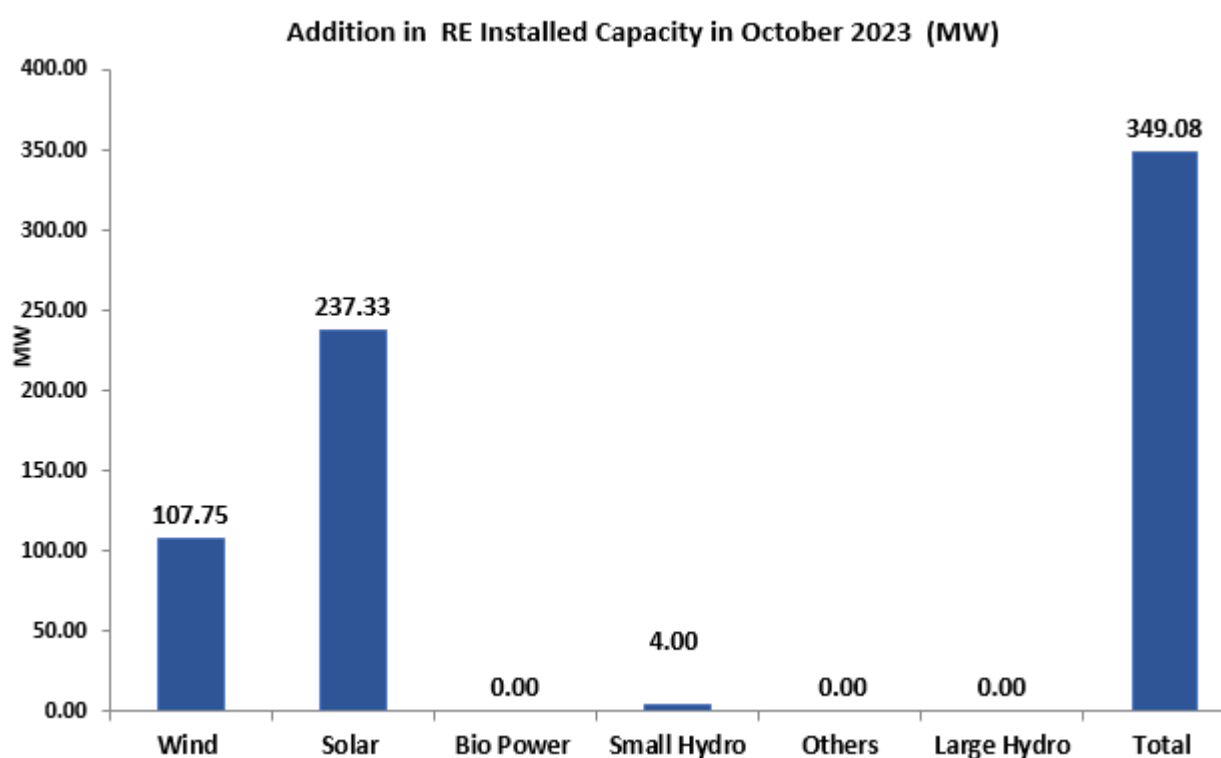


Figure 5: Source wise addition in RE Installed Capacity in October 23

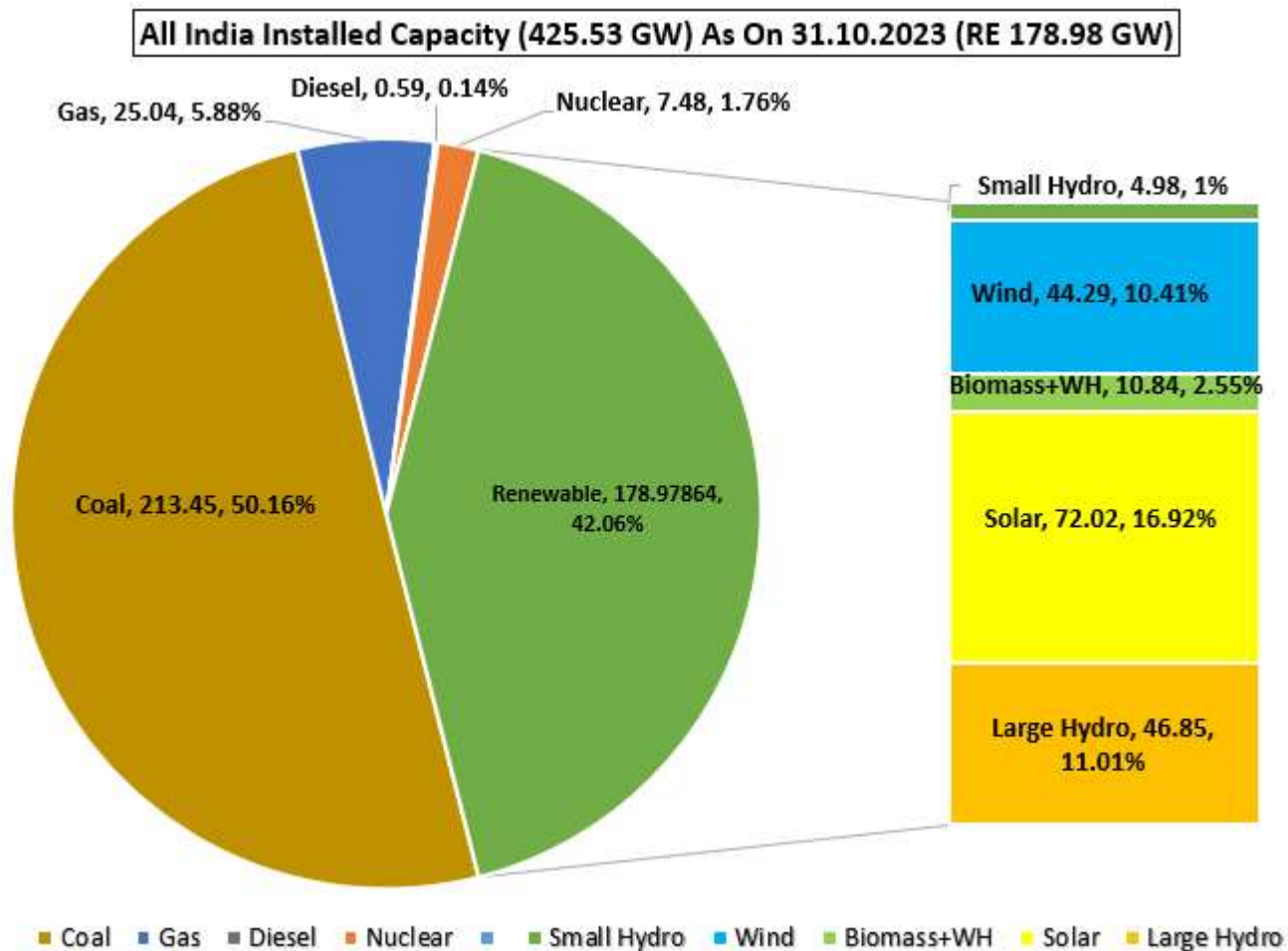


Figure 6: Installed Capacity in India as on 31.10.2023

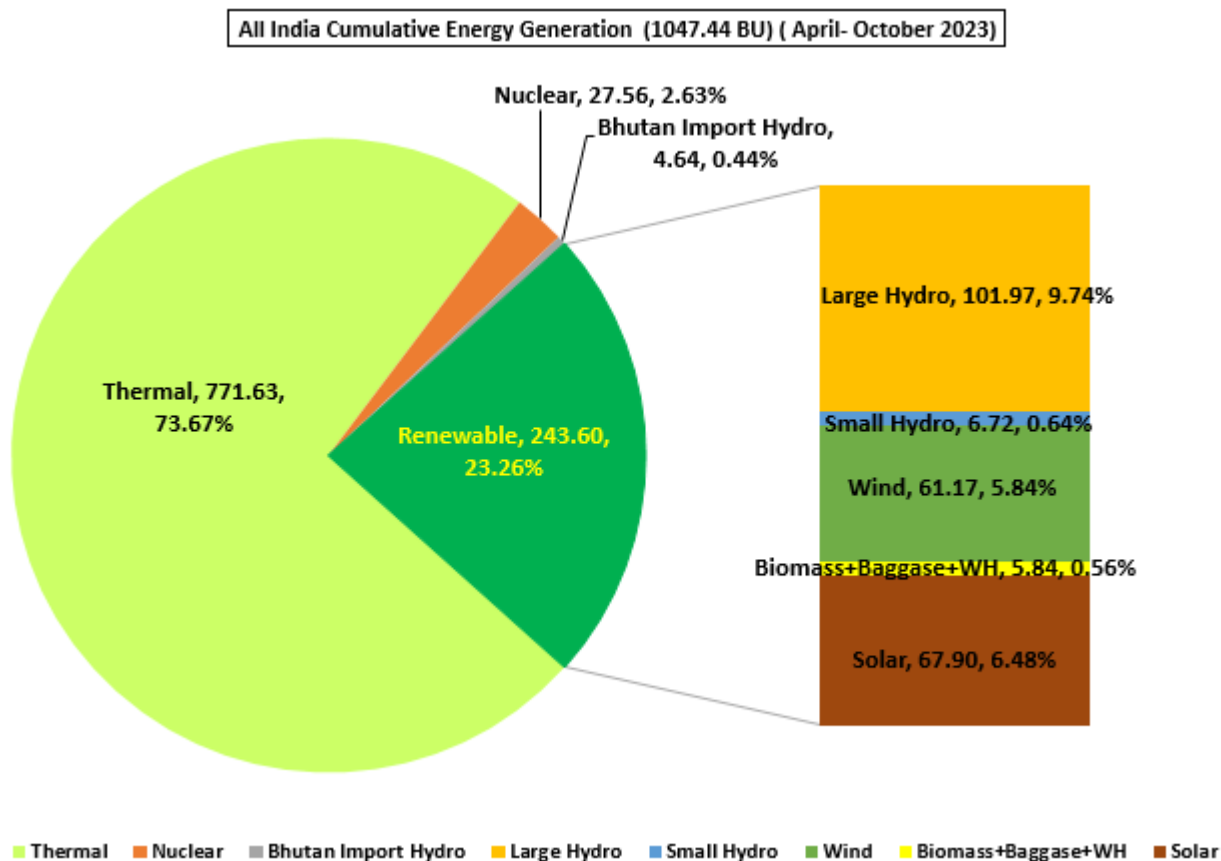


Figure 7: Cumulative Total Energy Generation in India and Share of RE for the year 2023-24

All India Monthly Energy Generation (148.91 BU) October 2023

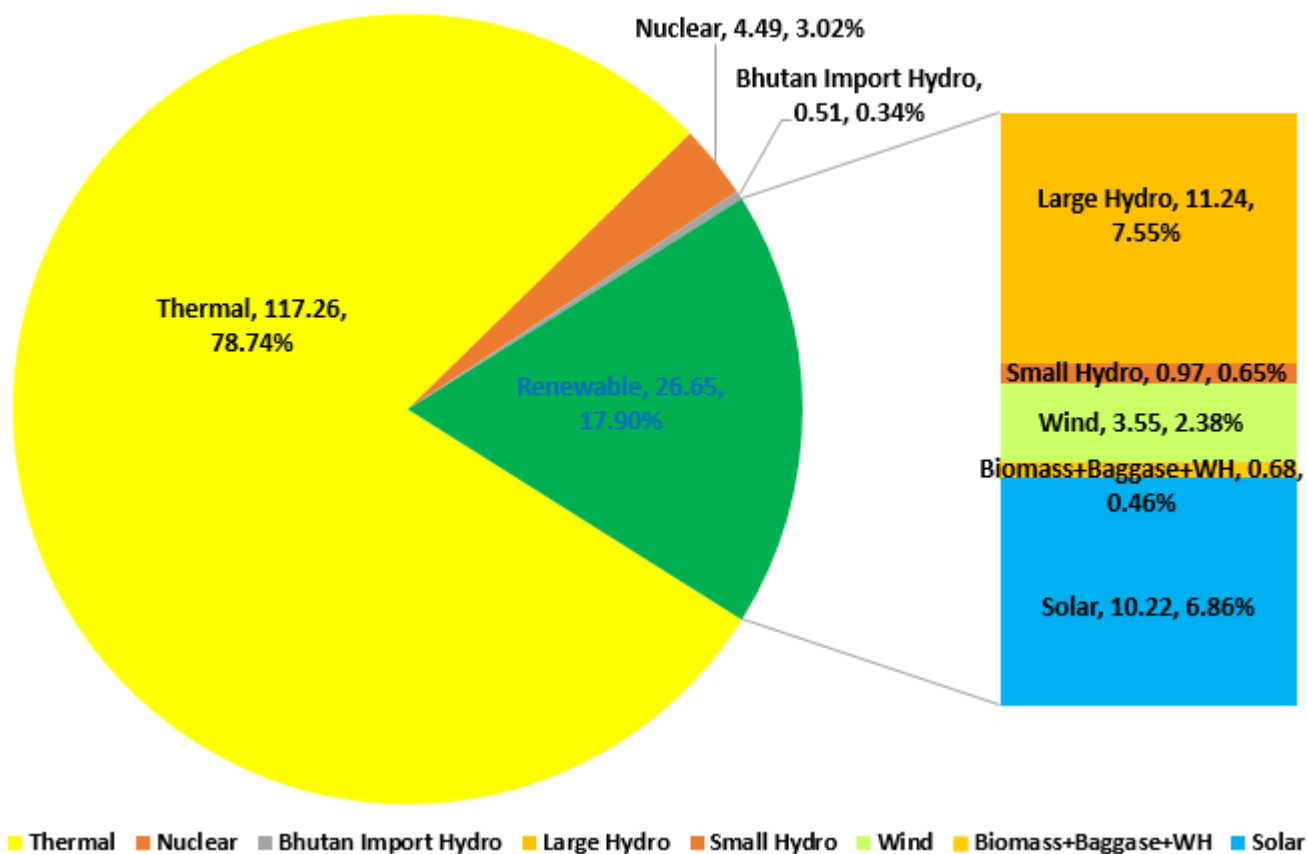


Figure 8: Total Energy Generation in India and Share of RE in the month of October 2023

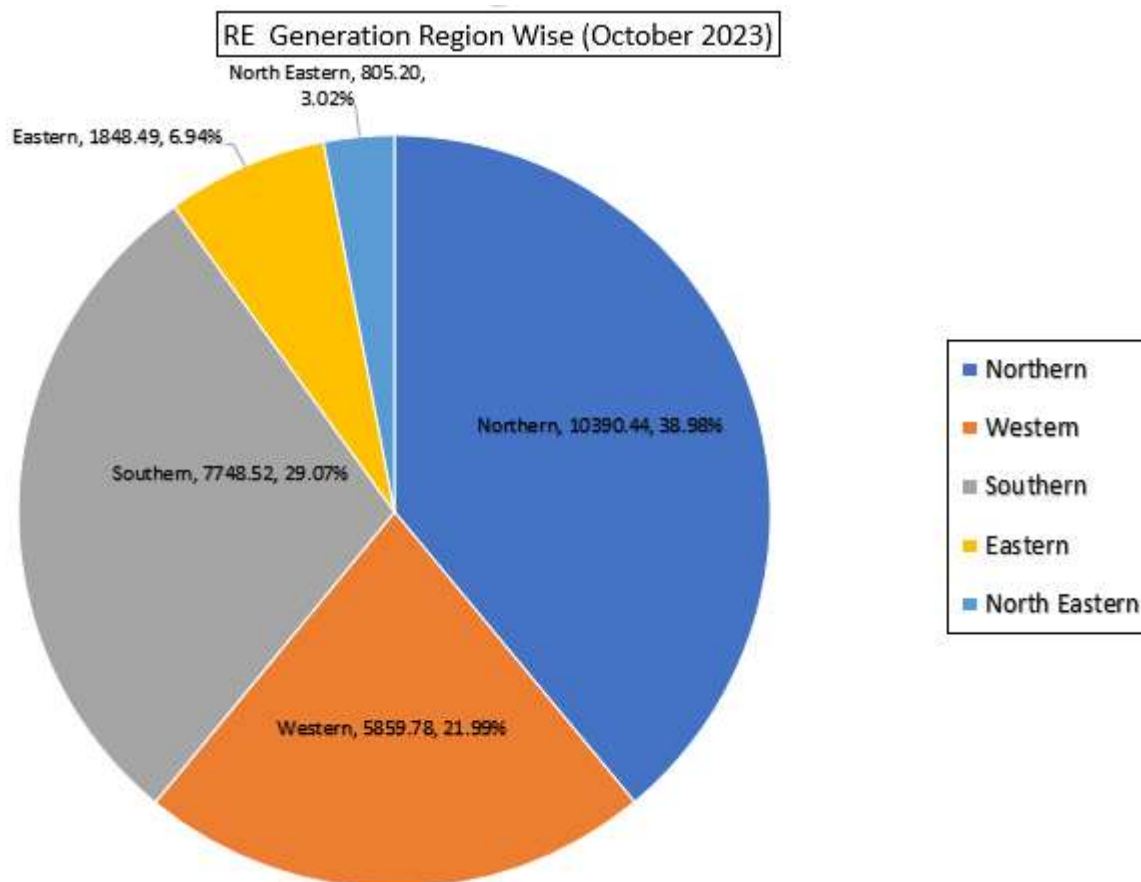


Figure 9: RE Generation Region Wise of October -2023

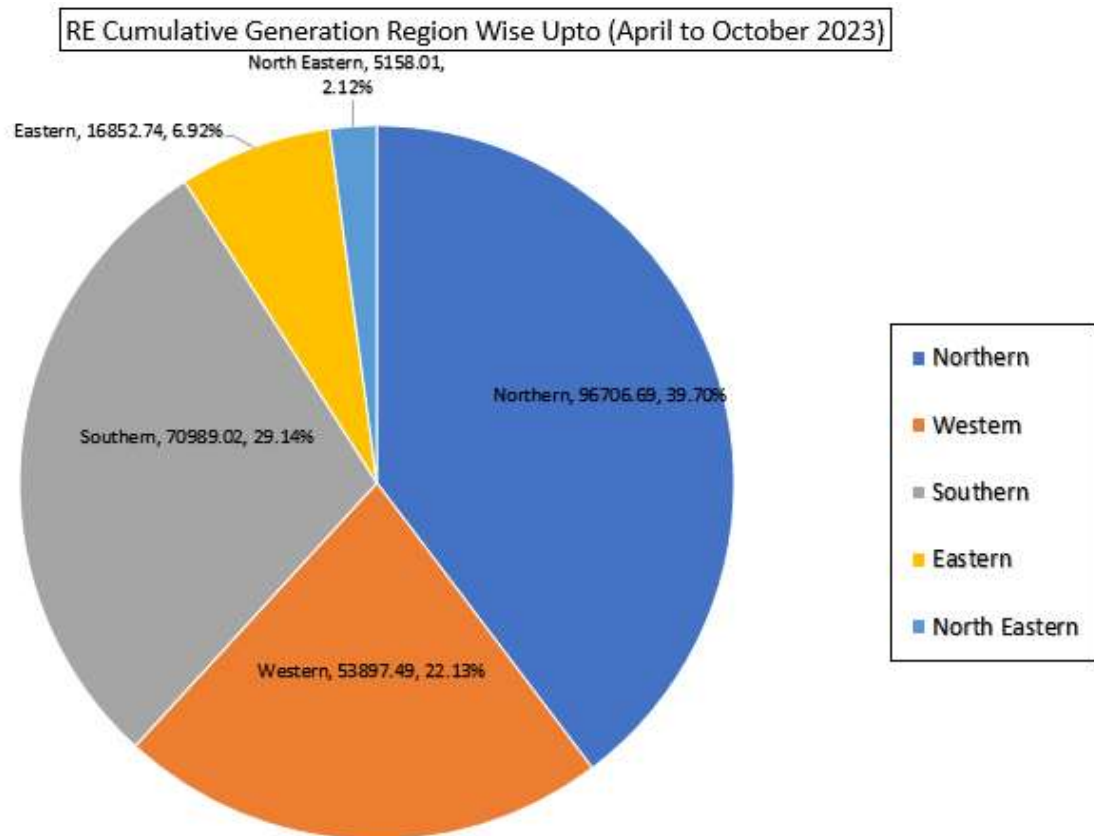


Figure 10: RE Cumulative Generation Region Wise Upto (April to October -2023)

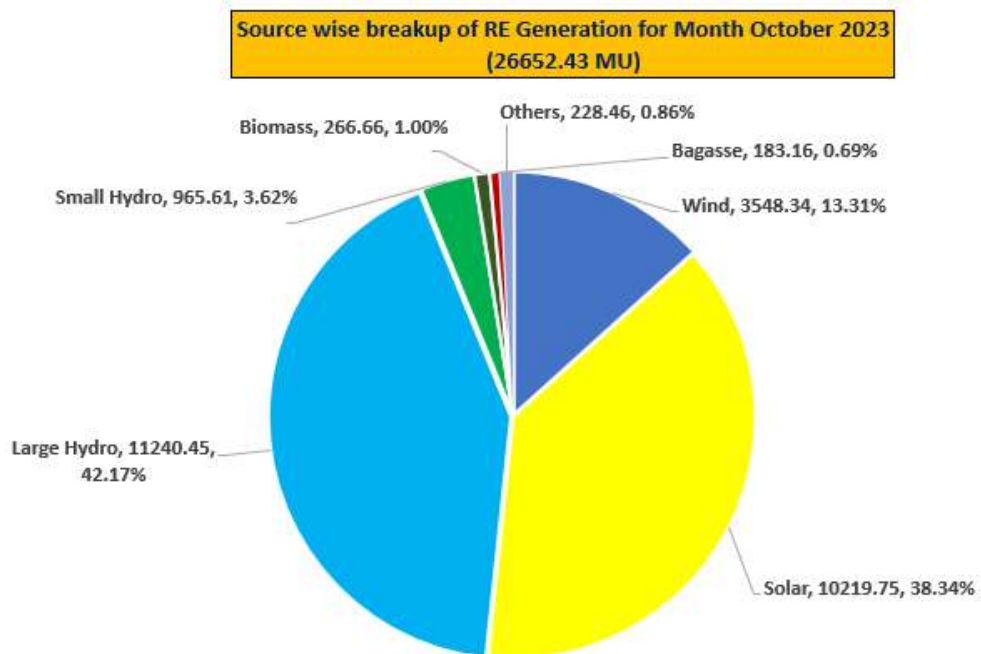


Figure 11: Source wise breakup of RE Generation in the month of October -2023

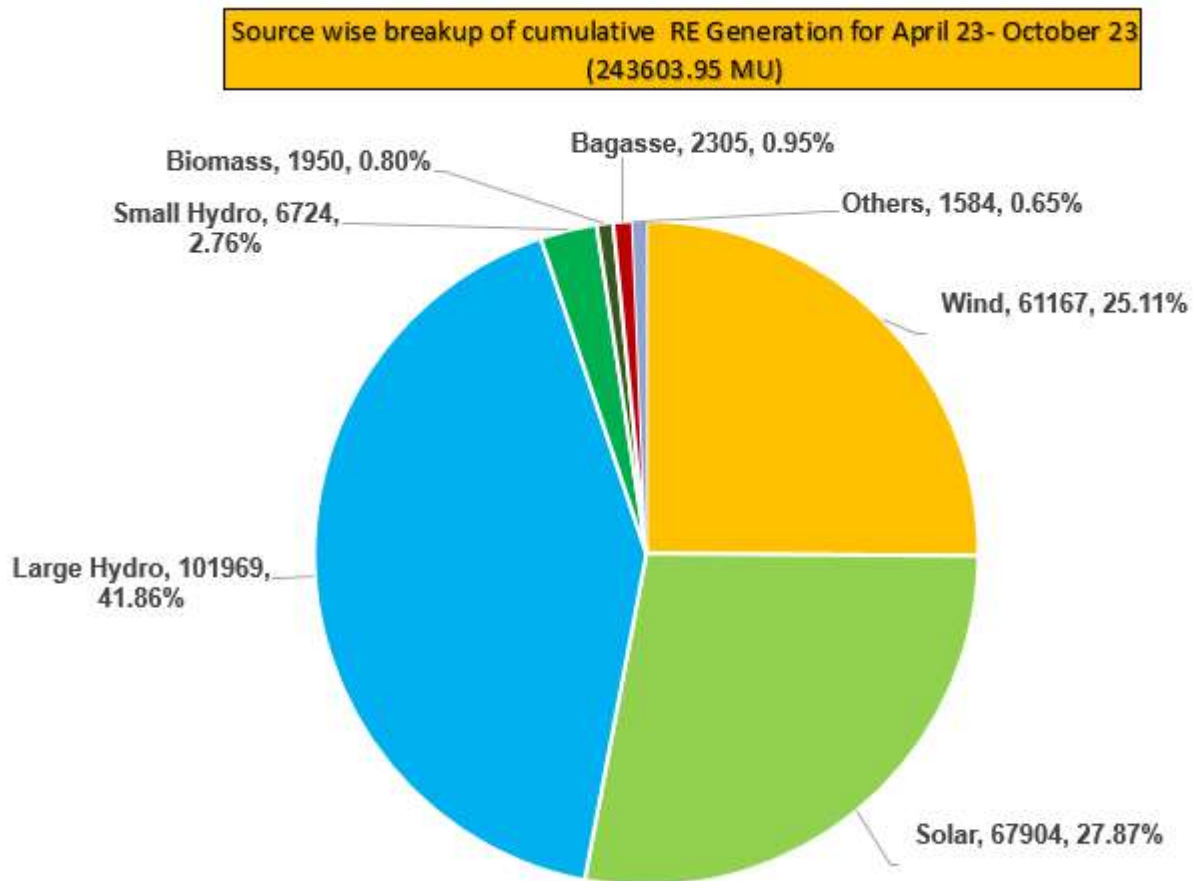


Figure 12: Source wise breakup of Cumulative RE Generation for the year 2023-24.

Summary of Renewable Energy Generation

Decreased by 12.38 % as compared to October' 22

Decreased by 26.44 % as compared to September '23.

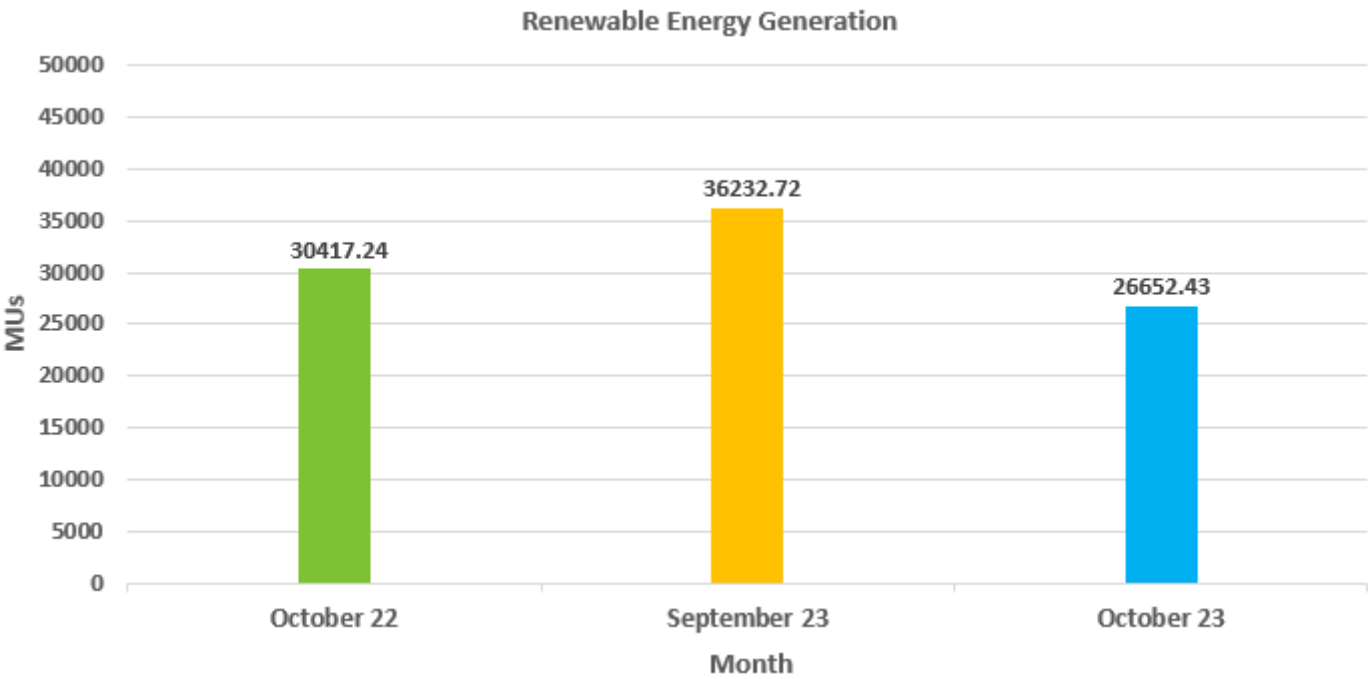


Figure 13: Renewable Energy Generation

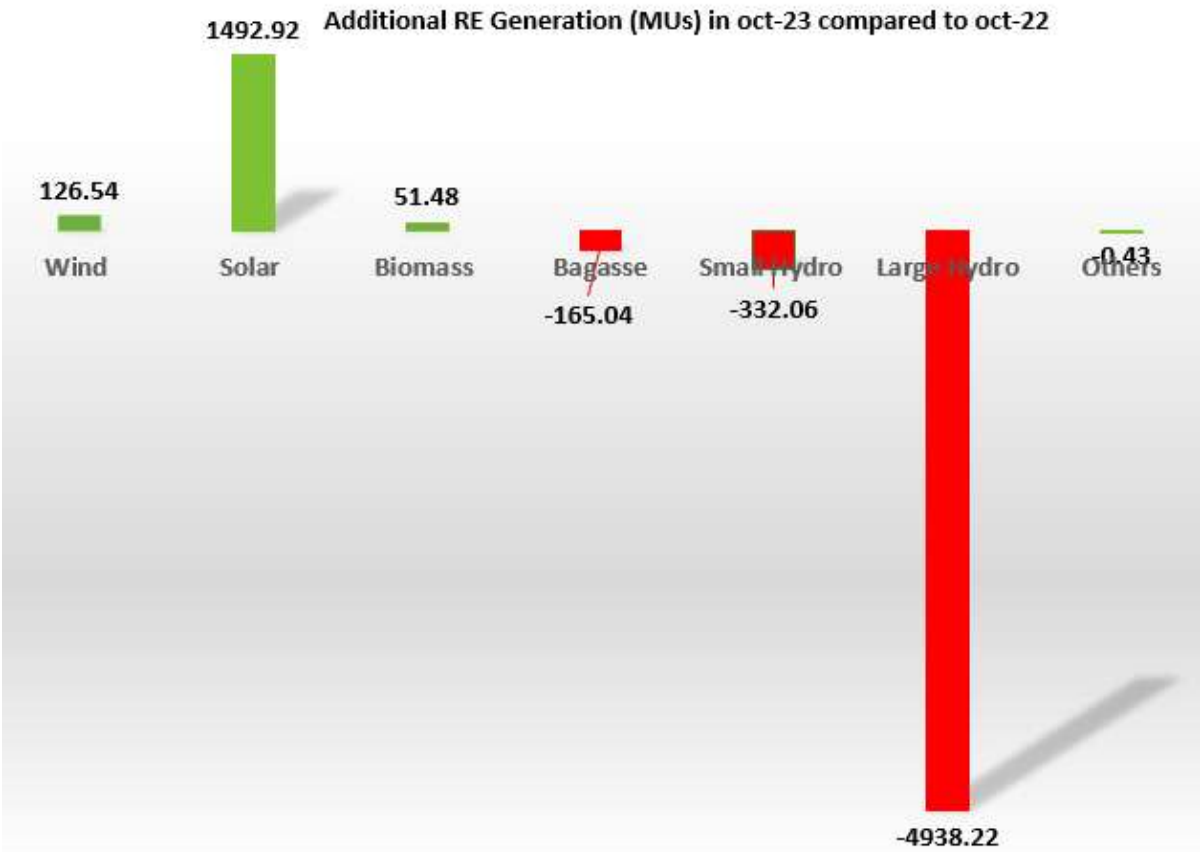


Figure 14: Additional RE Generation in October -23 as compared to October -22

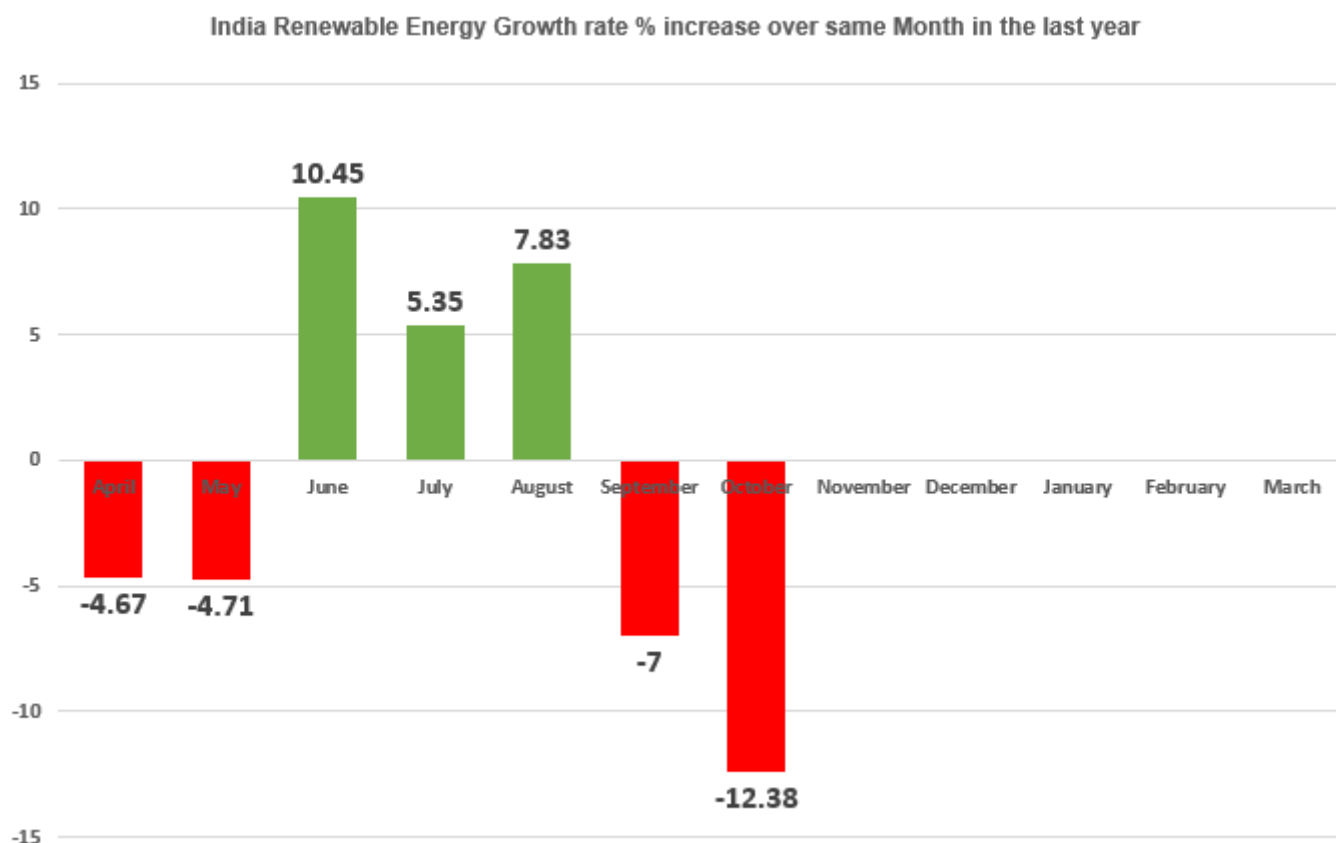


Figure 15: Month Wise % Growth of RE Generation in year 2023-24 w.r.t to previous year Same Month.

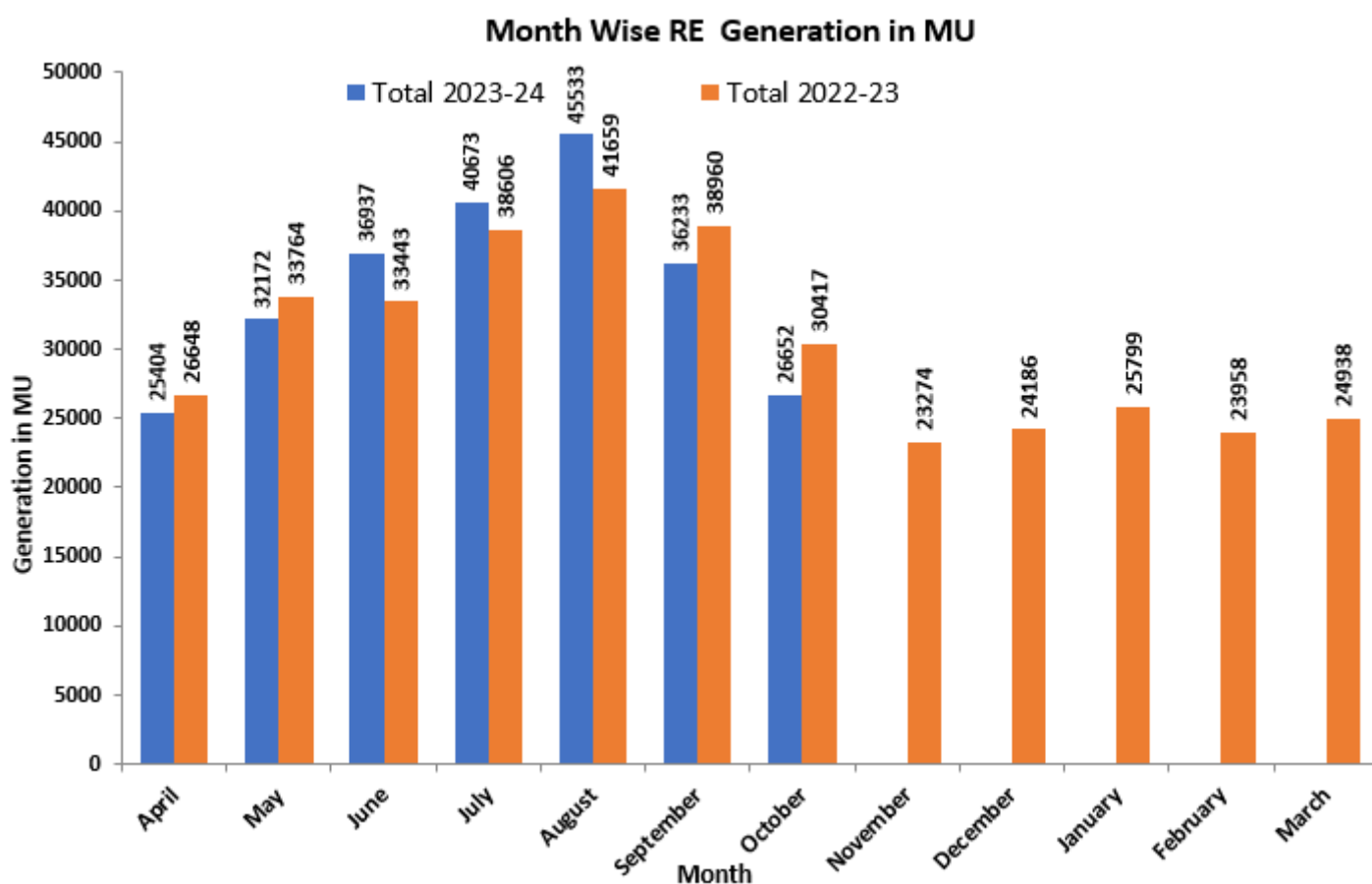


Figure 16: comparison of Month Wise RE Generation in year 2022-23 & in year 2023-24

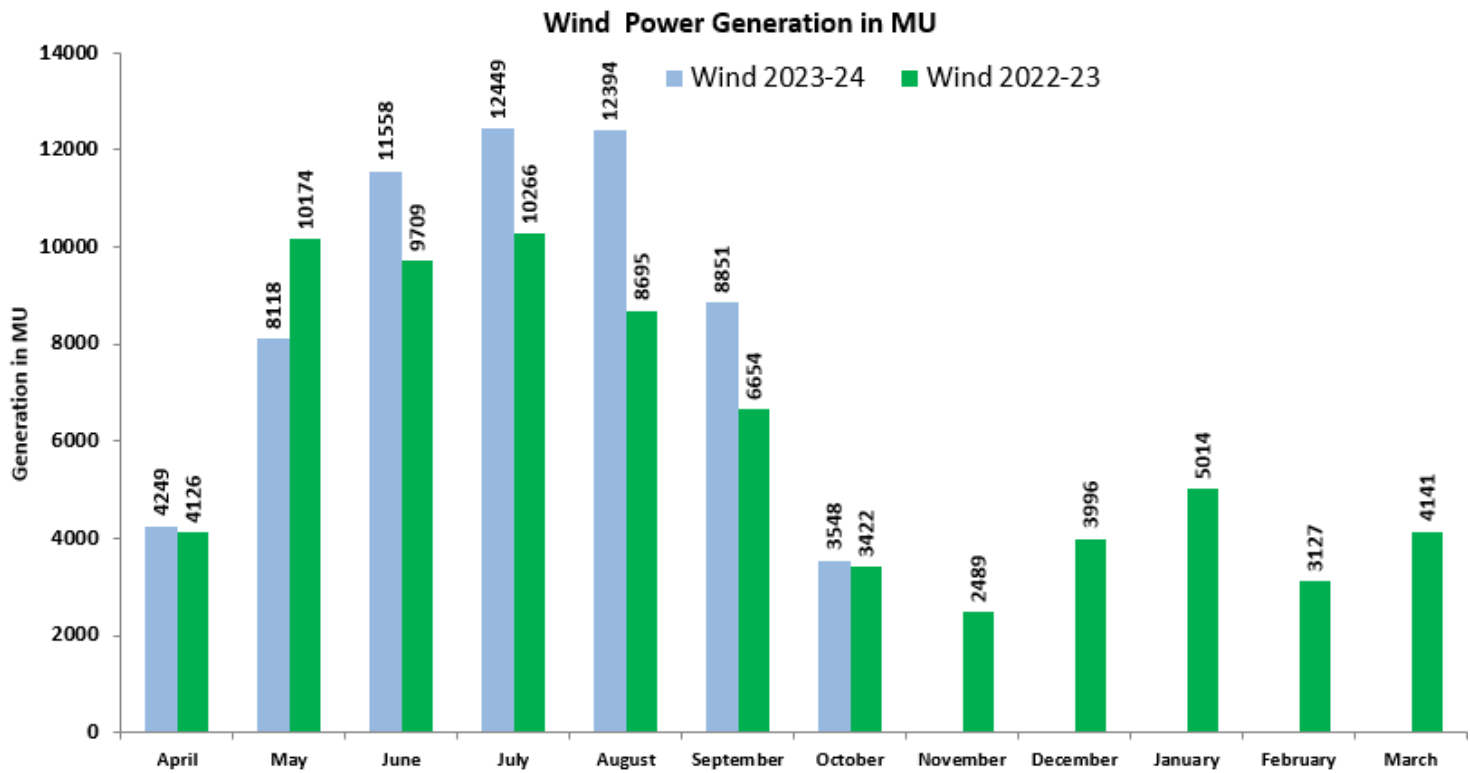


Figure 17: Month Wise Wind Power Generation for the year 2022-23 and year 2023-24.

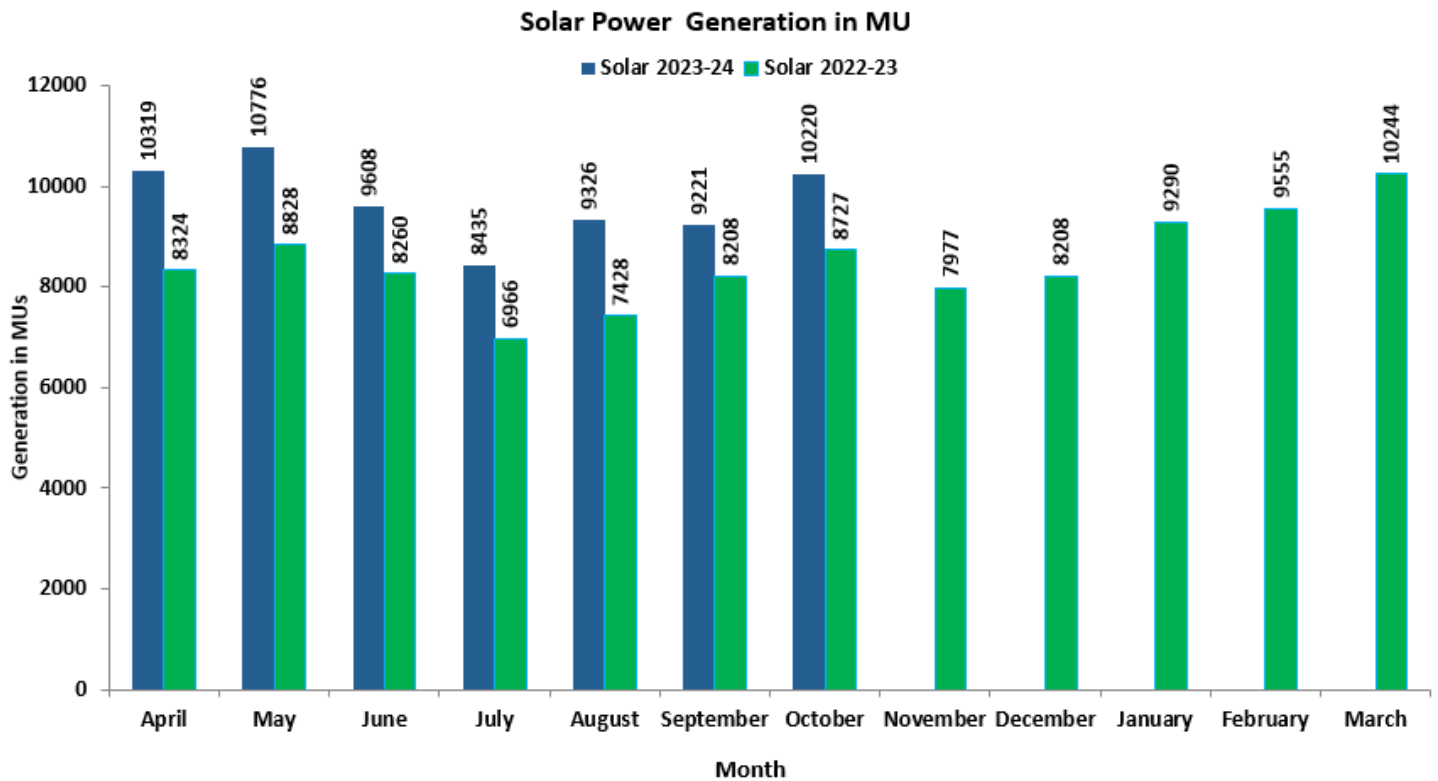


Figure 18: Month Wise Solar Power Generation for the year 2022-23 and year 2023-24.

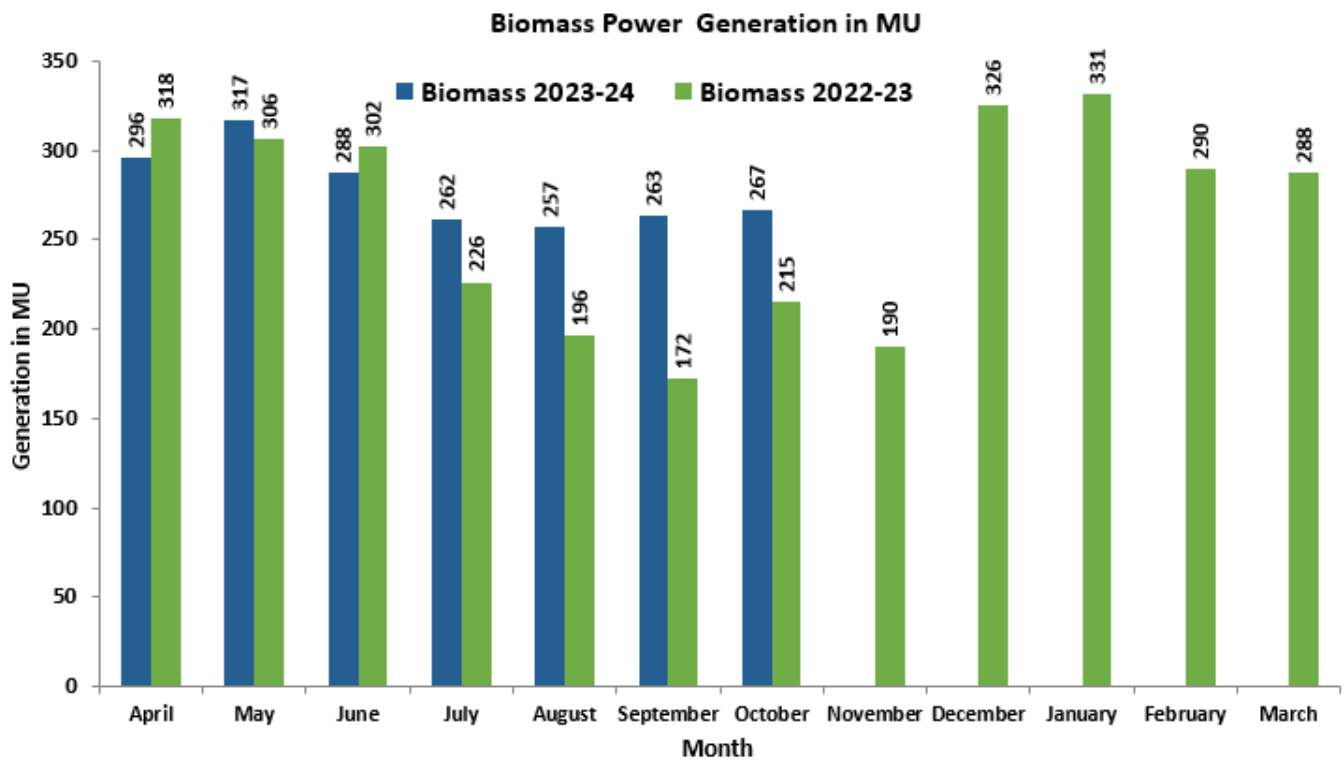


Figure 19: Month Wise Biomass Power Generation for the year 2022-23 and year 2023-24.

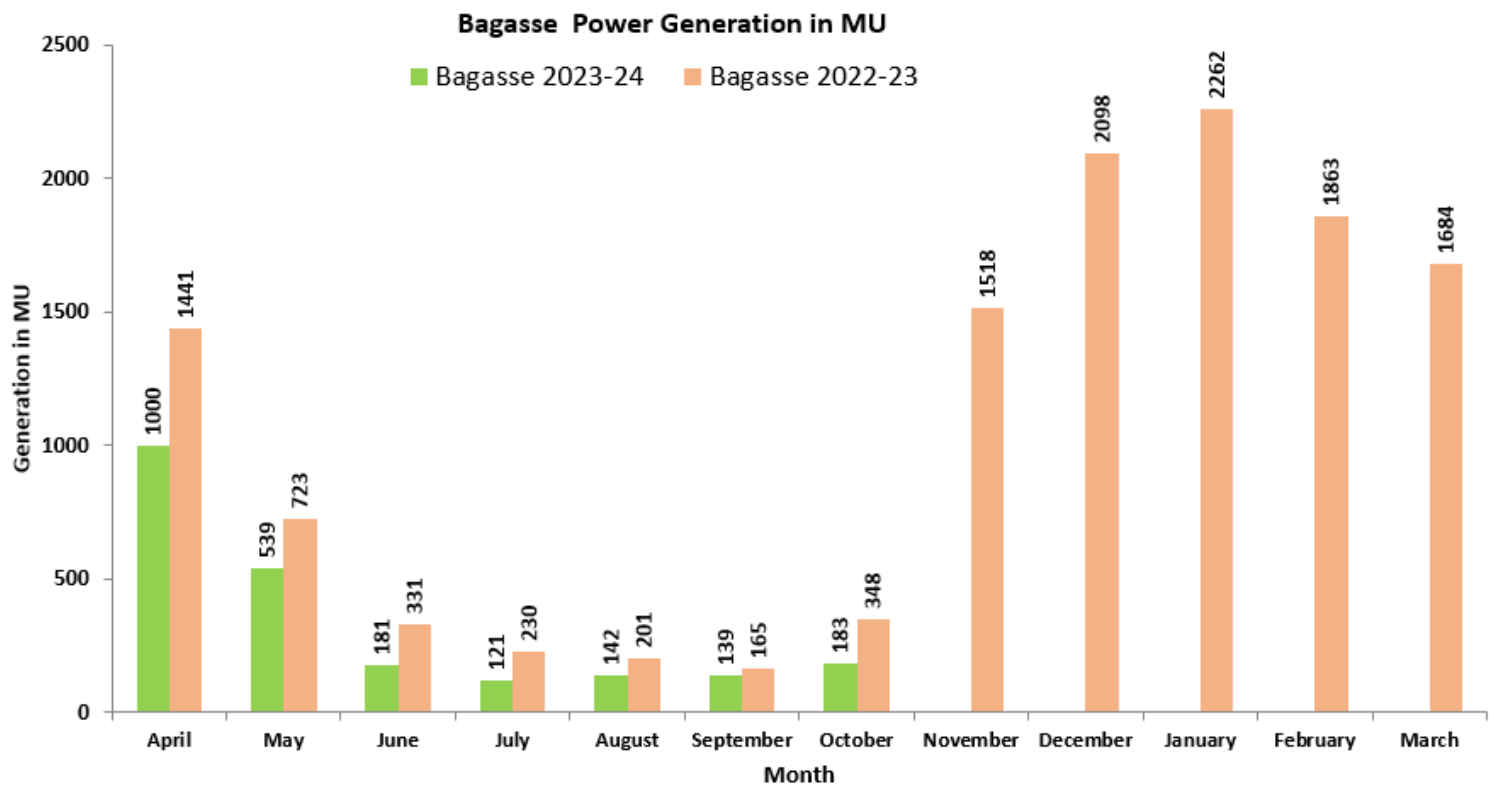


Figure 20: Month Wise Bagasse Power Generation for the year 2022-23 and year 2023-24.

Small Hydro Power Generation in MU

■ SHP 2023-24 ■ SHP 2022-23

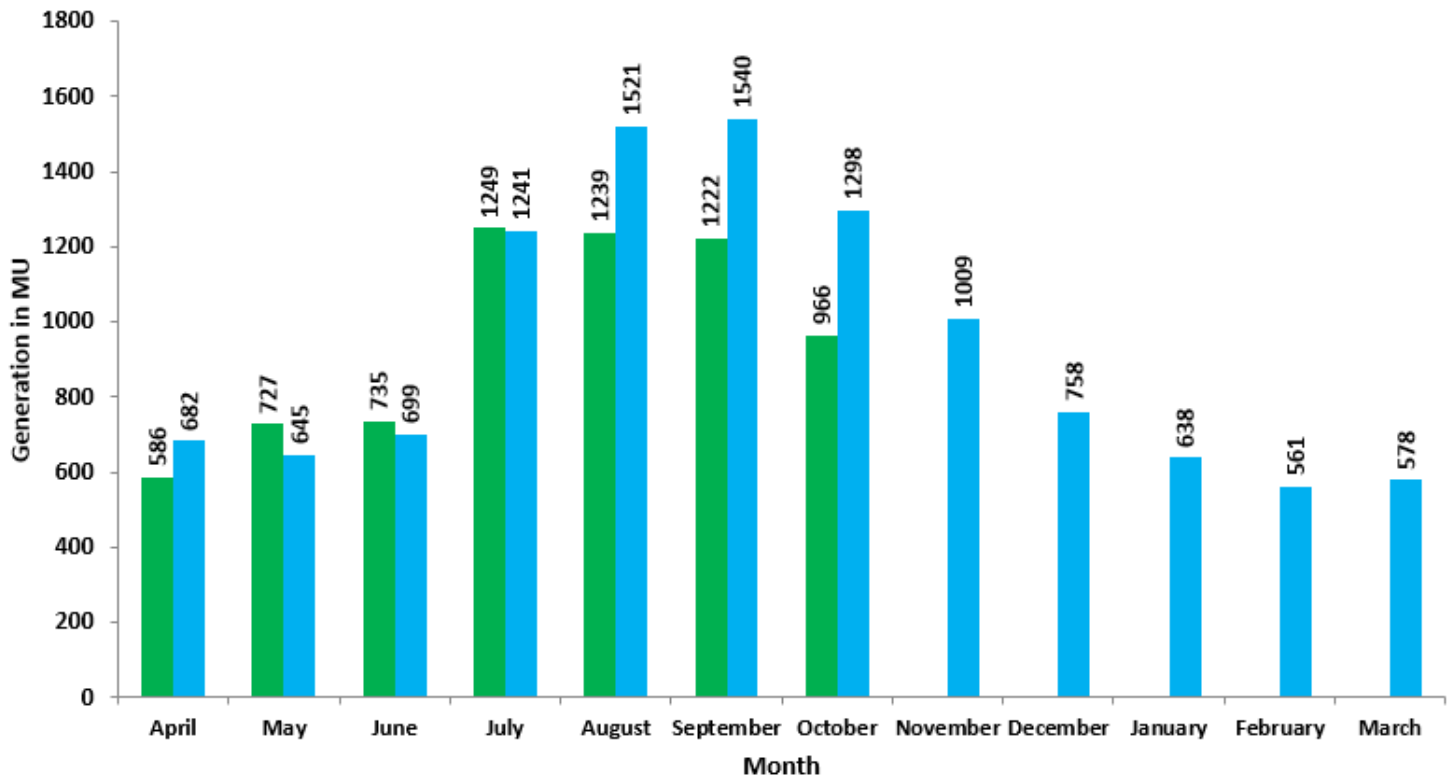


Figure 21: Month Wise Small Hydro Power Generation for the year 2022-23 and year 2023-24.

Large Hydro Power Generation MU

■ Large Hydro 2023-24 ■ Large Hydro 2022-23

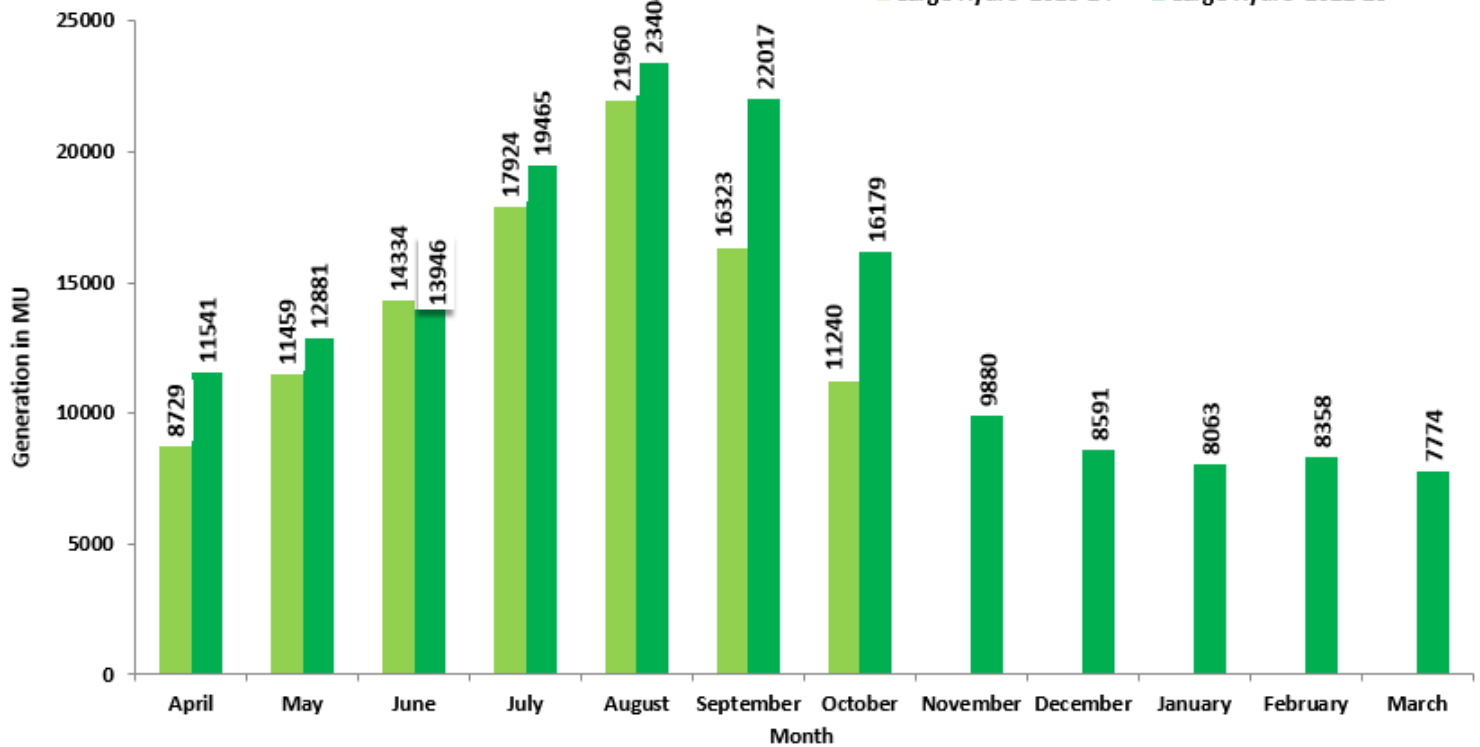


Figure 22: Month Wise Large Hydro Power Generation for the year 2022-23 and year 2023-24.

Power Generation from other RE sources in MU

■ Other 2023-24 ■ Other 2022-23

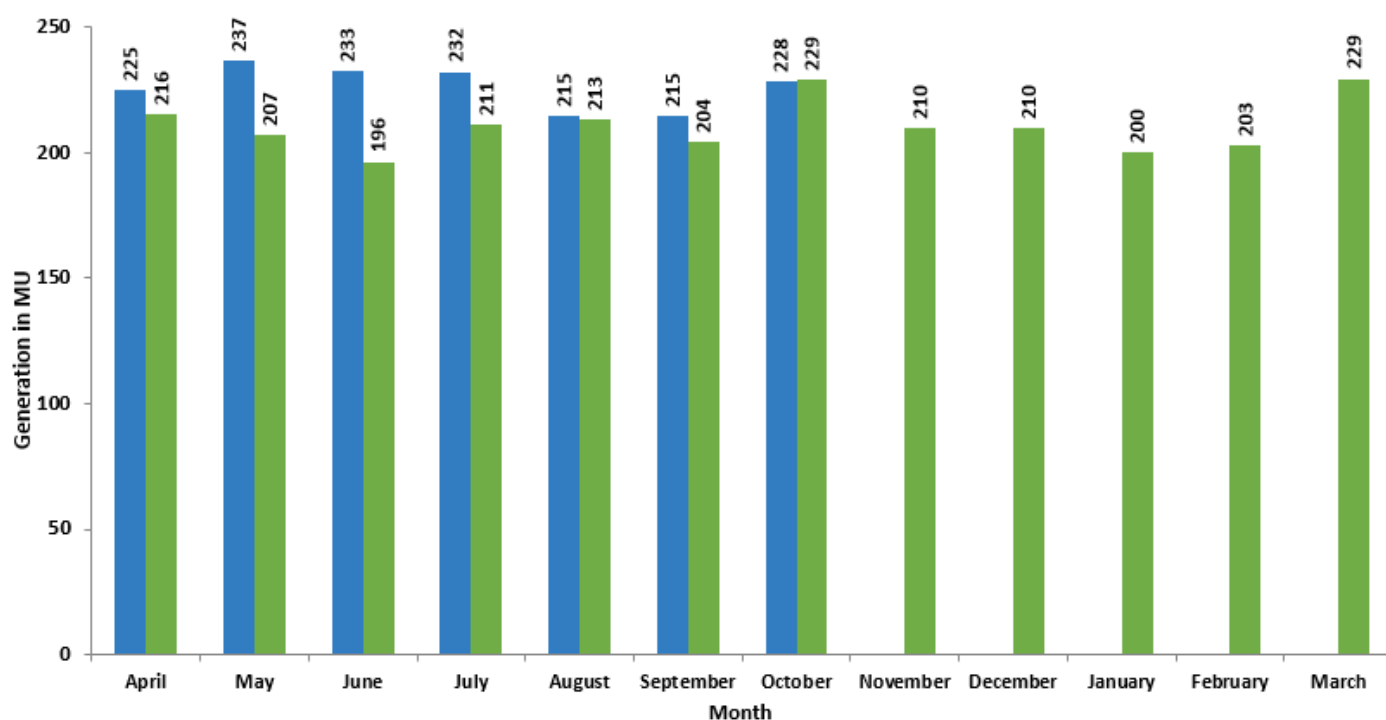


Figure 23: Month Wise Other RE (Waste Heat etc.) Power for the year 2022-23 and year 2023-24.

Year wise Generation of RE in MU

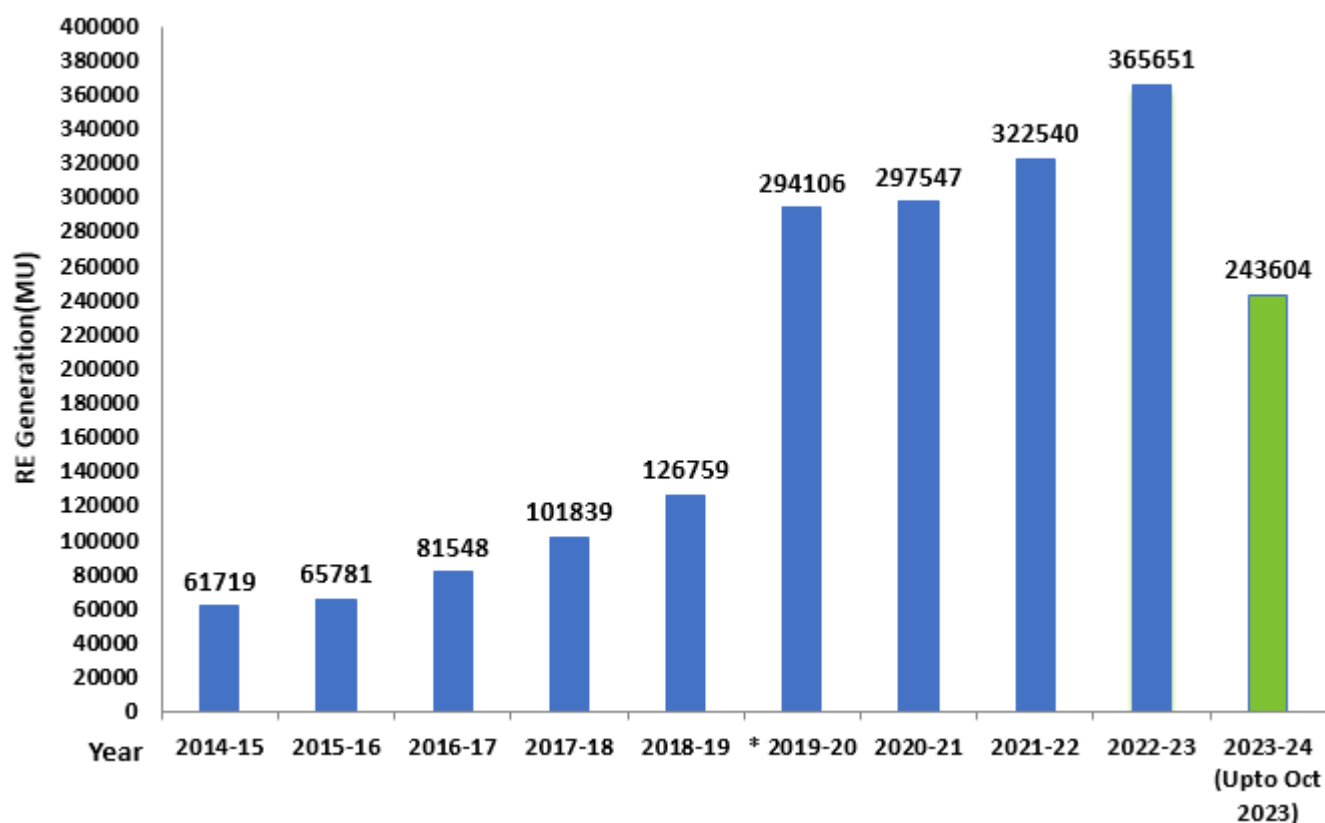


Figure 24: Year Wise RE Generation

(*) Note:- As per Ministry of Power's Order dated 8th March, 2019 large hydro power project (above 25MW) are also being considered as Renewable Energy Source.

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

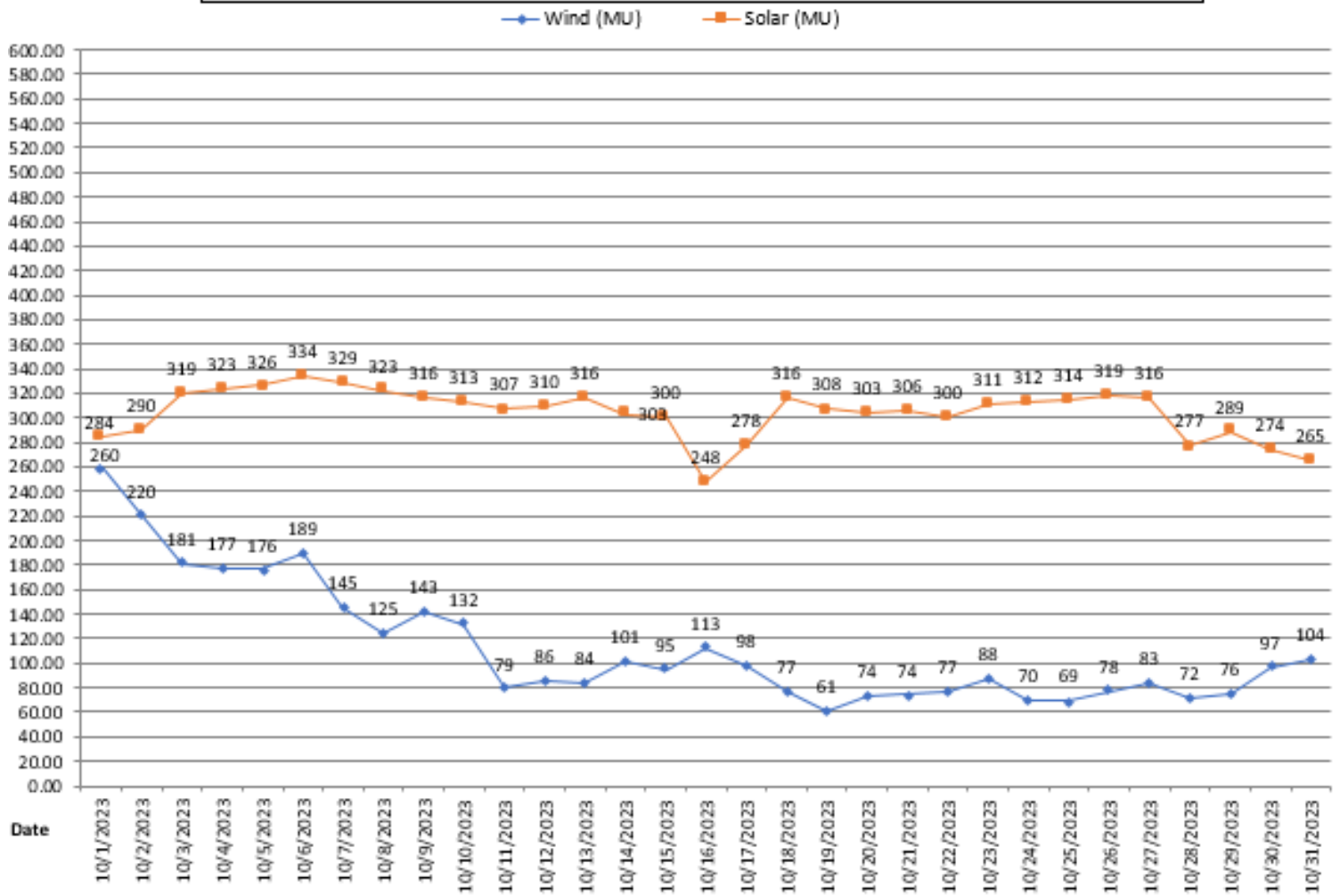


Figure 25: Daily solar and wind power generation trend in the month of October -2023

Summary of All India Total Renewable Energy Generation

Table 1 All India Summary of Renewable Energy Generation

Category	Installed Capacity (MW) (as on 31.10.2023)	Monitored Capacity (MW) (as on 31.10.2023) for which generation data is available	RE Generation (MU) October'2023	RE Generation (MU) October'2022	% of same Month Last Year	RE Generation (MU) April'2023- October'2023	RE Generation (MU) April'2022- October'2022	% of same period Last Year
पवन/Wind	44292.38	44140.01	3548.34	3421.80	103.70	61167.32	53046.72	115.31
सौर/Solar	72018.07	59301.54(*)	10219.75	8726.83	117.11	67904.13	56740.10	119.68
बायोमास/Biomass	10261.81	9545.39	266.66	215.18	123.93	1949.53	1735.90	112.31
बगास/Bagasse			183.16	348.19	52.60	2305.02	3439.11	67.02
लघु जल विद्युत्/ Small Hydro	4986.75	4047.44	965.61	1297.68	74.41	6724.37	7625.02	88.19
बृहत् जल विद्युत्/ Large Hydro(\$)	46850.17	46850.17	11240.45	16178.67	69.48	101969.38	119432.44	85.38
अन्य/Others	573.46	697.84	228.46	228.89	99.81	1584.20	1477.03	107.26
कुल/Total	178982.64	164582.39	26652.43	30417.24	87.62	243603.95	243496.32	100.04

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

(\$)

Large Hydro Generation data excludes import from Bhutan. However, the import from Bhutan during October 2023 and April 23 -October 23 are 809 MUs and 4644 MU respectively.

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

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Unchahar Solar	Uttar Pradesh	Central	Solar	1.20
Dadri Solar	Uttar Pradesh	Central	Solar	0.53
Singrauli Solar	Uttar Pradesh	Central	Solar	1.73
Auraiya	Uttar Pradesh	Central	Solar	6.02
Kolayat	Rajasthan	Central	Solar	86.05
Nokhra	Rajasthan	Central	Solar	59.05
Devikot	Rajasthan	Central	Solar	47.70
ABC Renewable Energy	Rajasthan	Private	Solar	66.33
Acme Chittorgarh Energy Pvt Ltd.	Rajasthan	Private	Solar	52.44
Acme Heergharh Powertech Pvt Ltd	Rajasthan	Private	Solar	62.40
Adani Hybrid Energy Jaisalmer Four Limited	Rajasthan	Private	Solar	148.32
Adani Hybrid Energy Jaisalmer One Limited	Rajasthan	Private	Solar	77.96
Adani Hybrid Energy Jaisalmer Three Limited	Rajasthan	Private	Solar	68.84
Adani Hybrid Energy Jaisalmer Two Limited	Rajasthan	Private	Solar	72.06
Adani Renewable Energy RJ Limited (RERJL)	Rajasthan	Private	Solar	41.70
Adani Jaisalmer One SEPL Solar	Rajasthan	Private	Solar	89.37
Adani SB Energy Four Pvt. Ltd.(SE4PL(Kilaj Solar))	Rajasthan	Private	Solar	10.38
M/S Adani Solar Energy Four PVT. LTD.L(Adani SEJ5PL)	Rajasthan	Private	Solar	41.23
Adani SB Energy Four Pvt. Ltd. (SERJ1PL)	Rajasthan	Private	Solar	62.55
Avaada Sunrays Energy Private Limited	Rajasthan	Private	Solar	69.83
Avaada RJHN Private Limited	Rajasthan	Private	Solar	46.76
Avaada Sunce Energy Private Limited	Rajasthan	Private	Solar	68.92
Avaada Sustainable RJ Project Private Ltd.	Rajasthan	Private	Solar	60.10

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Ayana Renewable Power One Private Limited	Rajasthan	Private	Solar	64.32
Azure Power Forty One Private Limited	Rajasthan	Private	Solar	61.36
Azure Power Forty Three Private Ltd	Rajasthan	Private	Solar	126.75
Azure Power India Pvt Ltd	Rajasthan	Private	Solar	34.90
Azure Power Maple Pvt Ltd	Rajasthan	Private	Solar	49.19
Azure Power Thirty Four Private Ltd	Rajasthan	Private	Solar	27.13
Clean Solar Power (Jodhpur) Pvt Ltd	Rajasthan	Private	Solar	53.50
Clean Solar Power (Bhadla) Pvt Ltd	Rajasthan	Private	Solar	64.84
Eden Renewable Cite Private Limited	Rajasthan	Private	Solar	64.90
M/S Adani Solar Energy Jodhpur Two Ltd	Rajasthan	Private	Solar	10.91
Mahindra Renewable Private Limited	Rajasthan	Private	Solar	51.98
Mega Surya Urja Pvt. Ltd	Rajasthan	Private	Solar	49.11
Nindan Solar Fatehgar	Rajasthan	Private	Solar	62.27
Renew Solar Energy (Jharkhand Three) Pvt Ltd	Rajasthan	Private	Solar	61.65
Renew Solar Power Pvt Ltd	Rajasthan	Private	Solar	10.54
Renew Solar Power Pvt Ltd. Bikaner	Rajasthan	Private	Solar	51.36
Renew Solar Urja Pvt Ltd	Rajasthan	Private	Solar	61.30
Renew Sun Bright Pvt Ltd	Rajasthan	Private	Solar	61.32
Renew Sun Waves Private Limited	Rajasthan	Private	Solar	61.46
Renew Surya Ravi Pvt Ltd	Rajasthan	Private	Solar	58.31
SBSR Power Cleantech Eleven Private Limited	Rajasthan	Private	Solar	53.50
Tata Power Green Energy Limited	Rajasthan	Private	Solar	42.59
Tata Power Renewable Energy Ltd	Rajasthan	Private	Solar	61.44
Tata Power Saurya 1	Rajasthan	Private	Solar	20.19
Thar Surya1 Private Limited	Rajasthan	Private	Solar	62.95
Adani Hybrid Energy Jaisalmer Four Limited	Rajasthan	Private	Wind	97.96

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Adani Hybrid Energy Jaisalmer One Limited	Rajasthan	Private	Wind	21.88
Adani Hybrid Energy Jaisalmer Three Limited	Rajasthan	Private	Wind	17.67
Adani Hybrid Energy Jaisalmer Two Limited	Rajasthan	Private	Wind	16.25
Adani Jaisalmer One SEPL Wind	Rajasthan	Private	Wind	24.69
Northern Region				2747.69
Arinsun Solar (Barsaitadesh)	Madhya Pradesh	Private	Solar	45.64
Mahindra Solar (Badwar)	Madhya Pradesh	Private	Solar	43.62
Masaya BWSPRA_KNDW	Madhya Pradesh	Private	Solar	39.59
Sherisha Raipur	Chhattisgarh	Private	Solar	8.62
Solapur Solar	Maharashtra	Central	Solar	1.47
Electro Solaire Private Limited (ESPL RSP Solar)	Gujarat	Private	Solar	45.54
Tata Power Renewable Energy Limited (TPREL RSP Solar)	Gujarat	Private	Solar	23.04
Gujarat Industries Power Company Limited (GIPCL RSP Solar)	Gujarat	Private	Solar	23.40
Powerica Wind	Gujarat	Private	Solar	4.49
NTPC Kawas	Gujarat	Central	Solar	6.58
Gujarat State Electricity Corporation Limited (GSECL)	Gujarat	Private	Solar	12.45
Gandhar_Solar	Gujarat	Private	Solar	3.21
GSECL RSP	Gujarat	Private	Solar	10.98
RPL_SECI-II	Gujarat	Private	Solar	25.76
AWEK1L WIND (RATADIYA)	Gujarat	Private	Wind	56.83
Adani Wind Energy Kutchh Four Limited (AWEK4L)	Gujarat	Private	Wind	23.28
Adani Wind Energy MP One Private Limited (AWEMP1PL)	Gujarat	Private	Wind	49.80
Alfnar Wind (Nanavalka)	Gujarat	Private	Wind	33.51
Green Infra Wind Energy Limited SECI-II (Giwel-II Wind (Vadva))	Gujarat	Private	Wind	25.26
Green Infra Wind Energy Limited SECI-III (Giwel-III Wind (Naranpar))	Gujarat	Private	Wind	30.16
Athena_RUM	Gujarat	Private	Wind	43.44
GSECL_PH2	Gujarat	Private	Wind	12.45

Station	State/ Region	Sector (Central/State/ Private)	Type	Generation (MU)
Ostro Kutch Wind Private Limited (OKWPL)	Gujarat	Private	Wind	33.52
Renew Wind Energy (AP2) Private Limited (Ghadsisa)	Gujarat	Private	Wind	35.54
Avikiran Solar India Private Limited (ASIPL), Baranda	Gujarat	Private	Wind	21.93
Apraava Khkrda Jam	Gujarat	Private	Wind	12.60
IGESL Dayapar	Gujarat	Private	Wind	26.74
Netra Kotda	Gujarat	Private	Wind	11.67
Torrent Sidpur Jam	Gujarat	Private	Wind	9.01
SITAC	Gujarat	Private	Wind	46.65
SRIJAN	Gujarat	Private	Wind	11.32
Western Region				778.10
TUTICORIN				
Beetam(Tuticorin)	Tamil Nadu	Private	Wind	18.97
GRTJIPL	Tamil Nadu	Private	Solar	24.66
Mytra	Tamil Nadu	Private	Wind	17.43
Orange	Tamil Nadu	Private	Wind	16.26
Green Infra	Tamil Nadu	Private	Wind	21.35
Hiriyur Ostro	Tamil Nadu	Private	Wind	43.59
Sprng Renewable Energy Pvt Ltd(Pugalur)	Tamil Nadu	Private	Wind	16.51
JSW Renew Energy Two Limited (Tuticorin)	Tamil Nadu	Private	Wind	28.44
Ettayapuram	Tamil Nadu	Central	Solar	38.45
Southern Region				225.66
All India Total				3751.45

Source: - 1.Generation from ISGS projects is prepared from block wise data received from RPCs.

2. Generation of ISGS generating stations is included in respective State in Renewable Energy Generation sheet according to physical location so their generation should not be considered additional generation

Table 3: Renewable Energy Generation(Excluding Large Hydro) by CPSU Owned stations

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) October'2023	RE Generation(MU) October'2022	RE Generation(MU) April 2023- October 2023	RE Generation(MU) April 2022- October 2022
NTPC							
Faridabad_Solar	Haryana	5.00	Solar	0.55	0.41	4.01	3.80
Bhadla	Rajasthan	260.00	Solar	36.50	40.12	256.62	259.96
Jetsar	Rajasthan	160.00	Solar	30.96	28.82	226.30	222.86
Fatehgarh	Rajasthan	296.00	Solar	62.99	67.89	455.73	392.29
Devikot	Rajasthan	240.00	Solar	48.28	0.00	338.74	0.00
Nokhra	Rajasthan	200.00	Solar	59.28	0.00	414.51	0.00
Dadri_Solar	Uttar Pradesh	5.00	Solar	0.49	0.40	3.69	3.73
Unchahar_Solar	Uttar Pradesh	10.00	Solar	1.22	1.19	8.38	8.35
Singrauli_Solar	Uttar Pradesh	15.00	Solar	1.78	1.63	12.33	12.07
Auraiya	Uttar Pradesh	40.00	Solar	6.03	5.32	43.80	25.94
Small Hydro Vindhyachal	Uttar Pradesh	8.00	Small Hydro	2.82	1.69	23.88	18.16
Rojmal	Gujarat	50.00	Wind	2.64	4.21	66.81	71.47
Rajgarh_Solar	Madhya Pradesh	50.00	Solar	6.50	6.71	40.00	42.76
Mandsaur	Madhya Pradesh	250.00	Solar	34.09	34.33	211.68	222.29
Solapur	Maharashtra	10.00	Solar	1.46	0.00	10.52	0.00
Anantapuram	Andhra Pradesh	250.00	Solar	29.70	30.71	222.35	218.51
Ramagundam	Telangana	110.00	Solar	19.32	17.40	122.71	92.74
Andaman Nicobar	Andaman Nicobar	5.00	Solar	0.68	0.39	3.02	3.01
Talchar_Solar	Orissa	10.00	Solar	0.98	1.14	7.18	7.70
Solar_Bilhaur	Uttar Pradesh	225.00	Solar	43.63	38.21	280.37	301.11
Simhadri Floating Project	Andhra Pradesh	25.00	Solar	4.21	3.72	31.91	28.44
Kayamkulam	Kerala	92.00	Solar	17.99	18.78	123.71	83.74
Kawas	Gujarat	56.00	Solar	6.61	8.50	53.13	30.41
Gandhar	Gujarat	10.00	Solar	3.22	1.35	17.16	2.44

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) October'2023	RE Generation(MU) October'2022	RE Generation(MU) April 2023- October 2023	RE Generation(MU) April 2022- October 2022
Shambu ki Burj-I	Rajasthan	250.00	Solar	52.67	51.00	371.01	137.02
Shambu ki Burj-II	Rajasthan	150.00	Solar	33.45	18.72	234.04	20.64
Ettayapuram	Tamil Nadu	230.00	Solar	38.26	0.00	291.72	0.00
Total NTPC		3012.00		546.31	382.64	3875.31	2209.44
THDC							
Patan Wind Power Project	Gujarat	50.00	Wind	2.41	2.40	50.16	54.01
Devbhumi Dwarka Wind Power Project	Gujarat	63.00	Wind	3.57	5.04	83.92	90.4
Solar Kasaragod	Kerala	50.00	Solar	8.24	8.73	52.98	48.69
Rishikesh office Premises	Uttar Pradesh	0.50	Solar	0.05	0.04	0.30	0.32
Dhukwan SHEP Jhansi,UP	Uttar Pradesh	24.00	Small Hydro	10.03	10.91	41.79	49.05
Total THDC		187.50		24.30	27.12	229.15	242.47
NHPC							
Wind Power Project	Rajasthan	50.00	Wind	5.23	3.06	38.58	55.77
Solar Power Project	Tamilnadu	50.00	Solar	7.43	6.94	41.09	53.47
Total NHPC		100.00		12.66	10.00	79.67	109.24
ONGC							
Bhuj	Gujarat	51.00	Wind	0.37	1.70	11.88	56.85
Jaisalmer	Rajasthan	102.00	Wind	9.79	4.95	75.79	100.36
Assam	Assam	1.00	Roof Top	0.00	0.12	0.15	0.75
Assam	Assam	10.00	Ground Mounted	0.02	0.12	1.59	0.84
Tripura	Tripura	5.00	Roof Top	0.00	0.48	0.72	3.02
Rajahmundry,Base Complex	Andhra Pradesh	5.00	Ground Mounted	0.01	0.09	0.84	0.55
Tati Paka, Rajahmundry	Andhra Pradesh	1.00	Ground Mounted	0.61	0.48	2.42	4.01

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) October'2023	RE Generation(MU) October'2022	RE Generation(MU) April 2023- October 2023	RE Generation(MU) April 2022- October 2022
Cauvery	Tamil Nadu	1.09	Ground Mounted	0.00	0.15	0.13	0.98
Vagara, Ankleshwar	Gujarat	5.00	Ground Mounted	0.78	0.69	3.54	5.05
Gujarat	Gujarat	4.23	Roof Top	0.00	0.00	0.48	0.00
Jodhpur	Rajasthan	1.65	Ground Mounted	0.00	0.00	0.15	0.00
Jaisalmer	Rajasthan	1.24	Ground Mounted	0.00	0.13	0.15	0.89
Uttarakhand	Uttarakhand	0.25	Roof Top	0.00	0.02	0.02	0.16
Goa	Goa	0.29	Ground Mounted	0.02	0.00	0.19	0.02
Hazira	Gujarat	0.27	Ground Mounted	0.00	0.01	0.01	0.05
Hazira	Gujarat	0.30	Ground Mounted	0.00	1.17	0.04	8.08
Mumbai (Uran & NBP Green Heights)	Maharashtra	0.06	Roof Top	0.00	0.03	0.01	0.18
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		11.60	10.15	98.14	181.79
SJVN Limited							
Khirvire Wind Power	Maharashtra	47.60	Wind	0.80	2.12	43.09	44.87
Sadla Wind Power	Gujarat	50.00	Wind	3.41	3.69	73.25	65.61
Charanka Solar Power	Gujarat	5.60	Solar	0.84	0.81	4.89	4.62
Wadhal Solar Power Project	Gujarat	1.00	Solar	0.12	0.11	0.64	0.88
Parasan Solar Power	Gujarat	75.00	Solar	14.19	0.00	96.02	0.00
Total SJVN		179.20		19.36	6.74	217.89	115.98

Name of CPSU	Name of State	Installed Capacity (MW)	Source	RE Generation(MU) October'2023	RE Generation(MU) October'2022	RE Generation(MU) April 2023- October 2023	RE Generation(MU) April 2022- October 2022
Oil India Ltd							
Oil India Ltd	Rajasthan	14.00	Solar	2.02	2.16	12.72	14.53
Oil India Ltd	Rajasthan	67.60	Wind	3.02	3.60	39.35	59.24
Oil India Ltd	Gujarat	43.30	Wind	3.35	5.17	51.56	61.24
Oil India Ltd	Madhya Pradesh	63.20	Wind	3.53	4.81	57.84	70.90
Total Oil India Ltd		188.10		11.91	15.74	161.47	205.91
NEEPCO							
NEEPCO	Tripura	5.00	Solar	0.51	0.64	2.22	3.75
NEEPCO	Assam	25.00	Small Hydro	18.44	0.00	72.35	0.00
NEEPCO Total		30.00		18.95	0.64	74.57	3.75
DVC							
DVC	West Bangal	0.08	Solar	0.01	0.01	0.03	0.05
DVC	Jharkhand	4.00	Small Hydro	0.00	0.01	0.00	0.01
Total DVC		4.08		0.01	0.02	0.04	0.06
All India Total		3891.64		645.10	453.06	4736.24	3068.65

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 October 2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Northern Region					
ABC RENEWABLE ENERGY	Solar	66.43	66.33	-0.10	-0.15
Acme Heergharh Powertech Pvt Ltd	Solar	61.04	62.40	1.36	2.23
Acme Chittorgarh Energy Pvt Ltd.	Solar	51.08	52.44	1.35	2.65
Adani Hybrid Energy Jaisalmer One Limited	Solar	104.33	99.84	-4.49	-4.30
Adani Hybrid Energy Jaisalmer Four Limited	Solar	248.25	246.28	-1.97	-0.79
Adani Hybrid Energy Jaisalmer Three Limited	Solar	92.47	86.51	-5.96	-6.44
Adani Hybrid Energy Jaisalmer Two Limited	Solar	90.91	88.31	-2.60	-2.86
Adani Renewable Energy RJ Limited (RERJL)	Solar	39.33	41.70	2.37	6.03
Adani Jaisalmer One SEPL Solar	Solar	120.10	114.06	-6.04	-5.03
M/S Adani Solar Energy Jodhpur Two Ltd	Solar	10.59	10.91	0.32	3.03
Adani SB Energy Four Pvt. Ltd.(SE4PL(Kilaj Solar))	Solar	10.09	10.38	0.30	2.93
ADANI SEJ2PL	Solar	42.47	43.87	1.40	3.29
ADANI SEJ2PL M	Solar	9.26	8.88	-0.38	-4.07
ADANI SEJ2PL P	Solar	7.48	8.18	0.70	9.40
Adani SEJ5PL	Solar	40.71	41.23	0.52	1.29
Adani SERJ1PL	Solar	64.26	62.55	-1.71	-2.66
AURAIYA SOLAR	Solar	6.44	6.02	-0.42	-6.52
Avaada RJHN Private Limited	Solar	48.97	46.76	-2.21	-4.51
Avaada Sunce Energy Private Limited	Solar	72.39	68.92	-3.47	-4.80
Avaada Sunrays Energy Private Limited	Solar	70.54	69.83	-0.71	-1.00
Avaada Sustainable RJ Project Private Ltd.	Solar	62.16	60.10	-2.06	-3.32

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of October 2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Ayana Renewable Power One Private Limited	Solar	63.26	64.32	1.07	1.69
Azure Power Forty One Private Limited	Solar	59.53	61.36	1.83	3.07
Azure Power Forty Three Private Ltd	Solar	125.23	126.75	1.52	1.21
Azure Power Maple Pvt Ltd	Solar	50.47	49.19	-1.28	-2.53
Azure Power Thirty Four Private Ltd	Solar	26.18	27.13	0.96	3.66
Azure Power India Pvt Ltd	Solar	34.02	34.90	0.88	2.58
Clean Solar Power (Jodhpur) Pvt Ltd	Solar	52.96	53.50	0.54	1.02
Clean Solar Power (Bhadla) Pvt Ltd	Solar	64.97	64.84	-0.13	-0.20
DADRI SOLAR	Solar	0.64	0.53	-0.11	-16.97
DEVIKOT SOLAR	Solar	47.63	47.70	0.06	0.14
Eden Renewable Cite Private Limited	Solar	64.97	64.90	-0.07	-0.10
KOLYAT SOLAR BIKANER	Solar	83.46	86.05	2.60	3.11
Mahindra Renewable Private Limited	Solar	51.93	51.98	0.05	0.09
Mega Surya Urja Pvt. Ltd	Solar	47.83	49.11	1.28	2.68
Nindan Solar Fatehgar	Solar	61.72	62.27	0.54	0.88
Nokhra Solar	Solar	62.20	59.05	-3.14	-5.05
Renew Solar Energy (Jharkhand Three) Pvt Ltd	Solar	62.43	61.65	-0.78	-1.25
Renew Solar Power Pvt Ltd	Solar	10.40	10.54	0.14	1.34
Renew Solar Urja Pvt Ltd	Solar	59.98	61.30	1.32	2.20
Renew Sun Bright Pvt Ltd	Solar	60.87	61.32	0.45	0.74
Renew Sun Waves Private Limited	Solar	62.12	61.46	-0.66	-1.06
Renew Surya Ravi Pvt Ltd	Solar	59.17	58.31	-0.86	-1.45
Renew Solar Power Pvt Ltd. Bikaner	Solar	0.00	0.24	0.24	
SBSR Power Cleantech Eleven Private Limited	Solar	50.74	51.36	0.62	1.23
SINGRAULI SOLAR	Solar	1.95	1.73	-0.22	-11.25
Tata Power Green Energy Limited	Solar	44.28	42.59	-1.69	-3.83

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of October 2023					
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.	% Deviation of Schedule
Tata Power Renewable Energy Ltd	Solar	62.54	61.44	-1.10	-1.75
Thar Surya1 Private Limited	Solar	61.74	62.95	1.21	1.96
Tata Power Saurya	Solar	20.93	20.19	-0.75	-3.56
Unchahar Solar	Solar	0.98	1.20	0.22	22.81
Total Northern Region		2774.41	2755.38		
Western Region					
Arinsun Solar (Barsaitadesh)	Solar	44.77	45.64	0.87	1.94
Mahindra Solar (Badwar)	Solar	43.16	43.62	0.46	1.07
Masaya BWSPRA_KNDW	Solar	41.36	39.59	-1.77	-4.28
Sherisha Raipur	Solar	8.97	8.62	-0.35	-3.90
Solarpur Solar	Solar	1.52	1.47	-0.05	-3.29
Electro Solaire Private Limited (ESPL RSP Solar)	Solar	44.54	45.54	1.00	2.25
Tata Power Renewable Energy Limited (TPREL RSP Solar)	Solar	22.29	23.04	0.75	3.36
Gujarat Industries Power Company Limited (GIPCL RSP Solar)	Solar	22.46	23.40	0.94	4.19
Powerica Wind	Solar	6.42	4.49	-1.93	-30.06
NTPC Kawas	Solar	7.29	6.58	-0.71	-9.74
Gujarat State Electricity Corporation Limited (GSECL)	Solar	14.07	12.45	-1.62	-11.51
GSECL RSP	Solar	10.12	10.98	0.86	8.50
RPL_SECI-II	Solar	35.32	25.76	-9.56	-27.07
Gandhar_Solar	Solar	3.28	3.21	-0.07	-2.13
AWEK1L	Wind	80.83	56.83	-24.00	-29.69
Adani Wind Energy Kutchh Four Limited (AWEK4L)	Wind	26.77	23.28	-3.49	-13.04
Adani Wind Energy MP One Private Limited (AWEMP1PL)	Wind	60.01	49.80	-10.21	-17.01
Alfnar Wind (Nanavalka)	Wind	42.31	33.51	-8.80	-20.80
Green Infra Wind Energy Limited SECI-II (Giwel-II Wind (Vadva))	Wind	34.34	25.26	-9.08	-26.44

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of October 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	39.30	30.16	-9.14	-23.26
Athena_RUM	Wind	43.10	43.44	0.34	0.79
Ostro Kutch Wind Private Limited (OKWPL)	Wind	46.29	33.52	-12.77	-27.59
Renew Wind Energy (AP2) Private Limited (Ghadsisa)	Wind	45.95	35.54	-10.41	-22.66
Avikiran Solar India Private Limited (ASIPL), Baranda	Wind	27.77	21.93	-5.84	-21.03
Apraava Khkrda Jam	Wind	17.10	12.60	-4.50	-26.32
IGESL Dayapar	Wind	42.08	26.74	-15.34	-36.45
Netra Kotda	Wind	15.79	11.67	-4.12	-26.09
Torrent Sidpur Jam	Wind	14.18	9.01	-5.17	-36.46
SRIJAN_MORJAR	Wind	16.85	11.32	-5.53	-32.82
SITAC_CHUGGER	Wind	53.93	46.65	-7.28	-13.50
Total Western Region		912.17	765.65		
Southern Region					
Beetam(Tuticorin)	Wind	30.85	18.97	-11.88	-38.51
GIREL	Wind	34.94	21.35	-13.59	-38.90
Mytra	Wind	32.90	17.43	-15.47	-47.02
Orange	Wind	28.61	16.26	-12.35	-43.17
Sprng Renewable Energy Pvt Ltd(Pugalur)	Wind	35.49	16.51	-18.98	-53.48
GRTJIPL	Wind	27.00	24.66	-2.34	-8.67
JSW Renew Energy Two Limited (Tuticorin)	Wind	37.36	28.44	-8.92	-23.88
Ostro Hiriyur	Wind	55.49	43.59	-11.90	-21.45
NTPC-Ettayapuram,(Solar PV), Tuticorin	Solar	42.00	38.45	-3.55	-8.45
Total Southern Region		324.64	225.66		

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 October 2023

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Month of October 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	1.19	1.19	1.19	100.00
Delhi	0.00	482.31	0.00	0.00	61.21	61.21	543.52	11.26
Haryana	2675.13	18.17	0.00	0.00	166.17	166.17	2859.47	5.81
HP	0.00	0.00	0.00	2481.27	231.24	2712.51	2712.51	100.00
J & K	0.00	0.00	0.00	984.20	24.85	1009.05	1009.05	100.00
Ladakh	0.00	0.00	0.00	29.59	0.00	29.59	29.59	100.00
Punjab	2835.92	0.00	0.00	355.00	408.49	763.49	3599.41	21.21
Rajasthan	5420.58	140.80	440.04	70.50	3905.20	4415.74	9977.12	44.26
Uttar Pradesh	12720.37	219.55	268.67	98.47	406.93	774.07	13713.99	5.64
Uttarakhand	0.00	0.00	0.00	1088.32	77.81	1166.13	1166.13	100.00
Northern Region Total	23652.00	860.83	708.71	5107.35	5283.09	11099.15	35611.98	31.17
WESTERN REGION								
Chhattisgarh	14235.59	0.00	0.00	58.35	226.18	284.53	14520.12	1.96
Gujarat	8232.23	987.41	844.70	609.01	2137.77	3591.48	12811.12	28.03
Madhya Pradesh	12852.50	0.00	0.00	705.20	649.61	1354.81	14207.31	9.54
Maharashtra	11390.09	337.18	803.42	533.22	932.44	2269.08	13996.35	16.21
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	2.57	2.57	2.57	100.00
Goa	0.00	0.00	0.00	0.00	5.44	5.44	5.44	100.00
Western Region Total	46710.41	1324.59	1648.12	1905.78	3954.00	7507.90	55542.90	13.52
SOUTHERN REGION								
Andhra Pradesh	6439.77	0.00	0.00	126.98	1101.61	1228.59	7668.36	16.02

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Month of October 2023

State/UT	Fossil =((1)+(2))		Non Fossil =((3)+(4)+(5))			Total Non-Fossil (6)=((3)+((4)+(5)))	Grand Total (7)=((1)+(2)+(3)+(4)+(5))	Non Fossil as % of Total Generation
	Thermal (1)	Gas (2)	Nuclear (3)	Large Hydro (4)	Renewable (Excluding Large Hydro) (5)			
Telangana	5092.35	0.00	0.00	160.00	680.68	840.68	5933.03	14.17
Karnataka	4187.93	0.00	533.71	865.34	2123.70	3522.75	7710.68	45.69
Kerala	0.00	0.00	0.00	426.60	206.53	633.13	633.13	100.00
Tamil Nadu	6415.44	161.87	1603.00	388.63	1667.43	3659.06	10236.37	35.75
Lakshadweep	0.00	5.14	0.00	0.00	0.01	0.01	5.15	0.15
Puducherry	0.00	19.94	0.00	0.00	1.02	1.02	20.96	4.87
Southern Region Total	22135.49	186.95	2136.71	1967.55	5780.97	9885.23	32207.67	30.69
EASTERN REGION								
Andaman Nicobar	27.42	0.00	0.00	0.00	3.32	3.32	30.74	10.80
Bihar	4828.03	0.00	0.00	0.00	21.57	21.57	4849.60	0.44
Jharkhand	2987.28	0.00	0.00	76.20	1.47	77.67	3064.95	2.53
Orissa	5842.68	0.00	0.00	835.74	135.91	971.65	6814.33	14.26
Sikkim	0.00	0.00	0.00	352.30	1.03	353.33	353.33	100.00
West Bengal	7365.47	0.00	0.00	250.91	170.03	420.94	7786.41	5.41
Eastern Region Total	21050.88	0.00	0.00	1515.15	333.34	1848.49	22899.37	8.07
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	448.22	0.24	448.46	448.46	100.00
Assam	476.99	301.22	0.00	125.33	33.84	159.17	937.38	16.98
Manipur	0.00	0.00	0.00	50.43	0.64	51.07	51.07	100.00
Meghalaya	0.00	0.00	0.00	82.88	7.03	89.91	89.91	100.00
Mizoram	0.00	0.00	0.00	21.14	8.26	29.40	29.40	100.00
Nagaland	0.00	0.00	0.00	16.62	10.05	26.67	26.67	100.00
Tripura	0.00	559.28	0.00	0.00	0.51	0.51	559.79	0.09
North Eastern Region Total	476.99	860.50	0.00	744.62	60.58	805.20	2142.69	37.58
All India Total	114025.77	3232.87	4493.54	11240.45	15411.98	31145.97	148404.61	20.99

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

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Period of April-October 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	8.73	8.73	8.73	100.00
Delhi	0.00	2395.27	0.00	0.00	409.66	409.66	2804.93	14.61
Haryana	17296.76	137.28	0.00	0.00	908.76	908.76	18342.80	4.95
HP	0.00	0.00	0.00	29199.41	2108.66	31308.07	31308.07	100.00
J & K	0.00	0.00	0.00	12899.56	310.33	13209.89	13209.89	100.00
Ladakh	0.00	0.00	0.00	307.32	0.00	307.32	307.32	100.00
Punjab	19716.17	0.00	0.00	3214.53	3084.07	6298.60	26014.77	24.21
Rajasthan	34431.76	903.25	4023.04	363.07	29190.67	33576.78	68911.79	48.72
Uttar Pradesh	92640.79	1466.52	2021.12	606.99	3232.73	5860.84	99968.15	5.86
Uttarakhand	0.00	294.81	0.00	10317.53	544.67	10862.20	11157.01	97.36
Northern Region Total	164085.48	5197.13	6044.16	56908.41	39798.28	102750.85	272033.46	37.77
WESTERN REGION								
Chhattisgarh	94098.18	0.00	0.00	243.84	1400.89	1644.73	95742.91	1.72
Gujarat	43434.78	5760.14	3922.52	3207.28	24022.74	31152.54	80347.46	38.77
Madhya Pradesh	84449.31	0.00	0.00	4505.03	5907.99	10413.02	94862.33	10.98
Maharashtra	76642.43	2163.26	4976.21	3810.12	10742.69	19529.02	98334.71	19.86
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	16.15	16.15	16.15	100.00
Goa	0.00	0.00	0.00	0.00	40.77	40.77	40.77	100.00
Western Region Total	298624.70	7923.40	8898.73	11766.27	42131.22	62796.22	369344.32	17.00
SOUTHERN REGION								
Andhra Pradesh	42244.93	0.00	0.00	869.00	11604.69	12473.69	54718.62	22.80
Telangana	31970.37	0.00	0.00	921.26	4307.73	5228.99	37199.36	14.06
Karnataka	24922.67	0.00	4282.20	6432.36	18464.98	29179.54	54102.21	53.93
Kerala	0.00	0.00	0.00	3225.72	1368.73	4594.45	4594.45	100.00

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Period of April-October 2023								
State/UT	Fossil		Non Fossil			Total Non Fossil (6)=((3)+(4)+(5))	Grand Total (7)=((1)+(2)+(3) + (4)+(5))	Non Fossil as % of Total Generation
	Thermal (1)	Gas (2)	Nuclear (3)	Large Hydro (4)	Renewable (Excluding Large Hydro) (5)			
Tamil Nadu	41999.09	1174.30	8336.97	2335.28	21452.09	32124.34	75297.73	42.66
Lakshadweep	37.29	0.00	0.00	0.00	0.05	0.05	37.34	0.14
Puducherry	0.00	144.93	0.00	0.00	7.14	7.14	152.07	4.70
Southern Region Total	141174.35	1319.23	12619.17	13783.62	57205.40	83608.19	226101.77	36.98
EASTERN REGION								
Andaman Nicobar	195.27	0.00	0.00	0.00	20.16	20.16	215.43	9.36
Bihar	34491.54	0.00	0.00	0.00	152.37	152.37	34643.91	0.44
Jharkhand	20572.65	0.00	0.00	145.56	10.29	155.85	20728.50	0.75
Orissa	36917.55	0.00	0.00	4247.14	786.57	5033.71	41951.26	12.00
Sikkim	0.00	0.00	0.00	8311.33	7.22	8318.55	8318.55	100.00
West Bengal	52111.05	0.00	0.00	2048.59	1123.53	3172.12	55283.17	5.74
Eastern Region Total	144288.06	0.00	0.00	14752.62	2100.12	16852.74	161140.80	10.46
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	3327.28	1.72	3329.00	3329.00	100.00
Assam	3114.27	2007.65	0.00	409.23	229.62	638.85	5760.77	11.09
Manipur	0.00	0.00	0.00	183.55	5.79	189.34	189.34	100.00
Meghalaya	0.00	0.00	0.00	629.71	39.54	669.25	669.25	100.00
Mizoram	0.00	0.00	0.00	65.53	57.82	123.35	123.35	100.00
Nagaland	0.00	0.00	0.00	143.15	62.03	205.18	205.18	100.00
Tripura	0.00	3894.77	0.00	0.00	3.04	3.04	3897.81	0.08
North Eastern Region Total	3114.27	5902.42	0.00	4758.45	399.56	5158.01	14174.70	36.39
All India Total	751286.86	20342.18	27562.06	101969.37	141634.58	271166.01	1042795.05	26.00

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

Renewable Energy (State Wise) Generation(MU) for the Month of October 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	1.19	1.19	1.19	100.00
Delhi	0.00	482.31	0.00	0.00	61.21	61.21	543.52	11.26
Haryana	2675.13	18.17	0.00	0.00	166.17	166.17	2859.47	5.81
HP	0.00	0.00	0.00	2481.27	231.24	2712.51	2712.51	100.00
J & K	0.00	0.00	0.00	984.20	24.85	1009.05	1009.05	100.00
Ladakh	0.00	0.00	0.00	29.59	0.00	29.59	29.59	100.00
Punjab	2835.92	0.00	0.00	355.00	408.49	763.49	3599.41	21.21
Rajasthan	5420.58	140.80	440.04	70.50	3905.20	3975.70	9977.12	39.85
Uttar Pradesh	12720.37	219.55	268.67	98.47	406.93	505.40	13713.99	3.69
Uttarakhand	0.00	0.00	0.00	1088.32	77.81	1166.13	1166.13	100.00
Northern Region Total	23652.00	860.83	708.71	5107.35	5283.09	10390.44	35611.98	29.18
WESTERN REGION								
Chhattisgarh	14235.59	0.00	0.00	58.35	226.18	284.53	14520.12	1.96
Gujarat	8232.23	987.41	844.70	609.01	2137.77	2746.78	12811.12	21.44
Madhya Pradesh	12852.50	0.00	0.00	705.20	649.61	1354.81	14207.31	9.54
Maharashtra	11390.09	337.18	803.42	533.22	932.44	1465.66	13996.35	10.47
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	2.57	2.57	2.57	100.00
Goa	0.00	0.00	0.00	0.00	5.44	5.44	5.44	100.00
Western Region Total	46710.41	1324.59	1648.12	1905.78	3954.00	5859.78	55542.90	10.55
SOUTHERN REGION								
Andhra Pradesh	6439.77	0.00	0.00	126.98	1101.61	1228.59	7668.36	16.02
Telangana	5092.35	0.00	0.00	160.00	680.68	840.68	5933.03	14.17
Karnataka	4187.93	0.00	533.71	865.34	2123.70	2989.04	7710.68	38.76

Renewable Energy (State Wise) Generation(MU) for the Month of October 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	426.60	206.53	633.13	633.13	100.00
Tamil Nadu	6415.44	161.87	1603.00	388.63	1667.43	2056.06	10236.37	20.09
Lakshadweep	0.00	5.14	0.00	0.00	0.01	0.01	5.15	0.15
Puducherry	0.00	19.94	0.00	0.00	1.02	1.02	20.96	4.87
Southern Region Total	22135.49	186.95	2136.71	1967.55	5780.97	7748.52	32207.67	24.06
EASTERN REGION								
Andaman Nicobar	27.42	0.00	0.00	0.00	3.32	3.32	30.74	10.80
Bihar	4828.03	0.00	0.00	0.00	21.57	21.57	4849.60	0.44
Jharkhand	2987.28	0.00	0.00	76.20	1.47	77.67	3064.95	2.53
Orissa	5842.68	0.00	0.00	835.74	135.91	971.65	6814.33	14.26
Sikkim	0.00	0.00	0.00	352.30	1.03	353.33	353.33	100.00
West Bengal	7365.47	0.00	0.00	250.91	170.03	420.94	7786.41	5.41
Eastern Region Total	21050.88	0.00	0.00	1515.15	333.34	1848.49	22899.37	8.07
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	448.22	0.24	448.46	448.46	100.00
Assam	476.99	301.22	0.00	125.33	33.84	159.17	937.38	16.98
Manipur	0.00	0.00	0.00	50.43	0.64	51.07	51.07	100.00
Meghalaya	0.00	0.00	0.00	82.88	7.03	89.91	89.91	100.00
Mizoram	0.00	0.00	0.00	21.14	8.26	29.40	29.40	100.00
Nagaland	0.00	0.00	0.00	16.62	10.05	26.67	26.67	100.00
Tripura	0.00	559.28	0.00	0.00	0.51	0.51	559.79	0.09
North Eastern Region Total	476.99	860.50	0.00	744.62	60.58	805.20	2142.69	37.58
All India Total	114025.77	3232.87	4493.54	11240.45	15411.98	26652.43	148404.61	17.96

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

Renewable Energy (State Wise Generation(MU) for the Period of April-October 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	8.73	8.73	8.73	100.00
Delhi	0.00	2395.27	0.00	0.00	409.66	409.66	2804.93	14.61
Haryana	17296.76	137.28	0.00	0.00	908.76	908.76	18342.80	4.95
HP	0.00	0.00	0.00	29199.41	2108.66	31308.07	31308.07	100.00
J & K	0.00	0.00	0.00	12899.56	310.33	13209.89	13209.89	100.00
Ladakh	0.00	0.00	0.00	307.32	0.00	307.32	307.32	100.00
Punjab	19716.17	0.00	0.00	3214.53	3084.07	6298.60	26014.77	24.21
Rajasthan	34431.76	903.25	4023.04	363.07	29190.67	29553.74	68911.79	42.89
Uttar Pradesh	92640.79	1466.52	2021.12	606.99	3232.73	3839.72	99968.15	3.84
Uttarakhand	0.00	294.81	0.00	10317.53	544.67	10862.20	11157.01	97.36
Northern Region Total	164085.48	5197.13	6044.16	56908.41	39798.28	96706.69	272033.46	35.55
WESTERN REGION								
Chhattisgarh	94098.18	0.00	0.00	243.84	1400.89	1644.73	95742.91	1.72
Gujarat	43434.78	5760.14	3922.52	3207.28	24022.74	27230.02	80347.46	33.89
Madhya Pradesh	84449.31	0.00	0.00	4505.03	5907.99	10413.02	94862.33	10.98
Maharashtra	76642.43	2163.26	4976.21	3810.12	10742.69	14552.81	98334.71	14.80
Daman and Diu Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	16.15	16.15	16.15	100.00
Goa	0.00	0.00	0.00	0.00	40.77	40.77	40.77	100.00
Western Region Total	298624.70	7923.40	8898.73	11766.27	42131.22	53897.49	369344.32	14.59
SOUTHERN REGION								
Andhra Pradesh	42244.93	0.00	0.00	869.00	11604.69	12473.69	54718.62	22.80
Telangana	31970.37	0.00	0.00	921.26	4307.73	5228.99	37199.36	14.06
Karnataka	24922.67	0.00	4282.20	6432.36	18464.98	24897.34	54102.21	46.02

Renewable Energy (State Wise Generation(MU) for the Period of April-October 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	3225.72	1368.73	4594.45	4594.45	100.00
Tamil Nadu	41999.09	1174.30	8336.97	2335.28	21452.09	23787.37	75297.73	31.59
Lakshadweep	37.29	0.00	0.00	0.00	0.05	0.05	37.34	0.14
Puducherry	0.00	144.93	0.00	0.00	7.14	7.14	152.07	4.70
Southern Region Total	141174.35	1319.23	12619.17	13783.62	57205.40	70989.02	226101.77	31.40
EASTERN REGION								
Andaman Nicobar	195.27	0.00	0.00	0.00	20.16	20.16	215.43	9.36
Bihar	34491.54	0.00	0.00	0.00	152.37	152.37	34643.91	0.44
Jharkhand	20572.65	0.00	0.00	145.56	10.29	155.85	20728.50	0.75
Orissa	36917.55	0.00	0.00	4247.14	786.57	5033.71	41951.26	12.00
Sikkim	0.00	0.00	0.00	8311.33	7.22	8318.55	8318.55	100.00
West Bengal	52111.05	0.00	0.00	2048.59	1123.53	3172.12	55283.17	5.74
Eastern Region Total	144288.06	0.00	0.00	14752.62	2100.12	16852.74	161140.80	10.46
NORTH-EASTERN REGION								
Arunachal Pradesh	0.00	0.00	0.00	3327.28	1.72	3329.00	3329.00	100.00
Assam	3114.27	2007.65	0.00	409.23	229.62	638.85	5760.77	11.09
Manipur	0.00	0.00	0.00	183.55	5.79	189.34	189.34	100.00
Meghalaya	0.00	0.00	0.00	629.71	39.54	669.25	669.25	100.00
Mizoram	0.00	0.00	0.00	65.53	57.82	123.35	123.35	100.00
Nagaland	0.00	0.00	0.00	143.15	62.03	205.18	205.18	100.00
Tripura	0.00	3894.77	0.00	0.00	3.04	3.04	3897.81	0.08
North Eastern Region Total	3114.27	5902.42	0.00	4758.45	399.56	5158.01	14174.70	36.39
All India Total	751286.86	20342.18	27562.06	101969.37	141634.58	243603.95	1042795.05	23.36

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

RE generation(MUs) data (source wise) for the month of October 2023 and October 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Oct'23	Oct'22	Oct'23	Oct'22	Oct'23	Oct'22	Oct'23	Oct'22	Oct'23	Oct'22	Oct'23	Oct'22	Oct'23	Oct'22
NORTHERN REGION														
Chandigarh	0.00	0.00	1.19	2.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	17.21	17.08	0.00	0.00	0.00	0.00	0.00	0.00	44.00	26.04	0.00	0.00
Haryana	0.00	0.00	114.02	24.70	19.35	31.41	0.00	0.00	27.03	37.81	5.77	5.35	0.00	0.00
Himachal Pradesh	0.00	0.00	4.77	4.40	0.00	0.00	0.00	0.00	226.47	345.33	0.00	0.00	2481.27	2872.71
J & K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.85	27.90	0.00	0.00	984.20	890.73
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	29.59	30.90
Punjab	0.00	0.00	303.59	283.48	49.21	37.29	2.83	0.00	52.86	50.06	0.00	0.00	355.00	366.92
Rajasthan	601.11	243.51	3267.98	3170.30	35.71	34.56	0.00	0.00	0.40	0.04	0.00	0.00	70.50	89.60
Uttar Pradesh	0.00	0.00	368.24	305.79	0.39	0.37	14.20	14.58	22.60	23.76	1.50	3.07	98.47	91.67
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	1088.32	1473.66
Northern Region	601.11	243.51	4104.66	3835.41	104.65	103.63	37.74	35.29	383.67	514.35	51.27	34.46	5107.35	5816.19
WESTERN REGION														
Chhattisgarh	0.00	0.00	93.03	55.64	105.01	67.13	0.00	0.00	28.14	25.44	0.00	0.00	58.35	41.19
Gujarat	900.72	959.35	1221.38	890.54	0.00	0.00	0.00	0.03	15.67	21.56	0.00	0.00	609.01	1019.05
Madhya Pradesh	258.61	236.98	341.20	321.89	5.86	0.00	0.01	0.02	40.93	33.83	3.00	3.42	705.20	1018.24
Maharashtra	292.46	335.51	545.96	386.56	26.33	16.60	11.56	85.28	52.94	71.73	3.19	0.02	533.22	330.84
Dadra and Nagar Haveli and Daman and Diu	0.00	0.00	1.42	1.36	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Goa	0.00	0.00	4.76	1.51	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.42	0.00	0.00

RE generation(MUs) data (source wise) for the month of October 2023 and October 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Oct'23	Oct'22	Oct'23	Oct'22	Oct'23	Oct'22	Oct'23	Oct'22	Oct'23	Oct'22	Oct'23	Oct'22	Oct'23	Oct'22
Western Region	1451.80	1531.83	2207.74	1657.49	138.35	83.73	11.57	85.33	137.67	152.56	6.87	3.86	1905.78	2409.32
SOUTHERN REGION														
Andhra Pradesh	333.12	273.67	730.80	634.24	0.46	1.55	3.35	5.39	8.51	49.86	25.37	27.28	126.98	632.46
Telangana	15.13	14.71	639.91	540.86	0.05	0.32	0.06	0.00	11.13	21.87	14.40	15.10	160.00	1444.44
Karnataka	505.13	427.88	1334.01	1120.74	1.57	7.51	95.99	177.25	187.01	317.84	0.00	0.00	865.34	1119.44
Kerala	5.94	7.11	90.37	71.81	0.00	0.00	6.14	3.49	104.08	81.92	0.00	0.00	426.60	707.95
Tamil Nadu	636.12	923.09	971.20	754.99	12.18	10.51	27.12	41.45	20.81	30.51	0.00	0.00	388.63	580.07
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	1495.44	1646.46	3767.32	3123.65	14.25	19.89	132.65	227.57	331.55	502.00	39.77	42.38	1967.55	4484.36
EASTERN REGION														
Andaman Nicobar	0.00	0.00	1.51	1.66	0.00	0.00	0.00	0.00	1.81	1.57	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	19.19	14.89	0.00	0.00	1.20	0.00	1.18	1.48	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	1.47	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	76.20	97.37
Orissa	0.00	0.00	70.00	59.25	9.41	7.93	0.00	0.00	56.51	67.89	0.00	0.00	835.74	782.85
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	352.30	1350.56
West Bengal	0.00	0.00	18.59	10.87	0.00	0.00	0.00	0.00	20.96	23.90	130.48	148.16	250.91	377.06
Eastern Region	0.00	0.00	110.76	88.36	9.41	7.93	1.20	0.00	81.49	95.87	130.48	148.16	1515.15	2607.84

RE generation(MUs) data (source wise) for the month of October 2023 and October 2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Oct'23	Oct'22	Oct'23	Oct'22	Oct'23	Oct'22	Oct'23	Oct'22	Oct'23	Oct'22	Oct'23	Oct'22	Oct'23	Oct'22
NORTH-EASTERN REGION														
Arunachal Pradesh	0.00	0.00	0.19	0.19	0.00	0.00	0.00	0.00	0.06	0.06	0.00	0.03	448.22	597.96
Assam	0.00	0.00	27.67	20.07	0.00	0.00	0.00	0.00	6.10	5.69	0.07	0.00	125.33	66.26
Manipur	0.00	0.00	0.64	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.43	40.07
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.03	3.96	0.00	0.00	82.88	99.63
Mizoram	0.00	0.00	0.27	0.27	0.00	0.00	0.00	0.00	7.99	7.99	0.00	0.00	21.14	35.86
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.05	15.20	0.00	0.00	16.62	21.18
Tripura	0.00	0.00	0.51	0.64	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	29.27	21.92	0.00	0.00	0.00	0.00	31.23	32.91	0.07	0.03	744.62	860.96
All India Total	3548.34	3421.80	10219.75	8726.83	266.66	215.18	183.16	348.19	965.61	1297.68	228.46	228.89	11240.45	16178.67

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

RE generation(MUs) data (source wise) for the period of April-October2023 and April-October2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22
NORTHERN REGION														
Chandigarh	0.00	0.00	8.73	7.83	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	120.48	150.33	0.00	0.00	0.00	0.00	0.00	0.00	289.19	159.34	0.00	0.00
Haryana	0.00	0.00	507.82	402.94	177.41	209.61	51.24	125.76	136.52	170.77	35.77	32.65	0.00	0.00
Himachal Pradesh	0.00	0.00	34.39	37.96	0.00	0.00	0.00	0.00	2074.27	2077.80	0.00	0.00	29199.41	30885.16
J & K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	310.33	288.02	0.00	0.00	12899.56	13270.08
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	307.32	322.92
Punjab	0.00	0.00	2259.69	1395.44	324.90	245.89	46.87	44.78	452.61	450.87	0.00	0.00	3214.53	2734.02
Rajasthan	6008.87	4465.76	22968.82	19540.42	211.95	224.97	0.00	0.00	1.03	0.29	0.00	0.00	363.07	384.02
Uttar Pradesh	0.00	0.00	2444.27	2120.56	19.82	41.62	602.90	604.70	95.91	133.63	69.82	32.73	606.99	545.93
Uttarakhand	0.00	0.00	193.55	193.55	0.00	0.00	144.97	144.97	206.15	206.15	0.00	0.00	10317.53	11446.75
Northern Region	6008.87	4465.76	28537.75	23849.03	734.08	722.09	845.98	920.21	3276.82	3327.53	394.78	224.72	56908.41	59588.88
WESTERN REGION														
Chhattisgarh	0.00	0.00	479.63	298.85	798.28	620.03	4.55	0.60	118.43	121.75	0.00	0.00	243.84	183.35
Gujarat	16498.48	12639.39	7413.61	5553.31	0.00	0.00	0.00	2.88	110.64	111.19	0.00	2.24	3207.28	4623.33
Madhya Pradesh	3465.19	3253.74	2094.33	2280.98	50.52	6.94	9.94	22.17	273.43	180.80	14.58	21.36	4505.03	5084.36
Maharashtra	6416.33	5659.20	3237.00	2196.95	181.10	149.26	349.62	1162.99	555.32	497.99	3.32	0.33	3810.12	3674.29

RE generation(MUs) data (source wise) for the period of April-October2023 and April-October2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22
Dadra and Nagar Haveli and Daman and Diu	0.00	0.00	8.68	20.56	7.47	3.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Goa	0.00	0.00	36.20	7.31	0.00	0.00	0.00	0.00	0.00	0.00	4.57	2.97	0.00	0.00
Western Region	26380.00	21552.32	13269.45	10357.95	1037.37	779.45	364.12	1188.65	1057.81	911.73	22.47	26.90	11766.27	13565.33
SOUTHERN REGION														
Andhra Pradesh	6471.94	5752.21	4846.51	4638.13	11.15	39.48	15.82	55.39	80.86	185.13	178.41	163.55	869.00	2500.57
Telangana	200.94	185.30	3973.28	3721.95	2.27	19.83	11.48	7.17	37.20	65.78	82.56	93.29	921.26	4786.11
Karnataka	7920.57	6876.62	8842.95	7791.95	35.82	74.83	645.72	822.77	1019.91	1692.06	0.00	0.00	6432.36	7905.73
Kerala	183.02	94.73	644.39	398.10	0.00	0.00	46.83	34.67	494.46	628.59	0.02	0.00	3225.72	5537.71
Tamil Nadu	14001.98	14119.78	6943.12	5246.80	73.28	74.60	337.55	410.25	96.15	163.04	0.00	0.00	2335.28	3603.40
Lakshadweep	0.00	0.00	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	7.14	7.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Southern Region	28778.45	27028.63	25257.45	21804.13	122.52	208.74	1057.41	1330.25	1728.58	2734.60	260.99	256.84	13783.62	24333.52
EASTERN REGION														
Andaman Nicobar	0.00	0.00	13.59	14.18	0.00	0.00	0.00	0.00	6.57	9.26	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	109.48	101.64	0.00	0.00	37.51	0.00	5.38	9.87	0.00	0.00	0.00	0.00

RE generation(MUs) data (source wise) for the period of April-October2023 and April-October2022														
Name of State/UT	Wind		Solar		Biomass		Bagasse		Small Hydro		Others (Waste to Energy)		Large Hydro	
	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22	Apr'23-Oct'23	Apr'22-Oct'22
Jharkhand	0.00	0.00	10.29	12.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	145.56	271.18
Orissa	0.00	0.00	425.81	386.98	55.56	25.62	0.00	0.00	305.20	310.41	0.00	0.00	4247.14	3817.57
Sikkim	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.21	7.21	0.00	0.00	8311.34	9882.92
West Bengal	0.00	0.00	85.90	70.66	0.00	0.00	0.00	0.00	133.12	127.87	904.51	968.54	2048.59	2407.12
Eastern Region	0.00	0.00	645.06	585.70	55.56	25.62	37.51	0.00	457.47	464.61	904.51	968.54	14752.63	16378.79
NORTH-EASTERN REGION														
Arunachal Pradesh	0.00	0.00	1.31	21.32	0.00	0.00	0.00	0.00	0.41	2.21	0.00	0.03	3327.28	3708.07
Assam	0.00	0.00	183.65	111.34	0.00	0.00	0.00	0.00	45.75	40.02	0.22	0.00	409.23	365.79
Manipur	0.00	0.00	4.56	4.98	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.01	183.55	394.60
Meghalaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.54	53.56	0.00	0.00	629.71	804.56
Mizoram	0.00	0.00	1.86	1.88	0.00	0.00	0.00	0.00	55.96	19.09	0.00	0.00	65.53	140.84
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.03	71.67	0.00	0.00	143.15	152.06
Tripura	0.00	0.00	3.04	3.75	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	194.42	143.28	0.00	0.00	0.00	0.00	203.69	186.55	1.45	0.03	4758.45	5565.92
All India Total	61167.32	53046.71	67804.13	56740.10	1949.53	1735.90	2305.02	3439.11	6724.37	7625.02	1584.20	1477.03	101969.33	119432.44



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