Sustainable End-of-Life Vehicle Scrapping Program: Government Backed Voluntary Program (India)

Reporting Period – 1st Jan 2024 to 31st March 2024 (Q4 FY2023-24)

Report Published on 27th March 2024 (Q4 FY2023-24)

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Executive Summary

India, with its position as the world's second most populous country, is facing a significant challenge with the disposal of end-of-life vehicles (ELVs). With the automotive sector booming, the number of vehicles reaching the end of their service life is escalating. However, the recycling of these vehicles is still not fully developed, and the sector is predominantly run by the informal sector, which often disregards environmental and safety regulations.

The informal recycling facilities have been criticized for contributing to environmental pollution and selling potentially unsafe automotive parts. In response, the Indian government is promoting the establishment of Registered Vehicle Scrapping Facilities (RVSFs) that adhere to stringent environmental norms and compliance. These facilities, however, are struggling to compete with the informal sector, which typically offers quicker and cheaper services.

In the context of these challenges, MMCM, an enviro-tech company, is working to bridge the gap for RVSFs by introducing the concept of carbon credits. By ensuring proper waste management of ELVs, these credits provide an additional revenue stream, making it financially viable for RVSFs to operate within environmental compliance. This initiative by MMCM not only supports the formal sector in overcoming economic hurdles but also encourages sustainable practices in vehicle recycling, aligning with global environmental standards.

ER Inventory

ER Inventory Added Till Q3 FY2023-24 (A)	58.75 tCO_2e
ER Inventory Retired Till Q3 FY2023-24 (B)	58.75 tCO_2e
ER Inventory Added in Q4 FY2023-24 (C)	330.81 tCO_2e
Total Inventory as on 31st March 2024 (A-B+C)	330.81 tCO_2e

Materials Recycled

Summary

Material Recycled Till Q3 FY2023-24 (A)	98.25 MT
Material Recycled in Reporting Period (B)	453.52 MT
Total Material Recycled Till Reporting Period (A+B)	551.77 MT

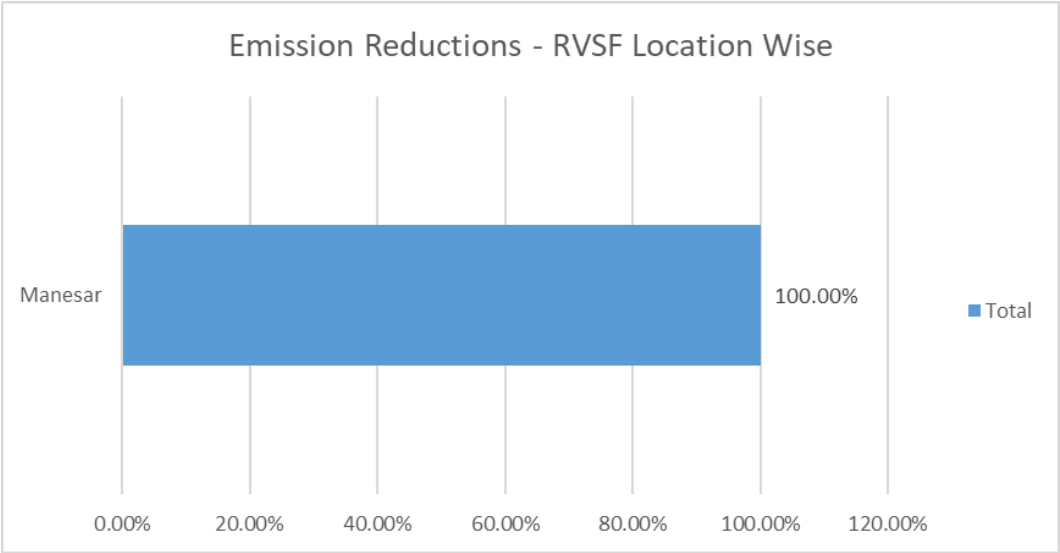
	All Values are in Metric Tons		
	Till Q2 FY2023-24	**In Reporting Period**	**Till Reporting Period**
Ferrous	68.19	308.39	376.58
Plastics	10.03	45.35	55.38
Aluminum	7.01	31.75	38.76
Tyres	5.02	22.68	27.7
Glass	3.00	13.61	16.61
Others	3.00	13.61	16.61
Copper	1.00	4.54	5.54
Fluids	0.00	9.07	9.07
Precious Metals	0.00	0.00	0
Total	98.25	453.52	551.77

RVSFs in PoA

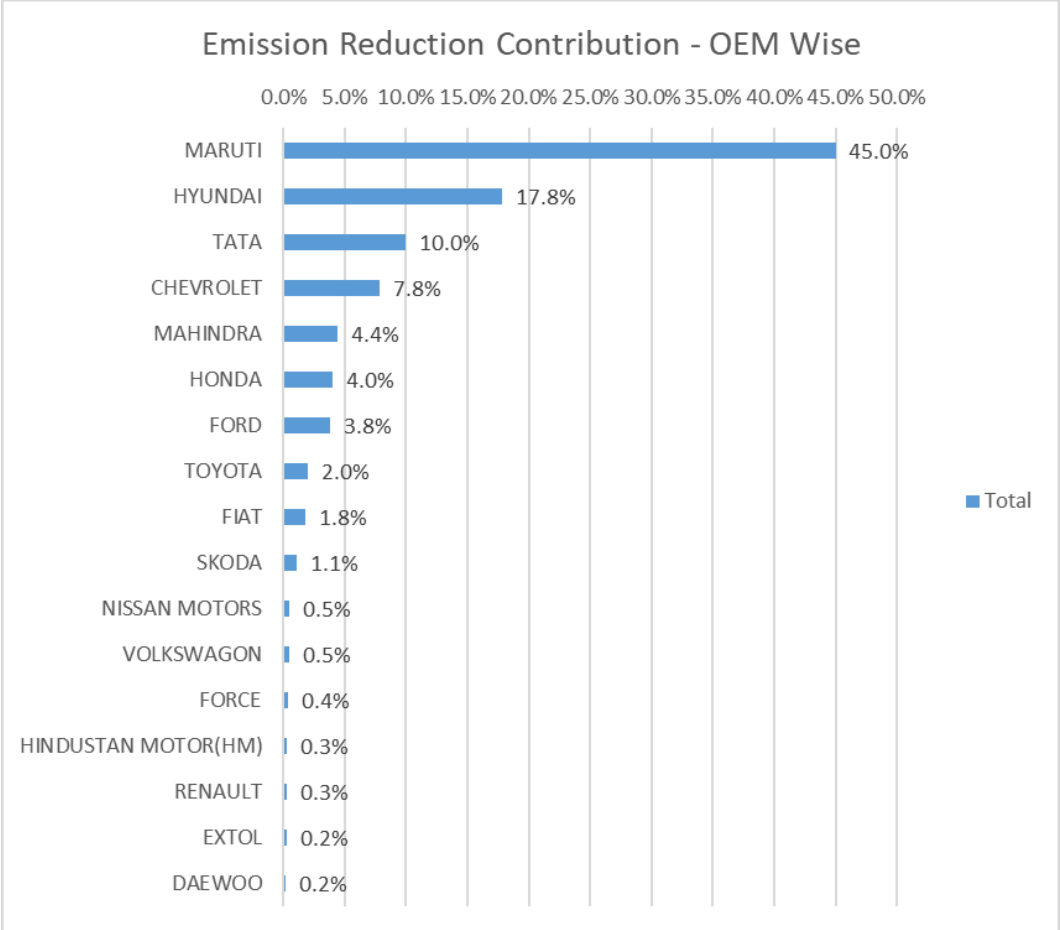
RVSF Name	**RVSF Address**	**Country**	**Coordinates**	**Material Recycled (Tons)**	**ELV Count (Till Date)**	**ER Contribution (tCO_2e)**
Rosmerta Auto Recycling Pvt. Limited	HASRA NO. 7/11/1, 12/1,8/14/1/2 MIN, 15/1/2 MIN, ILLAGE BHANGROLA, INDUSTRIAL ZONE, OPP. SEC M12, 122001	India	28.3942535N, 76.9081148E	453.52	482	330.81

Emission Reduction Attributes

By Location (%)

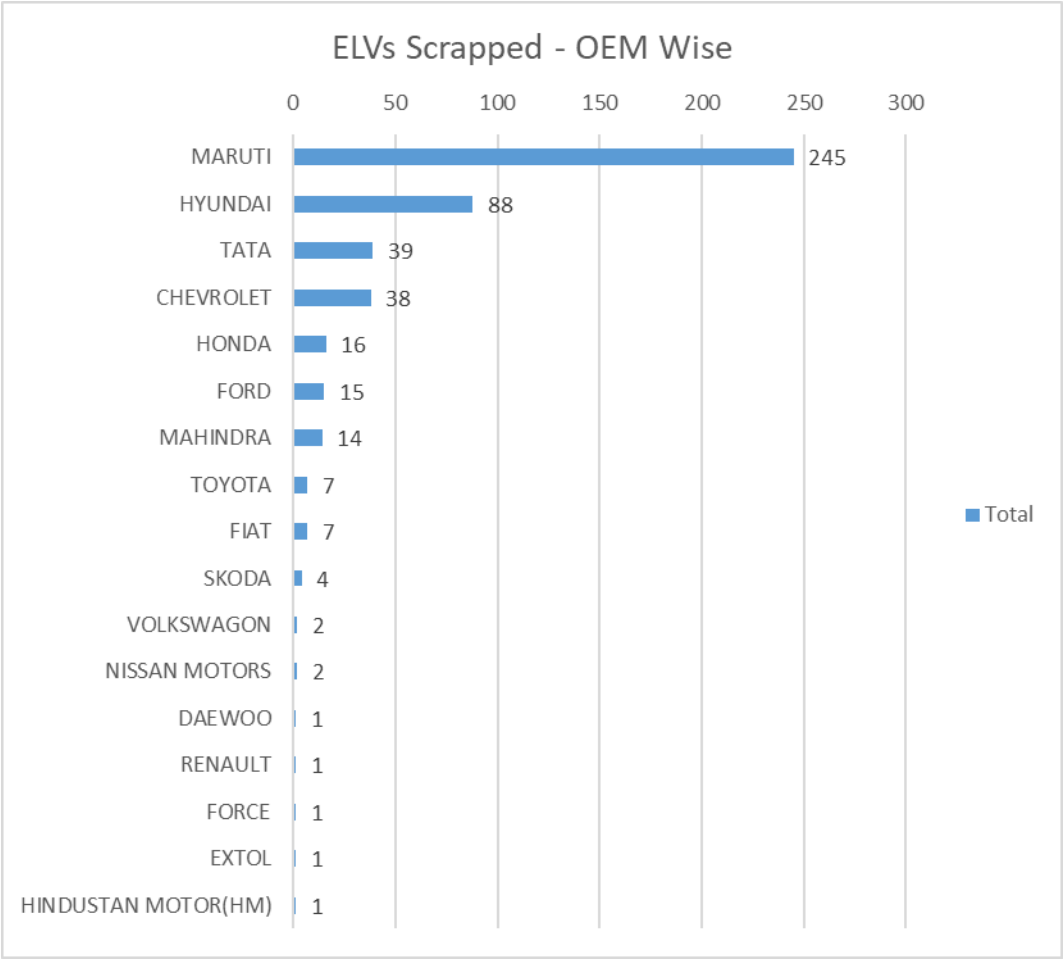


By Vehicle Make (%)

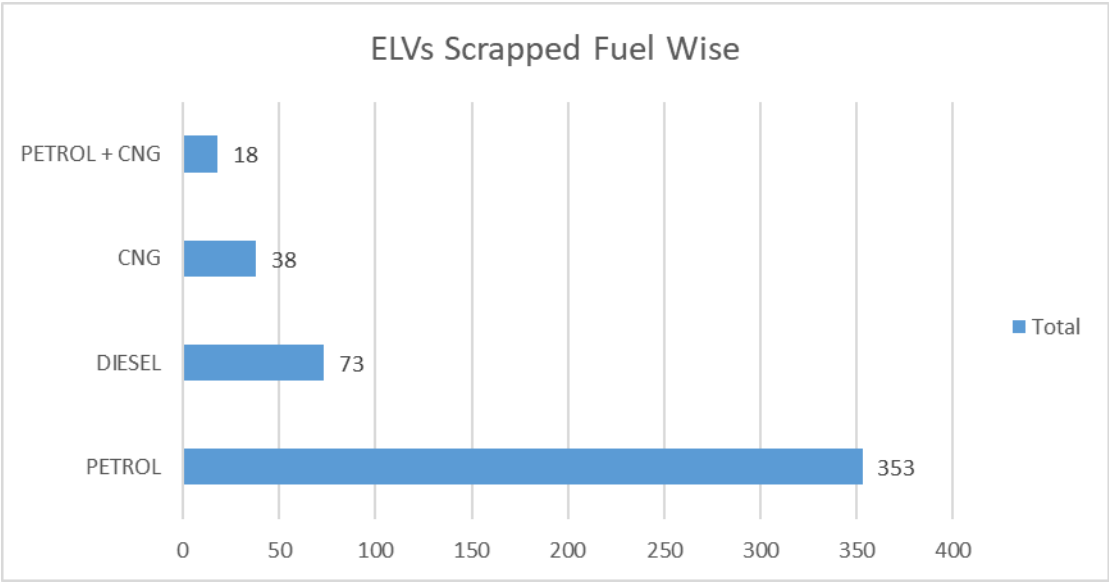


End-Of-Life Vehicle Attributes

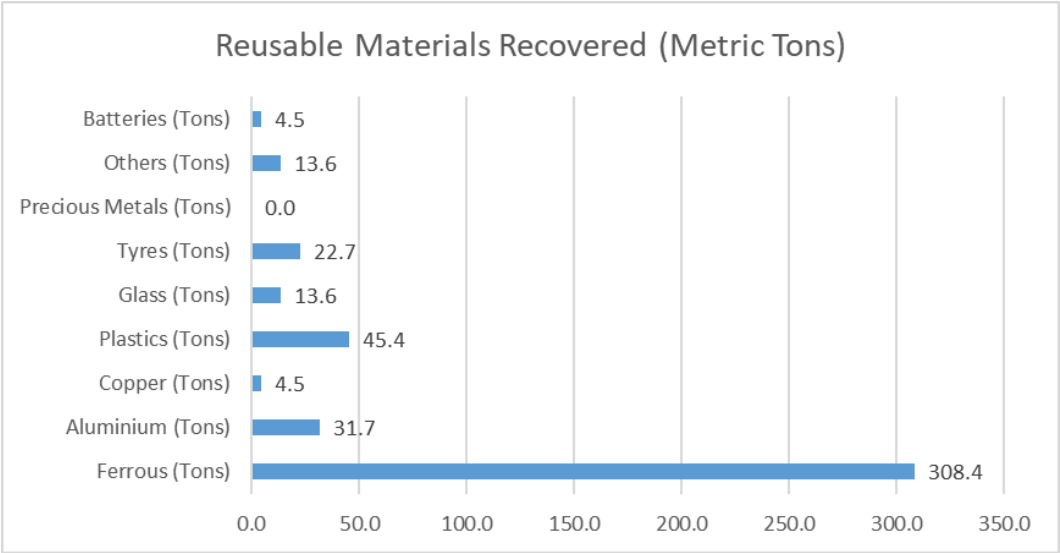
ELVs Scrapped By Vehicle Make (Count)



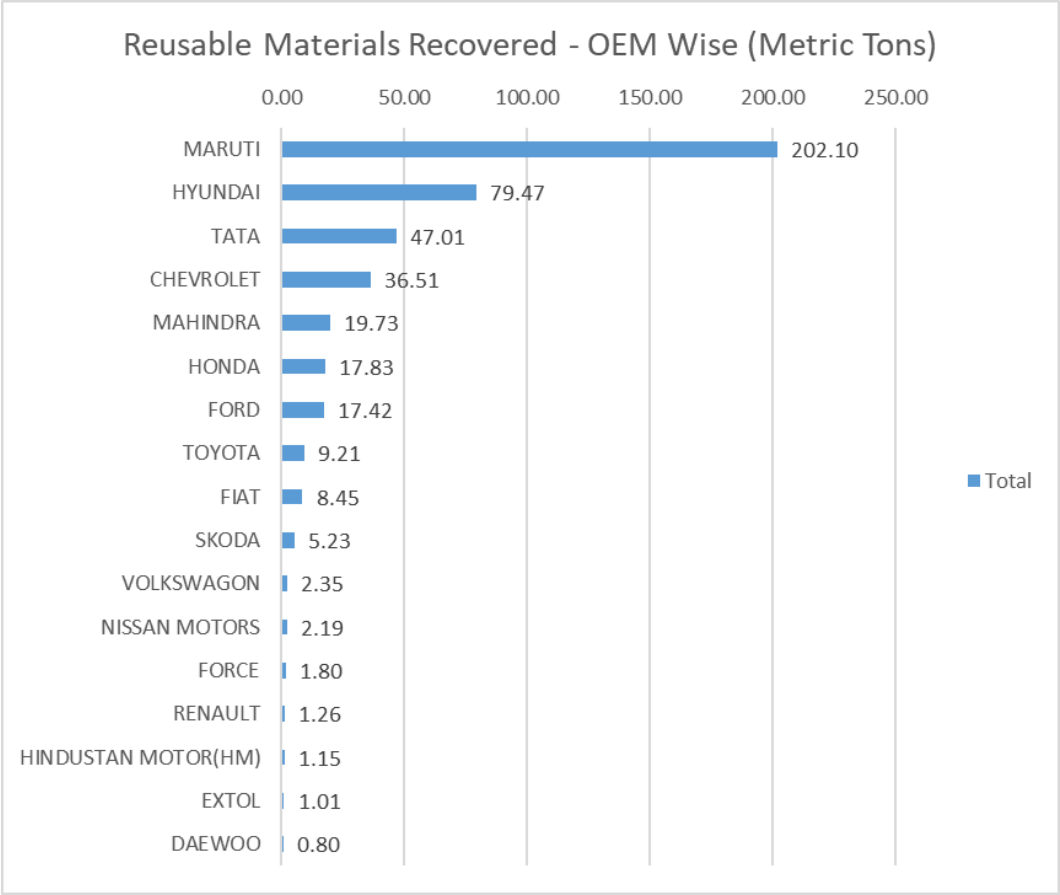
ELVs Scrapped By Fuel Type (Count)



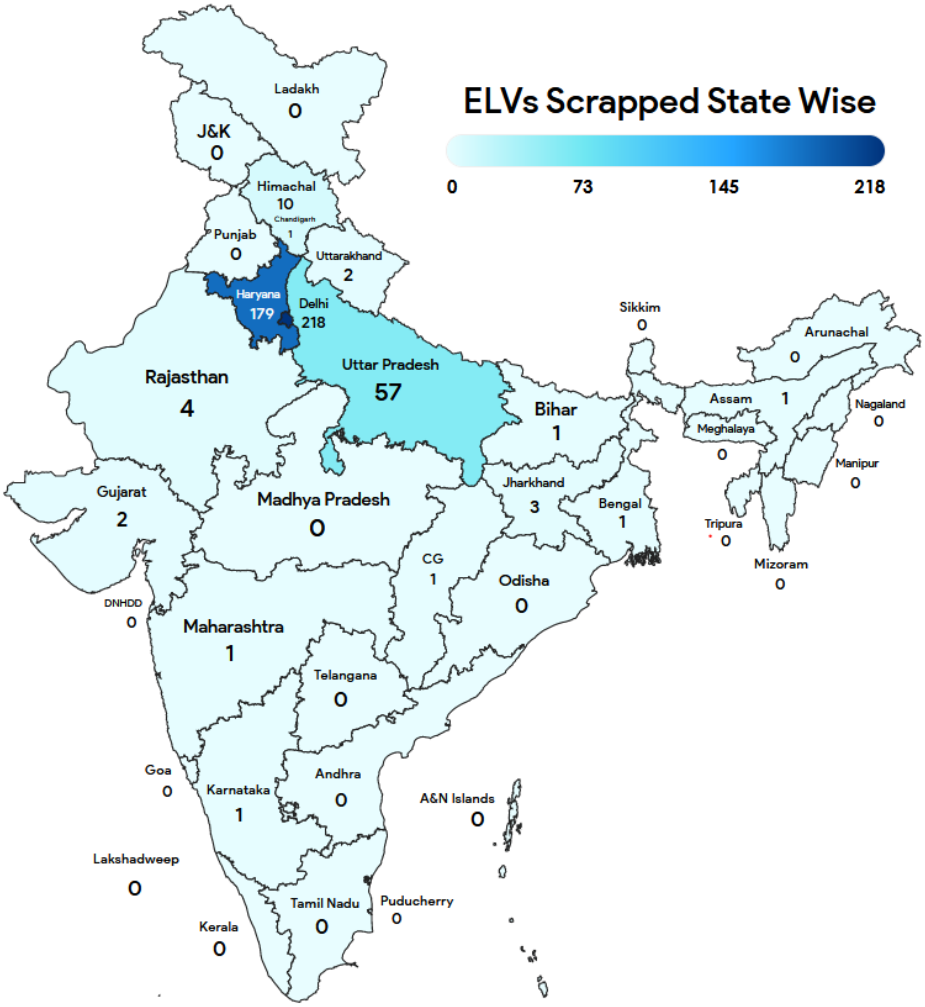
Reusable Materials Recovered Material Wise (Weight)



Reusable Materials Recovered OEM Wise (Weight)



ELVs Scrapped By State of Vehicle Registration



Emission Reduction Schedule

Electricity & Fuel Consumption

Electricity consumed: 50.54 MWh
Fuel Consumption (Liters): Diesel – 341.14 liters
Emissions from Electricity Consumption: 13.33 tCO_2e
Emissions from Fuel Consumption: 1.5207 tCO_2e
Total Project Emissions: 14.92 tCO_2e

RVSF	Fuel Consumed (Diesel, L)	Electricity Consumed (MWh)	Total Project Emissions (tCO_2e)
Rosmerta Auto Recycling Pvt. Limited	341.14	50.54	14.92

Baseline Emissions

Total Baseline Emissions Saved:

RVSF	Baseline Emissions Saved (tCO_2e)
Rosmerta Auto Recycling Pvt. Limited	345.73

Emission Reduction

Total Emission Reduction: 330

RVSF	Emissions Reduced (tCO_2e)
Rosmerta Auto Recycling Pvt. Limited	345.73