

# Recycling of Aluminium

## from end-of-life vehicles

The aluminium content in cars grows every year thanks to **its properties** that make it appealing for car manufacturers:



Lightweight



Safe



Fully and repeatedly recyclable

### How to improve aluminium recycling?

#### 1 DESIGN

**TODAY** - The car is designed with the idea that it will be shredded at end-of-life.

**TOMORROW** - Design for recycling & dismantling is more consistently applied.

Recyclable materials, like aluminium, are used instead of non-recyclable ones

#### 2 DELIVERY

**TODAY** - 4 million ELVs per year are of "unknown whereabouts"

**TOMORROW** - More ELVs recycled in Europe by addressing the ELVs of unknown whereabouts. Stop illegal shipment and treatment!

#### 3 DISMANTLING

**TODAY** - Only few parts are dismantled before shredding.

**TOMORROW** - Increased dismantling before shredding leads to higher scrap quality.

#### 4 SORTING

**TODAY** - Limited use of post-shredding technologies, like sensor-based sorting.

**TOMORROW** - Increased use of post-shredding technologies that can sort several aluminium fractions.

### Key facts

In today's modern plants **95%** of the aluminium in an end-of-life vehicle is successfully and profitably **reused or recycled** into new aluminium products **substituting** primary aluminium.

Making a vehicle lighter and recyclable are **compatible goals**. Using aluminium will contribute to making the vehicle more efficient through **lightweighting** and to ensure high **recycling rates** at the end-of-life.

The recycling of aluminium allows to **reduce the energy consumption by 95%** compared to the production of primary aluminium, thus representing a clear **environmental benefit**.

**FOR MORE INFORMATION, CONTACT US**  
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**EUROPEAN ALUMINIUM**

## ABOUT EUROPEAN ALUMINIUM

European Aluminium, founded in 1981 and based in Brussels, is the voice of the aluminium industry in Europe. We actively engage with decision makers and the wider stakeholder community to promote the outstanding properties of aluminium, secure growth and optimise the contribution our metal can make to meeting Europe's sustainability challenges. Through environmental and technical expertise, economic and statistical analysis, scientific research, education and sharing of best practices, public affairs and communication activities, European Aluminium promotes the use of aluminium as a material with permanent properties that is part of the solution to achieving sustainable goals, while maintaining and improving the image of the industry, of the material and of its applications among their stakeholders. Our 80+ members include primary aluminium producers; downstream manufacturers of extruded, rolled and cast aluminium; producers of recycled aluminium and national aluminium associations are representing more than 600 plants in 30 European countries. Aluminium products are used in a wide range of markets, including automotive, transport, high-tech engineering, building, construction and packaging.

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