



SUSTAINABLE SOLUTIONS Aluminum in the Circular Economy



## What is the production footprint in CO<sub>2</sub> of a standard gasoline vehicle?





Source: fka GmbH, research study 2019

## What is the construction footprint in CO<sub>2</sub> per surface m<sup>2</sup> of offices building?





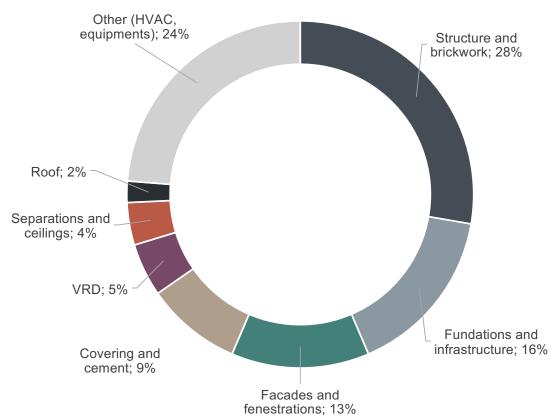


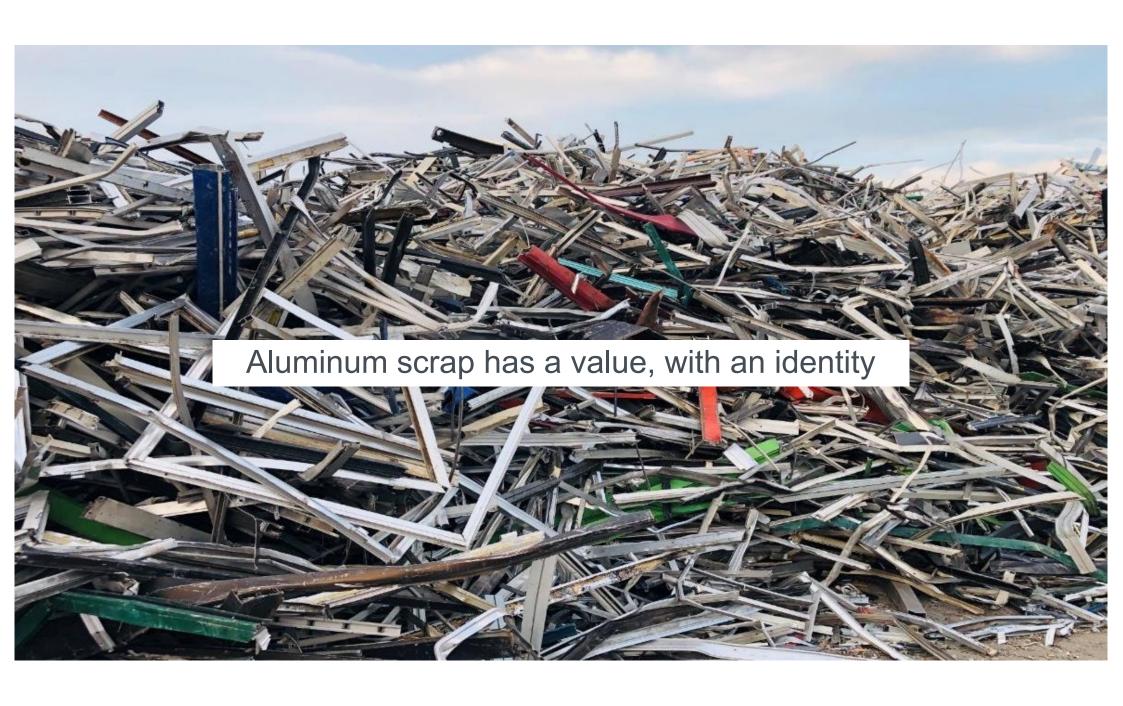
## What is the construction footprint in CO<sub>2</sub> per surface m<sup>2</sup> of offices building?









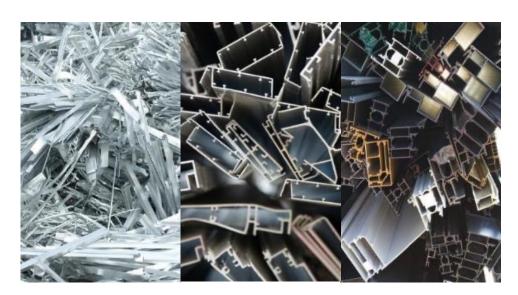


### **Educating the market: Different types of profiles scrap**

TECHNAL

By Mydro

Recycling of post-consumed scrap will give the full CO<sub>2</sub>e benefit



Extrusion, industrial & Fabrication Scrap

Has **never** become a product



Post-consumer scrap

Goes into Hydro CIRCAL

## As ligas com baixas emissões da Hydro nos produtos TECHNAL







## Hydro CIRCAL

Hydro CIRCAL

Redefiniu novos padrões em Reciclagem

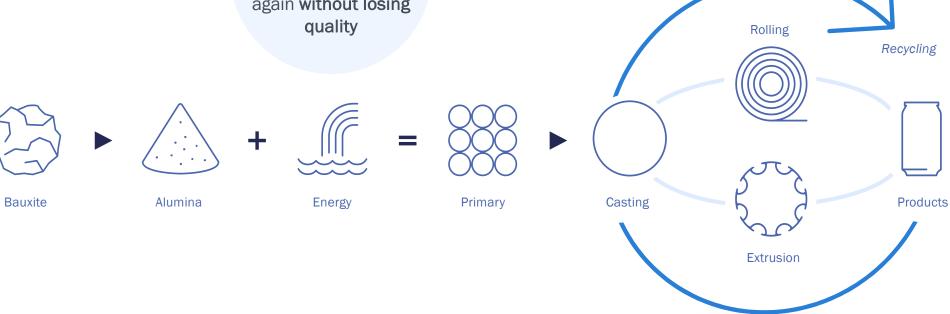
### The CIRCAL aluminum in the Circular Economy





#### **UPCYCLING:**

Makes a material
PERMANENT, it can be
recycled over and over
again without losing
quality



### Infinitely recyclable – a high recycling rate



One of the world's largest energy reserves, increasingly utilized through urban mining and recycling



### What's inside Hydro CIRCAL?

primary aluminium
made from
renewable energy

A bit more postconsumer scrap





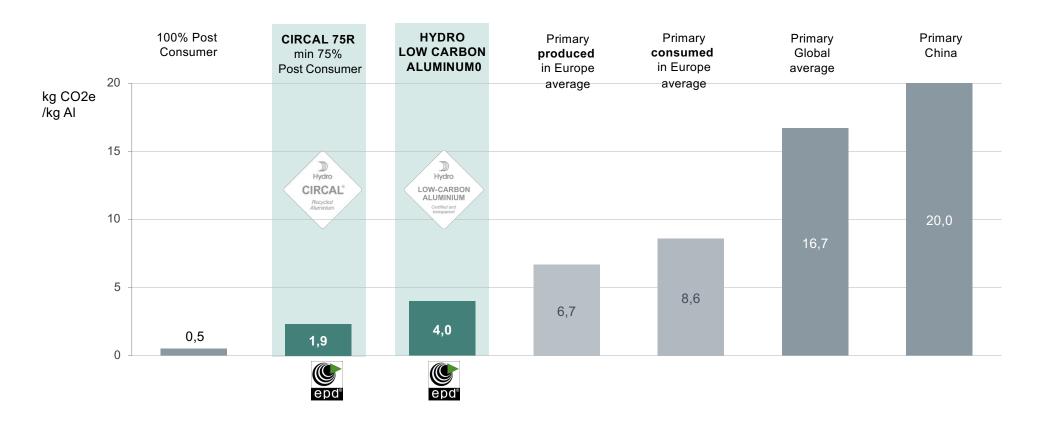
minimum 75% Post-consumer scrap

sometimes pre-consumer scrap



### Aluminium CO<sub>2</sub> footprints by origins





Source: IAI/EAA/Hydro

## Hydro's low-emission CIRCAL alloy in TECHNAL products



All systems in the Technal brand portfolio use CIRCAL alloy



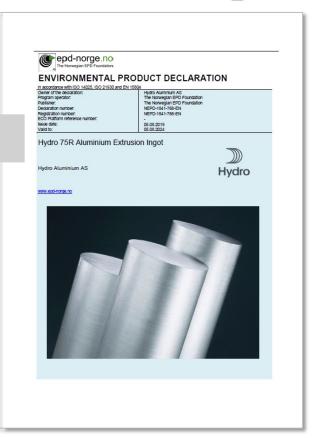


### **Environmental Product Declaration (EPD)**









# Recycled materials should be the building blocks of the future.

Europe recycles 11 million tons of aluminum per year! The savings in greenhouse gas emissions are equivalent to the emissions that a long-haul jetliner would release in many circumnavigation trips around the Earth.

Do you know how many?...



46000!

