

Example “CO₂ Optimization” – We help to inject new ideas that deliver CO₂ emission reductions



sample image

Housing Raw Part

Technology:

Aluminum die casting

Material:

AlSi9Cu3

Weight:

9,9 kg

Production Volume:

800k pc/yr

Lifetime:

5 years

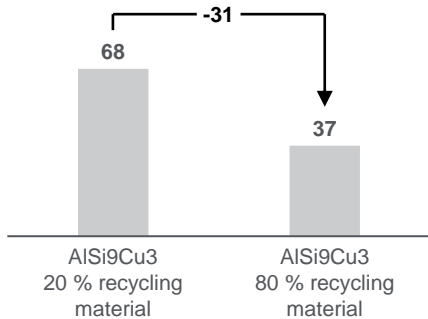
Design-to-CO₂



Change of material

Increase of aluminum recycling

[kgCO₂/pc]



Overall lifetime emission saving due to **change of recycling share**



125.530 t CO₂

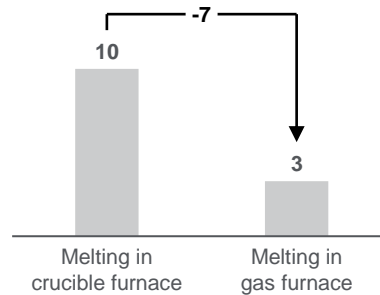
CO₂ Value Chain Optimization



Change of technical process

Melt with modern gas furnace instead of old and inefficient crucible furnace

[kgCO₂/pc]



Cost saving under consideration of 25 €/to CO₂ price



0,17 € / pc

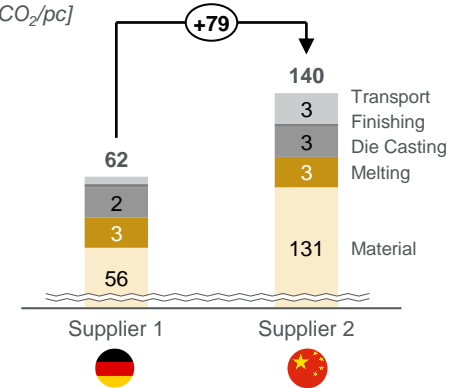
Source-to-CO₂



Change of supplier

Germany vs. China

[kgCO₂/pc]



Trees needed to compensate change of supplier



5.253.723 (year by year)