

STEEL_{FOR} PACKAGING

More is less

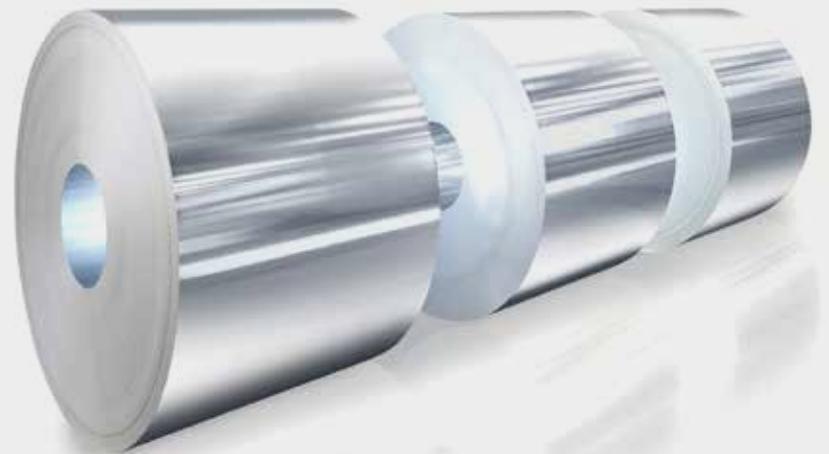
Lighter steel means less energy and raw materials



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Manufacturing

- **Innovation** in production means that steel for packaging is up to **40% lighter** today than 30 years ago.
- The European steel industry is committed to continually **reducing energy use and emissions**.
- Steel is produced with an average of over **57% of recycled content**.
- **LCA** (Life cycle analysis) considers the entire life cycle of tinplate, and shows significant recent environmental gains.



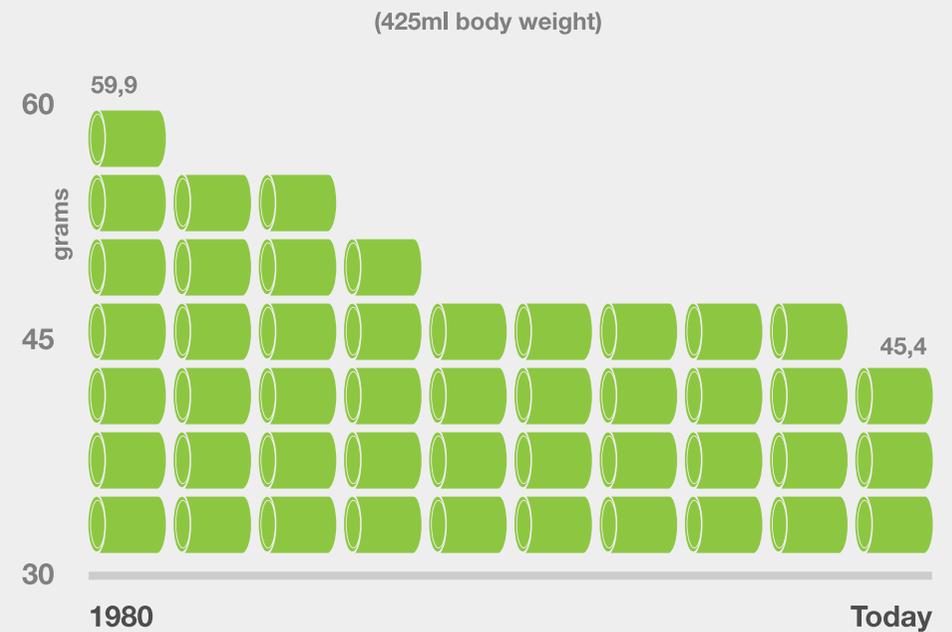
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Weight reduction

Steel packaging is up to 40% lighter today than 30 years ago.

- **Greater productivity**, more cans are made with the same quantity of steel
- **Increased industry resource efficiency**
- **Lighter and more efficient** throughout the supply chain

Evolution total body weight 425ml can

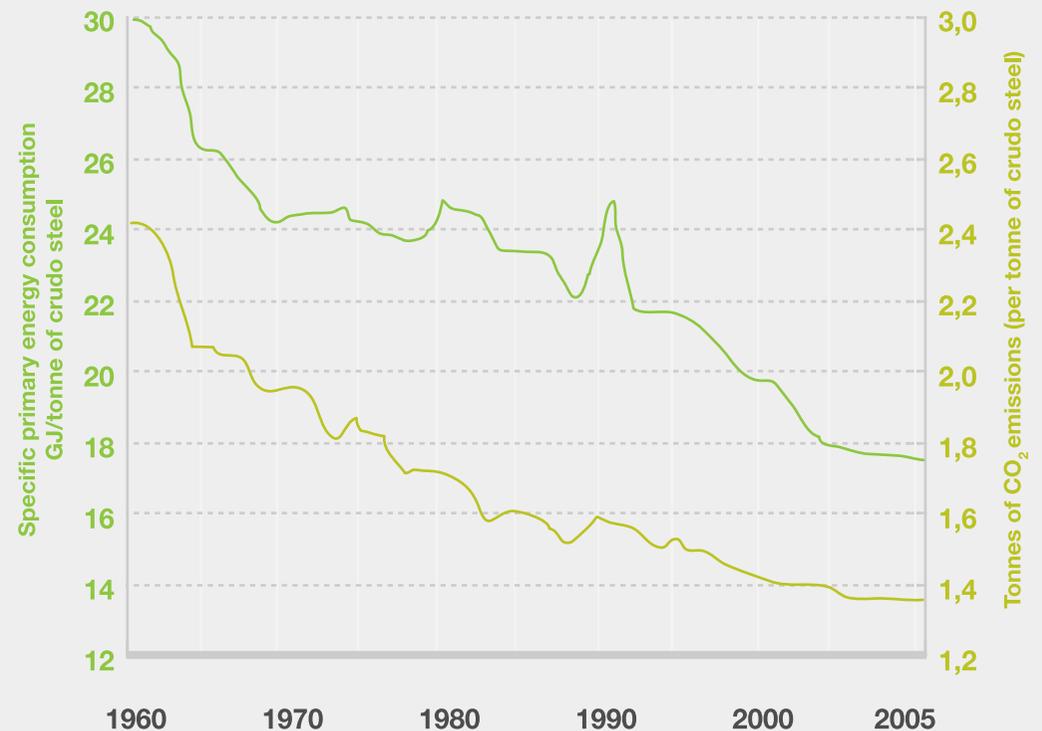


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Reduced energy and emissions

European steel industry is committed to continually reducing energy use and emissions.

- CO₂ emissions from steel production are today **50% lower** than 40 years ago
- CO₂ emissions from a standard steel can are today **30% lower** than 15 years ago
- Each item of recycled steel packaging **saves over one and a half times its weight** in CO₂
- Consumption of primary energy per tonne of crude steel is **40% lower** than 40 years ago



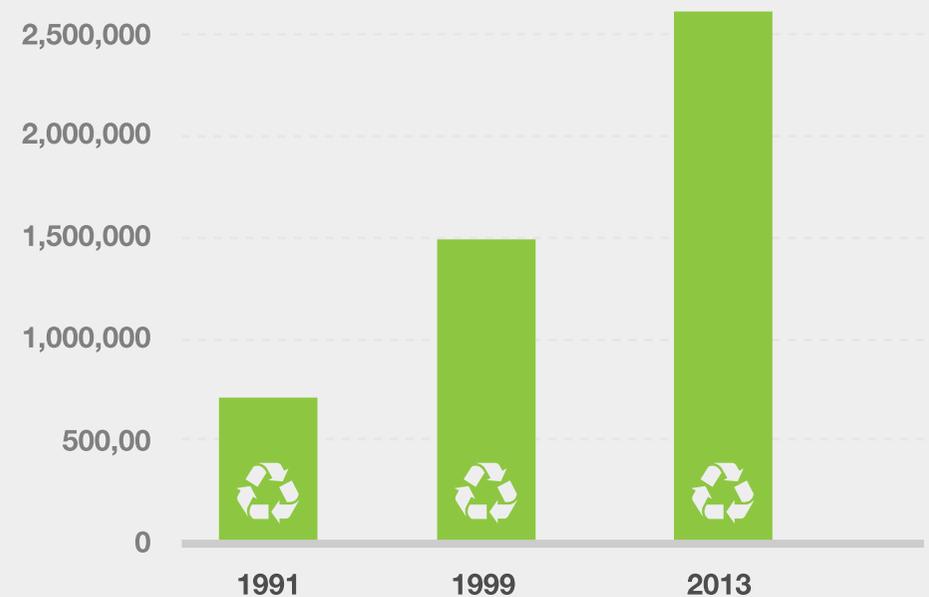
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Recycled content

High recycling rates and 100% recyclability mean that steel is produced with an average of over 57% of recycled material.

- **Over 70%** of steel packaging in Europe is recycled each year (74% in 2011)
- **All steel**, including steel for packaging, is made using ferrous scrap
- Primary and secondary steel have **identical properties**
- **Using recycled material** saves raw materials, energy, water and lowers CO₂ emissions

Recycling volume



Source: Worldsteel

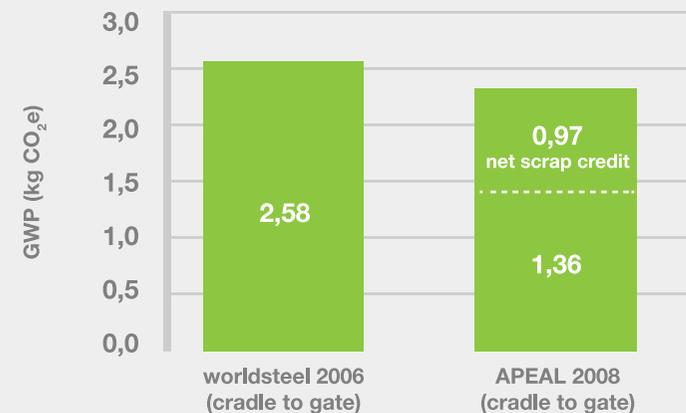
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LCA performance

LCA considers the entire life cycle of tinplate, from cradle to gate, and shows significant recent environmental gains.

- Global Warming potential of tinplate production (mainly CO₂ emissions) **is reduced by 9%** over two years
- **Acidification** (-6%) and **eutrophication** (-11%) both decrease over two years
- Primary energy demand **decreases by 3%** over two years
- Recycling **brings 30%** energy savings and **42% less CO₂ emissions**

-9 global warming potential (per kg tinplate)*



-3 Primary energy demand (per kg tinplate)*

