Platts Steel Market Focus Conference Geneva, 29-30 January 2009



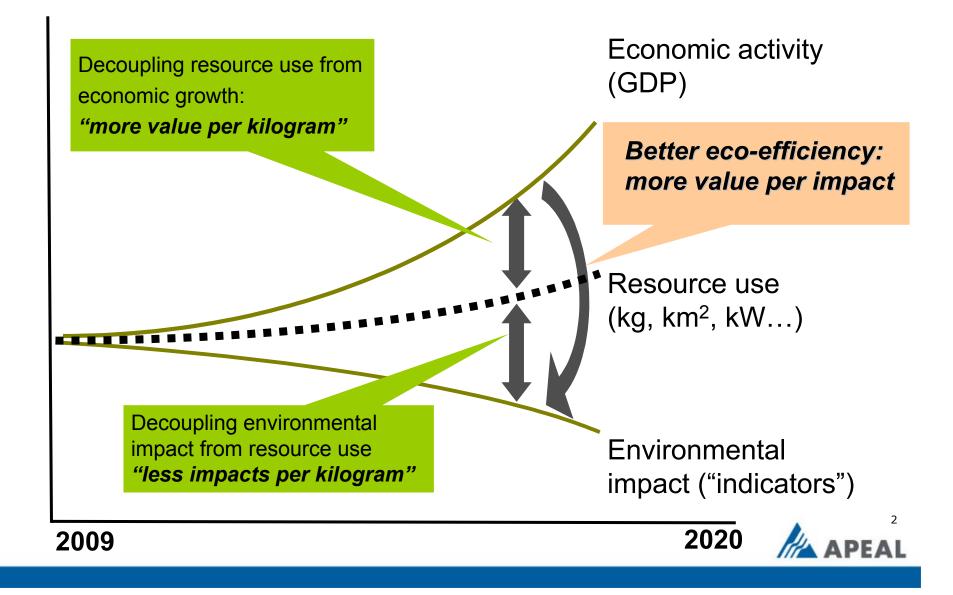
Steel Recycling: A Response to the Sustainability Challenge



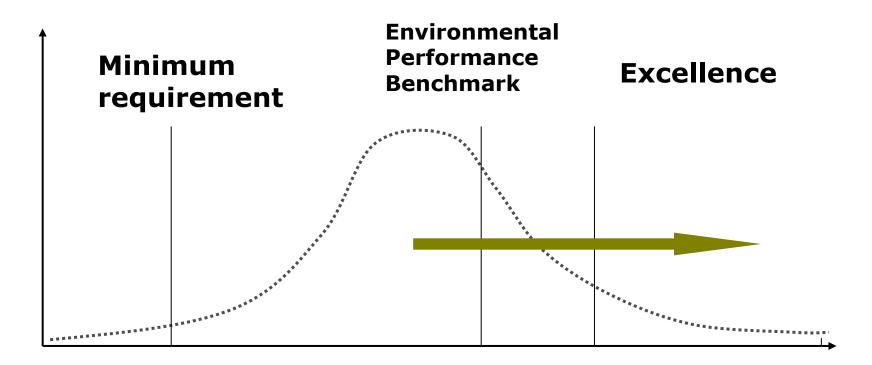
Philippe Wolper Managing Director APEAL

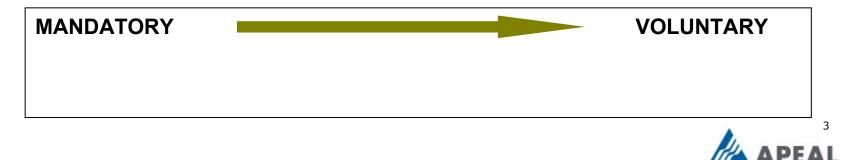


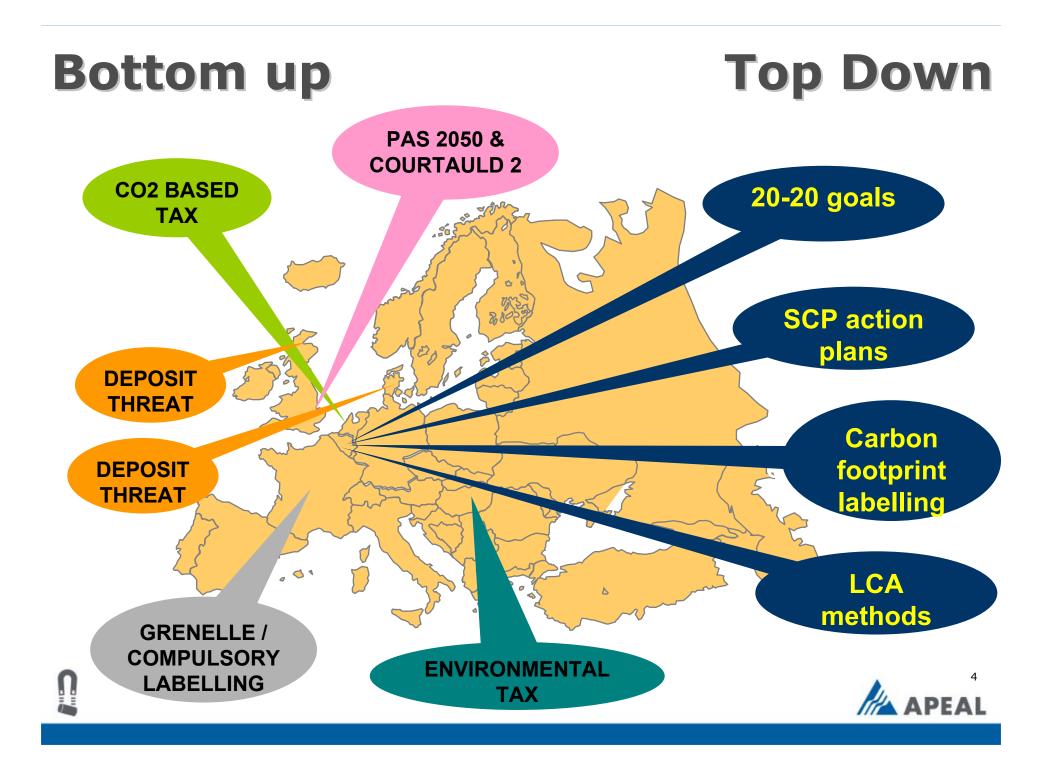
Objectives: Decoupling

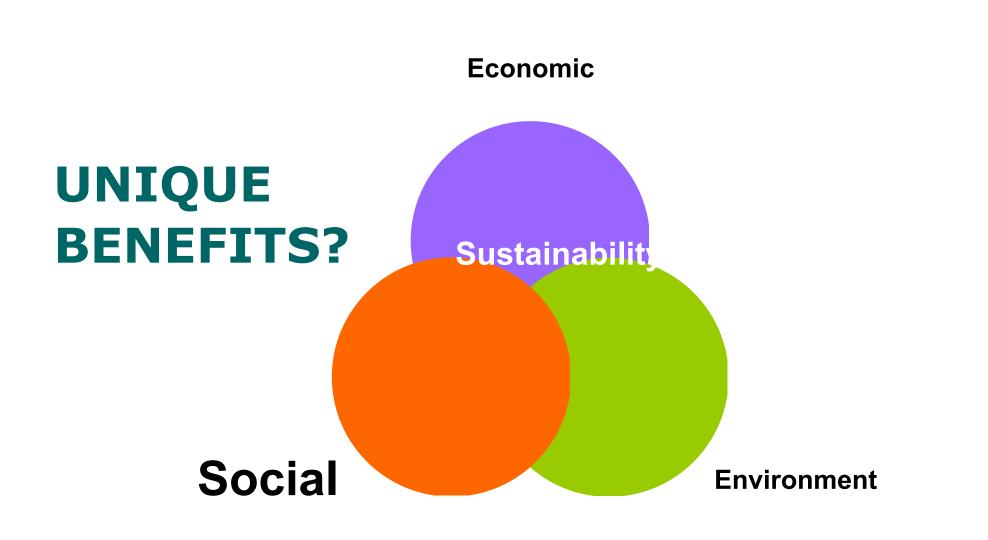


Expected evolution













Steel cans prevent product waste ...



Oxygen intake

measured in cm³/m²/day/1 bar atmosphere, for 100 microns thickness of packaging

1		Steel can	0 + total LIGHT barrier
1		Glass	0
2	M	Pouch	0 (with aluminium foil of at-least 6 microns) 17.4 (with EVOH)
3		Carton	<0.1
3		Rigid Plastics	1,000

Source: Industry Expert





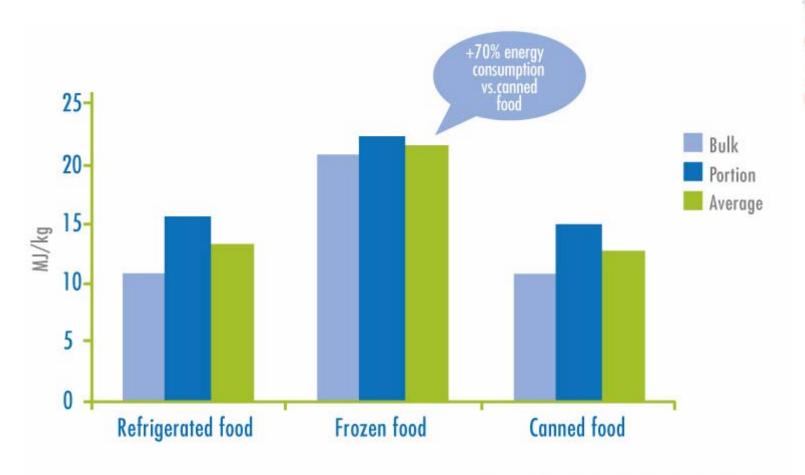
... deliver highest protection ...







...and allow for **energy free preservation** throughout the supply chain.



Source: Scientific Certification System (scs)



Ũ



HIGHEST STRENGTH



TOTAL BARRIER PROPERTIES





Protecting products... Naturally



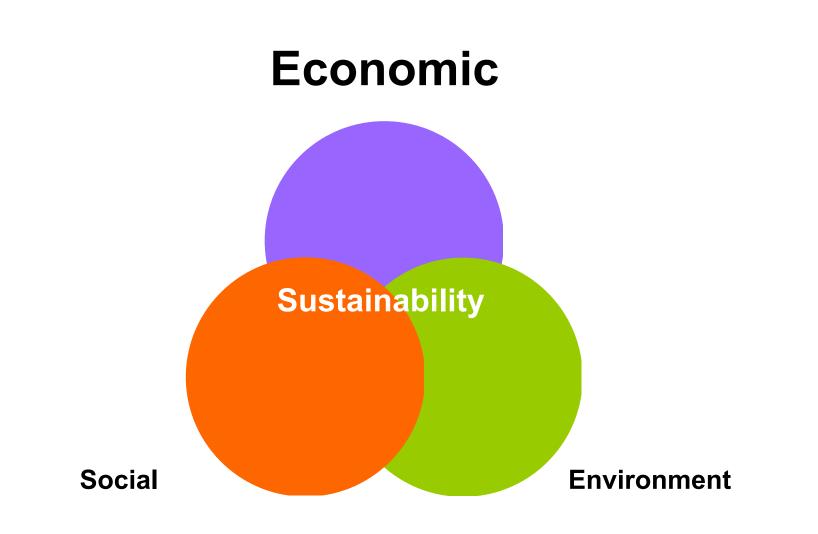


- Trusted safety
- > Ultimate protection
- Energy free preservation













Steel cans are best in class for **reliability**...

Failure rate of closing devices

[

1		Steel can	1/1,000,000
1		Glass	1/1,000,000 (excluding glass breakage)
2	E.	Pouch	1/10,000
2		Carton	1/10,000
2		Rigid Plastics	1/10,000

... and therefore **keep consumers safe** ...

Source: Industry expert



...are economical through the supply chain...



Filling speeds

for 400ml soups from major European brand owners

1		Steel can	500 units/minute	
2		Rigid Plastics	30-400	units/minute (according to filling system)
3		Glass	300 units/minute	
4		Carton	30-100	units/minute (according to filling system)
5	E.	Pouch	30-70	units/minute (according to filling system)

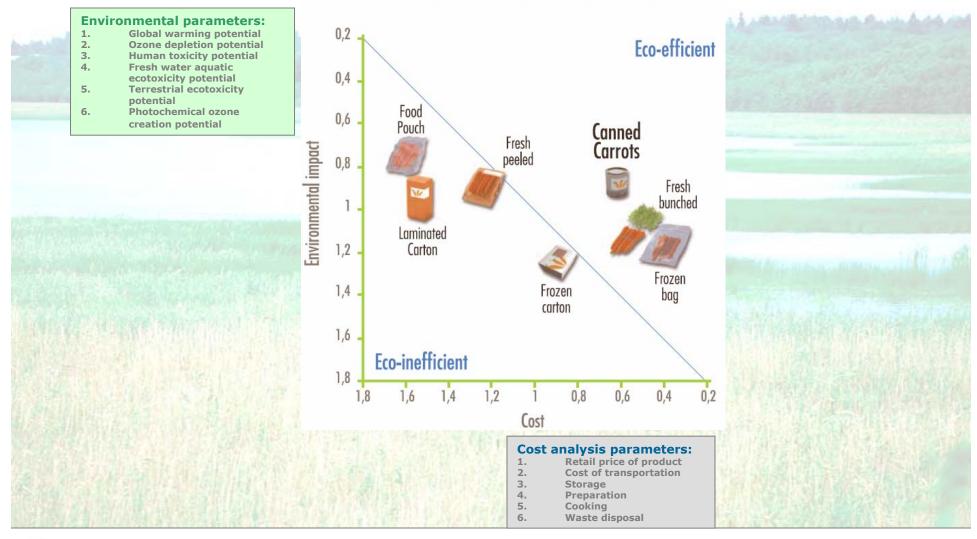
Source: Industry expert





...delivering highest eco-efficiency.

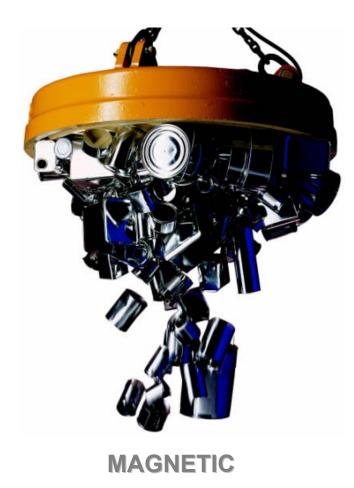
Eco-efficiency - Food packaging systems





Source: TNO







HIGHEST STRENGTH





Delivering for business... Naturally



The benchmark for packaging reliability

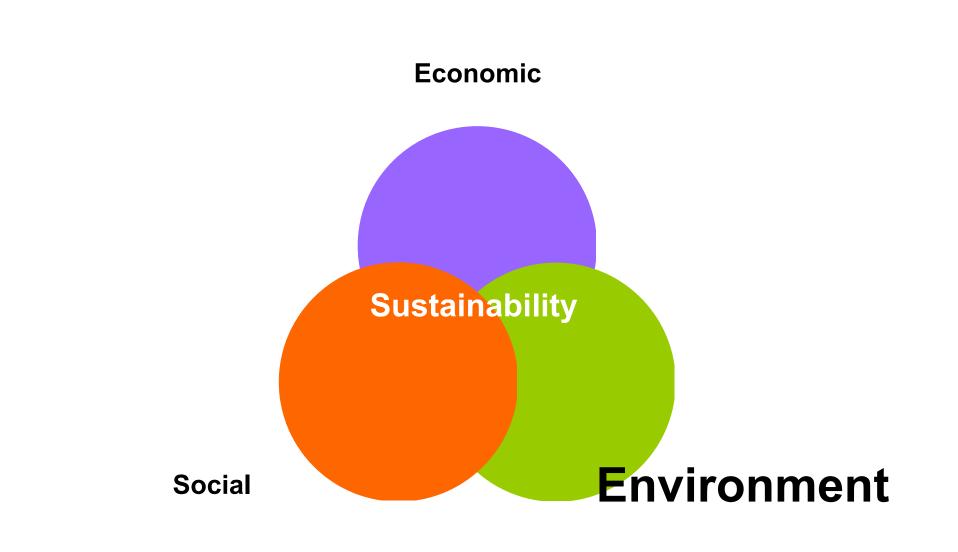
Resistant & magnetic: supply chain efficiency at its best

➢ Highest eco-efficiency













Steel for Packaging: 0.027% of global CO₂ equivalent emissions = 11.4 million tonnes

Worldwide = 42 billion tonnes = 100%

EUROPE 12%

Packaging in EUROPE 0.2%

Steel for Packaging in EUROPE 0.027%

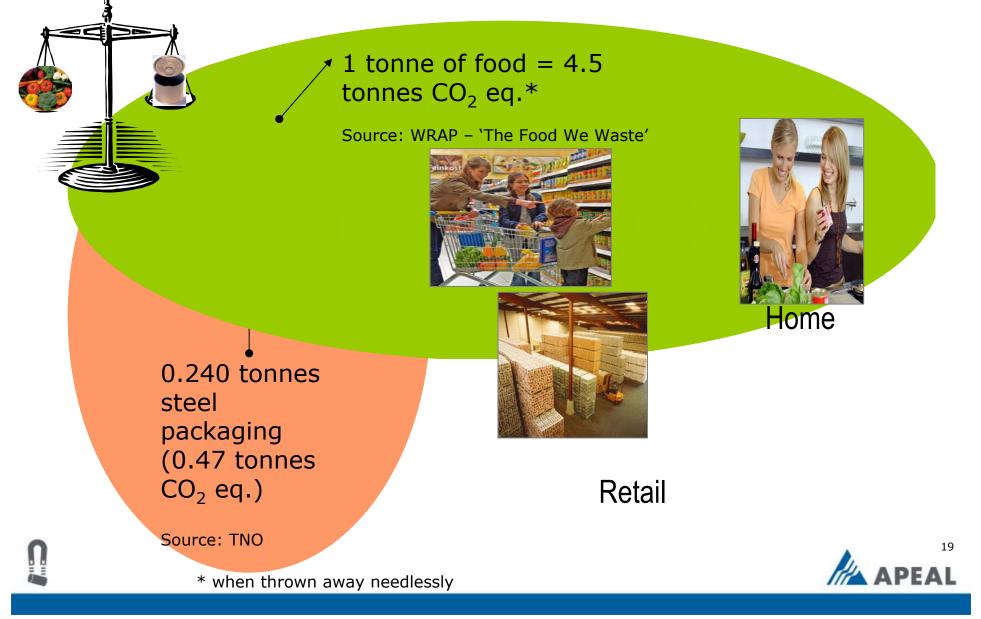
CO₂ EQUIVALENT EMISSIONS On a yearly basis

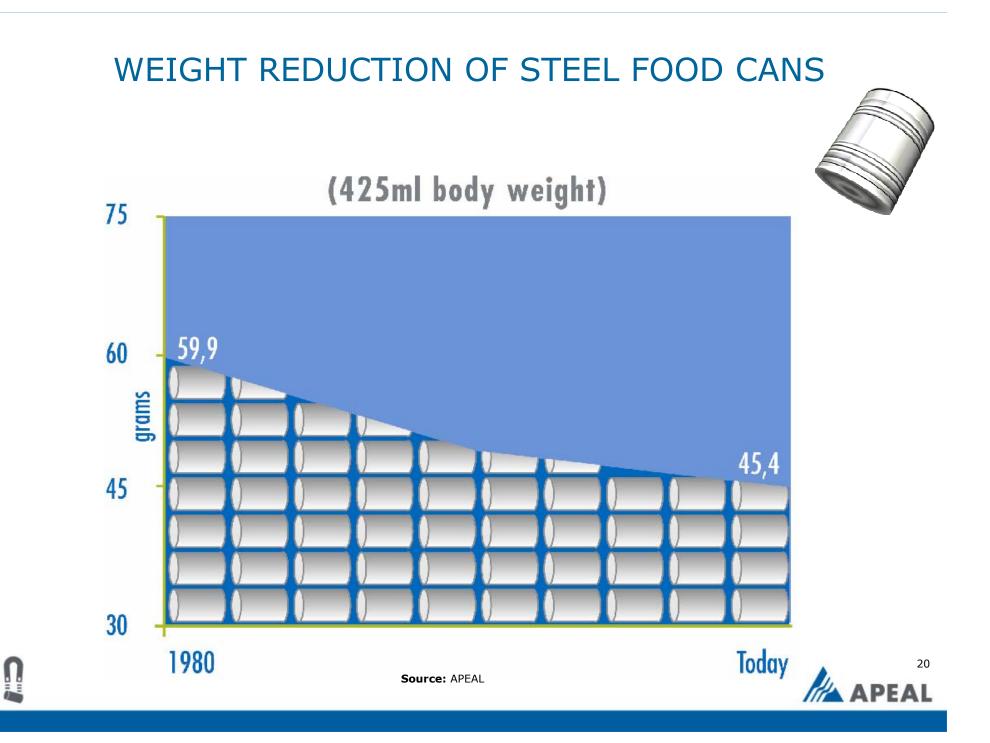


Source: Ref. 2000/2003 - World Resources Institute, EEA, EU Commission



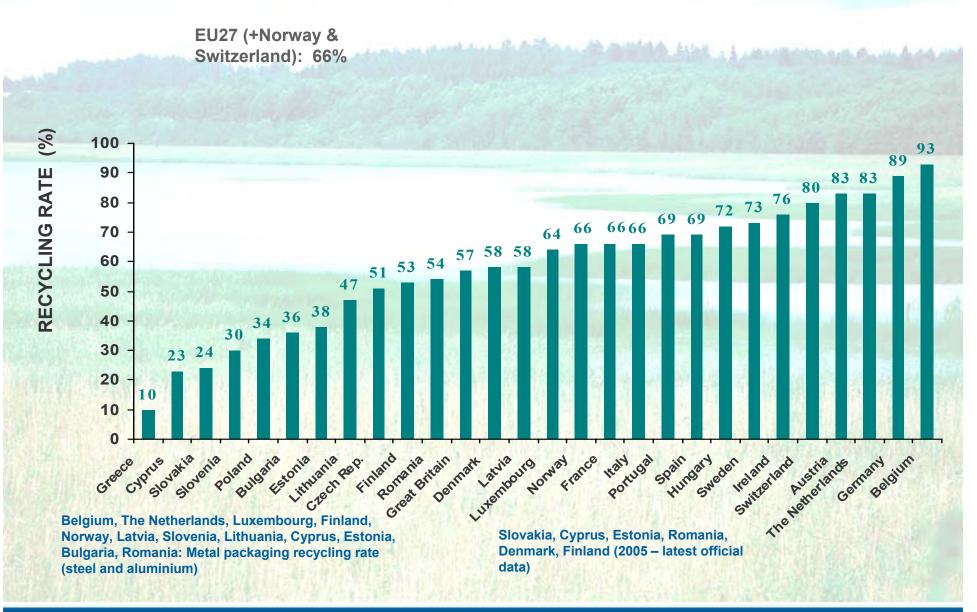
REDUCTION OF FOOD SPOILAGE REDUCES CO2 EMISSIONS



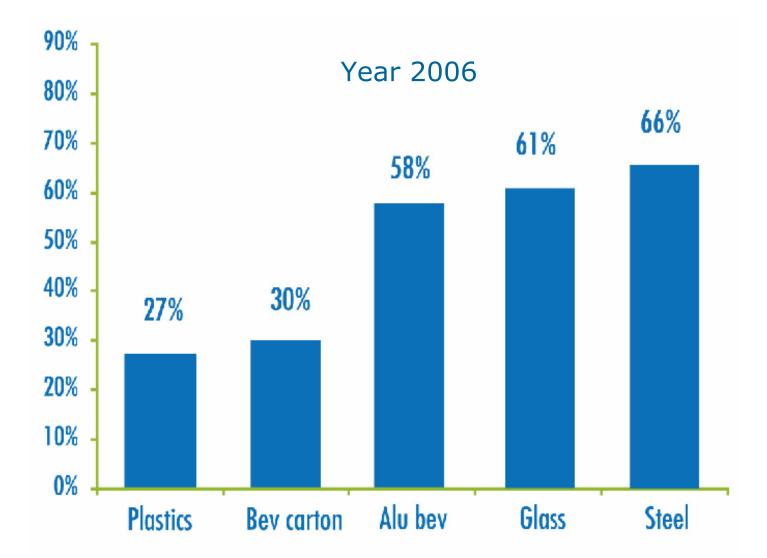


STEEL

RECYCLING OF STEEL PACKAGING IN EUROPE

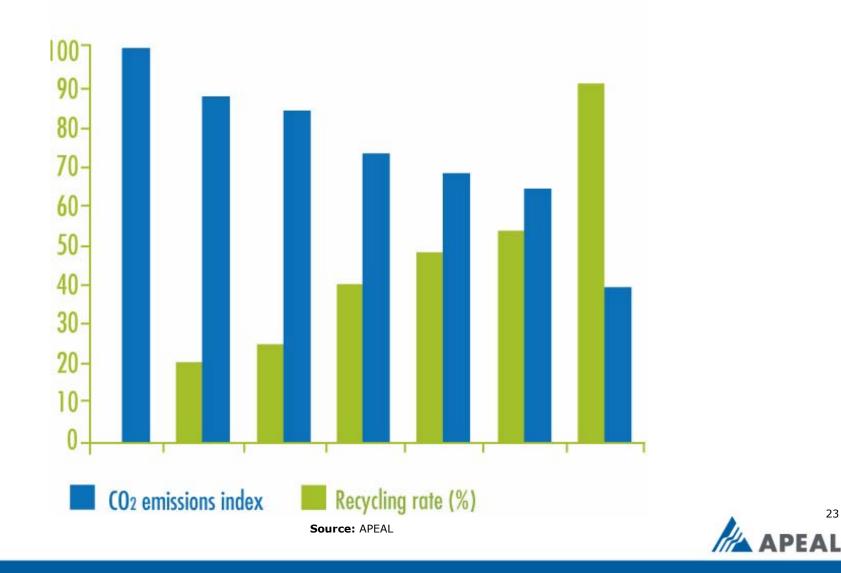


Steel packaging reaches **high recycling** rates in Europe.



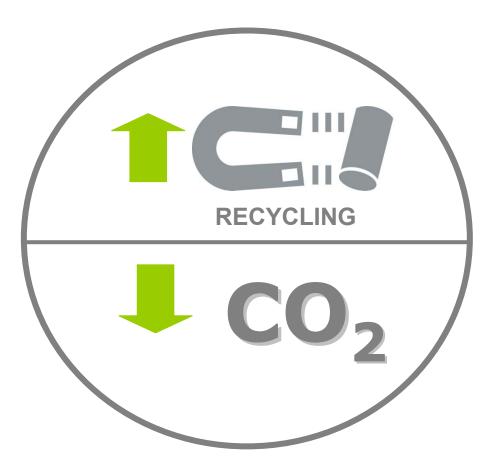
Source: Industry expert Association of European Producers of Steel for Packaging (APEAL)- European Aluminum Association (EAA), European Glass Packaging Federation (FEVE) - PlasticsEurope

THE HIGHER THE RECYCLING RATE, THE LOWER THE CO₂ EMISSIONS



23







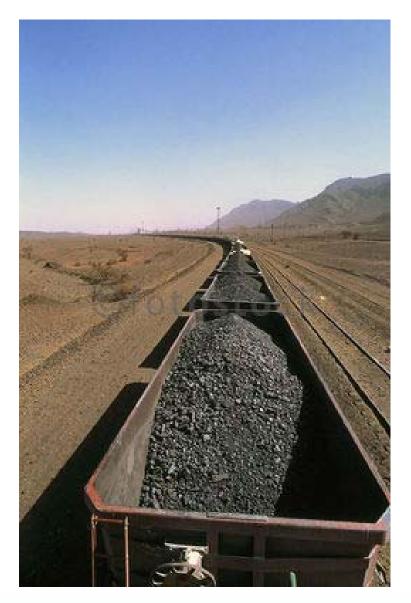








Allows for raw material consumption reduction & energy savings.



≻4,8 million tonnes iron ore

≻1,7 million tonnes coal

>4,7 million tonnes CO_2

>Up to 70% energy saving

(savings from steel packaging recycling EU27, 2006)



STEEL PACKAGING: ENDLESSLY RECYCABLE WITHOUT LOSS IN QUALITY













MAGNETIC SORTING



INFINITELY RECYCLABLE





Caring for the environment... Naturally

- > Magnetic sorting, highest recycling
- Eternally recyclable
- ➢ Higher recycling, lower CO2
- Saving resources & energy





INTRINSIC PROPERTIES OF STEEL FOR PACKAGING



MAGNETIC



HIGHEST STRENGTH



TOTAL BARRIER PROPERTIES

...and eternally recyclable without loss of quality.







Steel for packaging sustainability positioning







UNIQUE?















