Rigid containers for chocolate drink powder in Brazil
A Braskem case study

Replacing tinplate rigid containers with polypropylene containers for chocolate drink powder in Brazil can lead to a 56% reduction in GHG emissions.

Considering the Brazilian market size in 2010, a full replacement of tinplate containers by polypropylene containers could lead to total GHG reductions by 10 ktonCO₂e.

241 million tinplate containers for Chocolate Drink Powder were sold in 2010 on the Brazilian market. In the same year, 87 million polypropylene containers were used to package the same product.

Life cycle GHG emissions for tinplate containers amount to 0.21 kgCO₂e/container whereas polypropylene containers are responsible for a total emission of 0.09 kgCO₂e/container. The majority of GHG emissions in the life cycle of these containers are concentrated in the raw material (polypropylene or tinplate) production and processing.

No trade-offs in other environmental impact categories were found in the full Life Cycle Assessment study that supports this case-study as can be seen.

Full study available at: www.icca-chem.org/energy-climate