

ALPLA

#Challenging Plastics

A critical review of various
packaging types on the Czech
market

Name Surname



Challenging Plastics

This presentation shares insights into the environmental impacts of the packaging of various products typical to the Czech market. The data is based on life cycle assessments calculated by c7-consult, a renowned consultancy company.

More about c7-consult: www.c7-consult.at

For more detailed information: sustainability@alpla.com



Relevance of this LCA

ALPLA commissioned this LCA in order to contribute to making the public debate regarding the packaging industry more objective. The LCA was produced by a highly professional, independent consultancy company following the ISO 14044 standard.

All data shown in this slide set are calculated for the Czech market – other countries might differ significantly.

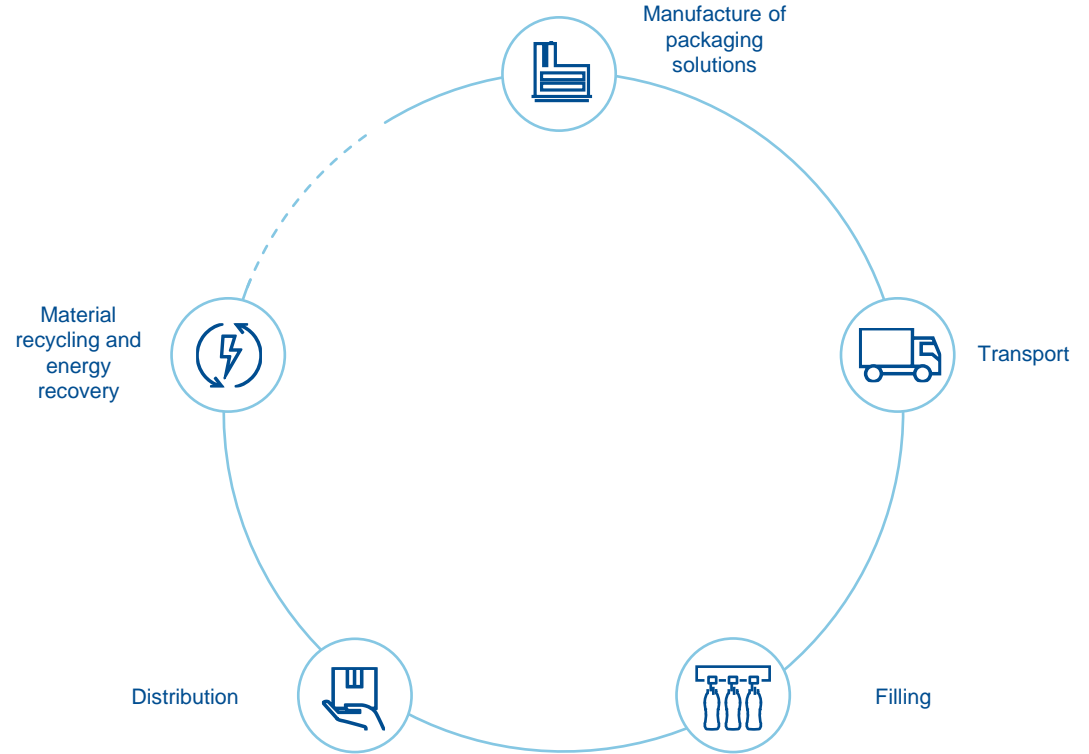


Calculation basis

The study aims to incorporate the effects of the complete life cycle of packaging.

Excluded:

- Manufacture of the packaging contents
- Losses during transport and storage
- Transportation by consumer



#Challenging ***Plastics***

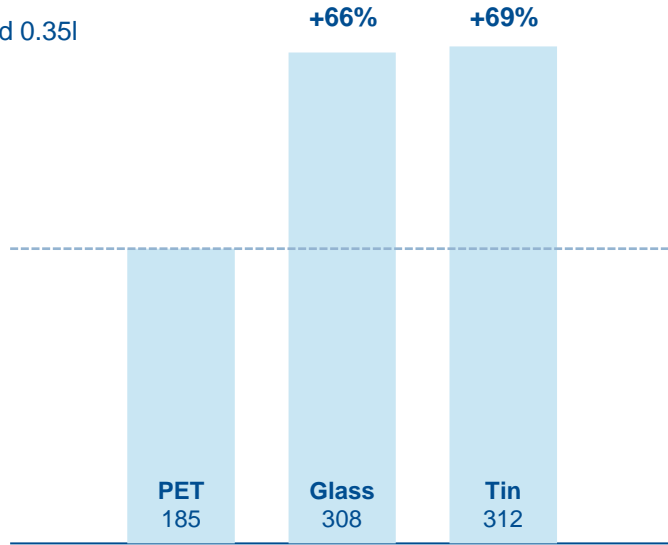
Study results



What is more sustainable?

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Food 0.35l



Climate change
[g CO₂ eq.]

VS.



Glass
Jar

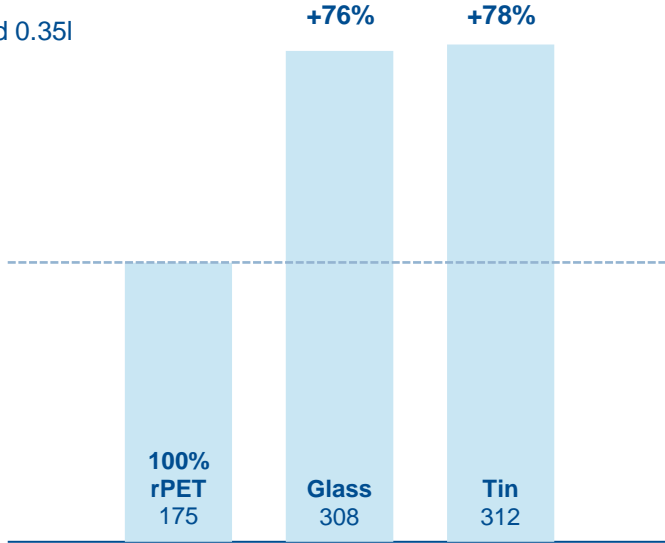
PET
Jar

Tin
Can

What is more sustainable?

#ChallengingPlastics - RECYCLING

Food 0.35l



Climate change
[g CO₂ eq.]

VS.



Glass Jar

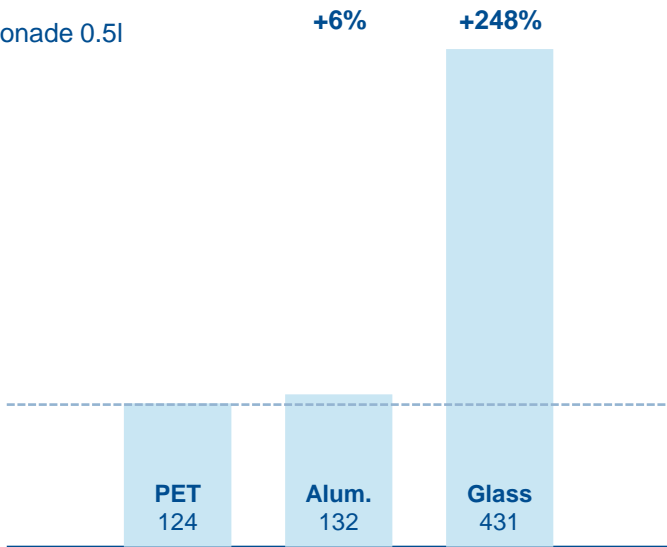
100% rPET Jar

Tin Can

What is more sustainable?

#ChallengingPlastics

Lemonade 0.5l



Climate change
[g CO₂ eq.]

VS.



Aluminium
Can

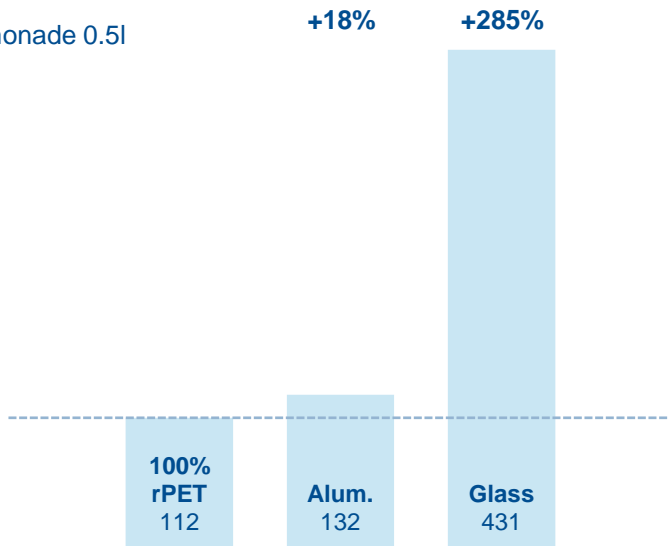
PET
Bottle

Glass
Bottle

What is more sustainable?

#ChallengingPlastics - RECYCLING

Lemonade 0.5l



Climate change
[g CO₂ eq.]

VS.



Aluminium
Can

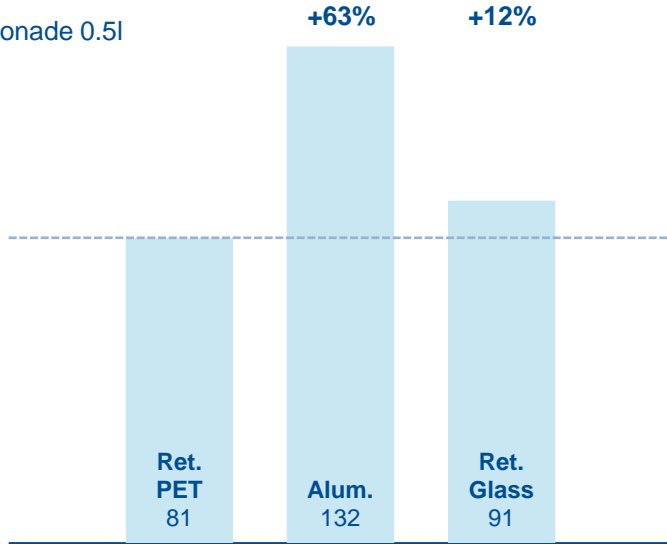
100%
rPET Bottle

Glass
Bottle

What is more sustainable?

#ChallengingPlastics - REUSE

Lemonade 0.5l



Climate change
[g CO₂ eq.]

VS.



Aluminium
Can

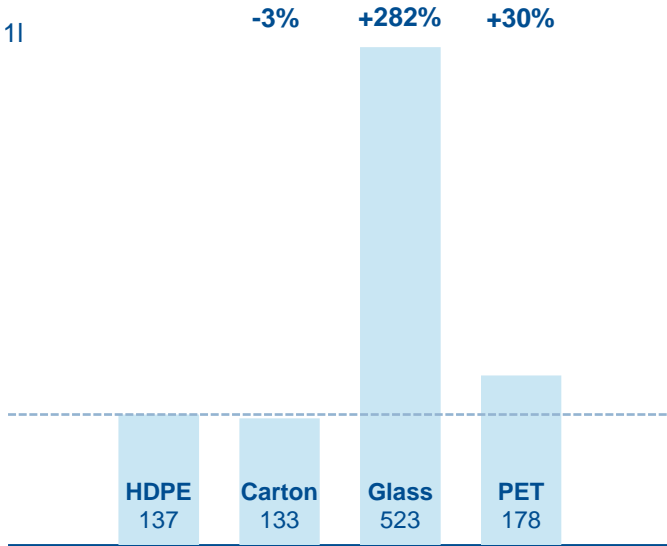
Returnable*
PET Bottle

Returnable*
Glass Bottle

What is more sustainable?

#ChallengingPlastics

Milk 1l



Climate change
[g CO₂ eq.]

VS.



Composite
Beverage
Carton

HDPE
Bottle

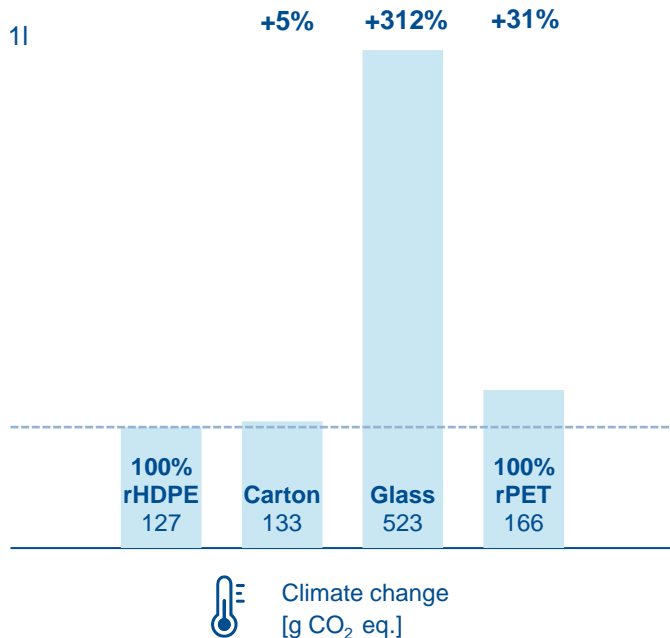
Glass
Bottle

PET
Bottle

What is more sustainable?

#ChallengingPlastics - RECYCLING

Milk 1l



VS.



Composite Beverage Carton

100% rHDPE Bottle

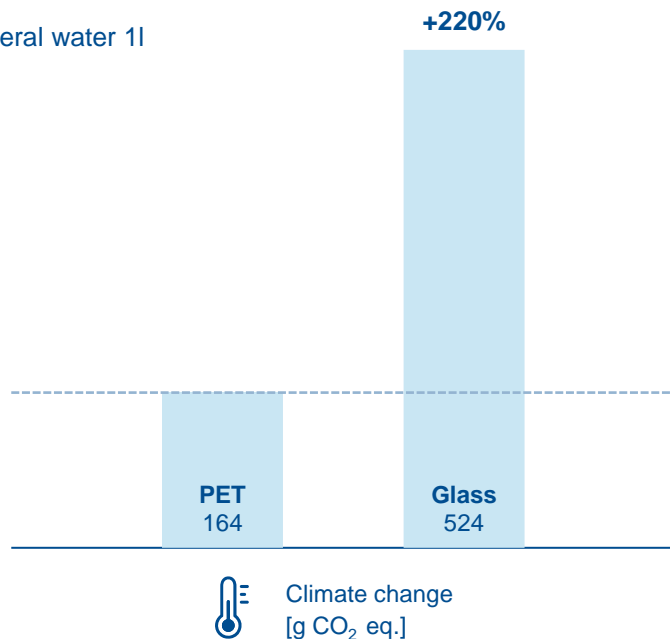
Glass Bottle

100% rPET Bottle

What is more sustainable?

#ChallengingPlastics

Mineral water 1l



VS.



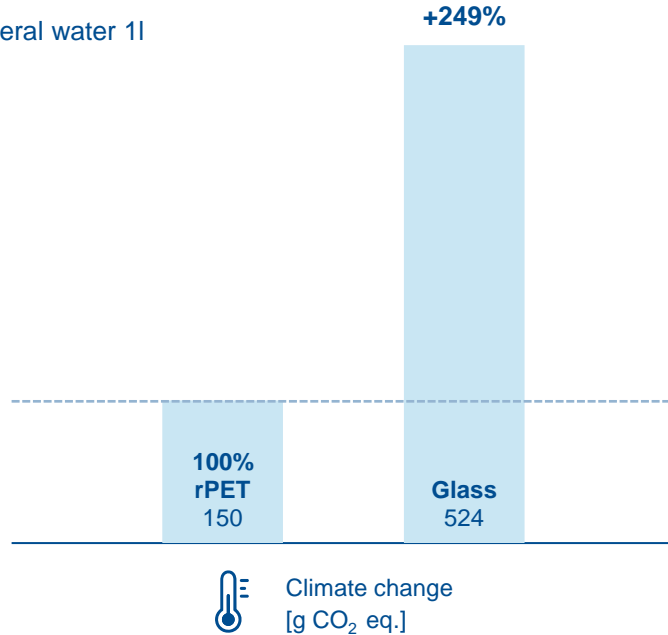
PET Bottle

Glass Bottle

What is more sustainable?

#ChallengingPlastics - RECYCLING

Mineral water 1l



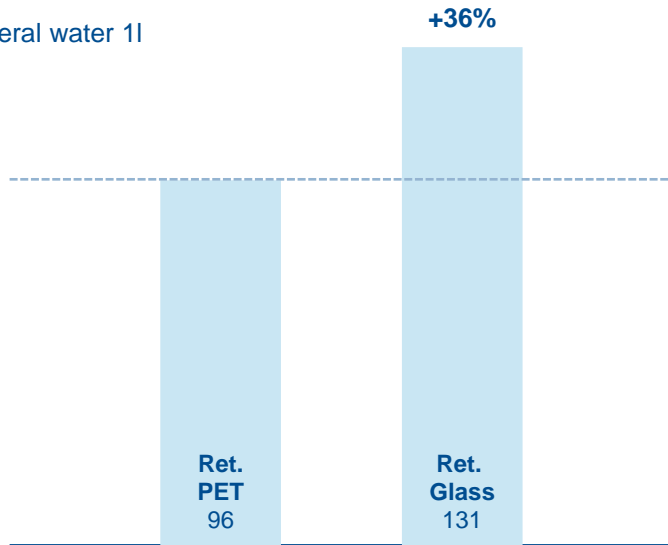
vs.



What is more sustainable?

#ChallengingPlastics - REUSE

Mineral water 1l



Climate change
[g CO₂ eq.]

VS.



Returnable*
PET Bottle

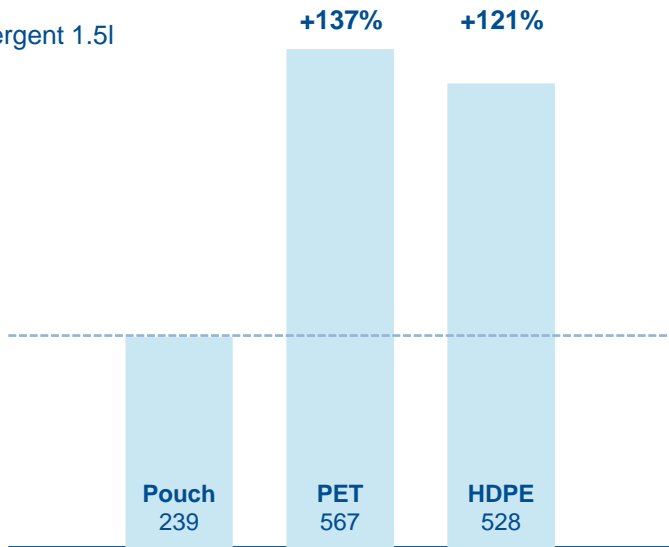
Returnable*
Glass Bottle

* Returnable bottles for industrial refill
Source: Fehringer, Roland: Ökobilanz für Gebinde aus PET und anderen Materialien, January 2024, Czech Republic

What is more sustainable?

#ChallengingPlastics

Detergent 1.5l



Climate change
[g CO₂ eq.]

VS.



Pouch

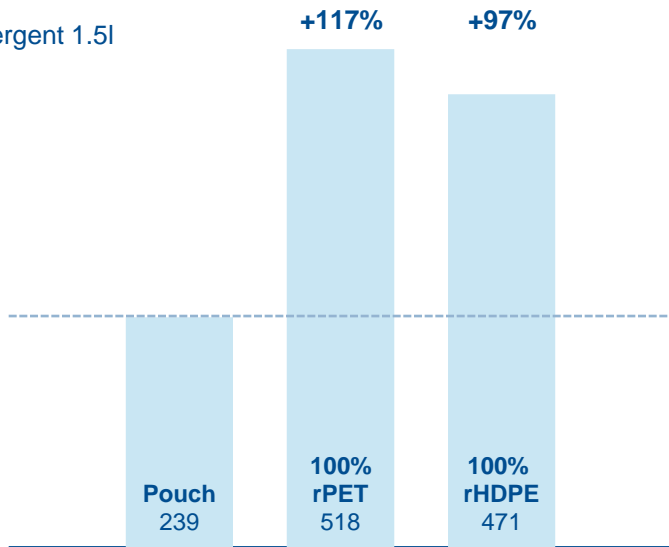
PET

HDPE

What is more sustainable?

#ChallengingPlastics - RECYCLING

Detergent 1.5l



Climate change
[g CO₂ eq.]

VS.



Pouch

100%
rPET

100%
rHDPE

Thank You, Vielen Dank,
Merci Beaucoup, Muito Obrigado,
Muchas Gracias, Grazie Mille,
谢谢, Спасибо, Dziękuję, شكرا,
धन्यवाद, Ευχαριστώ