

Glass
Beverage
Bottles in a Net
Zero World

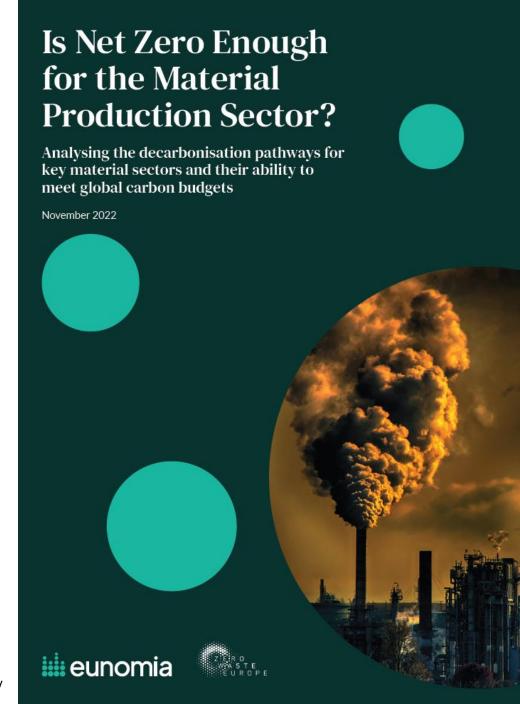


10th October Zero Waste Europe Webinar

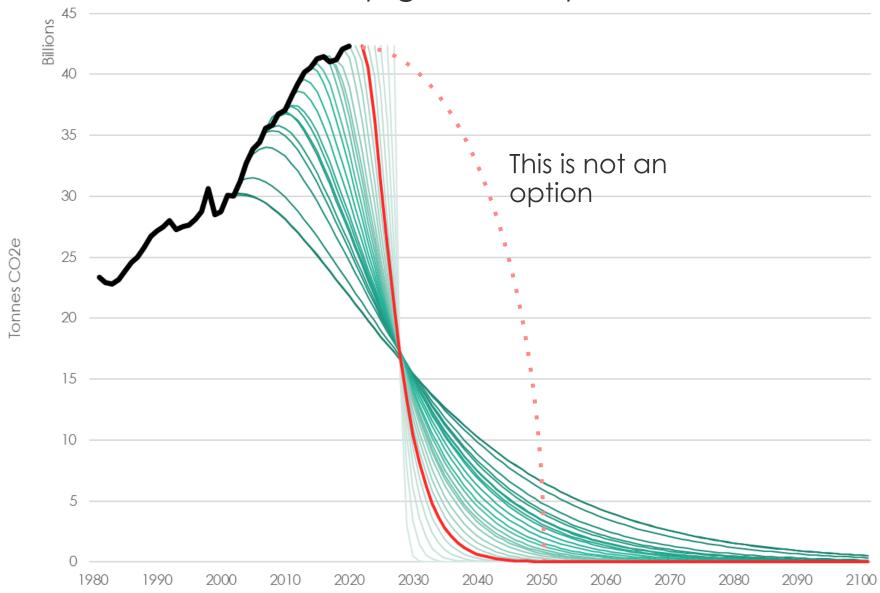
Is Net Zero Enough?*

(*NO)

The Journey is just as important as the destination



CO₂ reductions needed to keep global temperature rise below 1.5°C



400gt

Global Carbon dioxide emissions limit to stay under 1.5°C

(That's 10 years at the current rate)



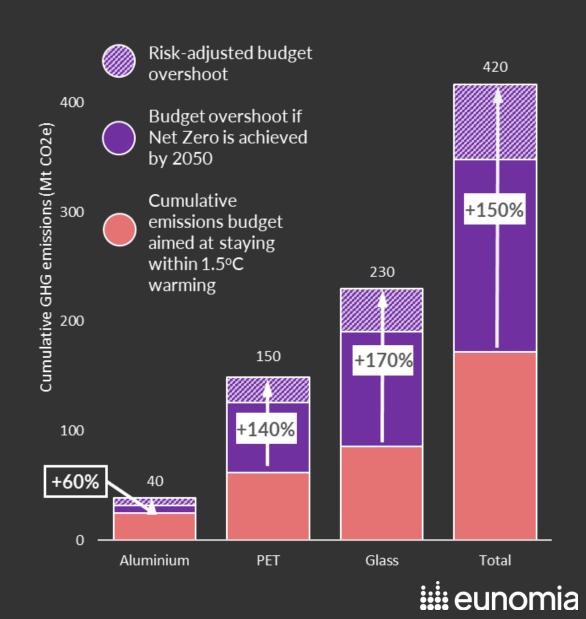
170mt

Carbon dioxide emissions budget for **European beverage containers** to stay under **1.5°C**

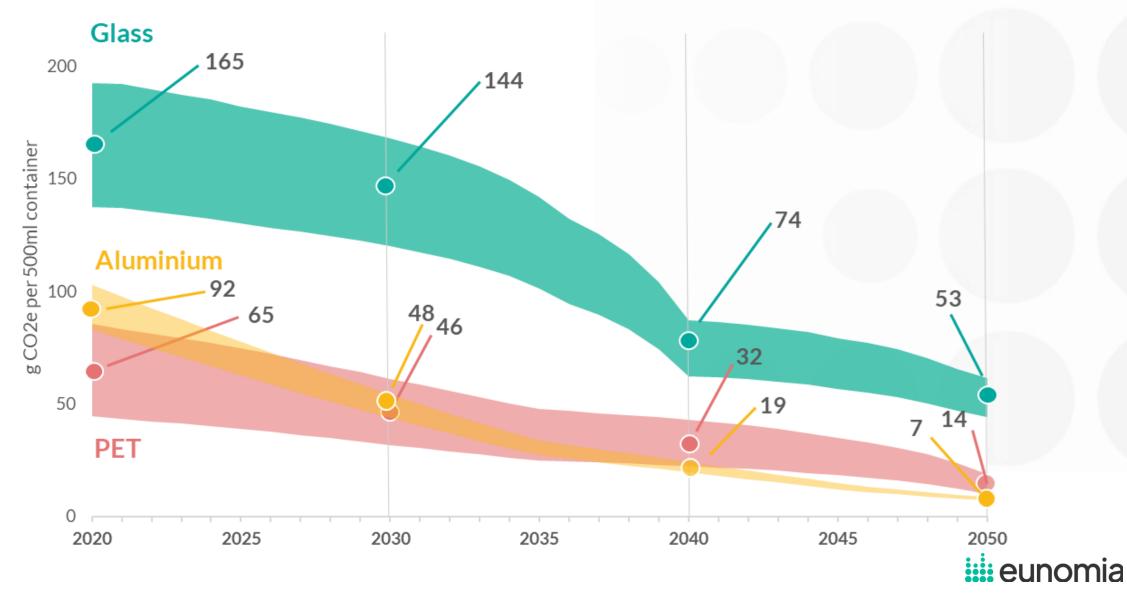


Comparing Carbon Budgets

- Realistic Net Zero pathways were modelled
- The overall budget is exceeded by +150%
- All materials exceed their individual budgets
- Simply switching materials does not keep within the budget



Decarbonisation Pathways for 500ml Single Use Beverage Containers



Comparing Energy Use

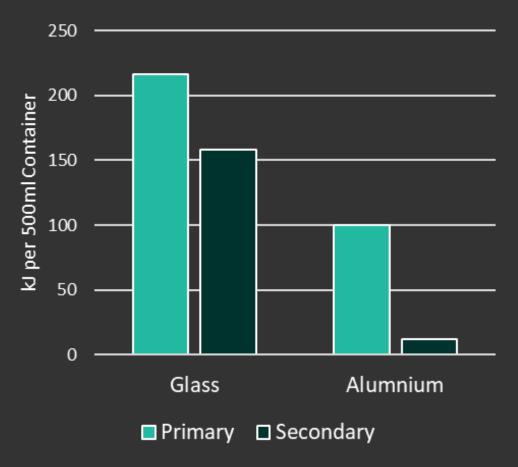
Glass (500ml)

- Primary 216kJ
- Recycling 75% energy
- Secondary 158kJ

*Switch to hybrid furnace can reduce energy demand by ~30%

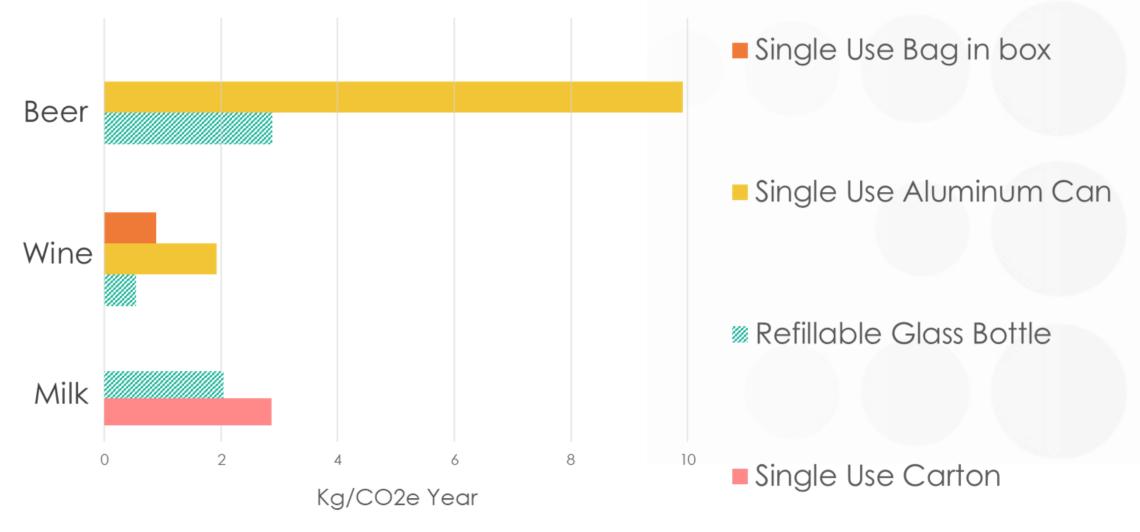
Aluminium (500ml)

- Primary 100kJ
- Recycling 12% energy
- Secondary 12kJ





Beverage Reuse Systems in the USA – Results preview







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Thank You



About Eunomia

Eunomia is an independent sustainability consultancy driven by a genuine passion to make a positive change to the clients we work with and the communities they operate in. Founded in 2001, we have been pioneers in the sector - early advocates for helping NGOs as well as leading public and private sector organisations in the UK and overseas to adapt their approach and adopt more sustainable processes.

Our consultants are experts in the field, deeply immersed in the subject with the technical knowledge and skill to offer clients innovative, clear and practical recommendations. We are committed to finding solutions to better protect the planet, while supporting the wider aims and needs of our clients.

Each client is treated as an individual, with consultants taking the time to understand their objectives and how best we can support them. This personal service ensures a strong relationship is forged, based on honest and regular communication. It also ensures if these objectives change, there is the flexibility to adapt.

As an established leading independent consultancy, clients can have complete confidence that consultants will offer evidence-led solutions based on robust, impartial thinking that offer both pragmatic and positive outcomes.