

Key industry stats



"The construction industry is the second largest consumer of plastic in the UK"

WRAP 2018

"The construction industry produces three times more packaging waste than all UK households combined"

Circular Building, 2016

Zero Waste Scotland

Our Mission

We exist to create a society where resources are valued and nothing is

Our goal is to help Scotland realise the economic, environmental and world's limited natural resources.



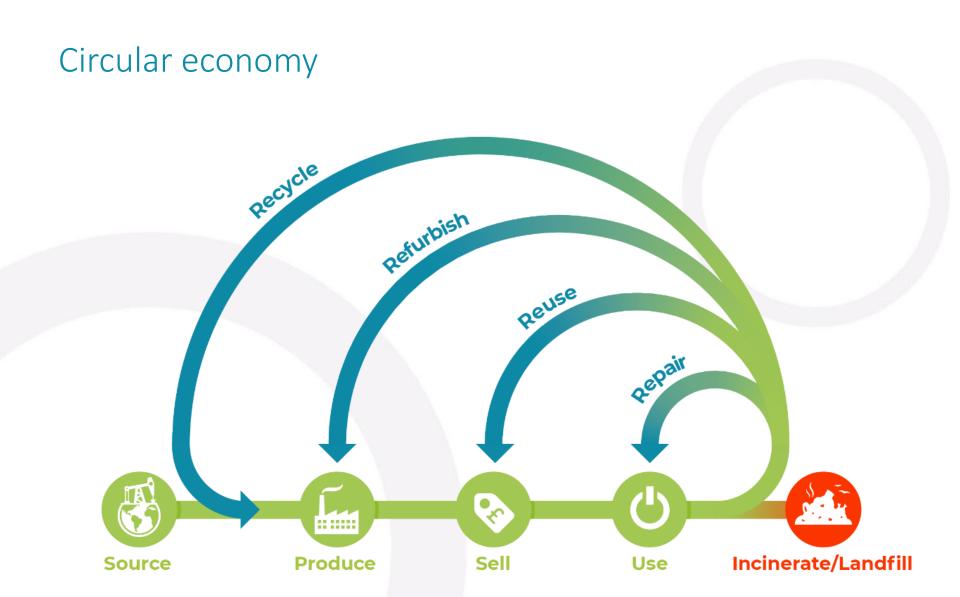
We are Scotland's Circular Economy experts; recognised internationally for our contribution to delivering a Zero Waste future.



What is a circular economy?

"A circular economy is one that is restorative and regenerative by design, and which aims to keep products, components and materials at their highest utility and value at all times, distinguishing between technical and biological cycles"

Ellen MacArthur Foundation.



Waste hierarchy

Best use,

Reduce and conserve materials

refuse, return, reduce toxics, design out waste, reduce comsumption and packaging

Encourage cyclical use of resources and shift incentives to stop wasting

Manufacturers design products for sustainability and take-back

Reuse

(retain value & function)

Recycle

Inorganics

Organics

Regulate disposal



"Strategies at the heart of the circular economy include measures to preserve and extend the life of our current resources, redefine business models, and design out waste."

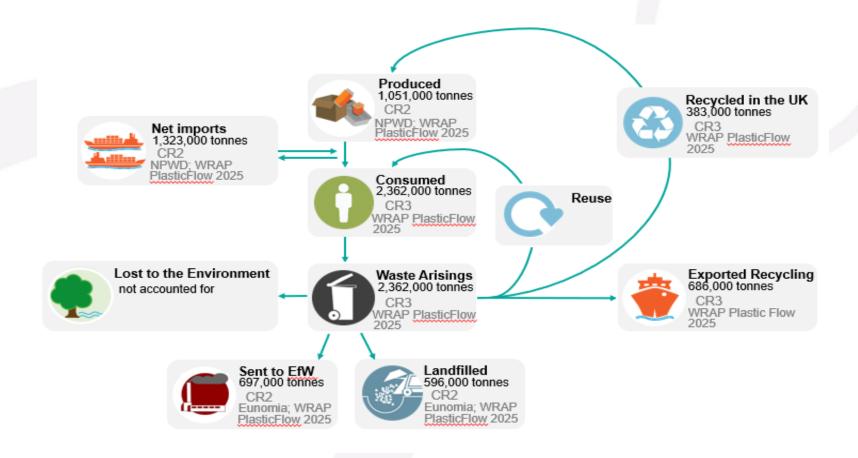
Harald Friedl, CEO Circle Economy

Why is a circular economy important?

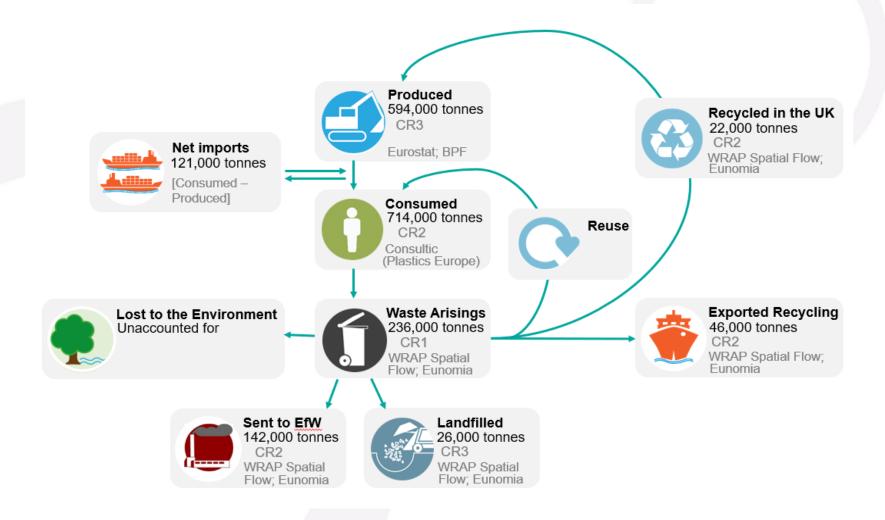
- create new opportunities for growth through the development of new products and services
- reduce waste by creating value at end of life
- drive greater resource productivity and cost efficiency
- deliver a more competitive UK economy
- position the UK to better address emerging resource security/scarcity issues in the future.
- help reduce the environmental impacts of our production and consumption in both the UK and abroad



Plastic Packaging Mass Flow



Building and Construction Mass Flow



Considerate Construction's Spotlight on...plastics and packaging

- The construction industry consumes 23% of all plastic produced in the UK.
- The construction industry generates an estimated **50,000 tonnes** of plastic packaging waste every year.
- In the construction industry, **60%** of all skipped material by weight is packaging waste.
- Around 25% of construction packaging waste by weight is plastic.
- Piping and conduit are the largest uses of polymers in construction, and consume around 35% of production.
- The construction industry produces **three times** more packaging waste than all UK households combined.

Considerate Construction Industry Survey

- 98% said the over-consumption of plastics and packaging is a global issue.
- 95% said the construction industry needs to reduce its consumption of plastics and packaging.
- **92%** believe plastics and packaging are extremely dangerous to the environment.
- said the construction industry is not doing enough to reduce its consumption of plastics and packaging.
- 51% said they have little understanding of the regulations surrounding plastics and packaging.
- 44% said the workforce knows how to recycle different plastics and packaging materials.
- said they frequently use plastics and packaging that cannot be reused or recycled.

Scheme Recommendations

- Create a Site Waste Management Plan
- Introduce CE Principles
- Use Sustainable Materials
- Avoid single-use plastics
- Educate the workforce
- Set an example





Secondary Materials







MacRebur

Asphalt with waste plastic additives

One tonne contains the equivalent of 80,000 plastic bottles



Plastics – reforming our 'throwaway culture'

- We need to reduce the environmental impact of consuming products and materials – that includes plastic and plastic products
- We will require new business models and service delivery as well as changes in consumer behaviour
- We need our products whether
 plastic or not to last longer, then be
 reused, repaired or recycled. There
 should be zero waste in a truly
 circular economy



