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The role of Waste-to-Energy in a circular economy

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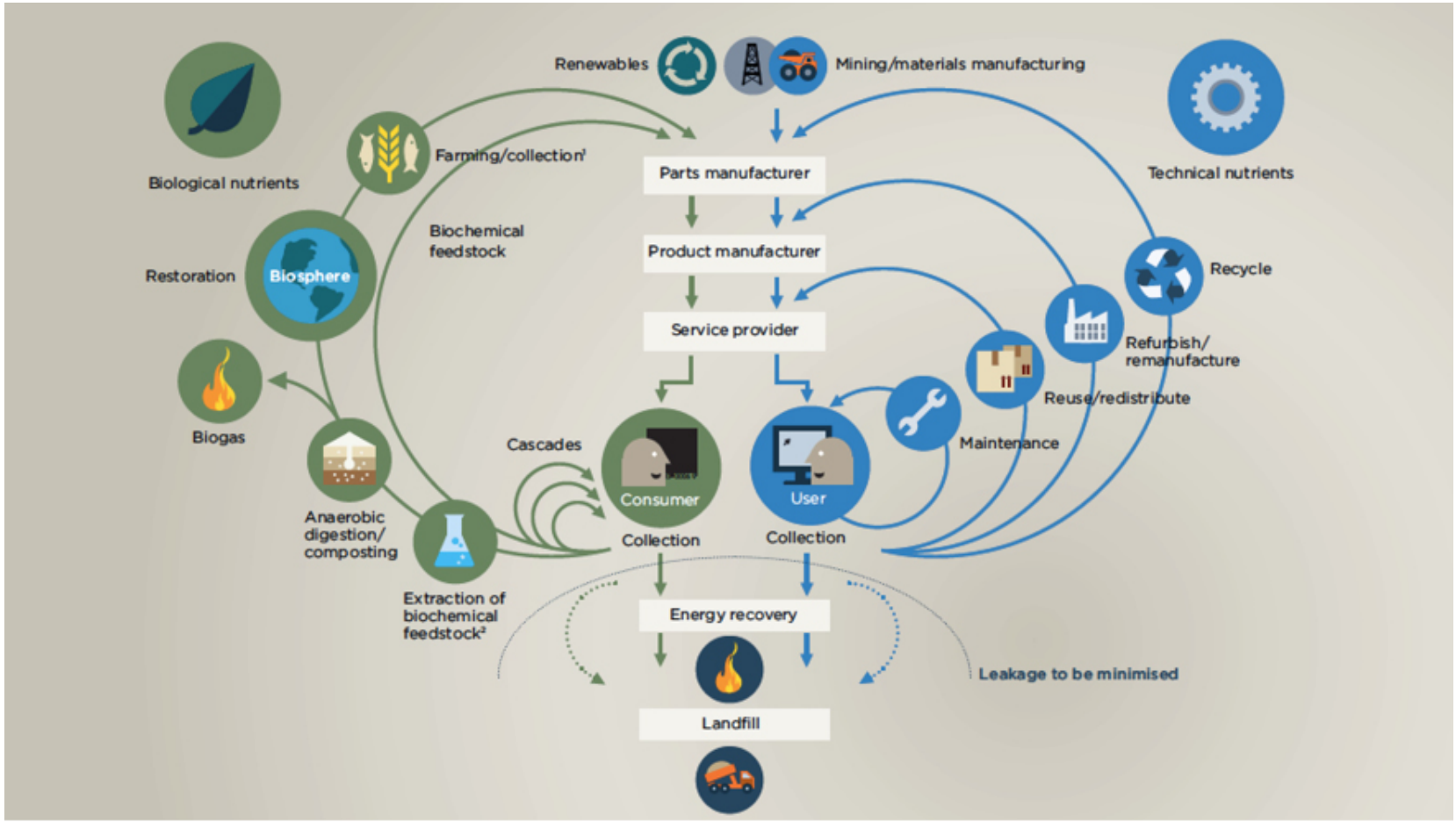
Challenge!

What is the role of WtE in the circular economy?



Picture source: Ellen McArthur Foundation

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What do these cars have in common?

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Just about as much as these…

Photographer:Andreas Offesson

Looks do matter…

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But what about tomorrow?

Something new, something old, and something …

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Critical elements
Detoxification
Platform chemicals
Waste Refinery?
Energy
Nutrients
Materials (wood, paper, plastics, metals)

Summary

Waste-to-Energy will still have a role in a (more) Circular Economy – although depending on the role today- it will most probably be different!

During transition towards a (more) Circular Economy- the importance of Waste-to-Energy might increase.

Thank you!

Swedish Energy Agency

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iea Energy Technology Network

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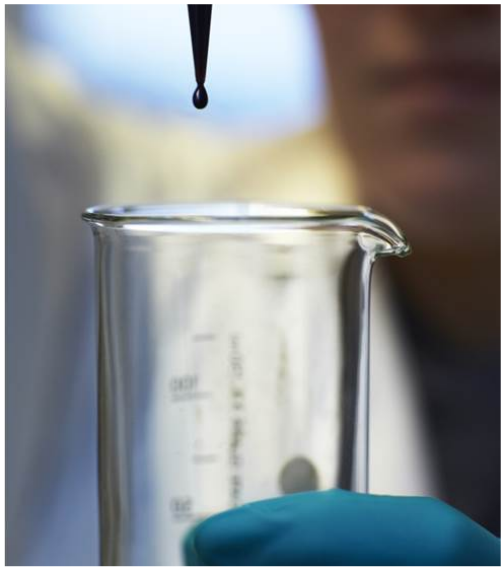
IEA Bioenergy Task 36 – Integrating Energy recovery into solid waste management

- Working group for exchanging knowledge and best practice within policy, technology, research & innovation
- 2 meetings/year usually associated with a themed workshop and a technical visit.
- Some smaller studies/case studies that are published as task reports
  - Pretreatment of waste for gasification
  - Drivers and barriers concerning feedstock recycling
  - Trends in the use of SRF
- Current members: France, Germany, Italy, Sweden
- New work programme is under development for 2019-2021

Task36.ieabioenergy.com

RISE

- Present across the whole of Sweden. And beyond.
- 2,700 employees, 30 % with a PhD.
- A large proportion of customers are SME clients, accounting for approx. 30 % industry turnover.
- Runs 100s of test and demonstration facilities, open for industry, SMEs, universities and institutes (RISE is owner and partner in 60 % of all Sweden's T&D facilities).