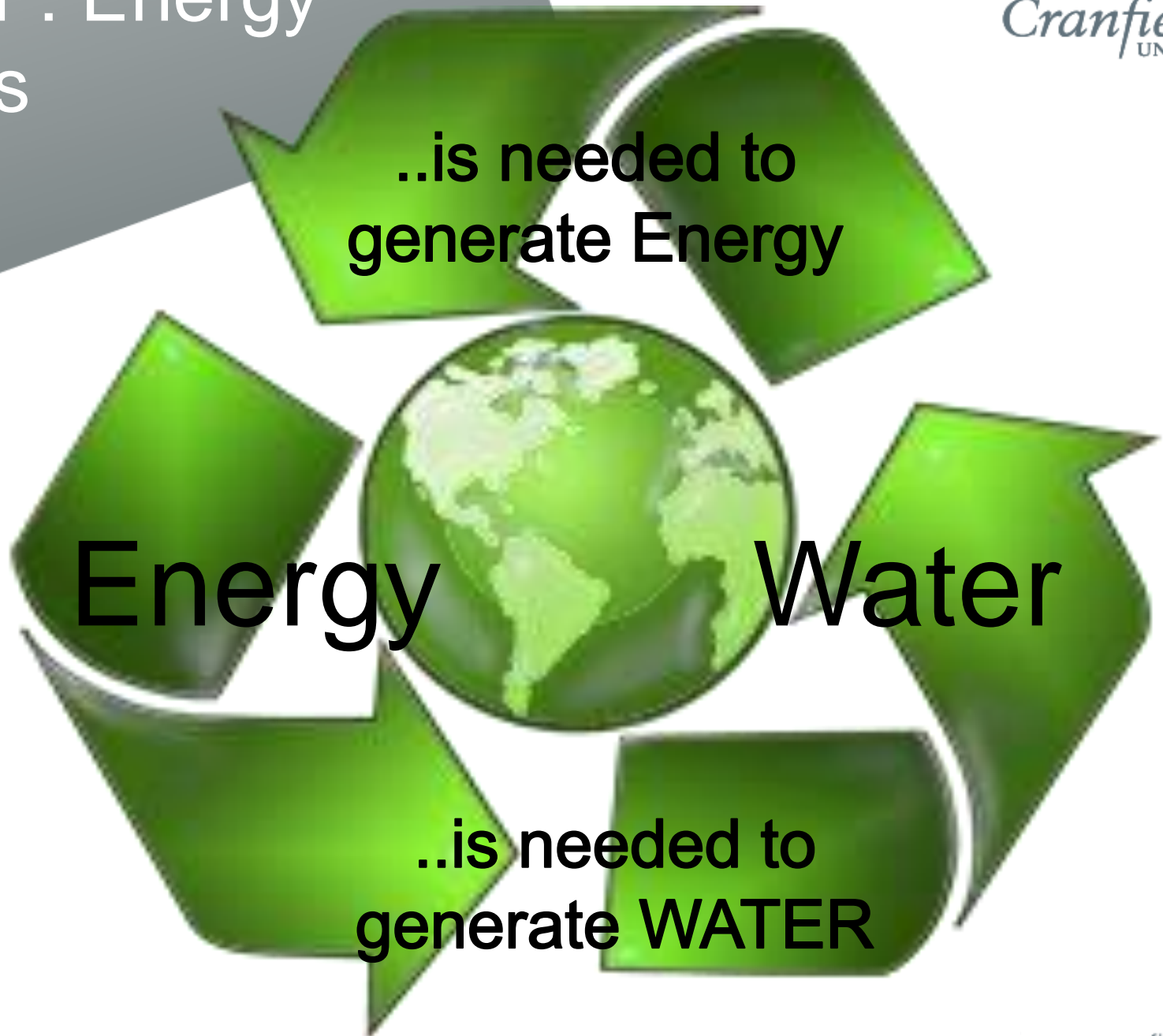


Water : Energy Nexus



Energy used to:

Supply 1 million litres of water **586 kWh**

Treat 1 million litres of sewage **634 kWh**

2-3% of UK total consumption

6-18% of a city's energy demand is used to produce, treat and transport water

Emission of greenhouse gas:

Supply 1 MI of water **0.289 tonnes**

Treat 1 MI of sewage **0.406 tonnes**

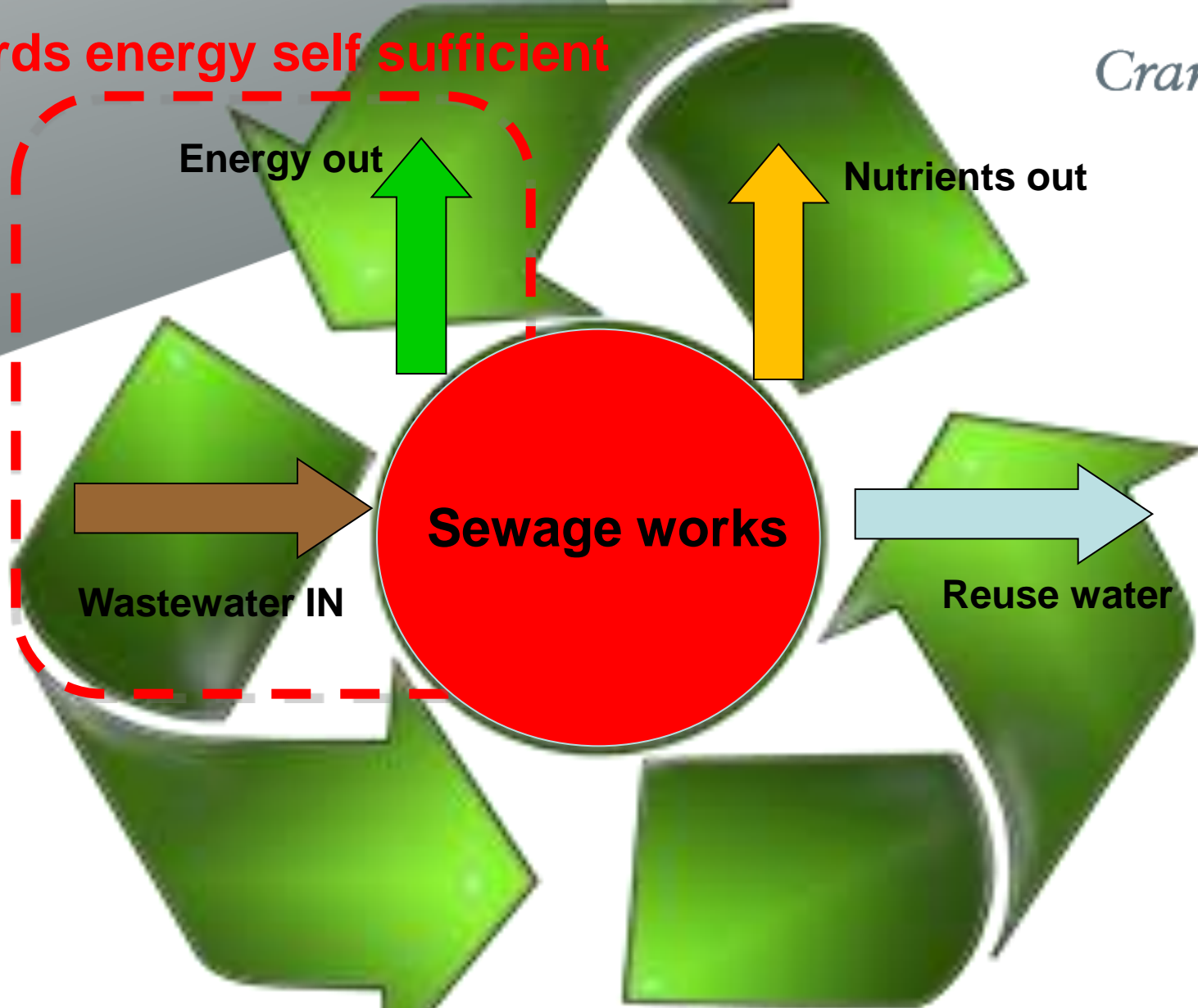
0.5% of individuals annual footprint



UK uses **750,000** tonnes of chemicals to treat drinking water and sewage each year

0.1% recycled

Towards energy self sufficient



Sewage as a resource?

This session speakers:

Keynote Speaker:

Jörgen Ejlertsson, Scandinavian, Biogas Fuels AB
Maximising biogas production in South Korea using Swedish biogas technology

- Francesco Ometto, Cranfield University *Integrated process for biogas production from algal biomass*
- Yolanda Aguilera, Cranfield University
Low Carbon anaerobic wastewater treatment
- Beatrice Smyth, Northern Ireland Water
Carbon management system for NI Water