

LTH, Department of Automatic Control - 2023

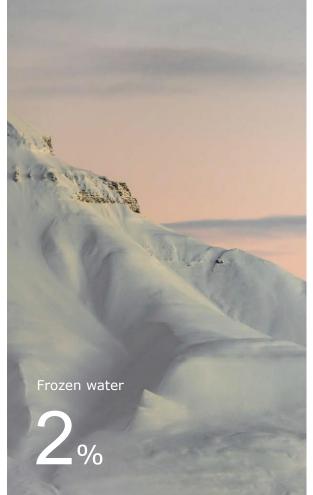
95.8 litres saved

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Our planet's water

Salt 97%

The oceans hold about 97% of all Earth's water.



About 2% of Earth's water is frozen and locked up in glaciers, ice caps and permafrost.





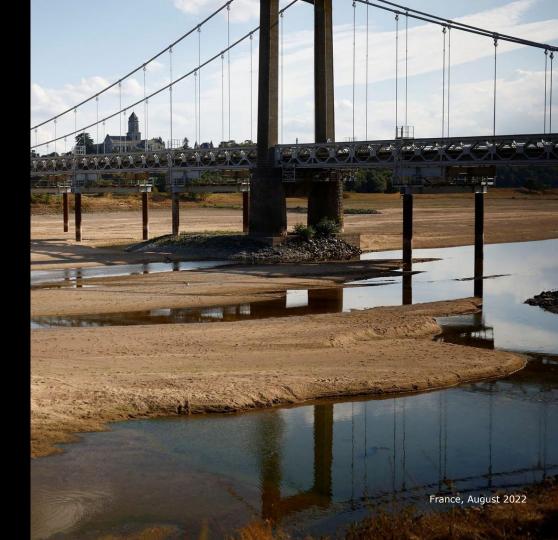
Less than 1% is actually fresh water, what we want to use in our daily

lives.

The problem, water for granted.

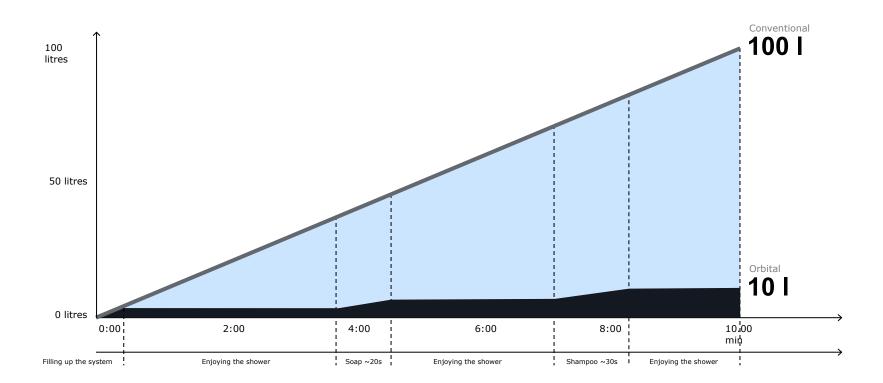


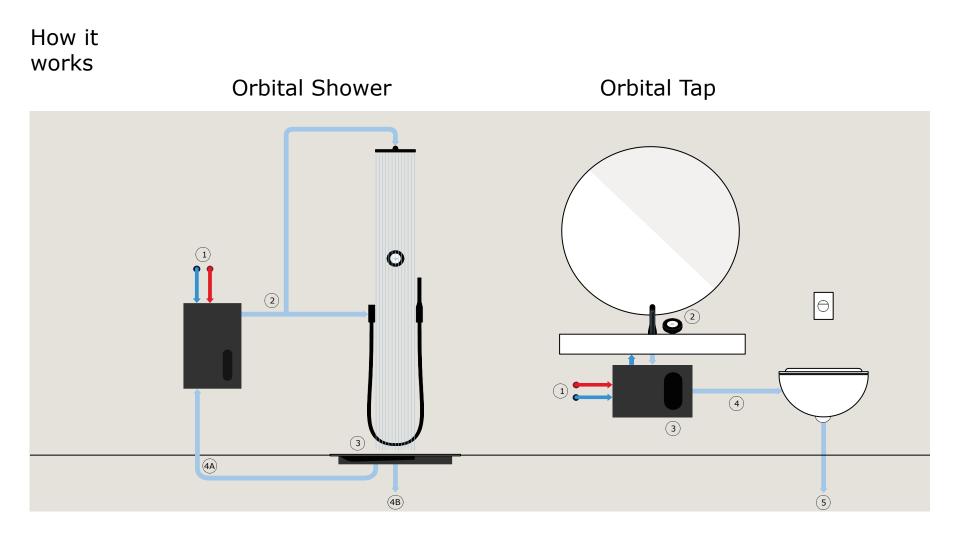
Average water usage in the Nordics per person/day



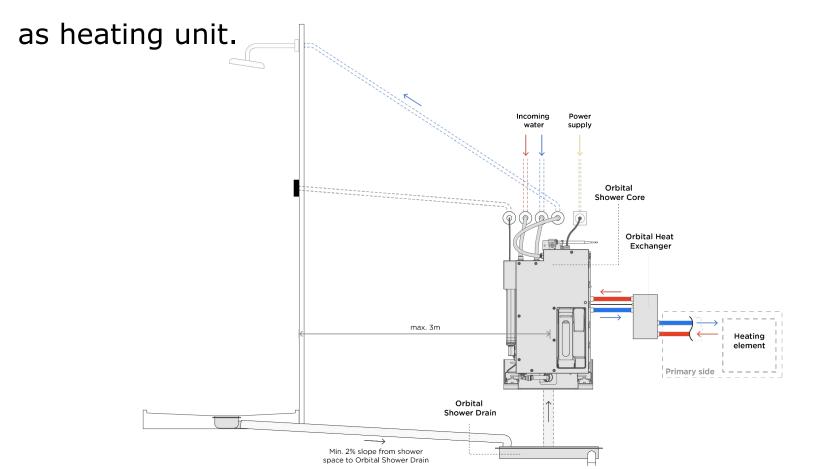
Water usage shower

Conventional Showe





Real time control of shower temperature with heat exchanger



Examples of Thesis

Proposals:

- Water surface tracking using a waveguide.
- Categorize shower contaminations with machine learning.
- Categorize individual's shower pa with machine learning.
- Real time state estimation of a sh installation.







Deach out to us on.

Reach out to us on: alfred@orbital-systems.com masterthesis@orbital-systems.com

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