





Technology for People

TU Wien is Austria's largest research and educational institution in the field of technology and natural sciences.

- 4.000+ researchers
- 5 main research areas
- 8 faculties
- 27.000+ students
- 55 degree programmes

As a driver of innovation, TU Wien strengthens the business location, facilitates cooperation and contributes to the prosperity of society.



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Challenge 1: Desalination Bike (TRL: 6-7)

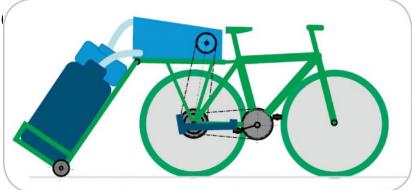
Technology: This mobile unit desalinates sea water and brackish water with the same process used in industrial desalination plants, but driven by muscle power.

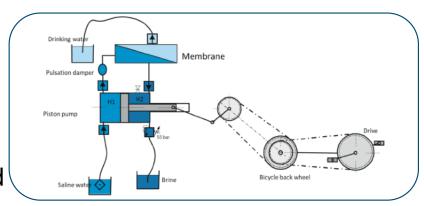
■ Tasks:

- Non-commercial community challenge
- Field tests with several prototypes (10 to 30)

Perspectives:

- Cooperative projects based on a functioning prototype
- On demand advice on funding for joint research projects
- Team of experts in the fields of membrane technology and thermal process engineering







Challenge 2: Liquid-liquid Extractor (TRL: 7-8)

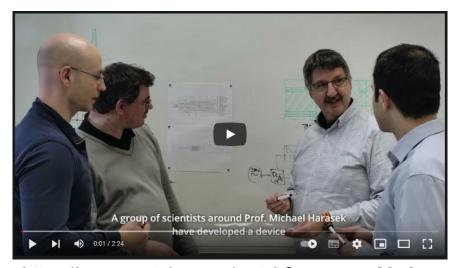
■ **Technology**: TU Wien's novel design allows for more efficient extraction by combining mixing and separation in extraction processes in a two-in-one micro device.

■ Tasks:

- Ideas for new use cases and business models
- Engineering partners for further development

Perspectives:

- Evaluation and feedback on ideas
- Customisation projects, practical tests, proof-of-concepts



https://www.youtube.com/watch?v=qxavne20q6c



Challenge 3: Hydrogen Compressor (TRL: 4-5)

■ **Technology**: This technology enables the clean recovery of pure hydrogen from gas mixtures in fuel cell quality (99.9%) as well as compression, while at the same time methane can be fed back into the gas grid.

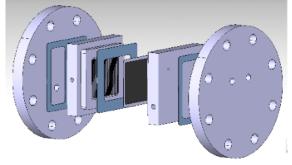
Tasks:

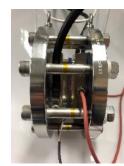
Industrial partners for proof-of-concept or deployment

Perspectives:

- Cooperative projects with an highly experienced team
- Economic exploitation of TUW technology
- On demand support and advice on funding for joint projects









Looking forward to your ideas and meeting you!

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TU Wien Water Challenge
https://www.industrymeetsmakers.com/tuwien-water-challenge







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