Master thesis proposal

Cleaning the world with pure water

Water can be treated to reach different levels purity. Purified water contains almost only H$_2$O and can hence be used to dissolve all kinds of dirt according to the laws of thermodynamics. This opens a pathway to cleaning without detergents, with associated reduction in materials resource use and environmental impact. In a future with abundant availability of wind and solar electricity this option might gain increased attractiveness.

The aim of this work is to study the history and potential future of the technology “cleaning with purified water”. There will likely be some focus on the current status of actors, technologies and markets in Sweden and what drives or hinders further development.

The study is conducted within the Mistra REES research program which has industrial partners active in the technological field.

A suitable background for this master thesis is an education in industrial economics or industrial ecology.

Contact: Professor Björn Sandén, bjorn.sanden@chalmers.se, Environmental systems analysis, Department of Technology management and economics.