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Resource efficiency of the urban water system of Copenhagen

The challenge for cities is to provide uninterrupted water for various purposes. With the growing water stress in the cities it has become difficult to fulfill increasing water demand. Hence, it is essential to look at the urban water cycle in holistic perspective and develop a rehabilitation plan aimed at achieving sustainability on all the dimensions.

In this project indicators such as energy, nitrogen and phosphorus shall be quantified across the existing urban water cycle of Copenhagen city. Flexible model shall be developed in such a manner that future scenarios analysis is possible.

Project type

Topic is suitable for MSc project

Pre-requisite

Knowledge on urban water systems (water supply or wastewater treatment or stormwater management) *and* life-cycle assessment

Group size

1-2 students

Department of supervisors

Main supervisor: DTU Environment/DTU Management
Co-supervisor: DTU Management/DTU Environment

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