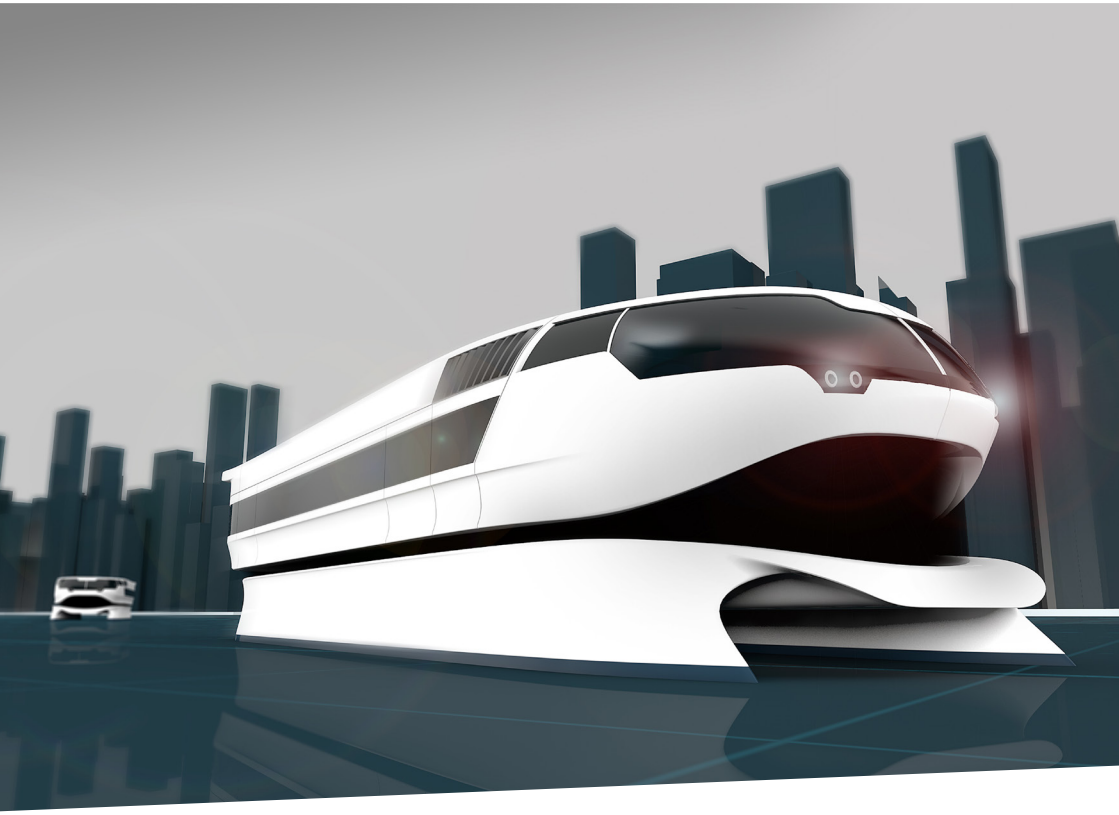
Norwegian Centres of Expertise
NCE **Maritime CleanTech**



Urban Water Shuttle

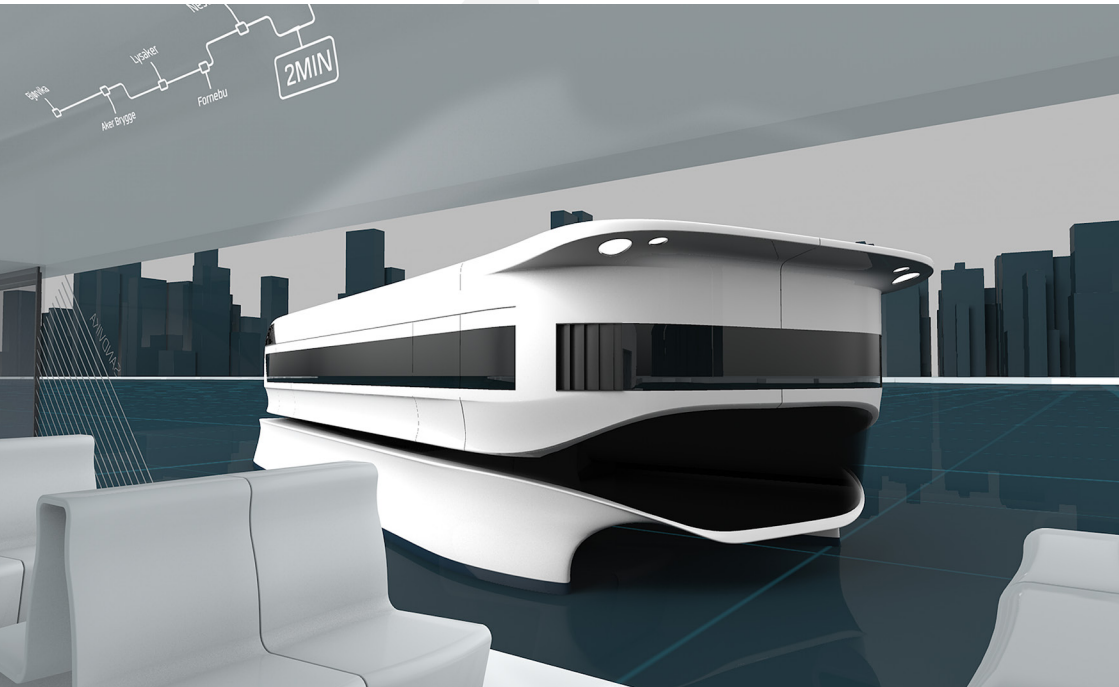
– The waterway to a sustainable future

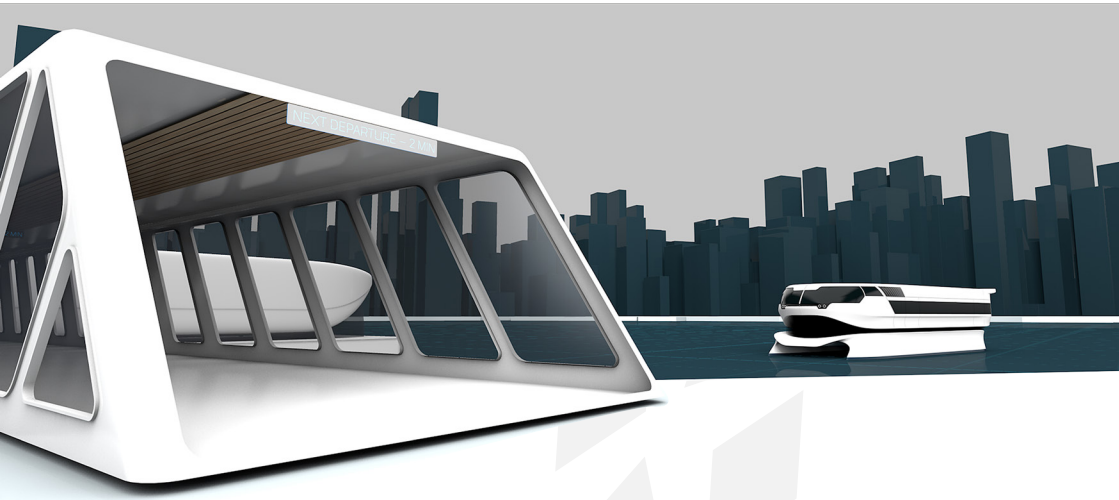
Welcome on board!

Today our cities and other densely populated areas have an ever-increasing demand for public communication. Expansion of the existing infrastructure is often challenging and expensive. In these areas, environmentally sustainable solutions are encouraged to reduce the local pollution.

Conveniently most densely populated areas are located near the sea, lakes or rivers. The Urban Water Shuttle a ground-breaking concept of a zero emission fast going passenger vessel. The concept is a complete transport system with all necessary infrastructures. It utilizes the waterways as rails, an infrastructure with minimal requirements for investment and a high degree of flexibility.

The realization of the concept enables waterway transportation, in addition to reducing emissions and city infrastructure costs. It claims a minimum of land, setting no limitations on the location and placement of terminals.





Zero emissions

The Urban Water Shuttle utilizes known and proven zero emission technology, with the latest generation of battery technology, leaving nothing but clean air and Zero impact on the environment.

The corresponding terminal system is equipped with auto mooring. This allows for a quick and safe passenger disembark/ embarkation, and instant connection charging.

The hydrodynamic hull design, the latest propulsion technology and a facilitated passenger module, secure a state of the art vessel with high passenger comfort, and give the user an efficient experience, associated with a rail system, with short transfers, multiple stops and a jump on / jump off mentality.

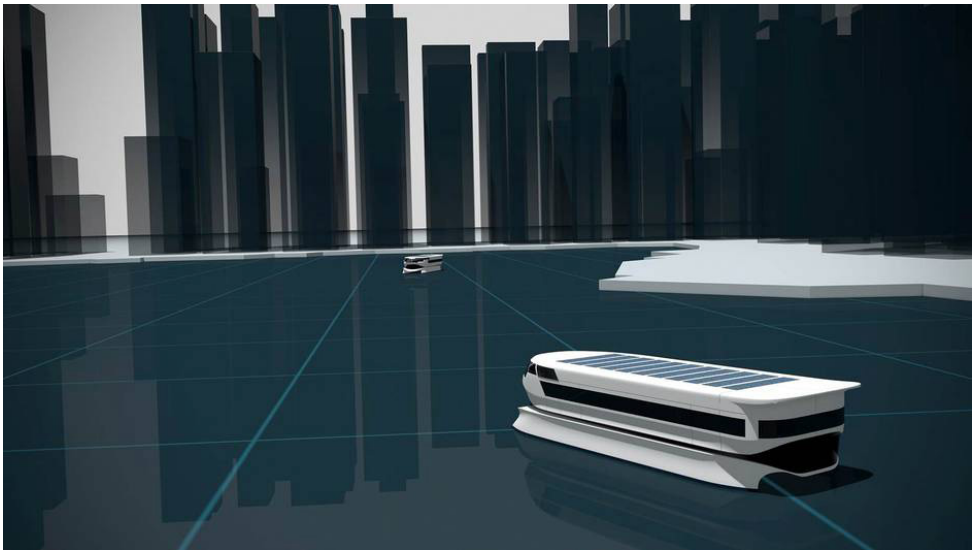
Module design

The vessel is module based, for a cost efficient, time saving and adaptive construction process. The passenger module is highly flexible and can easily be adapted to customers' varying needs. There are also opportunities for installing solar panels that can supply a continuous charge to the batteries.

The utilization of sustainable materials such as aluminium, which has a low maintenance, a long lifespan and low weight, secures an energy efficient vessel with a lower cost than conventional vessels.

It is possible to develop different versions of the UWS concept, but the initial project is based on a vessel with the length of 25-30 meters, for around 180 passengers and an operating speed of 20 knops.

Urban Water Shuttle has been developed by a joint industrial partnership from the business cluster NCE Maritime CleanTech. The partners are Wärtsilä, Fjellstrand, Servogear, Grenland Energy, CFD Marine, Sapa and Norsk Hydro.



Contact Us

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NCE **Maritime CleanTech**

NCE Maritime CleanTech is a world-leading cluster for clean maritime solutions. With partners covering the entire maritime value chain we represent one of the world's most complete maritime commercial hubs. Our cluster participants use their Norwegian maritime expertise, built up over generations, as a springboard for developing and launching new energy-efficient and environmental friendly technologies.

Learn more at **maritimecleantech.no**.