

Power take-off system to the Wave Harvester



Left: The Wave Harvester with cables made of a stretchable capacitor. Right: Cross section of the capacitor cable.

A brand new interdisciplinary project about utilizing the energy of ocean waves has been launched at DTU. The project is called the Wave Harvester and is administered by the company Blue Power Technologies I/S.

The Wave Harvester utilizes a huge capacitor and one of the main challenges will be to develop a power take-off solution. The capacitor has to be charged and discharged every time a wave rolls by and the converted energy has to be extracted. Both high voltage and high power is needed to do this

The specific focus area of your project is set in collaboration with the supervisor at DTU at the beginning of the project, and will include development of one or more of the power take-off sub-units. By participating in the project, you will be part of the development team of the Wave Harvester together with other students from DTU with interest in physics, electronics and mechanics.

The project enables you to work in a team where people have complementary skills, where you contribute to a project aiming at commercialization, and where you can have a flavor of how your post DTU life might be.

You can read more about the overall project on www.bluepowertechnologies.com/dtu.

Contacts:

Jonathan Højberg, Blue Power Technologies I/S, 27292175 (jh@bluepowertechnologies.com)

Michael A. E. Andersen, DTU Electronics, 45253443 (ma@elektro.dtu.dk)