

Tordenskiold is stable and produces electricity

Less than two months ago the prototype and half-scale version of the wave energy plant Tordenskiold from Crestwing was anchored at its destination northeast of Hirsholmene, Frederikshavn.



Developer of the plant, Ruth Bloom, explains that everything is going according to plan.

“With several challenging winter storms, we can easily say that Tordenskiold is stable and it produces very satisfying amount of electricity.” This prototype is showing that a plant based on utilizing atmospheric pressure, is proving effective she says.

The purpose of getting Tordenskiold out to sea is to test the three ideas which

constitute the late Henning Pilgaard's invention which is the special characteristic of Crestwing's plant: the principle of exploiting atmospheric pressure; the specially developed power-take-off system (PTO), and the three-point anchoring system, which has been developed in cooperation with Seaflex.

“These three functions work exactly according to plan. Where we have had the challenges are with some components and techniques selected to produce the plant and the engine room,” Ruth Bloom informs and adds:

“None of these challenges were not been foreseeable. It is a testing facility that is produced with small funds (approx. DKK 18 million) and this is all part of our learning process.”

Monitoring onshore and visits offshore

“We have access to monitoring results online that include: whether the plant is in position; whether the PTO is running properly; how much electricity the plant provides; the humidity and temperature in machine and anchoring rooms, the wind direction, and pitches, rolls and jaws? in the plant, “says Ruth Bloom.

Based on the experience with the existing PTO, Crestwing will add another PTO. There is room for two in Tordenskiold, but the company has started out with one, in order to learn from the experience with its function.

Tordenskiold is now located about one hour's transport from shore, which makes it relatively easy to get to the plant if problems arise.