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## Ocean Navitas confirms conversion

Ocean Navitas Ltd and Nottingham Trent University are conducting tests on what is being described as a revolutionary energy conversion technology called the Aegir Dynamo.

The UK-based wave energy developer stated that the tests confirm the company's prediction that it converts 96.5 percent of captured wave energy into electricity, and with a conversion module weighing only 1.5 tonnes, generates over 30kWh of electricity from waves of only 1.2 meters in height.

"This not only confirms that the technology will be viable in areas with relatively small waves, but also that when scaled up it will cost effectively generate over one megawatt hours in an average coastal sea state of 2.5 meters wave height," stated Ocean Navitas.

The company has manufactured a commercial scale power unit, the Aegir Dynamo, which can be rated up to 200kW. A demonstration unit at its premises in North Lincolnshire is successfully being tested in conjunction with Nottingham Trent University and will be monitored by engineers from E.ON's renewable technologies team. To fully test the Aegir Dynamo unit under controlled conditions a specially designed hydraulic linear wave simulator was constructed - the largest of its kind. It is capable of simulating 2.8 meter waves travelling various periods.

The Aegir Dynamo converter module was subjected to wave patterns that had been electronically monitored in real life by Ocean Navitas in various coastal locations for a period of one month to assess its performance in varied sea states that will be encountered when installed at sea.

Ocean Navitas is currently seeking investment or partnering with another developer to facilitate the construction of sea trial devices for both a 45kW Shorebased design for isolated coastal communities and a 200kW Buoy for commercial power generation.

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