

**Draft Energy Strategy Visits: ORE Catapult**  
**12 June 2017**

**Members in attendance: Gordon MacDonald, Bill Bowman, Andy Wightman, John Mason**

**Charles Thompson – Marketing & Communications Director**  
**Lee Madigan, Head of Communications at Offshore Renewable Energy Catapult**  
**Eileen Greenshields, ORE Catapult STEM Engagement Officer, Levenmouth Academy**

## [ORE Catapult](#)

### **The Catapult Network**

The Catapult centres were set up by [Innovate UK](#) to promote research and development through collaboration between business, science and engineering. Each centre raises funds from public and private sectors.

**ORE Catapult** is based in Glasgow and Blyth, Northumberland. Their demonstration turbine is in Levenmouth. ORE Catapult provide support to 151 SMEs which it sees as being key in driving innovation. They see SMEs as being able to respond quicker and carry out research and development faster.

### **7MW Levenmouth Demonstration Turbine**

The turbine, acquired from Samsung Heavy Industries in December 2015, is the world's most advanced and accessible wind turbine dedicated to research. The turbine trials and demonstrates new technology.

**Blade Erosion** Currently, a key issues facing offshore wind is blade erosion. Their Blade Leading Edge Erosion Programme (BLEEP) is coordinating research to improve understanding on how to manage and prevent it.



**Clone of Levenmouth Turbine (Clowt)** uses sensor instrumentation to advance industry understanding of how large megawatt turbines behave, and identify cost reduction opportunities through design optimisation.

**Limpet Technology** The turbine's location and size makes it the only facility of its kind in the UK has enabled Edinburgh-based SME Limpet Technology to display its award-winning height safety solutions in action in a real-world setting.