

**Monday 30<sup>th</sup> May 2016**

### **OpenHydro deploys second Paimpol-Bréhat turbine**

The second turbine bound for EDF's Paimpol-Bréhat tidal array has been successfully deployed by OpenHydro, a DCNS company.

When the turbines are connected to the grid over the summer the project will be the world's first grid-connected tidal array.

After leaving the port of Brest on 26<sup>th</sup> May, the turbine reached its site off the coast of Brittany on Friday 27<sup>th</sup>. It was lowered on to the seabed on Sunday 29<sup>th</sup> in under an hour by OpenHydro's deployment barge.

The second 16 metre turbine will operate at a depth of 40 metres below the surface - close to the first device which was deployed in January. Over the summer, the array will be connected to a submarine converter, developed by General Electric. A single cable will make landfall – exporting 1MW of energy to the French electrical grid.

James Ives, OpenHydro Chief Executive, said: "OpenHydro, DCNS and EDF have worked hand-in-hand to deliver this milestone for the tidal energy industry. Paimpol-Bréhat is a global industry first; giving us key insights into the operation of our turbines at array scale.

"On a technical and industrial level, it will help us prepare for delivery of EDF Energies Nouvelles' Normandie Hydro project - a 14 MW array set to be deployed in 2018. This historic achievement is also an essential step on the path to commercialisation and in ensuring OpenHydro is well positioned to benefit from the €200 billion tidal energy market which exists world-wide."

The successful deployment comes as OpenHydro announced plans for a purpose-built turbine facility in Cherbourg to act as the industrial hub for the delivery of the Normandie Hydro project. Discussions are ongoing between DCNS/OpenHydro, the Ports of Normandy Authority and the French government agency, SHEMA, to finalise plans for the ambitious facility.

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**About OpenHydro**

OpenHydro is a DCNS company specialising in the design, manufacture and installation of marine turbines generating renewable energy from tidal streams. The company's vision is to deploy turbine

arrays under the surface of the oceans to produce energy silently, invisibly and with no impact on the environment. OpenHydro has achieved a number of industry firsts including being the first to deploy a tidal turbine at the European Marine Energy Centre (EMEC), the first to connect to and generate electricity from tidal streams onto the UK National Grid and the first to successfully demonstrate a method of safely and economically deploying and recovering turbines directly on the seabed. The deployment and recovery method delivers a step change in the economics of tidal energy.

OpenHydro has a project portfolio spanning Canada, France, Northern Ireland, Scotland and the Channel Islands with utility partners including Emera, EDF, Brookfield Renewable Energy Group, SSE Renewables and Alderney Renewable Energy. OpenHydro has won a number of awards for its innovations in the field of renewable energy technology.

### **About DCNS**

DCNS is the European leader in naval defense and a major player in renewable marine energy. It is a high-tech company with a global reach built on meeting the needs of its customers through its unique expertise, unique industrial resources and ability to mount innovative strategic partnerships. The Group designs, builds and supports the service of submarines and surface ships. It also provides services for naval shipyards and bases. The Group offers a wide range of solutions in renewable marine energy. Attentive to social responsibility issues, DCNS is a member of the UN Global Compact. The Group achieved a turnover of 3.04 billion Euros and has 12,953 employees (data 2015).

### **About EDF**

A major player in the energy transition, the EDF Group is an integrated energy company active in all businesses: generation, transmission, distribution, trading, sale of energy and energy services. Leader in low-carbon energy in the world, the Group has developed a diversified production mix based on nuclear power, hydropower, renewable new energy and heat. The Group is involved in supplying energy and services to approximately 37.8 million customers, including 28.3 million in France. He realized in 2015 a consolidated turnover of 75 billion euros, of which 47.2% outside France. EDF is a company listed on the Paris Stock Exchange.