



NOVA SCOTIA ENERGY  
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ENERGY FOR CHANGE

## “Paying the Price”

**Abstract:** Mr. Jeremy Poste, OpenHydro

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### *Tidal: from R&D to industrial...*

OpenHydro is a DCNS company specialising in the design, manufacture and installation of marine turbines generating renewable energy from tidal streams. The company vision is to deploy marine turbine farms under the surface of the oceans to produce energy silently, invisibly and with no impact on the environment. Thanks to the innovations performed in R&D, 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, including in the Bay of Fundy. The deployment and recovery method delivers a step change in the economics of tidal energy.

It is OpenHydro's strategy to develop local manufacturing hubs in regions located close to major areas of tidal resource. OpenHydro plans the deployment of a fully grid connected 4MW tidal array in the Bay of Fundy to be in place in 2015. This project has the potential to be the world first multi-megawatt array of interconnected tidal turbines as well as the first phase of a commercial scale project in the Bay of Fundy, which subject to regulatory approvals, will see the array grow to 300MW.

As the cost for a commercial farm would need to be competitive with other renewable energy options, DCNS is now supporting OpenHydro on its journey to industrial production in bringing its expertise and know how in the industrialization of advanced technology solutions.