



## “Knowing your Site and Sticking To It”

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### ***Site characterisation lessons for commercial tidal array deployments***

Marine Current Turbines Ltd., A Siemens business is a leading tidal energy Original Equipment Manufacturer (OEM) and project development organisation. With two long-term device demonstrations successfully delivered (the 300 kW SeaFlow and 1.2 MW SeaGen devices), financial close on a multiple device array project in the UK is imminent. Working in collaboration with partner organisations Minas Energy and Bluewater Energy Services B.V., MCT is engaged in the Canadian tidal energy market through participation in the Nova Scotia FORCE initiative. This activity forms a key component of MCT’s international project development portfolio, and will be the first demonstration of our standardised Energy Conversion Chain in combination with a floating support structure.

In this presentation, MCT’s Principal Resource Analyst will share site characterisation lessons relevant for informing future commercial tidal array deployments. This will include practical examples of:

- the rapid spatial variability of tidal currents in high energy environments and the significant impact this can have on project economics,
- the impact of sea-bed conditions and bathymetry variability on array layout design and optimisation,
- best practise usage of in-situ measurements and hydrodynamic models to support site development activities.