

Dana Morin

Biography

Dana is Director – Business Development at Fundy Tidal Inc. (FTI) and has been involved in numerous community energy developments throughout Nova Scotia including multiple Smallscale Tidal Community Feed-In Tariff (COMFIT) projects recently awarded to FTI in Digby County.

Dana was involved in establishing the Scotian WindFields network of community economic development corporations active in wind power generation and recipients of several wind power COMFITs.

Dana is a founder of Fundy Tidal Inc. and serves as President of the board of directors which consists of local community, industry and business leaders with a commitment to marine community and energy development.

Fundy Tidal Inc. (FTI) was established in 2006 to take advantage of local interest in opportunities to generate renewable energy from the tidal currents of the Grand and Petit Passages of the Outer Bay of Fundy. FTI's mission is to serve as a vehicle for community-led tidal energy projects and in so doing establish Digby County as a focal point of marine industry development for R&D activities and maximize socioeconomic benefits to the local economy.

Dana currently serves on the Board of Directors of the Ocean Renewable Energy Group (OREG) and is co-chair of the SocioEconomic Committee of the Fundy Energy Research Network (FERN).

Presentation Abstract: Marine Community & Energy Development

Fundy Tidal has recently been awarded approvals for Small-scale Tidal Community Feed-In Tariff (COMFIT) projects in Digby County. Community-led projects include not only activities specific to tidal energy installations, but also challenges associated with integration of renewable energy sources at the distribution system level, as well as socioeconomic factors. This presentation will provide a project status update, outlining steps forward and challenges ahead.

Particular emphasis will be placed on the distribution-level criteria, which caps developments such that the maximum system capacity may not exceed the minimum annual load on the substation. A critical step towards commercialization of COMFIT projects on the Digby Neck is the development of an integrated grid management approach that enables balancing of power production and load requirements.

The objective is to demonstrate that minimum load can be met more regularly, through a combination of tidal energy, storage, and integration of additional variable energy sources including wind and solar. This objective also applies to off-grid "islanded" systems for matching instantaneous load where a diesel generator is the equivalent of power drawn from the NSP grid for COMFIT connected projects.

Fundy Tidal's R&D priorities in the areas of site characterization, TEC device development and testing, Environmental Effects Monitoring, and engaging the community to maximize benefits to the local economy will also be presented.