



Marine Renewable Energy Business & Supply Chain Forum

August 11, 2022

1:00 – 5:00 PM

Westin Nova Scotian
Halifax | Nova Scotia

Presented by:



With Canada and countries around the world working to decarbonize the economy through measures such as electrification and the use of carbon-free fuels like green hydrogen, the amount of clean energy produced will need to increase dramatically. While solar and wind energy are a key focus for expansion, it is increasingly recognized that a diverse electricity mix and solutions will be needed. The opportunity for marine renewable energy like tidal and offshore wind energy to play an important role in both supporting the energy transition and building a Blue Economy is increasing, as are the opportunities for businesses and suppliers with existing capabilities in marine, energy, and offshore industries.

This half day forum is designed to explore the opportunities presented by marine renewable energy development in the Atlantic region. The event will provide insight on supply chain development created by early tidal energy projects, growing business opportunities in the US offshore wind market, and the future potential for offshore wind development in Atlantic Canada. Join us for this half day forum to learn more about how your business can get involved and benefit from the growing marine renewable energy sector.

Event sponsors:





PROGRAM

1:00 – 1:05 pm WELCOME

1:05 – 1:45 pm **THE CONTEXT FOR MARINE RENEWABLE ENERGY IN ATLANTIC CANADA**

Speakers will provide insight on overarching policies, strategies, and trends that have an impact on the energy sector in the region. Attendees will gain an understanding of how this regional context will play a role in the opportunities and challenges presented by marine renewable energy development.

1:45 – 2:45 pm **BUILDING THE TIDAL ENERGY SUPPLY CHAIN**

Tidal energy projects in Nova Scotia have reached significant milestones, with several nearing the device deployment stage. Many local suppliers have been engaged in these projects to date and as projects advance to future phases, there will be continued opportunities for the supply chain. This session will feature insight from developers, government and suppliers on the engagement of the local supply chain to date and what to watch for going forward.

- *Local supply chain impacts and lessons learned to date*
- *What's next – upcoming opportunities for suppliers*

Speakers

- Sarah Thomas, Project Manager, DP Energy
- Jason Hayman, CEO, Sustainable Marine

Others TBA

2:45 – 3:00 pm BREAK

3:00 – 4:45 pm **POISED FOR OFFSHORE WIND: ENGAGING AT HOME AND ABROAD**

The rapid growth of the offshore wind market in the United States (US) poses new business opportunities for Canadian suppliers as the US works towards meeting an ambitious target of 30 GW of offshore wind development by 2030. Even closer to home, offshore wind is quickly becoming an intriguing possibility for Atlantic Canada with recent announcements that set the foundation for future development. This session will focus on the prospects for business and involvement in offshore wind at home and in the US.

- *Engaging in the US Market – what to know and who to engage with*
 - *Update on industry in the US – what are the near-term supplier opportunities*
 - *Specific competitive advantages for Canadian businesses to get involved*
 - *Determining where your business fits into the supply chain and who to connect with*



- ***Supporting a market in Atlantic Canada – Early steps and prospects***

This session will provide insights on steps being taken to support offshore wind development in Canada. Industry speakers will provide insight on their experience in early engagement in

offshore wind markets internationally and lessons learned that could be applied to Atlantic Canada as the region begins early work to explore offshore wind development potential. Attendees will gain insight on supply chain development strategies that have been used by other jurisdictions as well as development and market prospects in Atlantic Canada including green hydrogen and export opportunities.

Speakers

- **Adrienne Downey**, *Principal Engineer and Country Manager*, Hexicon
 - **Trent Vichie**, *CEO & Founder*, EverWind Fuels
- Others TBA

4:45 pm

CLOSING

SPEAKERS



Sarah Thomas, *Project Manager*, DP Energy

Sarah began her career in the US Navy, serving as an officer on a ship homeported in Japan. She transitioned to the shipbuilding industry after her time in the Navy, working for the US government ship procurement office, first as a systems engineer before becoming the Deputy Technical Director of the Littoral Combat Ship (LCS) program. After working on the LCS program for 5 years, Sarah emigrated to Canada and worked at Irving Shipbuilding in Halifax, NS on two of their National Procurement Strategy programs.

With a strong interest in renewable energy and a desire to leave the world in a better place for her nieces and nephews, Sarah transitioned to the Renewable Energy Sector in 2017. She worked for OpenHydro overseeing the technical aspects of their turbine preparations prior to its 2018 deployment. She is currently the project manager for DP Energy's Uisce Tapa Project in Canada, preparing for the project's first turbine installation in the coming years.

Sarah holds a Bachelor of Science in Aerospace Engineering and is a fully qualified Project Management Professional (PMP) with the Project Management Institute. She also holds a Master of Public Policy from Georgetown University.



Jason Hayman, *CEO*, Sustainable Marine

Jason Hayman is the CEO of Sustainable Marine), which he founded in 2012.

Jason is a qualified Naval Architect and has worked in the marine sector since 1996. He has extensive experience in the design, build and refit of vessels, from small rescue craft to high-performance composite racing yachts, ferries, offshore vessels, and the development of lifting and handling systems for the offshore renewable energy sector. Jason has successfully developed and demonstrated several engineering solutions for performing complex tasks in challenging marine environments and has a wealth of operational experience. He successfully delivered a tidal turbine installation system for Voith Hydro's first-generation, bottom-mounted tidal turbine, in Korea, in 2010. Since then he has been dedicated to the mission of developing and delivering a simple, cost-effective, tidal energy system that is easy to install and maintain.

As an entrepreneur, Jason has successfully navigated his way through the start-up labyrinth; starting his journey with an engineering consultancy, and evolving it into a technology development company that won a number of funding competitions and gained the support of a strong network of investors and partners, including propulsion experts SCHOTTEL. This enabled him to build a team and develop the



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PLAT-I floating tidal energy platform, which was successfully installed and demonstrated for the first time, in Scotland, in 2017. Building on this success, Jason led the merger of SCHOTTEL's tidal energy business units in Germany and Canada with Sustainable Marine in 2018. The PLAT-I demonstrator was installed at Grand Passage, Nova Scotia, and Jason now leads a growing team located in Germany, Scotland and Nova Scotia that is delivering the world's first floating tidal array at the Fundy Ocean Research Center for Energy (FORCE).



**Adrienne Downey, *Principal Engineer and Country Manager,*
Hexicon**

Adrienne Downey (B.Eng, MSc.) is the Principal Engineer and Country Manager for pure-play floating offshore wind developer and technology provider Hexicon in the US and Canada.

Adrienne most recently was the Principal Engineer for offshore wind for the New York State Energy Research and Development Authority (NYSERDA). During her tenure, Adrienne led NYSERDA's nation-leading offshore wind program with the goal of reaching 9 gigawatts (GW) by 2035, and successfully procured an excess of 4.1 GW. Previously, Adrienne supported the establishment of wind turbine original equipment manufacturer ENERCON's operations in North America in addition to her own energy transition consulting practice, ADaptation.

Adrienne holds a degree in Chemical Engineer from McGill University in Montreal, Canada, and a Masters in Sustainable Environmental Systems from the Pratt Institute in New York City.



Trent Vichie, *CEO & Founder,* EverWind Fuels

Additional speakers to be added.