



Marine Renewable Energy Business & Supply Chain Forum

August 11, 2022

1:00 – 5:00 PM

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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 – 1:30 pm

WELCOME & OPENING REMARKS

Elisa Obermann, Executive Director, *Marine Renewables Canada*

Speakers:

- **Karen Gatien**, *Deputy Minister*, Department of Natural Resources and Renewables

1:30 – 2:00 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.

Speakers

- **Michelle Robichaud**, *President*, Atlantica Centre for Energy
- Others TBA

2:00 – 3:00 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
 - **Lindsay Bennett**, *Operations Director*, Fundy Ocean Research Centre for Energy (FORCE)
- Others TBA

3:00 – 3:15 pm

BREAK

3:15 – 4:50 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

Speakers

- **Liz Burdock**, *President & CEO*, Business Network for Offshore Wind

- **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.

Moderator: Blair MacDougall, *President*, Waterford Energy Services Inc. (WESI)

Speakers

- **Adrienne Downey**, *Principal Engineer and Country Manager*, Hexicon
- **Trent Vichie**, *CEO & Founder*, EverWind Fuels
- **Dr. Steve Bonnell**, *Manager - Strategic and Regional Assessments*, Impact Assessment Agency of Canada
- **Paul MacLean**, *Director*, Bear Head Energy
- **TBA**, Northland Power

4:50 pm

CLOSING



SPEAKERS



Karen M. Gatien, *Deputy Minister Natural Resources and Renewables, Province of Nova Scotia*

Karen Gatien was appointed Deputy Minister of Natural Resources and Renewables in August 2021. Previously she served as the Associate Deputy Minister of the Department of Education and Early Childhood Development.

Karen has held a variety of leadership positions since joining the Government of Nova Scotia in 1988. These include positions in the fields of workforce development, public school and early childhood education, adult education, employment services, and policy and planning.

Karen holds a Bachelor of Arts from the University of King's College and a Master of Education from Mount Saint Vincent University.



Michelle Robichaud, *President, Atlantica Centre for Energy*

Michelle has more than 20 years of progressive public relations and business management experience. She has lead research projects and community engagement initiatives as a consultant for various government and community groups with her own company and as a community volunteer.

Prior to joining the Atlantica Centre for Energy, Michelle was an award-winning instructor at the New Brunswick Community College fostering partnership through Applied Research and Experiential Learning. She currently serves on the executive committee of the Atlantic Hydrogen Alliance and the Atlantic Clean Energy Alliance.

Previously, Michelle worked in media relations and communications for the Financial and Consumer Services Commission, owned a corporate event management and consulting company, and worked in various roles with the regional economic development agency.

Michelle holds her Business Administration Degree from the University of New Brunswick Saint John and has received a Certified Instructor designation from the New Brunswick Community College.



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

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).



Lindsay Bennett, Operations Director, Fundy Ocean Research Centre for Energy (FORCE)

Lindsay is the operations director at Fundy Ocean Research Centre for Energy (FORCE). Located in Nova Scotia's Bay of Fundy, FORCE is Canada's leading facility for tidal stream technology research, created to better understand how this technology can play a safe, effective role in Canada's clean energy future. Prior to working at FORCE Lindsay served for over a decade in leadership and executive management roles in the non-profit sport sector and in real estate.



Blair MacDougall, *President, Waterford Energy Services Inc. (WESI)*

Blair MacDougall is the founder and Director of Waterford Energy Services Incorporated. Blair obtained a Bachelor of Science degree from St. Francis Xavier University in Mathematics and a Bachelor of Mechanical Engineering degree from Memorial University of Newfoundland. Blair spent the first chapter of his career serving as an engineer and project manager for several large offshore oil and gas producers.

His time as an engineer provided Blair experience in a range of international offshore drilling projects and allowed him to travel and work in countries such as Angola, Equatorial Guinea, the UK, China, India, Ghana and the United States.

In 2003, Blair founded Waterford Energy Services Inc., which remains his business focus to this day. As the Director and Senior Consultant for WESI, Blair oversees an expanding network of engineers and other knowledge experts as they assist an array of international-based energy companies.



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*



marine
renewables
canada



**Dr. Steve Bonnell, *Manager - Strategic and Regional Assessments,*
Impact Assessment Agency of Canada**

Dr. Steve Bonnell is Manager, Strategic and Regional Assessments with the Impact Assessment Agency of Canada. Based in St. John's NL, he is responsible for the planning and conduct of the Agency's national program of strategic and regional assessments. This includes the previously completed Regional Assessment of oil and gas exploratory drilling offshore Eastern Newfoundland, as well as the on-going Regional Assessments in the Ring of Fire area of Ontario, the St. Lawrence River of Quebec, and the recently announced Regional Assessment of Offshore Wind Development in Newfoundland and Labrador and Nova Scotia.

Dr. Bonnell has over 20 years experience working in impact assessment in various roles in industry and government, including assessments for proposed development projects in the offshore wind, hydroelectricity, oil and gas, mining and transportation sectors. Prior to joining the Agency in 2018, he worked with Wood plc (formerly Amec) for seven years as that company's Environmental Assessment Practice Leader, as well as working previously with Nalcor Energy – Lower Churchill Project, the Government of Newfoundland and Labrador, and elsewhere. He holds a PhD in Strategic Environmental Assessment from the University of Dundee, Scotland as well as Masters and Bachelors Degrees in Geography from Memorial University where he is also an Adjunct Professor. Dr. Bonnell has published and presented widely on impact assessment principles and practice.



Paul MacLean, *Director,* Bear Head Energy Inc.

Additional speakers to be added.