



Marine Renewable Energy Business & Supply Chain Forum

August 11, 2022
1:00 – 5:00 PM

Westin Nova Scotian Hotel
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

- **Peter Huttges**, *Chair*, Marine Renewables Canada
- **Tim Gilfoy**, *CEO*, Strait of Canso Superport Corporation Ltd.
- **Andy Fillmore**, *Member of Parliament for Halifax*
- **Karen Gatien**, *Deputy Minister*, Department of Natural Resources and Renewables

1:30 – 2:05 pm

THE CONTEXT FOR MARINE RENEWABLE ENERGY IN ATLANTIC CANADA

The regional context for renewable energy development plays an important role in the opportunities and challenges presented by marine renewable energy development. In addition to insight on overarching policies, strategies, and trends that have an impact on the energy sector in the region, this session will also provide perspective on Indigenous history and what businesses can do to ensure meaningful engagement and involvement in energy projects.

Moderator: *Elisa Obermann, Executive Director*, Marine Renewables Canada

Speakers:

- **Michelle Robichaud**, *President*, Atlantica Centre for Energy
- **Houston Barnaby & Corey Mattie**, *Partners*, Indigenous Treaty Partners (ITP)

2:05 – 3:05 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 on the engagement of the local supply chain in tidal energy development and projects 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*

Moderator: *Terry Thibodeau, Renewable Energy Coordinator*, Municipality of the District of Digby

Speakers:

- **Sarah Thomas**, *Project Manager*, DP Energy
- **Kiley Sampson**, *Operations Manager*, Sustainable Marine
- **Lindsay Bennett**, *Acting General Manager*, Fundy Ocean Research Centre for Energy (FORCE)

3:05 – 3:20 pm

BREAK



3:20 – 4:55 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 (3:20 – 3:40 pm)***
 - *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*

Moderator: *Elisa Obermann, Executive Director, Marine Renewables Canada*

Speaker:

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

- ***Supporting a market in Atlantic Canada – Early steps and prospects (3:40 – 4:55 pm)***

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:

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

4:55 pm

CLOSING

SPEAKERS



Andy Fillmore, *Member of Parliament for Halifax*

Andy Fillmore was first elected as the Member of Parliament for Halifax in 2015.

Mr. Fillmore has previously served as Parliamentary Secretary to the Minister of Infrastructure and Communities, Parliamentary Secretary to the Minister of Canadian Heritage and Multiculturalism, and Parliamentary Secretary to the Minister of Democratic Institutions.

Before being elected as a Member of Parliament, Mr. Fillmore spent 20 years as an urban planner and community builder in the private, public, and academic sectors. He is a founding member and former Vice President of the Canadian Council for Urbanism.

As Halifax's first Manager of Urban Design, Mr. Fillmore's work included projects like the new Halifax Central Library and HRM by Design, a planning strategy to increase development in downtown Halifax. He also served as Director and Associate Professor at the Dalhousie University School of Planning and was the Vice President of Planning and Development at the Waterfront Development Corporation in Halifax, where he oversaw the development of Halifax's mixed-use waterfront.

Mr. Fillmore co-founded the Halifax Strategic Urban Partnership in 2010 and won an Urban Leadership Award in 2012.

Mr. Fillmore holds a Bachelor of Environmental Design Studies (Architecture) and a Master of Urban and Rural Planning from Dalhousie University, and a Master in Design Studies (Urban Design) from Harvard University.

He grew up in Halifax and is a proud champion for his hometown in Canada's Parliament.



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.



Houston Barnaby, *Partner*, Indigenous Treaty Partners (ITP)

Houston Barnaby is a Mi'kmaw from Listuguj, QC. He is an Indigenous Rights lawyer who has represented the Assembly of Nova Scotia Mi'kmaq Chiefs for the past three years in areas of Governance and has gained industry knowledge and experience negotiating Impact Benefit Agreements with proponents in the Province during that time. Houston is also a Board member for the Nova Scotia Community College Foundation, whose mission is dedicated to helping students in financial need and improving access to education.

Growing up on a First Nation's reserve, Houston has seen first hand the importance for all levels of government to come together to find a solution that respects the inherent right of the First Nations to govern themselves and the needs of surrounding communities. Houston is passionate about bridging the gap between stakeholders and rightsholders for a stronger Canada, together.



Corey Mattie, *Partner*, Indigenous Treaty Partners (ITP)

Mi'kmaw/Settler from K'jpuktuk, a member of the Indigenous Professional Association of Canada, and co-founder of Indigenous Treaty Partners (ITP) - Corey Mattie has always been involved with supporting Canadians through complex topics. As a professional keynote speaker to international audiences including the G7 Research summit, United Nation Canada, and Parliament Hill; Corey is a strong advocate for the importance of environmental enhancement, social responsibility, and ethical business practices. A local from Mi'Kma'ki (Atlantic Canada), Corey places strong value on the adoption of Indigenous practice and a triple bottom line for corporate Canada.

Holding a Bachelor of Commerce from Saint Mary's University, a Certificate in ISO Management from the University of Toronto and Ryerson, a Certificate from the Foundation for Environmental Stewardship, a LEED

Accreditation, Antiracism training from both the Human Rights Commission and InterActivist. Corey is well rounded in various aspects of Canadian economic industry and ethical management.

Currently he supports various NGO's including Community Foundations of Canada which supports the mobilization of 93 billion dollars in community endowments, Sector Council of Nova Scotia which supports the enhancement of non-profits across Canada, and Scotia Wind, a medium sized for-profit renewable energy producer. Here Corey Mattie offers years of experience to maximize impact and support knowledge sharing of Indigenous practices, partnership, and decolonization.



Terry Thibodeau, *Renewable Energy Coordinator*, Municipality of the District of Digby

Terry has worked over the years predominantly in the field of renewable energy development, economic development and business counselling. In his previous role as Economic Development Officer Terry was responsible for developing the regions' renewable energy projects and for the delivery of the Business Retention Expansion program. Now as the Coordinator for Renewable Energy and Climate Change for the

Municipality of Digby, Terry works on myriad of renewable energy projects from promoting smart grid opportunities and the introduction of electrical vehicles to implementing energy efficiency programs. The development of a tidal industry in Digby County, as well as opportunities in bioenergy, show great promise for the marine industries and agriculture development.

Terry's other responsibilities include the implementation of a climate action plan for Digby County as part of a strategy for dealing with climate change and in reducing harmful GHGs. He is regularly asked to speak at various conferences on the integration these technologies and their application in society. Terry is this year's recipient of the Digby and Area Board of Trade, 2016 Environmental Services Award in recognition of his contributions to advancing, promoting and advocating for renewable energy and energy efficiency projects.

A graduate of Université Sainte Anne, Nova Scotia's only francophone university Terry also holds a Master of Business Administration from St. Mary's University in Halifax. Terry is on the board of directors of the alumni association at Saint Anne's. Terry met his beautiful wife H  l  ne of 30 +years at Saint Anne's at the local bar... and they have 3 children.



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.

Kiley Sampson, *Operations Manager*, Sustainable Marine



Lindsay Bennett, *Acting General Manager*, Fundy Ocean Research Centre for Energy (FORCE)

Lindsay is the acting general manager 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 energy research, created to better understand how this technology can play a role in Canada's clean energy future. FORCE acts as a host to developers, providing a permitted site, electrical infrastructure, an observation facility, and connection to the power grid. In her role at FORCE Lindsay works with a team of scientists, engineers, ocean technicians and other partners to achieve FORCE's research objectives. Prior to her work at FORCE Lindsay served for over a decade in leadership and executive management roles in the non-profit and real estate sectors, where she worked closely with a variety of stakeholders to increase organizational capacity and impact through collaboration and strategic partnerships.



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

Liz Burdock cofounded the Business Network for Offshore Wind in 2013 and serves as its president and CEO. With a background in policy, Liz has led the Network staff in launching the International Offshore Wind Partnering Forum, the largest offshore wind conference in the Americas, creating critical industry products like Supply Chain Connect, OSW Dashboard, Foundation 2 Blade training, and remains a thought leader in developing the U.S. offshore wind industry and domestic supply chain.

Liz has extensive experience running public/private partnerships. Her career is focused on convening and coordinating diverse stakeholders, including businesses, academics, government agencies, policy makers, community leaders, workforce organizations and strategic investors to develop sound solutions that facilitate the implementation of clean energy in the U.S. Prior to the Network, Liz managed Partnership for Advancing Technology in Housing, a White House initiative that focused on the adoption of new sustainable technologies in the home building industry. She also managed the Chesapeake Crescent, a regional initiative aimed at growing a green economy in the District of Columbia, Maryland, and Virginia.

Liz has a B.S in Sociology from Frostburg University. She is a graduate of Leadership Maryland and was named one of Windpower Monthly's Influential and Interesting Leaders in the Offshore Wind Industry in 2018. Liz has

been featured in energy publications including ReCharge, reNEWS, RTO Insider, as well as the Baltimore Sun, Forbes, Reuters, and the Wall Street Journal.

When not advocating for offshore wind energy, Liz can be found cooking for her son, watching hockey with her husband, shopping with her best friend, gardening with her dog Finn or just spinning up new ideas.



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 NYSEERDA'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*

Trent is the CEO and Founder of EverWind Fuels LLC. Prior to founding EverWind Fuels, Trent Co-Founded Stonepeak Infrastructure Partners, was a Senior Managing Director at The Blackstone Group and a Managing Director at Macquarie Bank. Trent has 25 years' experience in infrastructure mostly as a direct investor and owner of infrastructure assets.

Trent's infrastructure experience including over \$20Bn of equity investments in Renewable Energy, Utilities, Transport Terminals, Midstream Energy, Rail, Water and Communications Infrastructure. In addition to managing a \$20 billion portfolio of infrastructure assets he has sat on the boards of seven infrastructure companies across these sectors. Trent has raised over \$15bn of equity capital from over 100 institutional investors.

Trent received a Master's degree in Economics from Macquarie University (Actuarial Studies) in Sydney Australia, qualified as an actuary as in Australia. He is a CFA Charterholder.



**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, *COO & Canada Country Manager,* Bear Head Energy

Paul MacLean is the Country Manager of Bear Head Energy. Paul has more than 20 years of experience in the energy and environmental sectors. Previously, he led the regulatory and community engagement efforts for Bear Head LNG. In 2021, he and John Godbold reacquired the project from its previous owner and they returned to the project to lead its transition to becoming a producer of green hydrogen and ammonia.

Paul has held senior advisory roles in the development, financing and acquisition of businesses in the natural gas and liquefied natural gas sectors. He has acted as a Senior Advisor to Access Northeast Energy Incorporated, Anadarko Petroleum Corporation and LNG Limited.

From 1990 to 1998 Paul was a consultant to the Federal Government of Canada and the Province of Nova Scotia on investment programs for the development of environmental technology in Atlantic Canada. Paul launched the Technology Partnerships Canada Program which was the predecessor to today's Strategic Innovation Fund. In addition, Paul worked for 24 years at BMO Nesbitt Burns as a Wealth Advisor.

Paul is a graduate of Saint Mary's University and the Technical University of Nova Scotia (MURP). He and his family actively support the Juvenile Diabetes Research Foundation and Team Diabetes Canada.



Ruth Donald, *Project Development Manager*, Northland Power

As Project Development Manager, Ruth leads project development activities for select projects in Northland's portfolio, including leading greenfield initiatives for new opportunities. Prior to her current role at Northland, Ruth worked as a Senior Associate in Northland's Strategy and Market Analysis groups, where she played a key role in forming Northland's strategy for the renewables fuels & hydrogen sector and led Northland's European power market analysis. Ruth joined Northland in 2018 from Brookfield Renewable, where she worked in their market analysis group with a focus on Northeast U.S. power markets. Ruth holds an MSc in Environmental Technology & Energy Policy from Imperial College London and degree in Economics from Mount Allison University.