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A Message from the Chair

The energy industry is constantly evolving and the Maritimes has seen it's fair share of changes this past year. It remains our goal as The Maritimes Energy Association to stay abreast of the constant changes and demands that the energy industry presents and how they affect our members.

Our association is an important part of the energy industry in Eastern Canada as it is the place that governments, investors, operators and producers are directed to by stakeholders. We make our voice heard through our submissions on local energy projects and also share the voice of industry leaders and stakeholders through our various events and participation in international trade missions.

In the past three years, the staff and the Board of Directors have worked together to make the association more inclusive of all forms of energy. We would like to thank Barbara Pike for her dedication and determination in helping the association achieve this mandate, as well as Sara Colburne for executing highly successful and memorable events for our members. The Maritimes Energy Association team remains strong and committed to achieving the goals that have been set.

In the past year we have hosted 14 events, organized four international pan-Atlantic trade missions, held an extremely successful Core Energy Conference and submitted 21 comments on energy projects in Eastern Canada. We have welcomed 62 new members and raised tens of thousands of dollars for our charitable partners. For the third year in a row, The Maritimes Energy Association is the single largest donor to Prostate Cancer Canada – Atlantic. Additionally, we finished the fiscal year in the black for the fourth year in a row.

Even with all of these accomplishments, our focus continues to be customer service and our customers are our member companies. Whether it is speaking at energy events around the globe, talking to decision-makers in the region or commenting on energy issues, our key activity is representing local companies that employ thousands of people and invest hundreds of millions of dollars in our local communities.

Our business is energy. For our member companies, energy may be the majority of their business, or a small percentage. Regardless, we strive to increase their opportunities and potential in the energy industry locally, regionally, nationally and globally.

Our association has been called a “strong voice for the energy industry in Eastern Canada.” We work with governments, operators and other industry associations in a cooperative and collaborative effort to grow business. We believe that we represent our member companies well, but that is not our judgement to make. As such, we encourage our members to let us know when we don't meet their expectations.

I invite you to read the following pages about our activities and again ask that you provide feedback. This is your association and we encourage you to get involved and have your say.

In closing, may I take this opportunity to thank my fellow Board members for their time and dedication to our Association. It also goes without saying, that The Maritimes Energy Association would not be where it is today without the dedication and commitment of our 2013/14 staff – Director of Stakeholder Engagement Sara Colburne, Business and Operations Manager Lori Peddle, Member Relations Coordinator Judy Lynch, Policy Analyst Sean Joudry, Communications and Office Assistant Caitlin Gray, Member Relations Coordinator Paula Broaders and Chief Executive Officer Barbara Pike.

The past year has been a successful one and we look forward to an even better 2015.

Julie Hebert

Chair – 2014 Board of Directors, The Maritimes Energy Association

Board of Directors 2014

Executive

Chair, Julie Hebert – Vice President Operations, East Coast Canada, AMEC Black & McDonald

Vice-Chair, Paul Jamer – *Prince Edward Island Director* – President, Breakwater Group

Treasurer, Paul Sanford – Office Leader & Regional Business Development Leader, Stantec Consulting

Secretary, Darren Zwicker – *New Brunswick Director* – General Manager, Atlantic Canada, Newalta

Past-Chair, Joe Fitzharris – Quality Manager, AMEC Black & McDonald

Directors

Michael Morris – *Renewable Energy Director* – President & CEO, Seaforth Energy, Inc.

Carl Poirier – *Member at Large* - President & CEO, Carbon Capture and Storage Research Consortium of Nova Scotia (CCS Nova Scotia)

Amy Reid – *Member at Large* - Vice President - Atlantic Region, David Aplin Group

Stephen Sayle – *Oil & Gas Director* – SayleGroup Inc.

Bruce Strum – *Member at Large* - President, Strum Consulting

Stephen Wagner – *Oil & Gas Director* – Eastern Canada Manager, Baker Hughes

Mark Warren – *Member at Large* - Project Manager, EastPoint Engineering

John Woods – *Renewable Energy Director* – Vice President Energy Development, Minas Energy

2013/2014 Staff of The Maritimes Energy Association

Barbara Pike – Chief Executive Officer

Sara Colburne – Director of Stakeholder Engagement

Sean Joudry – Policy Analyst (Nov. 2013 – Apr. 2014)

Judy Lynch – Member Relations Coordinator (Nov. 2013 – Jan. 2014)

Paula Broaders – Member Relations Coordinator

Lori Peddle – Business & Operations Manager

Caitlin Gray – Communications and Office Assistant

Committees

Closest to the Hole Golf Committee:

Mark Healy, *AMEC Black & McDonald, Chair*
Kevin Dunphy, *IKM Testing*
Steve Wagner, *Baker Hughes*
Steve Sayle, *Sayle HSE Inc.*
Brett Spicer, *Land & Sea Instrumentation*

Core Energy Conference:

Julie Hebert, *AMEC Black & McDonald, Chair*
Joe Fitzharris, *AMEC Black & McDonald*

Core Golf Committee:

Rohit Seth, *Heritage Gas, Chair*
Chris Cannon, *David Aplin Group*
Neera Ritcey, *Nova Scotia Power*
Rick Edwards, *Atlantic Towing*

Oil & Gas Committee:

Stephen Wagner, *Baker Hughes, Chair*
Carl Poirier, *CCS Nova Scotia*
Bruce Strum, *Strum Consulting*
Colleen Johannesson
Steve MacLellan, *Corridor Resources*
Norm Mensour, *Envirosystems Inc.*
Ali Chaisson, *OrionGroup Atlantic Ltd.*

Government Relations Committee:

Darren Zwicker, *Newalta, Chair*
Carl Poirier, *CCS Nova Scotia*

Membership Committee:

Amy Reid, *David Aplin Group, Chair*
Stephen Sayle, *Sayle Group Inc.*
Shawn Duncan, *Strum Consulting*

Audit Committee:

Paul Sanford, *Stantec Consulting, Chair*
Julie Hebert, *AMEC Black & McDonald*
Paul Jamer, *Aspin Kemp & Associates*
David Lawrence

Renewable Energy Committee:

Michael Morris, *Endurance Wind, Chair*
Andrew Blackmer, *Dillon Consulting Limited*
Carl Poirier, *CCS Nova Scotia*
John Woods, *Minas Energy*

Nominations Committee:

Paul Jamer, *Aspin Kemp & Associates, Chair*
Joe Fitzharris, *AMEC Black & McDonald*
Heaton Rosborough, *Rosborough Marine Centre*
Robyn Webb, *Greater Halifax Partnership*

Association Activities & Reports

Events Report 2013/2014

Overview

The Maritimes Energy Association developed and hosted 14 events in 2014. These included a combination of networking events, supplier information sessions, briefings and the annual Core Energy Conference. Revenue and profit targets were exceeded and expenses were monitored closely and came in under budget.

Association events provide updates on procurement opportunities, project plans and developments within the industry. They also create valuable networking opportunities and offer an opportunity for member companies to promote their involvement via sponsorship. With so much activity in the region in 2014 there was certainly no shortage of topics to cover. A diverse mix of events contributed to attendance of almost 2000 attendees over the course of the 2014 events calendar.

Briefings

Our briefings in 2014 included the following topics:

- Breakfast with Toby Balch, *NS Department of Energy*, Steve Parsons and Dan Christmas on Memski Projects Inc. (January)
- Breakfast with Anita Perry, Bill Slopey, Muhammad Fahim and Lesa Tanner, *BP Canada Energy Group* (February)
- Breakfast with Nova Scotia Minister of Energy, the Honourable Andrew Younger (March)
- Wind Supplier Development Sessions held in Millbrook, Port Hawkesbury and Bridgewater (November)

Dinner Events

Annual Dinner

The Annual Dinner in February was once again a key networking event in our calendar and provided an opportunity to hear from Steve Pohlod, President of the *Energy East Pipeline* and Jeff Matthews, Chief Business Development Officer of *Irving Oil*. The dinner followed the Annual General Meeting (AGM) which marked the formal introduction of the 2014 Board of Directors. The event was held at the Halifax Marriott Harbourfront and attracted more than 200 guests.

WIT

WIT is a new event to celebrate speakers whose philosophies and stories will focus on innovation, leadership and connecting with the wit to get it done. Our inaugural WIT dinner was held at the Halifax Marriott Harbourfront and featured Todd Hirsch, Economist & Author of *The Boiling Frog Dilemma: Saving Canada from Economic Decline*.

Networking Events

Golf

Our annual golf tournament grew again in 2014. Closest to the Hole in **June** had strong sponsor support and saw increased attendance than the previous year. The association received a great deal of support from the host course, Ashburn Golf Course (Old Ashburn), as well.

Mixers

With the generous support of the association's hospitality members, we hosted a members-only Holiday Mixer in December 2013 at the Waterfront Warehouse. Mixers are a great way to give back to our members and provide them with excellent networking opportunities.

Core Energy Conference

The 2014 Core Energy Conference in October provided a definitive overview of the energy sector in our region and offered updates on the direction that several of the major projects will take in 2015.

The conference sessions were held over two days at Pier 21 in Halifax. In lieu of a tradeshow component to the conference, an Industry Gallery was developed to showcase sponsors and member companies through unstaffed displays. This provided exposure for companies, while allowing company representatives to attend the conference sessions. The 12 Industry Gallery spaces available for this inaugural element were quickly sold.

Core Energy is the only conference in Canada that covers the complete energy sector; onshore and offshore, renewable and non-renewable. Topics at the 2014 conference included Canadian pipelines, safety, onshore and offshore regulation, large and small-scale wind projects as well as offshore oil and gas. Nova Scotia Energy Minister, the Honourable Andrew Younger addressed the delegates at the beginning of the conference and Danielle Fong, co-founder and chief scientist of LightSail Energy kicked off day two of the conference.

We thank the following speakers for their contribution to the success of Core Energy 2014:

The Honourable Andrew Younger, Nova Scotia Minister of Energy
Chris Huskison, President & CEO, Emera Inc.
Gaetan Thomas, President & CEO, NB Power
Rob Henderson, VP, Newfoundland & Labrador Hydro, NL Hydro
Patrick Brannon, Director, Major Projects, Atlantic Provinces Economic Council
Mark Brown, Director, Project Development, Pieridae Energy
Mike Whalen, General Manager, Maritimes & Northeast Pipeline
Bernd Christmas, Partner, Cassels Brock

Stuart Pinks, CEO, CNSOPB (Canada-Nova Scotia Offshore Petroleum Board)
Tyler de Gier, Lead Business Development Engineer, Welaptega Marine
Jason Aspin, CEO, Aspin Kemp & Associates
Bert Lewis, Business Development Manager, Mulgrave Machine Works
Martin Daraiche, Partner, Quebec City, NATIONAL Public Relations
Rob O'Connor, Exploration Manager, BP
Danielle Fong, Cofounder & Chief Scientist, LightSail Energy
Bob Bleaney, VP Ottawa Eastern / Atlantic Canada, CAPP
Blair MacDougall, Senior Consultant, Waterford Energy Services Inc.
Austen Hughes, President, Wind4All
Mary-Frances Lynch, Community Relations Manager, Minas Energy
David Meister, Director, New Ross Regional Development Society
Andrew Barry, President, ExxonMobil Canada
Rick Janega, President & CEO, Emera Newfoundland & Labrador
Stephen Sayle, CEO SayleGROUP Inc.
Becky Keen, Owner, Anchored in Safety Inc.
Julie Cohen, President & CEO, East Coast Energy
Sandy MacMullin, Executive Director, Petroleum Resources Branch, NS Department of Energy
Bill Swan, President, Heritage Gas
Martijn Dekker, VP, Appraisal and Hydrocarbon Maturation, Shell Upstream Americas Exploration

Project Lobster

On the first evening of the Core Energy Conference, we hosted the annual Project Lobster Dinner. This “dinner with a twist” is a popular networking event for conference delegates and members. The event features a “lobster race” where members volunteer to be tied up (knee-to-ankle) and race “lobster-style” on a 40 foot track. It was a tight race again this year with nine participants racing in teams of three. The event raised over \$12,000 for our charitable partner, Prostate Cancer Canada – Atlantic.

Core Golf

2014 Core Golf was the closeout event to the Core Energy Conference. After two busy days of sessions, receptions and networking events, a sold-out field of golfers took to the fairways at Glen Arbour Golf Course. In addition to a beautiful day on the course, golfers also helped raise over \$1,600 for FEED Nova Scotia.

Charitable Partnerships

The Maritimes Energy Association continued to support our charitable partners by including a fundraising component to each of the following events:

Closest to the Hole Golf Tournament: Prostate Cancer Canada-Atlantic

Project Lobster: Prostate Cancer Canada-Atlantic

Core Golf Tournament: FEED Nova Scotia

Annual Holiday Mixer: The Parker Street Food & Furniture Bank

These events raised more than \$25,000 for our charitable partners in 2014. We are proud to announce that for the third consecutive year, The Maritimes Energy Association was the single largest donor to Prostate Cancer Canada – Atlantic.

Sponsors

Our many events and activities would not be possible through the year without the support and commitment of our many sponsors. Thank you to all of our sponsors over the past year:

Aluma Systems	ExxonMobil Canada	Oceaneering Canada Ltd.
AMEC Black & McDonald	Falck Safety Services	Oxford Frozen Foods
Atlantic Towing	Fisher Transport Limited	Pennecon Energy Hydraulic Systems
Baker Hughes	Golder Associates	Pennecon Limited
Black & McDonald	Gough Technology Group	PF Collins
Blue Water Group	Hansen Protection Canada	Premiere Executive Suites
BP Exploration (Canada) Ltd.	Heritage Gas Ltd.	Price Waterhouse Coopers
Canadian Association of Petroleum Producers	HSE Integrated	Provincial Airlines Ltd.
Casino Nova Scotia	I. H. Mathers	Residence Inn - Marriott
Cherubini Group of Companies	IKM Testing	SayleGROUP Inc.
Commissionaires Nova Scotia	Integra Technologies	SBM Nova Scotia Contractors Inc.
Cougar Helicopters Inc.	Investors Group	Secunda Canada LP
David Aplin Group	Johnson Inc.	Shell Canada
DSS Marine	K & D Pratt	SLR Consulting Ltd. (Canada)
Dominion Diving Ltd.	KKP Halifax	SPE International
DSS Marine Inc.	Land & Sea	Stantec Consulting
Eastpoint Engineering Ltd.	Manga Hotels	Strum Consulting
Emera Inc.	Maritimes & Northeast Pipeline	The Lord Nelson Hotel & Suites
EM&I Stantec	McInnes Cooper	The Prince George Hotel
Encana Corporation	Mulgrave Machine Works	TTL Supply Ltd.
Encanex	Municipality of the District Of Guysborough	Ulnooweg Development Group Inc.
Enterprise Enterprises	Nalcor Energy	Univar Canada Ltd.
Entiér Services	NATIONAL Public Relations	WSP Canada Inc.
Enviro Systems Inc.	Natural Resources Magazine	
Eskasoni Corporate Division	Newalta	
	NOV Wilson	
	NS Dept. of Energy	

Membership Report

In 2014, The Maritimes Energy Association welcomed 62 new members from all aspects of the energy sector supply chain. Membership saw an 11 per cent increase in sales over the last fiscal year.

To increase the association's profile and connect with industry representatives, our staff attended the Newfoundland & Labrador Environmental Industry Association's Conference in Gander, NL, the Tri-City Mixer Tradeshow in Fredericton, NB (a joint venture of the Fredericton, Moncton, and Saint John Chambers of Commerce), the Exploration, Mining and Petroleum Conference in Fredericton, NB, the Nova Scotia R&D Energy Conference in Halifax, NS, the NOIA Conference in St. John's, NL, the New England-Canada Business Council's Energy Trade & Technology Conference in Boston, MA, USA and the incoming Aberdeen Trade Mission in Halifax, NS.

Trade Missions Report

The Maritimes Energy Association leads a number of trade missions each year. The purpose of these missions is to introduce Atlantic Canadian companies that are part of the energy industry supply chain to new export markets and to expand current export opportunities. The association considers such missions an added service to member companies, although the missions are not restricted to just member companies. In the past year, our association was involved in four trade missions and proved once again the global reach of the supply chain in Atlantic Canada.

The missions are organized with the support, cooperation and collaboration of the Atlantic Canada Opportunities Agency (ACOA), the International Business Development Agreement (IBDA), Nova Scotia Business Inc. (NSBI) and the Nova Scotia Department of Energy (NSDOE). We thank all involved for their continued confidence and faith in our ability to lead such missions. Funding received from ACOA and the IBDA enables our association to book trade show space, hire matchmakers and pay for booth design as well as construction. In other words, the missions are not considered money-makers for the association, but rather a service to member companies.

Trade Missions are about opening doors and developing long-term trade and investment opportunities in foreign markets for Atlantic Canadian businesses in the energy supply chain. They also help build the profile and promote the strength of Atlantic Canada's energy sector, while helping our businesses position themselves in new markets.

These missions are a significant component of Atlantic Canada's international business development efforts and provide greater public profile for delegate companies and organizations, while at the same time expanding their local business network. In 2014, The Maritimes Energy Association played an important role in the following successful missions:

Offshore Technology Conference (OTC) Houston (Houston, TX, USA) – Organized in partnership with the Nova Scotia Department of Energy; thirty-two companies joined the Nova Scotia delegation and travelled to Houston in May.

- Founded in 1969, the Offshore Technology Conference is the world's foremost event for the development of offshore resources in the fields of drilling, exploration, production, and environmental protection. OTC is held annually and attracted 108,300 attendees from 43+ countries and 2,568 exhibiting companies in 2014.

All-Energy (Aberdeen, UK) – Supported through funding from the International Business Development Agreement; seven companies travelled to Aberdeen as members of the Atlantic Canada delegation in May.

- All-Energy Exhibition and Conference is the UK's largest renewable energy event taking place in Europe's energy city, Aberdeen. All-Energy showcases the complete range of renewable and sustainable technologies and a world-class multi-stream conference. Alongside the major exhibition of 450+ exhibitors in 2014, the world-class conference featured over 350 conference and seminar speakers in over 50 sessions.

In-coming China Mission (Atlantic Canada) – Supported through funding from the International Business Development Agreement; twelve companies (sixteen delegates) travelled to Atlantic Canada from China to be a part of this delegation in June.

- The principal objective of the mission was to introduce Chinese mission participants to key players in Atlantic Canada's aquaculture, ocean technology and oil & gas sectors with a view to strengthen commercial and scientific cooperation, as well as international research projects between Canadian and Chinese companies, research organizations, universities and technology clusters. Successful site visits were piloted in New Brunswick, Prince Edward Island, Nova Scotia, and Newfoundland & Labrador.

Caribbean Renewable Energy Forum (CREF) (Miami, Florida, USA) – Supported by the Atlantic Canada Opportunities Agency, the Nova Scotia Department of Energy, and Nova Scotia Business Inc.; ten companies travelled to Miami as part of the Atlantic Canada Delegation in October.

- CREF provides a compelling mixture of world-class content and superlative opportunities to meet all the key participants in this rapidly emerging renewables market. In 2014, CREF gathered over 450 senior participants from 41 countries. CREF is growing every year and has a region-wide opportunity for renewables development opportunities.

Canadian Wind Energy Association Conference and Trade Show (CanWEA) (Montreal, QC) – Supported through the Canada/Atlantic Provinces Agreement on International Business Development (IBDA); five companies travelled to Montreal as part of the Atlantic Canada Delegation in October.

- CanWEA's Annual Conference and Trade Show is the premier wind energy event in North America and considered one of the top in the world. In 2014 it brought together more than 1,500 experts from around the world to discuss the opportunities and latest developments in the wind energy industry in Canada and beyond. The trade show featured more than 120 exhibitors and provided companies with an exclusive opportunity to network and generates new business leads.

Association Submissions for 2014

The Maritimes Energy Associations recognizes the importance of engaging in the public consultation process and supporting the responsible development of the region's energy resources, whether they be onshore or offshore, renewable or non-renewable.

Throughout 2014 the Association commented on a total of 21 projects or topics covering the three Maritime Provinces, ranging from offshore health and safety to wind project Environmental Assessments. All submissions can be viewed under the *Association Documents* section our website.

Below is a list of the submissions made throughout the year and a sentence summary of the project or the Association's position.

Date	Project or Topic
21 Oct. 2014	Maritimes Energy Presentation to NS Law Amendments
25 Sept. 2014	Letter to Nova Scotia Energy Minister on Bill No. 6
09 Jul. 2014	Shelburne Basin Venture Exploration Drilling Project
07 Jul. 2014	Call for Bids NS14-1
01 May 2014	Expert panel on Hydraulic Fracturing Public Consultation in Nova Scotia
22 Apr. 2014	Expert Panel Members re: primer on the Process of Hydraulic Fracturing
19 Mar. 2014	Environmental Assessment Update for Shell Canada Limited's Shelburne Basin Venture Seabed Survey
24 Feb. 2014	Environmental Assessment of BP Exploration (Canada) Limited's Tangier 3-D Seismic Survey
16 Feb. 2014	Draft Environmental Impact Statement Guidelines for the Shelburne Basin Venture Exploration Drilling Project
07 Feb. 2014	Bateston Community Wind Project
29 Jan. 2014	NEB discussion paper 'Advancing Safety in the Oil & Gas Industry: Draft Safety Culture Framework'
08 Jan. 2014	Strategic Environmental Assessment for the Western Scotian Shelf (Phase 3A)
08 Jan. 2014	Strategic Environmental Assessment for the Western Scotian Slope (Phase 3B)
23 Dec. 2013	Comments on the Project Description for the Shelburne Basin Venture Exploration Drilling Project
16 Dec. 2013	Comments from The Maritimes Energy Association on the Goldboro LNG Project's Environmental Assessment
09 Dec. 2013	Submission to the House of Commons Committee on Natural Resources on Bill C-5
22 Nov. 2013	Comments from The Maritimes Energy Association on the Nine Mile River Community Wind Project
20 Nov. 2013	The Maritimes Energy Association Comments on Corridor Resources' Phase II Development at Well Pad F-67
15 Nov. 2013	The Maritimes Energy Association Supports the Maritime Link Compliance Filing
15 Nov. 2013	Maritimes Energy Comments in Support of the Aulds Mountain Wind Farm
15 Nov. 2013	Maritimes Energy Comments on Candidate Key Skills of Panelists for NS Expert Panel on Hydraulic Fracturing

Industry Updates

Prince Edward Island

Wind

Prince Edward Island (PEI) is a global leader in producing wind electricity. Their largest current wind farm has a generating capacity of 99 MW. It was established by GDF Suez North America and is located in West Cape.

Another large-scale project developed by the PEI Energy Corporation is the Hermanville/Clearspring Wind Farm which was commissioned in January 2014. The 30 MW project consists of ten Acciona AW116/3000 turbines.

Due to the Hermanville/Clearspring Wind Farm, 30% of Prince Edward Island's energy demands are met by wind energy. This project promises to generate more than 110 million kilowatt-hours of emission-free electricity for PEI residents each year and has also been an economic generator for the province.

Prince Edward Island is host to the Wind Energy Institute of Canada, established in 1981 with the purpose of "advancing the development of wind energy through research, testing, innovation and collaboration."

Oil & Gas

While there has yet to be commercial production of oil and gas in Prince Edward Island, the province does have a long history of exploration. The first offshore well in Atlantic Canada was drilled in 1943 off the coast of the province in eight meters of water, reaching a depth of 4,479 meters. The most recent wells drilled in the

province were in 2007. "Green Gables #3" was drilled by Corridor Resources to a depth of 2548 metres, and "New Harmony #1" was drilled by Corridor Resources / Petroworth Resources Inc. to a depth of 3234 metres. In total sixteen exploratory wells and one re-entry well have been drilled on and around the island.

New Brunswick

Wind

The government of New Brunswick is committed to increasing the amount of electricity from new renewable sources in New Brunswick to 40% by 2020. New Brunswick's major wind energy infrastructure consists of 113 turbines with a total generating capacity of 294 megawatts.

The five areas proposed for wind development are the Bay of Fundy, Tantramar, Miramichi Bay, Acadie/Chaleur and in-land New Brunswick.

Oil and Gas

New Brunswick has been producing natural gas and oil wells from two operators: Corridor Resources and Contact Exploration. Currently there are 24 active leases and 31 licences to search for oil and natural gas in New Brunswick totalling over 1.22 million hectares. Please refer to **Appendix A** for current list of active leases and licenses.

The Government of New Brunswick released its first progress report on the Oil and Natural Gas Blueprint which is a plan to “address the strategic economic, social and public health dimensions” of the province’s oil and natural gas sector. According to past Energy and Mines Minister Craig Leonard, the “government has experienced great success in working on the

blueprint’s various action items over the last year.” The report also highlighted the development of a new natural gas royalty regime, ensuring that NB residents benefit from the province’s natural resources.

In December 2014, the New Brunswick government introduced a moratorium on hydraulic fracturing in the province following a review process that took place in 2010. The moratorium will not be lifted until more information is known about hydraulic fracturing and until certain conditions are met. However, the government stated in December 2014 as well that they remain committed to the Energy East Pipeline as well as the conversion of the Canaport LNG Terminal.

Tidal

The Bay of Fundy, located in New Brunswick, has the highest tides in the world. New technologies are currently being developed and tested in the Fundy region that have low environmental impacts. New Brunswick continues to research the marine environmental and any potential

impacts from future tidal energy development. Any tidal energy development on the New Brunswick side of the Bay of Fundy will be done in consultation with all Bay of Fundy stakeholders.

Nova Scotia

Wind

Nova Scotia's wind portfolio continued to grow in 2014. Overall, 11 wind projects received environmental assessment (EA) approval by the Minister of Environment and target commissioning in 2014. Please refer to **Appendix B** for a list of these projects.

The South Canoe Wind Farm continued its construction and development this year as the main turbines were delivered in October 2014. The project includes 34 wind turbines which will produce 102 MW of power, which is enough to serve approximately 32,000 homes. South Canoe continues to engage the community by keeping them informed on the project and by providing site tours.

The Sable Wind Project, founded by the Municipality of Guysborough and Nova Scotia Power is continually being developed. They aim to have a 13.8 MW wind farm and become a key part of the renewable energy development in the province.

Tidal

Nova Scotia's tidal industry witnessed a major milestone in late 2013 with NSUARB's establishment of the developmental tidal feed-in tariff rates for large scale projects.

In March 2014, OpenHydro and Black Rock Tidal Power were announced as the successful bidders for two berths at FORCE. They join existing berth holders Atlantis Resources/Irving Shipbuilding/Lockheed Martin Canada and Minas Energy.

FORCE received over \$4 million in funding from the Nova Scotia government to expand electrical

substation capacity to 20MW. FORCE also began construction on a subsea platform and successfully installed underwater power cables in the Minas Passage, totalling 11km.

According to Nova Scotia Power, wind now provides close to 10 per cent of electricity in Nova Scotia. They have also set a target of 25% renewable energy by 2015 and 40% by 2020.

Scotian Windfields also continue to grow their wind farms in the province. They currently have 11 turbines totalling just under 22 MW. They received Environmental Assessment Approval for their Nine Mile River Project in December 2013 as well as for their North Beaver Bank Project in January 2014. In addition, their ComFIT project partnerships were announced in May 2014. They continue to demonstrate their commitment to renewable energy as they became one of the 11 participating firms in the Energy Department consultation process to draft renewable electricity market rules in June 2014.

In September, FORCE partnered with Tocardo, a Dutch-based tidal turbine producer to help commission their 1.95MW small-scale tidal COMFIT project that they were awarded by the province of Nova Scotia.

The Annapolis Tidal Power Plant, the first tidal power plant in North America, continues to generate 80 to 100 megawatt hours every day depending on the tides.

Oil & Gas

Onshore

The results of the independent review of hydraulic fracturing in the province, led by Cape Breton University President Dr. David Wheeler were announced on August 28, 2014. The results suggest there is still research to be done on the risks and benefits of high-volume

hydraulic fracturing in Nova Scotia. Based on these results, the provincial government put a hydraulic fracturing moratorium in place on September 3, 2014 until more is known about the effects of it. Please refer to **Appendix C** for a list of current onshore agreements.

Offshore

Offshore seismic work began in 2013 following the historic work expenditure bids totalling over \$2 Billion in 2012. Shell's seismic program marked the first time that 3D wide azimuth (WAZ) data was acquired offshore of Canada. Shell has registered its Shelburne Basin Venture Exploration Drilling Project with the Canadian Environmental Assessment Agency which will determine whether an environmental assessment will be required for the project.

and three additional source vessels. The 3D WAZ seismic survey occurred from mid-May to mid-September. BP acquired data over an area of approximately 7,752 km². Water depths in the 2014 Seismic Activity Area ranges from approximately 100–4,000 m.

BP is currently conducting a 3D Wide Azimuth (WAZ) seismic survey in and near ELs 2431, 2432, 2433, and 2434. This survey utilizes a five vessel fleet inclusive of two streamer/source vessels

Call for Bids NS14-1 was issued on in April 2014 for six parcels distributed across the north-central and eastern Scotian Shelf. It was announced in early November 2014 that no bids were received. Please refer to **Appendix D** for a current list of Offshore Exploration Licenses.

Maritime Link

The Maritimes Energy Association has been a vocal supporter of the Maritime Link project, recognizing the Maritime Link and Muskrat falls as an enabling project. Not only will it diversify

the region's energy portfolio, but it will also make Nova Scotia part of an energy loop rather than at the end of the transmission line. The Maritime Link is expected to be commissioned in 2017.

Energy East

In March 2014, TransCanada filed an official Project Description for the Energy East Pipeline with the National Energy Board of Canada. Once all necessary regulatory approvals are granted, construction of the pipeline will begin. The goal is for deliveries to Quebec to be in service by 2018, and in late 2018 for New Brunswick.

Energy East is a 4,600-kilometre pipeline that will carry 1.1 million barrels of crude oil per day from Alberta and Saskatchewan to refineries in Eastern Canada. Currently the main components are pipeline conversion, the construction of new pipeline and the construction of new pipeline facilities.

Appendix A

The following table lists the current active leases and licenses in New Brunswick.

LICENCE/LEASE	RIGHT HOLDER	FROM	TO	HA
ONG/lse 01-01R	Contact Exploration Inc.	12-Jul-02	09-Feb-17	717.80
ONG/lse 01-01/44	Contact Exploration Inc.	12-Jul-02	09-Feb-17	359.50
ONG/lse 03-02/55abgh	Contact Exploration Inc.	14-Feb-03	09-Feb-17	89.85
ONG/lse 07-05	Contact Exploration Inc.	26-Oct-07	09-Feb-17	359.40
ONG/lse 13-01	Contact Exploration Inc.	01-Dec-13	30-Nov-18	629.10
ONG/lse 01-01	Pieridae Production Limited Partnership	12-Jul-02	09-Feb-17	6,375.90
ONG/lse 01-01/27	Pieridae Production Limited Partnership	12-Jul-02	09-Feb-17	359.10
ONG/lse 01-01/36	Pieridae Production Limited Partnership	12-Jul-02	09-Feb-17	359.20
ONG/lse 01-01/85ijop	Pieridae Production Limited Partnership	12-Jul-02	09-Feb-17	89.90
ONG/lse 01-01/86	Pieridae Production Limited Partnership	12-Jul-02	09-Feb-17	359.20
ONG/lse 07-01	Pieridae Production Limited Partnership	10-Feb-07	09-Feb-17	5,032.40
ONG/lse 07-03	Pieridae Production Limited Partnership	10-Feb-07	09-Feb-17	718.40
ONG/lse 07-04	Pieridae Production Limited Partnership	10-Feb-07	09-Feb-17	1,076.70
ONG/lse 05-01	Corridor Resources Inc.	05-Jun-05	04-Aug-16	11,883.00
ONG/lse 05-02	Corridor Resources Inc.	05-Jun-05	30-Dec-16	35,930.00
ONG/lse 06-01	Corridor Resources Inc.	16-Jun-06	15-Jun-21	16,564.00
ONG/lse 06-02	Corridor Resources Inc./PCS	16-Jun-06	15-Jun-21	1,441.00
ONG/lse 07-06A	PetroWorth Resources Inc.	26-Oct-07	25-Oct-17	1,054.48
ONG/lse 07-06B	PetroWorth Resources Inc.	26-Oct-07	25-Oct-17	3,888.78
ONG/lse 12-01R	Beneficial Energy Group	13-Nov-11	12-Nov-16	8,221.40
ONG/lse 12-04	Beneficial Energy Group	23-Nov-09	21-Nov-17	5,912.96
ONG/lse 12-02	Windsor Energy Inc.	13-Nov-11	12-Nov-16	24,557.90
ONG/lse 12-03	Windsor Energy Inc.	13-May-09	12-May-17	11,898.83
ONG/lic 10-01	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	35,473.60
ONG/lic 10-02	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	36,061.30
ONG/lic 10-03	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	35,123.00
ONG/lic 10-04	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	36,089.00
ONG/lic 10-05	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	35,603.11
ONG/lic 10-06	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	31,851.33
ONG/lic 10-07	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	34,498.61
ONG/lic 10-08	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	32,898.24

ONG/lic 10-09	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	32,698.14
ONG/lic 10-10	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	28,017.01
ONG/lic 10-11	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	34,687.61
ONG/lic 10-12	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	32,682.35
ONG/lic 10-13	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	34,528.14
ONG/lic 10-14	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	32,390.50
ONG/lic 10-15	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	34,772.60
ONG/lic 10-16	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	35,247.60
ONG/lic 10-17	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	34,530.08
ONG/lic 10-18	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	34,558.72
ONG/lic 10-19	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	25,291.60
ONG/lic 10-20	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	35,162.10
ONG/lic 10-21	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	33,757.81
ONG/lic 10-22	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	34,776.10
ONG/lic 10-23	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	35,463.70
ONG/lic 10-24	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	32,217.43
ONG/lic 10-25	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	27,107.43
ONG/lic 10-26	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	10,042.58
ONG/lic 10-27	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	20,358.38
ONG/lic 10-28	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	35,466.76
ONG/lic 10-29	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	33,164.50
ONG/lic 10-30	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	24,732.00
ONG/lic 10-32	SWN Resources Canada, Inc.	17-Mar-10	16-Mar-15	27,563.79

Appendix B

The following table lists the 11 wind projects that received environmental assessment (EA) approval in Nova Scotia in 2014.

Wind Project	Proponent
Porters Lake Wind Farm Project	Watts Wind Energy Inc.
Chebucto Terence Bay Wind Farm Project	Chebucto Terence Bay Wind Farm Limited
Kemptown Wind Project	Affinity Wind Limited Partnership
Barrachois Wind Farm	Natural Forces Wind Inc.
Bateston Community Wind Power Project	Celtic Current Limited Partnership
Ellerhouse Wind Project	Alternative Resource Energy Authority
Affinity Renewables LP	Affinity Renewables LP
Mulgrave Community Wind Power Project	Celtic Current LP
Limerock Wind Project	Affinity Wind LP
Greenfield Wind Farm	Affinity Wind LP
North Beaver Bank Community Wind Project	Scotian WindFields Inc., Scotian Wind Inc., and WEB Wind Energy North America Inc.

Appendix C

The following table lists the current onshore agreements in Nova Scotia.

Company Name	Information
Donkin Tenements Inc.	Holds a coal gas agreement in the Sydney Basin area of Cape Breton.
East Coast Energy Inc.	Holds the rights of a coal gas production agreement in the Stellarton area.
Eastrock Resources Limited	Holds two conventional exploration agreements in the province in Cumberland County area.
Elmworth Energy, subsidiary - of Triangle Petroleum Corporation	Holds a production lease representing Nova Scotia's first onshore shale gas development and will cover a 10-year period.
Forent Energy	Holds one onshore exploration agreement.
St. Brendan's Exploration Ltd.	Awarded three exploration agreements for conventional rights in Cumberland, Colchester and Pictou Counties.
Stealth Ventures Ltd.	Holds a coal gas production agreement in the Springhill area.

Appendix D

The following table lists the current 12 active exploration licenses in Nova Scotia.

EL #	Company	Issued	Expiry Date	Work Commitment \$
2423	Shell Canada Limited	1 Mar 2012	28 Feb 2018	\$1,756,450.00
2424	Shell Canada Limited	1 Mar 2012	28 Feb 2018	\$303,078,225.00
2425	Shell Canada Limited	1 Mar 2012	28 Feb 2018	\$235,025,888.00
2426	Shell Canada Limited	1 Mar 2012	28 Feb 2018	\$430,139,437.00
2427	Shell Canada Limited	15 Jan 2013	14 Jan 2019	\$2,355,644.00
2428	Shell Canada Limited	15 Jan 2013	14 Jan 2019	\$1,644,336.00
2429	Shell Canada Limited	15 Jan 2013	14 Jan 2019	\$25,878,695.00
2430	Shell Canada Limited	15 Jan 2013	14 Jan 2019	\$1,974,553.00
2431	BP Exploration (Canada) Limited	15 Jan 2013	14 Jan 2019	\$5,281,593.00
2432	BP Exploration (Canada) Limited	15 Jan 2013	14 Jan 2019	\$322,413,027.00
2433	BP Exploration (Canada) Limited	15 Jan 2013	14 Jan 2019	\$637,977,927.00
2434	BP Exploration (Canada) Limited	15 Jan 2013	14 Jan 2019	\$84,327,452.00