

November 2013, No 31

Dear readers,

The Green Marine team is already hard at work organizing its seventh annual environmental conference, GreenTech 2014, to be held June 10th to 12th in Saint John, New Brunswick. You will find the forms for speakers and exhibitors with this newsletter. Green Marine is also working to completely revise its graphic signature and we cannot wait to unveil our new logo in January, as well as our fully redesigned website in the spring of 2014. We are also very proud to present in this issue the team's latest achievements, including the signing of a major agreement with U.S. ports.

Happy reading!

## AAPA AND GREEN MARINE WILL COLLABORATE TO ADVANCE PORTS' ENVIRONMENTAL PERFORMANCE



Alliance of the Ports of Canada, the Caribbean, Latin America and the United States

Green Marine and the American Association of Port Authorities (AAPA) signed a Memorandum of Understanding outlining a new

collaboration to advance the environmental sustainability of ports and terminals operators. The MOU was signed during the AAPA's 102nd Annual Convention in Orlando, Florida. On the recommendation of its environmental committee, AAPA's executive committee has determined that the Green Marine program is valid, applicable and scalable for port authority and terminal operations. AAPA is encouraging participation in Green Marine to all of its members whose operations and environmental initiatives could benefit from the environmental program. Learn more by downloading the full Memorandum of Understanding.



*Green Marine executive director, David Bolduc, AAPA president and CEO, Kurt Nagle, and Green Marine Management Corporation president, Raymond Johnston.*

[Download the Memorandum of Understanding](#)

## WELCOME TO OUR THREE NEW MEMBERS

### GREEN MARINE IS PLEASED TO WELCOME A NEW PARTICIPANT



**Pinnacle Renewable Energy** is a producer and marketer of Wood Pellets. As part of a growing initiative, Pinnacle has designed and

built Westview Terminal in Prince Rupert in order to receive, inventory and load wood pellets in bulk. Ultimately, the wood pellets will be loaded on board Ocean Going Vessels bound for overseas markets in Western Europe and Asia. Environmental protection considerations were part of the terminal design in terms of noise propagation, fugitive dust emissions, waste management and spill prevention.



Know someone else who is interested in Green Marine?  
Please send us their email at [manon.lanthier@green-marine.org](mailto:manon.lanthier@green-marine.org).  
Visit our website [www.green-marine.org](http://www.green-marine.org)



## GREEN MARINE ALSO WELCOMES TWO NEW SUPPORTERS



The **Carbon War Room** is a global, independent non-profit organization based in the United States. It has developed a search tool, powered by Rightship's Existing Vessel Design Index (EVDI), to provide a systematic, transparent means of comparing the relative theoretical efficiency and sustainability of an existing fleet by measuring a ship's theoretical CO2 emissions per nautical mile travelled.

The main objective of **Technopole Maritime du Québec** is to accelerate the development of Quebec's marine science, technology and biotechnology sectors by promoting their resources and expertise nationally and internationally, while providing value-added services to its members as well as support for priority long-term projects.



## DAVID BOLDUC RECEIVES THE 2013 ST. LAWRENCE AWARD

The St. Lawrence Economic Development Council (SODES) presented Green Marine's executive director, David Bolduc, with the XXI St. Lawrence Award. Bolduc was announced as the recipient October 22nd during a cocktail reception for Québec Marine Day.

The St. Lawrence Award is annually presented to an organization, company or individual that has stood out over the past year by making an exceptional contribution to or realizing a project that advances the St. Lawrence region's economic development while encompassing the principles of sustainable development. An independent jury of leading individuals in their respective fields outside the marine industry chooses the award's recipient. Green Marine's influence well beyond the St. Lawrence and Great Lakes region, where the program was originally intended, shows the efforts to recruit new members and expand the environmental program throughout North America.

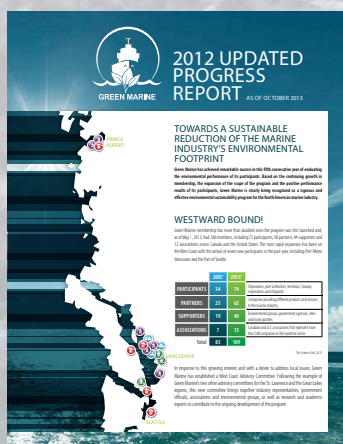


*"David has been involved in the marine industry for 10 years. His commitment, dedication and professionalism have led Green Marine this year – the fifth consecutive year of its participants evaluating their environmental performance – to remarkable success."*

--Nicole Trépanier, SODES president

## GREEN MARINE PRESENTS ITS PARTICIPANTS' VERIFIED RESULTS

Download our updated progress report to view the 2012 results by Green Marine participants now that the external verification process has been completed.



## THE 2013 SELF-ASSESSMENT GUIDES ARE READY

The year is quickly coming to an end, which means it will soon be time for the Green Marine environmental program's participants to assess their environmental performance for 2013. The period of self-assessment will run from January 1st to April 1st, 2014. The new 2013 self-assessment guides are now ready and available on line to facilitate this yearly evaluation process.

**PORTS, TERMINALS, SHIPYARDS  
AND SEAWAY CORPORATIONS**

**SHIPOWNERS**





# INDUSTRY SUCCESS STORIES

## NUMBER OF GREENER VESSELS ON THE RISE

No less than five new more efficient, environmentally friendly vessels are now in service.

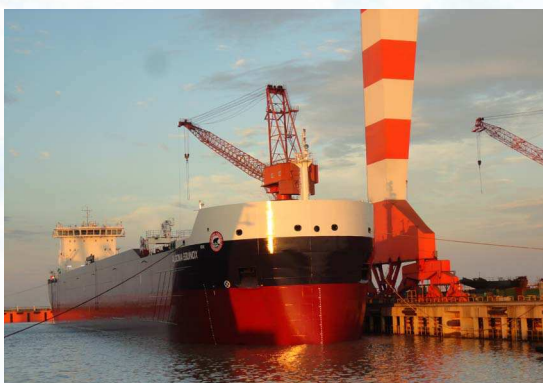


**Oceanex** has taken delivery of the Oceanex Connaigra, Canada's largest Con/Ro ship – a hybrid container and roll-on/roll-off vessel. The new ship arrived in St. John's, Newfoundland and Labrador, in October. With a total 13,700 square metres of available space and deadweight of 19,300 metric tonnes, the Oceanex Connaigra is designed to carry containers ranging 20 to 53 feet in length, as well as trucks, trailers, automobiles and oversized cargo. Classified a "clean ship" by DNV, the Oceanex Connaigra already meets the stricter environmental regulations scheduled to take effect in 2015.



The **Société des traversiers du Québec** commissioned the MV Peter Fraser for the L'Isle-Verte – Notre-Dame-des-Sept-Douleurs crossing in late October. This is the first ferry in Canada to be equipped with a diesel-electric hybrid propulsion system. Its use of battery power is at the forefront of green technologies. Built by the Forillon shipyard in Gaspé, the ferry can accommodate 70 passengers, 12 cars and dozens of bicycles. It has a passenger lounge on the main deck and a glass roof observation deck with a panoramic view.

The **Algoma** Equinox set sail from China on October 1st. She is expected to arrive in Canada by the end of November. The Algoma Equinox is the first in a series of eight Equinox Class vessels being built at the Nantong Mingde shipyard. The Equinox Class ships have been designed to improve fuel efficiency by 45% and optimize



all performance aspects to minimize the ship's environmental impact. A fully integrated exhaust gas scrubber will remove 97% of all sulphur oxides emissions. This is the first IMO-approved, integrated scrubber on a Great Lakes-St. Lawrence vessel. You can follow the Algoma Equinox's maiden voyage with the captain and crew's [blog](#).

**Ocean** will christen its newest vessel on December 13th at the Port of Quebec. The Tundra 100 is the most powerful harbour tug ever built in Canada. Its hull is treated with an Ecospeed coating from Hydrex – a highly resistant, non-toxic and long-enduring substance that enables Océan to reduce its environmental footprint. The boat will spend the winter in Quebec City, after which it will be entered into North Shore service as a harbour and escort tug. The new tug was first successfully put into water October 18th at the shipyard in l'Île-aux-Coudres.



**Canada Steamship Lines (CSL)** held a celebration October 7th to salute the maiden voyage of the fourth newly built Trillium Class laker, the MV Baie Comeau, to her namesake city. During her first voyage to the City of Baie Comeau, she discharged grain loaded from Thunder Bay, Ontario. Like all Trillium Class vessels, the Baie Comeau represents the next generation of self-unloaders. Employing leading-edge technology, she is designed to provide overall operational efficiency. To achieve her dual objectives to meet customers' evolving needs and protect the environment, she uses less fuel, releases significantly fewer emissions, and minimizes cargo residue.



## SQUAMISH TERMINAL LEADS SHORE CLEANUP

Squamish Terminals coordinated a 3rd Annual Great Canadian Shoreline Cleanup event in September to engage the community and increase awareness about the impact of litter on shorelines. The event was a huge success, attracting 160 volunteers who filled 125 garbage and recycling bags with an estimated 2,500 pounds of litter from 20 kilometres of the Squamish estuary and oceanfront – and all in less than two hours!



## ALGOMA INTRODUCES SUSTAINABILITY REPORT



Algoma Central Corporation has published its first Sustainability Report. It replaces the Algoma Environmental Report and is substantially broader in scope, providing a detailed report card on all aspects of the corporation's sustainability performance. Click [here](#) to read the full report.

## CREATION OF AN ENVIRONMENTAL OBSERVATORY FOR THE BAY OF SEPT-ÎLES

The Port of Sept-Îles is collaborating with CÉGEP de Sept-Îles (the local college), the municipality, the local environmental protection corporation, and Economic Development Sept-Îles to create an environmental observatory for the Bay of Sept-Îles. The observatory will be headed by the *Institut nordique de recherche en environnement et en santé au travail* (the school's nordic institute for environment and work safety research). This important project will enhance the understanding of current and future environmental impacts by establishing an updated, credible baseline of environmental data. It will cost nearly \$400,000 to complete the first phase, with half of the financing ensured by the Port of Sept-Îles.

## PRINCE RUPERT LAUNCHES COMMUNITY INFORMATION FORUM



The Prince Rupert Port

Authority has invited members of the public to join a forum that will provide opportunities for ongoing dialogue about port operations and developments. The new Community Information Forum will have a maximum of 20 registered members.

The goal is to include environmental, aboriginal, municipal, business and other community interests, as well as the general public. The members will prompt the topics for discussion. These could include port-related project design, employment and training opportunities, port harbour operations, health and safety issues, business opportunities, environmental monitoring, or other topics deemed appropriate by the forum.

## PORT OF CLEVELAND WINS ENVIRONMENTAL PRIZE

Cleveland-Cuyahoga County Port Authority was presented with the American Association of Port Authorities (AAPA) 2013 Environmental Improvement Award during the association's annual convention, in Orlando, Florida, last month. The port received the award for its restoration project in the Cleveland Harbor. The Cuyahoga River is cleaner and more beautiful after the first full season of operation by the sister work barges, Flotsam and Jetsam, commissioned and built to unique specifications with a grant from the U.S. Environmental Protection Agency. They were designed and put into service to restore and protect the environmental quality of the Cleveland waterways. Flotsam carries a mini-excavator with a custom shovel to scoop out debris that is then loaded into special trash containers on Jetsam for disposal. The vessels also carry water pumps and floating booms to push debris or a chemical spill into a concentrated area for roundup. One barge is also fitted with a hydraulic crane and grapple to hook onto debris. Only a few weeks after their commissioning, the work barges demonstrated their value by removing approximately 24 tons of floating debris generated by Superstorm Sandy.





## UPCOMING EVENTS

### HWY H<sub>2</sub>O 2013 CONFERENCE

The 9th Annual HWY H<sub>2</sub>O Conference will take place November 13th to 14th, 2013, at the Toronto Airport Marriott. This year's theme is The Global View: Adapting to Changing Markets with an eye to remaining competitive. Sessions will share insights on economic activities, cargo trends, infrastructure developments that capture business opportunities, as well as innovation throughout the global maritime industry. **[Click here](#)** to register or to view the program.



# GREENTECH 2014

The Green Marine team is already enthusiastically organizing GreenTech 2014, our seventh annual conference on green technologies and innovation for marine transportation, to be held in Saint John, New Brunswick, June 10-12, 2014.

### Call for papers

Green Marine welcomes proposals for papers from marine transportation community members focusing on real-life experiences, case studies and/or leading edge research that show delegates how best practices, new technologies and insightful partnerships make a difference in the field.

Green Marine invites you to submit papers on the different environmental issues covered by our environmental program performance indicators and on subjects of current interest to our participants.

Proposals must be sent **no later than Monday, November 18, 2013.**

### Call for exhibitors

Green Marine also invites all of its partners, participants and supporters to take part as exhibitors in this key marine transportation community event. GreenTech sessions focus on real-life experiences, case studies and/or leading-edge research that show delegates how best practices, new technologies and insightful partnerships make an environmental difference in the field.

The conference targets all companies and organizations involved in improving the marine industry's environmental performance, with particular focus on Green Marine members. Please note that booths are limited and will be assigned on a **first-come, first-served** basis. Reserve now!

Download the call for papers

Download the call for exhibitors

Visit the GreenTech 2014 website for more information

## GREEN MARINE MEMBERS

### ASSOCIATIONS

- American Association of Port Authorities
- American Great Lakes Ports Association
- Association of Canadian Port Authorities
- Canadian Ferry Operators Association
- Canadian Shipowners Association
- Chamber of Marine Commerce
- Chamber of Shipping of British Columbia
- Council of Marine Carriers
- Ontario Marine Transportation Forum
- Shipping Federation of Canada
- St. Lawrence Economic Development Council
- St. Lawrence Shipoperators
- United States Great Lakes Shipping Association



## GREEN MARINE MEMBERS

### PARTICIPANTS

#### Shipowners

- Algoma Central Corporation
- Atlantic Towing Limited
- Canada Steamship Lines
- Canfornav
- Cogema
- Croisières AML
- CSL International
- CTMA Group
- Fednav Limited
- Groupe Desgagnés
- Island Tug and Barge
- Lower Lakes Towing Limited
- McAsphalt Marine Transportation Ltd.
- McKeil Marine
- Ocean Group
- Oceanex
- Reformar
- Seaspam Marine Corporation
- SMIT
- Société des Traversiers du Québec
- Sterling Fuels (Hamilton) Ltd.
- SVITZER Canada
- TBS Shipping Services Inc./Roymar Ship Management, IncMgt.

#### Ports

- Cleveland-Cuyahoga County Port Authority
- Duluth Seaway Port Authority
- Greater Victoria Harbour Authority
- Halifax Port Authority
- Hamilton Port Authority
- Illinois International Port District
- Montréal Port Authority
- Nanaimo Port Authority
- Port Metro Vancouver
- Port of Milwaukee
- Port of Seattle
- Port of Valleyfield
- Prince Rupert Port Authority
- Québec Port Authority
- Saint John Port authority
- Saguenay Port Authority
- Sept-Îles Port Authority
- Thunder Bay Port Authority
- Toronto Port Authority
- Trois-Rivières Port Authority
- Windsor Port Authority

#### Seaway

- St. Lawrence Seaway Development Corp.
- St. Lawrence Seaway Management Corp.

#### Terminals and shipyards:

- Bunge of Canada
- Ceres Terminals Inc.
- Cliffs Natural Resources Inc.
- Empire Stevedoring Company Limited
- Federal Marine Terminals
- Fraser Surrey Docks
- Imperial Oil (Esso)
- IOC (Iron Ore)
- Logistec Corporation
- Maher Terminals Holding Corp.
- Marine Recycling Corporation
- McAsphalt Industries Limited
- Montreal Gateway Terminals Partnership
- Neptune Terminals
- Norcan Petroleum Group
- Northern Stevedoring

### PARTICIPANTS

- Ocean Industries (shipyard)
- Pinnacle Renewable Energy
- Porlier Express
- Ridley Terminals Inc.
- Rio Tinto Alcan (Port-Alfred)
- Seaspam Marine Corporation
- Squamish Terminals
- Sterling Marine Fuels (Windsor Terminal)
- Termont Montreal
- Ultramar
- Valleytank
- Valport
- Westridge Terminal (Kinder Morgan Canada)

### PARTNERS

#### Industry Suppliers

- ABB Turbocharging
- American Bureau of Shipping
- Bell Marine & Mill Supply
- Blue Seal Inc.
- Canadian Freightways
- Canadian International Bureau of Shipping (CIBS)
- Concept Naval
- Conflow Technologies
- DNV (Det Norske Veritas)
- Drew Marine
- Envirochem
- Envirolin Canada
- Environmental Solutions Inc.
- Filtramax
- FRS Instrumentation & Controls Inc.
- Gaz Metro Transport Solutions
- GENIVAR Inc.
- Germanischer Lloyd
- Hemmera
- Hermont Marine
- Hydrex LLC
- International Paint
- Ionada
- KRALL
- Lloyd's Register North America
- Marine and Offshore Canada
- Marine Clean Ltd.
- Navware Canada Inc.
- OpDAQ Systems
- PESCA Environnement
- Progress Energy Canada Ltd, Pacific Northwest LNG
- Quickload CEF
- RBM HoldSolutions
- RSC Bio Solutions
- Roche
- Seagulf Marine Industries Inc.
- Scott's Marine Interiors
- S.I.G.E.I.M Inc.
- SNC-Lavalin Environment
- Techsol Marine
- The Glosten Associates
- Thordon Bearings Inc.
- Tidal Transport & Trading
- Total Marine Solutions Inc.
- Urgence Marine Inc.
- V.Ships Canada Inc.
- VapCor Inc.
- Ventus Development Services Inc.
- Vickers Oil
- Wärtsilä Canada

### PARTNERS

#### Shippers

- Aluminerie Alouette
- Canadian Salt Company Limited
- Tata Steel

#### Other Organizations

- CSMOIM
- Corp. des pilotes du St-Laurent Central
- Corporation of Lower St. Lawrence Pilots
- Georgian College's Great Lakes International Marine Training Centre
- Great Lakes Pilotage Authority
- Laurentian Pilotage Authority
- Maritime Innovation
- Rightship Americas

### SUPPORTERS

#### Government

- Environment Canada
- Fisheries and Oceans Canada
- Ministère des Ressources naturelles et de la Faune du Québec
- Ministère des Transports du Québec
- Ministère du Développement durable, de l'Environnement et des Parcs du Québec
- Ministry of Transportation of Ontario
- Transport Canada

#### Municipalities

- Board of Harbor Commissioners of the City of Milwaukee
- City of Bécancour
- City of Calixa-Lavallée
- City of Contrecoeur
- City of Longueuil
- City of Matane
- City of Montréal
- City of Montréal-Est
- City of Port-Cartier
- City of Québec
- City of Saint-Amable
- City of Sept-Îles
- City of Varennes
- Communauté métropolitaine de Québec
- Great Lakes and St. Lawrence Cities Initiative
- Marguerite-D'Youville MRC

#### Environmental Groups

- Carbon War Room
- Ducks Unlimited Canada
- Georgia Strait Alliance
- Georgian Bay Forever
- Great Lakes United
- International Secretariat for Water
- Les Amis de la vallée du Saint-Laurent
- Nature Québec
- ONE DROP
- Sedna Foundation
- Stratégies St-Laurent (6 ZIP Committees)
- World Wildlife Fund Canada

#### Others

- CPEQ
- EcoMaris
- Northwest Community College
- Promotion Saguenay
- Société de promotion économique de Rimouski
- St. Lawrence River Institute of Environmental Sciences
- Technopole maritime du Québec
- Vancouver Aquarium