



ALLIANCE VERTE



GREEN MARINE

# Green Marine:

The successful implementation of a voluntary environmental program

*October 2011*

# Accomplishments over the past 12 months

## 40% increase in membership

- First West Coast participant (Prince Rupert Port Authority)
- First East Coast participant (Atlantic Towing Limited)
- First U.S. international shipowner (TBS International)
- First shipyard (Seaspan Marine Corporation)

## Growing recognition

- Great Lakes & St. Lawrence Cities Initiative and other NGOs
- Green Shipping Initiative of the Year Award



# What is Green Marine?



- **Voluntary** industry program to strengthen environmental performance
- **Unique** program designed for shipowners, ports, terminals & shipyards
- **Engages** all industry stakeholders on environmental issues and strategies
- **Concrete** actions, practices and technologies implemented



# A coast to coast North American program



## IN CANADA

- British Columbia
- Ontario
- Quebec
- Nova Scotia
- New Brunswick

## IN THE U.S.

- Illinois
- Minnesota
- New York
- Ohio
- Wisconsin



# Membership categories



**PARTICIPANTS (56)**



**PARTNERS (37)**



**SUPPORTERS (37)**

**Total of 130 members**



# Program Participants

## BC-based companies:

- Seaspan Marine Corporation
- Island Tug & Barge
- SMIT Canada
- Prince Rupert Port Authority
- Greater Victoria Harbour Authority
- Vancouver Drydock Company
- Vancouver Shipyards Co. Ltd.
- Victoria Shipyards Co. Ltd.
- Quickload CEF



# CREDIBILITY

**How do you build it?**

**1. Solid performance metrics**



# Issues currently addressed

## Shipping Companies

- Invasive species
- GHG emissions
- SOx/PM and NOx
- Cargo residues
- Oily water

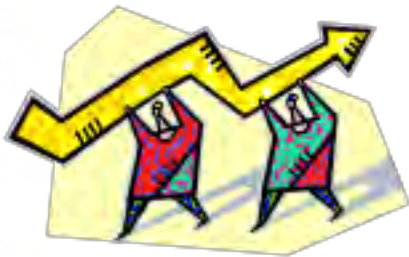
## Ports, Terminals, Seaway, Shipyards

- GHG / air emissions
- Cargo residues
- Community impacts – dust, noise, light, odors
- Environmental leadership (Port Authorities)





# Benchmarking Performance



LEVELS	CRITERIA
1	Regulatory compliance
2	Systematic use of best practices
3	Integrated management system & quantification of environmental impacts
4	Introduction of new technologies
5	Excellence and leadership

# Results:

## Year-over-year improvement continues

	2008	2009	2010	2010 Including New Participants
Global Average	2.0	2.5	2.9	2.7
Shipowners	2.5	2.9	3.2	2.9
Ports, Seaway, Terminals & Shipyards	1.8	2.4	2.6	2.6



# Program expansion in 2011/12

- **Water and Land Pollution Prevention** performance indicator will be implemented for ports, Seaway, terminals and shipyards
- **Waste Management** performance indicator for shipowners is being developed
- Program will be adapted for **changing regulations** – i.e., air emissions, ballast water
- Specific requirements for **shipyards** will be developed



# CREDIBILITY

## How do you build it?

1. Solid performance metrics
- 2. CEO endorsement**



# CEO sign-off on reported results

## Summary of the Evaluation

7

Environmental Issues	Level reached
1) AQUATIC INVASIVE SPECIES	<input type="text"/>
2A) POLLUTANT AIR EMISSIONS (SO <sub>x</sub> )	<input type="text"/>
2B) POLLUTANT AIR EMISSIONS (NO <sub>x</sub> )	<input type="text"/>
3) GREENHOUSE GASES	<input type="text"/>
4) CARGO RESIDUES	<input type="text"/>
5) OILY WATERS	<input type="text"/>

This confirms that the information contained in the *Summary of the Evaluation* matches the levels that the company has attained for the following environmental issues covered by the *Environmental Program of the St. Lawrence and Great Lakes Marine Industry*.

Signed on (date)

Name of the company

Signed by the President of the Green Marine Participant Company

Please complete the *Summary of the Evaluation* and return it to the Green Marine secretariat to:  
271 de l'Estuaire, Quebec, QC, CANADA G1K 8S8 or fax it to: (418) 648-6627.



# Governance & Management



## **GOVERNANCE BOARD:**

- Participants (Company Executives)

## **GREEN MARINE MANAGEMENT CORPORATION:**

- Legal entity
- Board - 11 marine industry associations
- Staff 2.5 FTEs

## **ENVIRONMENT COMMITTEES:**

- Advisory role
- 50% participants (Env. Manager)
- 50% stakeholders

## **TECHNICAL WORKING GROUPS:**

- Technical expertise
- Participants (technical level)



# CREDIBILITY

## How do you build it?

1. Solid performance metrics
2. CEO endorsement
- 3. External verification**



# External Verification

- Reporting based on a self-evaluation process
- Third-party verification of results mandatory every 2 years
- All participants who joined before 2010 had their results verified





# CREDIBILITY

## How do you build it?

1. Solid performance metrics
2. CEO endorsement
3. External verification
- 4. Be inclusive**



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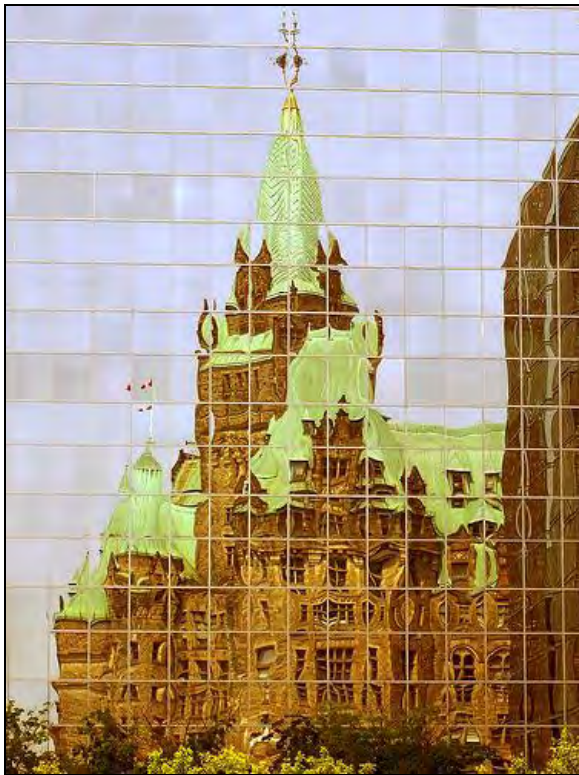
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# Supporters – Government



## Federal

- Transport Canada
- Environment Canada
- Fisheries and Oceans Canada

## Québec

- Ministère des Transports du Québec
- Ministère du Développement durable, de l'Environnement et des Parcs du Québec
- Ministère des Ressources naturelles et de la Faune du Québec

## Ontario

- Ontario Ministry of Transportation



# Supporters - Municipalities



- Great Lakes and St. Lawrence Cities Initiative
- Board of Harbor Commissioners of the City of Milwaukee
- Communauté métropolitaine de Québec
- Promotion Saguenay
- Société de promotion économique de Rimouski
- Ville de Bécancour
- Ville de Contrecoeur
- Ville de Matane
- Ville de Montréal
- Ville de Port-Cartier
- Ville de Québec
- Ville de Sept-Îles



# Supporters – Environmental Groups



- Ducks Unlimited Canada
- SEDNA Foundation
- Great Lakes United
- Les Amis de la vallée du Saint-Laurent
- Nature Québec
- Stratégies Saint-Laurent & six ZIP Committees
- World Wildlife Fund Canada



# CREDIBILITY

## How do you build it?

1. Solid performance metrics
2. CEO endorsement
3. External verification
4. Be inclusive
- 5. Be transparent**
  - a. Program requirements**
  - b. Individual results**

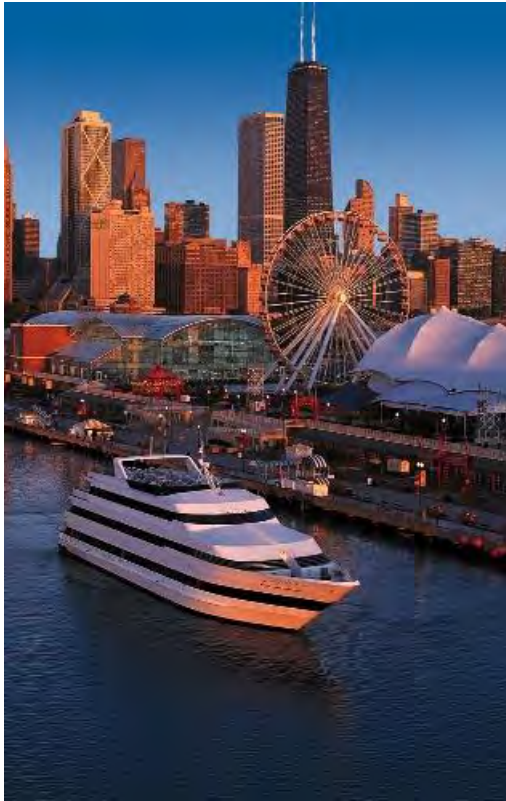


# Individual Results

PORTS AND TERMINALS	Greenhouse Gases	Cargo Residues	Conflicts of Use	Environmental Leadership
Bécancour Waterfront Industrial Park	2	na	na	2
Bunge du Canada Limitée	4	2	3	na
Cleveland-Cuyahoga County Port Authority	1	na	na	2
Duluth Seaway Port Authority	2	na	2	1
Empire Stevedoring	4	na	3	na
Federal Marine Terminals	4	5	4	na
Hamilton Port Authority	3	na	2	2
Illinois International Port District	1	1	1	1
Les Élévateurs de Trois-Rivières	1	1	1	na
Logistec Corporation	4	4	2	na
Montréal Port Authority	4	2	5	5
Oshawa Port Authority	1	na	2	1
Porlier Express Inc.	1	2	na	na
Port of Milwaukee	1	na	1	na
Québec Port Authority	1	na	2	2
Rio Tinto Alcan	5	5	5	na
Saguenay Port Authority	2	na	na	2
Saint Lawrence Seaway Development Corporation	2	na	na	na
Sept-Îles Port Authority	3	na	2	3
Société du port de Valleyfield	2	na	na	2
Montreal Gateway Terminals	3	na	4	na
St. Lawrence Seaway Management Corporation	4	na	2	3
Thunder Bay Port Authority	1	na	na	3
Trois-Rivières Port Authority	2	na	2	3
Toledo-Lucas County Port Authority	1	na	na	1
Toronto Port Authority	1	1	1	2
Ultramar	5	na	3	na
Windsor Port Authority	2	na	na	2



# Green Marine Annual Conference & Certification Awards



*2011 Conference, Chicago*



*2009 Conference, Toronto*

**2012 conference: Quebec City, May 29-30**





[www.green-marine.org](http://www.green-marine.org)



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