

# VOLUNTARY ENVIRONMENTAL CERTIFICATION PROGRAM FOR THE MARITIME INDUSTRY

Overview for the EPA – North East Diesel Collaborative Wednesday, September 19, 2018

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green-marine.org

#### **GREEN MARINE IS...**



A voluntary certification program to reduce environmental footprint of marine operations by

- exceeding regulatory compliance
- promoting a culture of continual improvement

A benchmarking tool to measure performance A partnership initiative involving stakeholders

### 127 Participants in US and Canada





#### **MEMBERSHIP GROWTH 2007 – 2018**

THE PARTICIPA



				GREEN
		2007	2018	MARINE
	PARTICIPANTS	34	127	
	PARTNERS	23	82	
EE <b>N</b> RINE	SUPPORTERS	19	69	
6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ASSOCIATIONS	7	23	
	TOTAL	83	301	
ANTS			8	
		8	(CC)	



#### **PORTS**



- Alabama State Port Authority
- Albany Port District Commission
- Bécancour Waterfront Industrial Park
- Belledune Port Authority
- Canaveral 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
- Northwest Seaport Alliance
- Oshawa Port Authority

- Port Alberni Port Authority
- Port Charlottetown
- Port Everglades
- Port Milwaukee
- Port of Cleveland
- Port of Corpus Christi
- Port of Everett
- Port of Gulfport (MSPA)
- Port of Hueneme
- Port of Indiana Burns Harbor
- Port of Monroe
- Port of New Orleans
- Port of Olympia
- Port of San Diego
- Port of Seattle

- Port of Stockton
- Port of Valleyfield
- Prince Rupert Port Authority
- Québec Port Authority
- Saguenay Port Authority
- Saint John Port Authority, NB
- Sept-Îles Port Authority
- St. John's Port Authority, NL
- Thunder Bay Port Authority
- Toronto Port Authority
- Trois-Rivières Port Authority
- Vancouver Fraser Port Authority
- Windsor Port Authority

#### PROGRAM CRITERIA



#### **ENVIRONMENTAL PERFORMANCE INDICATORS**

PERFORMANCE INDICATORS	SHIP OWNERS	PORTS & SEAWAY	TERMINALS & SHIPYARDS
Aquatic invasive species			
Community impacts			
Dry bulk handling and storage			
Environmental leadership			
Garbage management			
Greenhouse gas emissions			
Oily water			
Pollutant air emissions NOx			
Pollutant air emissions SOx & PM			
Prevention of spills and leakages			
Underwater noise			
Waste management	44.5		







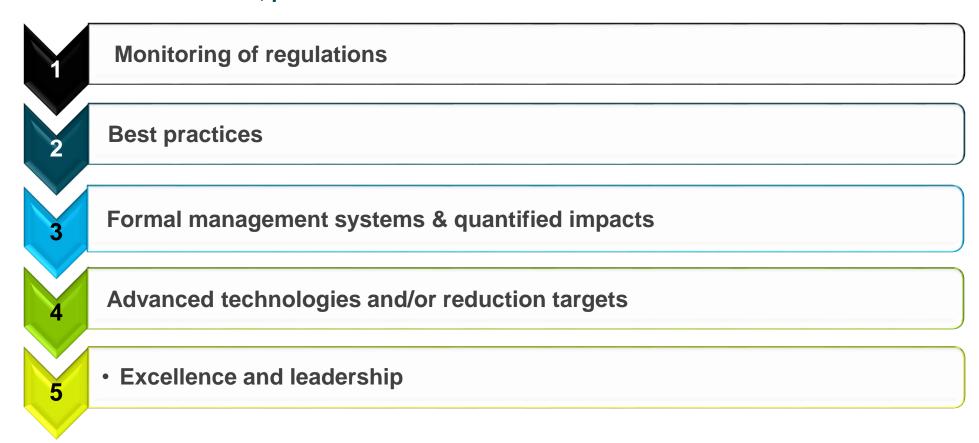




#### BENCHMARKING PERFORMANCE



For each environmental issue, performance is evaluated from Level 1 to Level 5:



# ANNUAL CERTIFICATION PROCESS & CONFERENCE





### **Evaluation Process**

 Annual selfevaluation requiring CEO sign-off



## External Verification

 Third party verification every two years



# Results Publication

- Annual Report
- Website



#### Certification

- Exceeding regulatory compliance
- Demonstrating continuous improvement

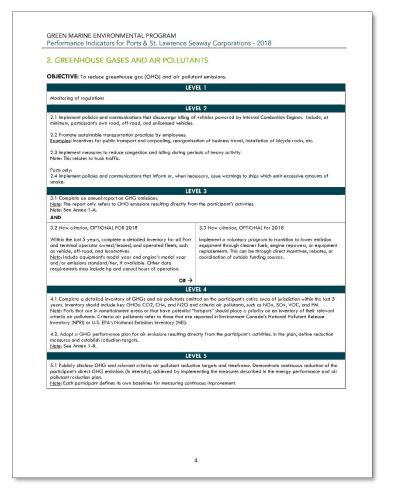
#### **PROGRAM SUMMARY**



Green Marine Environmental 2018 **Program** 



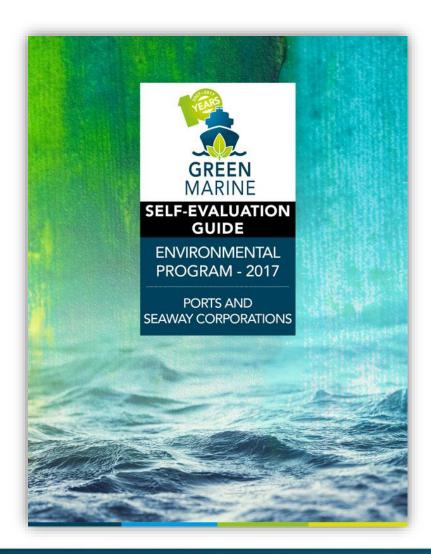
Performance Indicators for Ports & St. Lawrence Seaway Corporations

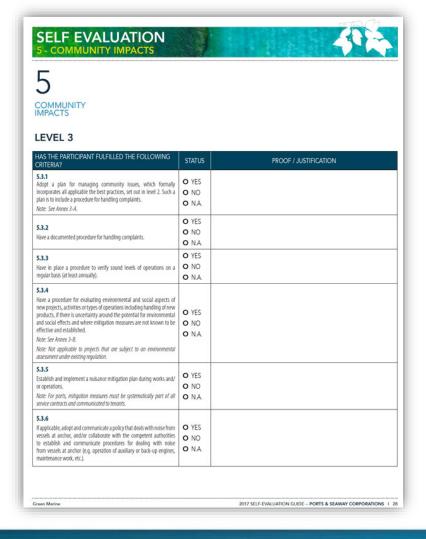


Posted online: <a href="https://www.green-marine.org/program/">https://www.green-marine.org/program/</a>

#### **SELF EVALUATION GUIDE**







#### **SUMMARY REPORT FORM**

GREEN MARINE

- ➤1-pager
- ➤ Due by March 15
- ➤ Signed by CEO

MARIN
PRINT RESTOR
LEVEL ACHIEVED
indicator, and participants are therefore not required to link
YES NO N.A.
YES NO N.A.
inals
on Summary Report Form matches the levels that the company has en Marine Environmental Program. <b>This form must be signed by</b> cutive.
Company:
i

marine.org; (St. Lawrence) veronique.nolet@green-marine.org.

#### **EXTERNAL VERIFICATION**

On-site verification with 3<sup>rd</sup> party accredited verifier

Due May 4

Repeated every other year

#### 21 Accredited Verifiers

- Experienced with Vessel Ops, ISM / ISO Compliance Auditing, and Environmental
- Initial training and exam required to obtain accreditation; Annual training to maintain accreditation

#### **Quality control process**





#### **CERTIFICATION**

- Level 1 in all environmental issues plus Level 2 in one issue
- Continual Improvement by one level each year until Level 2 in all environmental issues
  - ➤ Beyond Level 2, demonstrate measurable year-over-year improvement





#### PUBLICATION OF RESULTS

PORT AUTHORITIES 😝	GHG & AIR POLLUTANTS	SPILL PREVENTION	DRY BULK HANDLINGAND STORAGE	COMMUNITY IMPACTS	ENVIRONMENTAL LEADERS HIP	WASTE Management
Alabama State Fort Authority	1	2	2	2	2	2
Bécancier Waterfront Industrial Park	4	2	n.a.	2	4	2
Belledune Foft Authority*	1	2	1	1	1	1
Consvetal fort Authority	2	5	n.a.	2	2	2
Geveland-Gryshoga County Not't Authority	3	4	3	2	4	2
Duluth Seaway Port Authority	5	5	5	5	5	2
Greater Victoria Harbour Authority	3	5	n.a.	5	3	3
Halifax Port Authority	4	5	n.a.	4	5	4
Hamilton Pett Authority	3	3	n.a.	4	2	3
Montfeal Port Authority	5	5	n.a.	5	5	4
Nanaima Polt Authority	2	2	n.a.	2	3	2
Northwest Seaport Alliance	3	2	n.a.	2	3	2
Oshawa Pořt Authořity	2	3	n.a.	4	2	2
Fort Alberni Port Authority	2	2	n.a.	2	1	1
Nott Everglades	5	5	3	2	5	2
Fort of Albany	2	1	n.a.	2	2	1
Port of Corpus Christi	1	2	1	1	2	1
Putt of Everett	1	2	2	2	2	2
Pett of Gelfport	2	3	2	2	2	2
Putt of Hueneme	3	5	n.a.	5	5	4
Pett of Indiana - Butts Harbet	2	3	n.a.	3	2	2
Purt Mil waukee	3	2	n.a.	2	3	2
Patt of Montoe	2	2	2	2	2	2



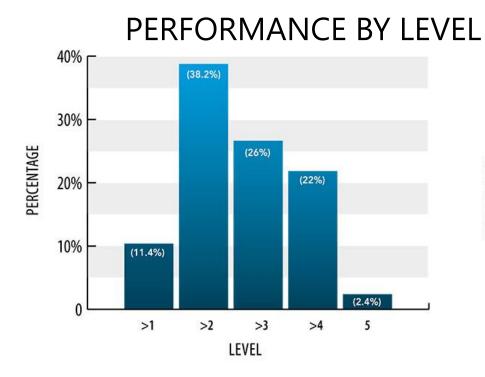


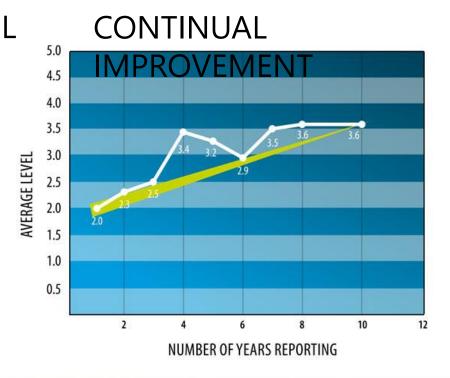
Performance report posted online: <a href="www.green-marine.org/certification/results/">www.green-marine.org/certification/results/</a>

#### **2017 RESULTS**



- 10% more evaluation reports received (123 versus 112 for 2016)
- Global average in 2017 maintained at 3.1
- 50% of the participants achieved an average Level 3 or higher rating
- Indicator with the greatest increase: Waste management 16 levels up from 2016





### **ANNUAL COLLABORATION &** PROGRAM DEVELOPMENT





#### WORKGROUPS - TECHNICAL COMMITTEES

Ad-hoc for particular issue with subject matter experts among all members



Each participant gets a seat



#### **ADVISORY COMMITTEES**

Directs program revision and development priorities. Includes all four member categories: participant, supporter, partner and association. And a verifier.

#### **BOARD OF DIRECTORS**

# ANNUAL COLLABORATION & PROGRAM DEVELOPMENT



#### WORKGROUPS



#### TECHNICAL COMMITTEES

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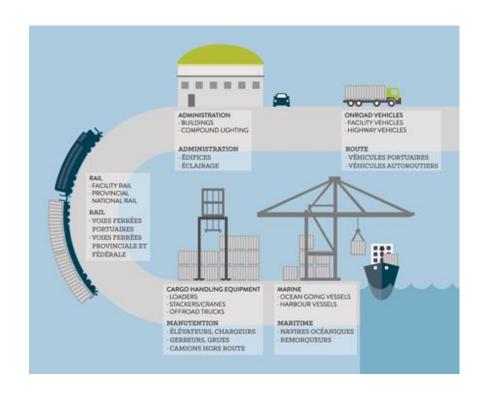
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**BOARD OF DIRECTORS** 

#### **SPECIAL PROJECTS**





#### **Port Emission Inventory Tool (PEIT)**

- Microsoft Excel/Access desktop calculator
- Available to Green Marine participants cost-free!

# Community Relations Performance Indicator (PI)

 Under development for Ports and Terminal by workgroups in both English and French

#### ANNUAL CONFERENCE





```
Montreal
2008
     Toronto
2009
2010 Montreal
     Chicago
2011
    Quebec City
2012
2013
    Vancouver
2014 Saint-John
2015 Seattle
2016 Quebec City
    Fort Lauderdale
2018 Vancouver, B.C.
```

# **GreenTech 2019**: **Cleveland, Ohio** / June 5 − 7, 2019

#### STAY IN TOUCH



#### **Green Marine Magazine**

Published twice a year

https://www.green-marine.org/news/magazines/







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