GREEN MARINE IS…

A voluntary certification program to improve environmental performance of marine operations

• without additional regulation
• with transparency and accountability
• by promoting a culture of continual improvement

A benchmarking tool to measure performance
A partnership among stakeholders
STRATEGIC BENEFITS

For the marine industry

PUBLIC TRUST
Tool to improve long-term relations with stakeholders

For individual companies

CERTIFICATION
Tool to demonstrate environmental performance
STRUCTURE

Members & Board of Directors

Green Marine (Canada)

Green Marine (U.S.)

SECRETARIAT

Legal Entity

Green Marine Management Corporation
Incorporated in the U.S. and Canada

Green Marine Secretariat
- Non-for-profit organization
- 6 full-time staff based in Quebec City, Halifax, and Seattle, WA
GREAT LAKES – ST. LAWRENCE PARTICIPANTS
140 PARTICIPANTS IN U.S. AND CANADA
48 PORTS, 55 TERMINALS, 37 SHIP OWNERS
For each environmental issue, performance is evaluated from Level 1 to Level 5:

1. Monitoring of regulations
2. Best practices
3. Adopted management plan & measurement of impacts
4. Advanced technologies and/or reduction targets
5. Excellence and leadership
THE GHG PERFORMANCE INDICATOR

1. Monitoring of regulations

2. Document fuel consumption; Optimize voyage routes; Optimize stability and loading of ships; Respect voluntary speed reduction measures; Preventive engine maintenance; Identify optimal engine speed

3. Complete an annual inventory on GHG emissions; Energy performance plan

4. Annual reduction of 1% of GHG emissions per ton-kilometer

5. Annual reduction of 2% of GHG emissions per ton-kilometer
CERTIFICATION PROCESS

1. SELF-EVALUATION
2. EXTERNAL VERIFICATION
3. PUBLICATION OF RESULTS
RESULTS (Great Lakes – St. Lawrence region)

Count of Firms, 2008-2018

Source: www.blueaccounting.org
SUPPORTERS (74)

Green Marine’s relevance and credibility is reflected through these environmental groups, scientific research programs, and government agencies that have endorsed and help shape the program.
A COLLABORATIVE APPROACH

Program update and development is done through a collaborative approach

ADVISORY COMMITTEES:
- Mandate: advise on program revision and development
- Include ports, terminals, ship owners, government, NGOs, academia

WORKGROUPS:
- Ad-hoc for particular issue and includes subject matter experts
ANNUAL CONFERENCE

Topics discussed include:
• Ballast Water Treatment Systems
• Air emissions & GHGs
• Electric ferries
• Sustainability and big data
• Marine plastic
• Quiet ship design
• Zero emission cargo handling equipment
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