GREEN MARINE UPDATE
AAPA ENVIRONMENT COMMITTEE MEETING
TACOMA, APRIL 2018

www.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 continuous improvement

A benchmarking tool to measure performance
A partnership initiative involving stakeholders
OUTLINE

➢ Membership Growth
➢ 2017 Certification Process
➢ Publications
➢ Meetings
➢ More mtgs
➢ GreenTech 2018
NEW MEMBERS SINCE NOVEMBER 2017

3 new participants (total 118)

- Halterm Container Terminal (Halifax, NS)
- Puget Sound Pilots (1st pilotage association to join as participants)
- Servitank (Becancour, QC)
NEW MEMBERS SINCE NOVEMBRE 2017

- 5 new partners (73)
- 4 new supporters (68)
- 2 new associations (22)
WHAT HAVE BEEN UP TO?

www.green-marine.org
CERTIFICATION PROCESS FOR 2017

✓ **January** – 2017 Self-Evaluation Guides Released
  ✓ Three teleconference workshops for participants on certification process (ship owners, landside English, and landside French)

✓ **February** – mandatory training for verifiers (Eng. and French)

✓ **March** 15 – Summary Report Form due date

✓ **April** – PINGING! And Verification Support for **May** 4 due date

✓ Results to be unveiled on May 31, 2018 at GreenTech
GREEN MARINE COMMUNICATIONS

November, 2017
• Green Marine Magazine - Published twice a year – archive at https://www.green-marine.org/news/magazines/

December
• Press release issued on Ship Owners’ GHG Reporting Initiative

January
• 2018 Program Summaries: Ship Owners, Ports & Seaway, Terminals & Shipyards

February
• Green Marine newsletter

March
• GreenTech Preliminary Program posted

Follow us on Twitter: @Gmarine_Averte
GREEN MARINE MEETINGS

December
- Ship owner Technical Committee
- West Coast Advisory Committee
- Board of Directors

January
- Team Meeting all together in Quebec City
- Great Lakes Advisory Committee

February
- Social acceptability Workgroup (English Mtg)

March
- Associations Engagement Mtg – teleconference
- Board of Directors
- Ports & Terminals’ GHG&AP Workgroup Mtg

Upcoming
- St. Lawrence Advisory Committee
- Ship Recycling Workgroup
- Social acceptability Workgroup (French Mtg)
- West Coast Advisory Committee
OUTREACH & NETWORKING EVENTS

November
- Green Ship Technology Conf in NY (DB, ML)

December
- World Ocean Council Sustainable Ocean Summit in Halifax (DB, TG)
- Washington Blue Kick-Off in Seattle (EK)

January
- Maritime Day in Olympia, WA (EK)

February
- Save the River annual conference in Clayton, NY (DB)
- Great Lakes Waterways Conference in Cleveland (ML, TG)
- North Atlantic Right Whale Mtg in Boston (VN)
- Shipping Federation of Canada Mariners’ Workshop in Montreal (VN)
- American Waterways Operators (AWO) Mtgs in Seattle (EK)
- LNG and Alternative Fuels Symposium in Seattle (EK)

March
- Environmental Managers’ Assoc of BC Workshop in Vancouver (EK)
- Vessel Speed Reduction awards ceremony in LB, CA (VN)
- CMA Conference in Stamford, CT (DB, ML)
ANNUAL CONFERENCE

2018 GREETECH
ENVIRONMENTAL CONFERENCE
May 30 – June 1, 2018 — Vancouver, B.C.

2008 ➔ Montreal
2009 ➔ Toronto
2010 ➔ Montreal
2011 ➔ Chicago
2012 ➔ Quebec City
2013 ➔ Vancouver
2014 ➔ Saint-John
2015 ➔ Seattle
2016 ➔ Quebec City
2017 ➔ Fort Lauderdale

GreenTech 2018:
Vancouver, B.C.
May 30 – June 1, 2018
**WEDNESDAY, MAY 30**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12:30 am</td>
<td>BC FERRIES FMU TOUR</td>
</tr>
<tr>
<td>5:00 pm</td>
<td>OPENING RECEPTION – Sponsored by Neptune Bulk Terminals Ltd</td>
</tr>
<tr>
<td>7:30 am</td>
<td>REGISTRATION &amp; BREAKFAST</td>
</tr>
<tr>
<td>8:45 am</td>
<td>BUILDING PARTNERSHIPS FOR SUSTAINABLE SHIPPING</td>
</tr>
<tr>
<td>9:30 am</td>
<td>AQUATIC INVASIVE SPECIES (BIOFouLING)</td>
</tr>
<tr>
<td>10:30 am</td>
<td>COFFEE BREAK &amp; EXHIBITION VISIT</td>
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<tr>
<td>12:00 pm</td>
<td>LUNCH</td>
</tr>
<tr>
<td>1:15 pm</td>
<td>PLENARY PANEL: UNDERWATER NOISE AND MARINE MAMMALS</td>
</tr>
<tr>
<td>3:00 pm</td>
<td>COFFEE BREAK &amp; EXHIBITION VISIT</td>
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<tr>
<td>6:30 pm</td>
<td>CERTIFICATION COCKTAIL – Sponsored by GCT Global Container Terminals</td>
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**THURSDAY, MAY 31**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:45 am</td>
<td>GREEN MARINE AGM (by invitation)</td>
</tr>
<tr>
<td>9:30 am</td>
<td>IMPROVING WATERFRONT COEXISTENCE</td>
</tr>
<tr>
<td>10:30 am</td>
<td>COFFEE BREAK &amp; EXHIBITION VISIT</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>LUNCH</td>
</tr>
<tr>
<td>1:15 pm</td>
<td>SUSTAINABLE DEVELOPMENT IN TIMES OF TRAFFIC GROWTH</td>
</tr>
<tr>
<td>3:00 pm</td>
<td>INTEGRATING SUSTAINABILITY WITHIN CORPORATE CULTURE</td>
</tr>
<tr>
<td>6:30 pm</td>
<td>CRUISE TOUR OF THE PORT OF VANCOUVER – Sponsored by the Vancouver</td>
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**FRIDAY, JUNE 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 am</td>
<td>BREAKFAST &amp; EXHIBITION VISIT</td>
</tr>
<tr>
<td>9:30 am</td>
<td>ADVANCED TECHNOLOGIES FOR LOW CARBON TRANSPORTATION – SHIP OWNERS</td>
</tr>
<tr>
<td>10:30 am</td>
<td>COFFEE BREAK &amp; EXHIBITION VISIT</td>
</tr>
<tr>
<td>12:00 pm</td>
<td>LUNCH</td>
</tr>
<tr>
<td>1:15 pm</td>
<td>SHEPPING OF TOMORROW, TODAY</td>
</tr>
<tr>
<td>2:30 pm</td>
<td>CLOSING REMARKS &amp; WALK TO THE PORT FOR VESSEL BOARDING</td>
</tr>
<tr>
<td>3:00 pm</td>
<td>CRUISE TOUR OF THE PORT OF VANCOUVER – Sponsored by the Vancouver</td>
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Goals:
- Illustrate the program’s impact
- Define measurable & quantifiable reduction targets for GHG and other emissions

Method:
- Start as simple as possible at first: ship owners & GHG
- Data compiled at Level 3 for the GHG PI for the baseline year & for 2016
- Compile data from the ship owners that voluntary agreed to participate

Participation:
- 19 eligible ship owners out of 26 (Level 3 or above reached)
- 12 supplied data for this initiative
SHIP OWNERS GHG REPORTING

Highlights:

• 1st inventory of its kind (regrouping a variety of ship owners, on a vast territory)
• High representation (2/3 of eligible ship owners participated, representing more than 250 vessels)
• Aggregated results = Average annual reduction >1% of the GHG emissions between 2016 and the baseline year
• Demonstrate the ship owners’ energy efficiency improvement
• Illustrate their commitment to go beyond compliance (the analysis report realized without any mandatory reporting regulations)