PORT OF MONTREAL

SHIP DIFFERENT

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GREEN MARINE: ENHANCING ENVIRONMENTAL PERFORMANCE
GREEN MARINE OVERVIEW

History

A decade ago, the marine industry was facing an image problem, due in part to the spread of invasive aquatic species. The Green Marine environmental certification program was then created for the North American marine industry.

The MPA is one of the founding members and has been involved since 2005. Green Marine was founded on October 23, 2007.

It’s purpose is to address key environmental issues through 12 performance indicators.

Includes more than 100 participants:

38 Ship Owners
48 Port and Seaway authorities
54 Terminals and Shipyards
GREEN MARINE CERTIFICATION PROCESS

- Demonstrate measurable continuous improvement year after year.
- Complete the annual self-assessment guide.
- Meet performance indicators (6 for MPA); For each performance indicator, a ranking is done on a scale of 1 to 5.
- Audited every 2 years by an external auditor accredited by Green Marine.
- Results will be made public annually.
GREEN MARINE CERTIFICATION ASSESSMENT

Performance Indicators – MPA Reporting

1. Invasive aquatic species
2. Greenhouse gases and air pollutants
3. Prevention of leaks and spills
4. Handling and storage of dry bulk
5. Reduction of operational impacts
6. Environmental leadership
7. Residual materials management
8. Underwater noises
GREEN MARINE PERFORMANCE INDICATORS

Performance Indicators – MPA Reporting

1. Invasive aquatic species
   - Register invasive species
   - Support scientific programs and analyses with sampling of invasive species

2. Greenhouse gases and air pollutants
   - Develop a GHG reduction plan
     - Quantify annually the GHG emissions footprint throughout the port territory in order to establish a GHG emissions management plan

3. Prevention of leaks and spills
   - Rainwater management plan with the implementation of hydrodynamic separators (stormceptor)
   - Spill response exercises
   - Inspection and preventive maintenance program
5. Reduction operational impacts
   • Reduction of dust and sound (sound screens, sampling of noise and/or dust levels, reducing equipment noise levels, etc.).

6. Environmental leadership
   • Natural Habitat Restoration Project.
   • Citizens' access to the riverbanks project.
   • Publication of an annual environmental performance report.

7. Residual materials management
   • Waste management and reduction plan.
   • Procedures and clauses in contracts systematically included in all construction, demolition and excavation contracts.
GREEN MARINE
PERFORMANCE REVIEW

Ranked amongst the leading port authorities

The port of Montreal ranked amongst one of the highest scores in the performance criteria's of the Green Marine certification.
Ship sustainably

SUMMARY REPORT OF ACHIEVEMENTS
IN SUSTAINABLE DEVELOPMENT 2018

SUSTAINABLE DEVELOPMENT ACTION PLAN

P A G E  9

#PortMTL
THREE-YEAR SUSTAINABLE DEVELOPMENT ACTION PLAN

The MPA’s three-year sustainable development action plan for 2016–2019 is based on five orientations, six objectives, 21 targets and 24 performance indicators.

MPA’S SUSTAINABLE DEVELOPMENT POLICY

SIX GUIDING PRINCIPLES

1. Ensure the responsible management of our organization
2. Contribute to the prosperity of society
3. Provide a stimulating work environment
4. Reduce our environmental footprint
5. Ensure that safety and security remain core operating values
6. Ensure the Port of Montreal’s economic mission
MPA’S SUSTAINABLE FIVE ORIENTATIONS

THREE-YEAR ACTION PLAN

1. Improve air and water quality
2. Enhance the MPA’s services
3. Ensure the responsible management of MPA infrastructures and resources
4. Offer a mobilizing and safe working environment
5. Forge long-term harmonious relationships with our stakeholders
MPA’S SUSTAINABLE FIVE ORIENTATIONS

MAIN ACHIEVEMENTS

1. Improve air and water quality
   - Calculate the footprint of GHG emissions on Port territory and then establish a GHG emissions management plan.
   - Liquefied natural gas (LNG) bunkering.
   - Shore power for wintering and cruise ships

2. Enhance the MPA’s services
   - Ensures its role as an economic driver by innovating, enhancing and diversifying its services.
   - Smart Port initiatives
   - Trucking PORTal web application
MPA’S SUSTAINABLE FIVE ORIENTATIONS

MAIN ACHIEVEMENTS

3. Ensure the responsible management of MPA infrastructures and resources
   - Integrated new technologies, practices and sustainable materials into our infrastructure.
   - Recycling of residual materials.

4. Offer a mobilizing and safe working environment
   - Maintain a harmonious work environment by encouraging employee development, involvement and engagement.
     - Yoga & Cardio classes are given on the MPA’s premises.
     - Sports teams were formed to enter charitable events.
   - Health and safety programs and continuous training.
MPA’S SUSTAINABLE DEVELOPMENT POLICY

MAIN ACHIEVEMENTS

5. Forge long-term relationships with our stakeholders

- Creation of good-neighborliness committees.
- Public consultations to inform the community and our partners about our projects.
THANK YOU