2021 RESULTS

The results share each participant's environmental performance in 2021 within each applicable performance indicator on the program's 1-to-5 scale.

SCALE OF LEVELS

LEVEL 1
MONITORING OF REGULATIONS

LEVEL 2
BEST PRACTICES

LEVEL 3
INTEGRATED MANAGEMENT AND QUANTIFIED IMPACTS

LEVEL 4
NEW TECHNOLOGIES AND REDUCTION TARGETS

LEVEL 5
EXCELLENCE AND LEADERSHIP

COMPREHENSIVE VERIFICATION

With Green Marine's performance indicators and related criteria always undergoing annual review and revision when required, nothing and nobody can remain stagnant.

This equally applies to the external verifiers who make certain every two years that each participant has correctly reported performance levels for every applicable indicator and has the data and/or documentation to support that level. To ensure that the **third-party independent verifiers** themselves fully understand all of the program's changing requirements, Green Marine undertakes to conduct regular training with them as well as holding question and answer sessions when new topics or particular concerns arise. Green Marine has also implemented a quality assurance process to make certain that the verification is carried out with the same consistent rigour by all of the accredited verifiers.

Last year, the pandemic and its related travel restrictions forced Green Marine to develop new guidelines for its accredited verifiers to conduct their verifications remotely with the compulsory face-to-face discussion taking place through videoconferencing if an in-person or on-site visit by the verifier was deemed unsafe. The revised guidelines ensured that the verification process was done in the same thorough and rigorous manner.

With some pandemic restrictions still in place during the early months of 2022, Green Marine allowed for the remote verification process again. Nevertheless, a majority (53%) of verified participants were visited on site by the verifier.

SMART REPORTING

The Smart Guide, which is Green Marine's online reporting tool for participants, must also be regularly updated to provide accurate responses and subsequent data. Fully rolled out for verifiers in time for the reporting on 2021 performance, it has made it easier for verifiers and participants to share detailed information in confidence ahead of a site visit. This behind-the-scenes work has brought its share of technical challenges but is ultimately worth it to be able to offer this convenience to participants, and for Green Marine to have the ability to better assess and utilize the gathered information for overall data reporting.

INTERPRETATION NOTES

The term n.a. (not applicable) appears several times in the report's tables because the issues addressed by the program do not necessarily apply to all participants. For example, a container terminal doesn't handle dry bulk commodities. An n.a. denotation could also refer to a situation in which a participant does not have full control over the operations on its premises. For example, a port cannot apply the Green Marine criteria where a terminal operator is in charge of facilities. Many port authorities oversee the leasing of port property and do not themselves operate terminals.

The published results indicate each participant's self-evaluated and subsequently verified performance for each of the Green Marine program's applicable indicators. While the program's self-evaluation is comprehensive, it is not an exhaustive assessment of all environmental matters related to a participant's maritime operations. Green Marine has not itself evaluated the environmental performance of the participating enterprises.

SHIP OWNERS	AQUATIC INVASIVE SPECIES	AIR EMISSIONS (SOX & PM)	AIR EMISSIONS (NOX)	GREENHOUSE GASES	OILY DISCHARGE	WASTE MANAGEMENT	UNDERWATER NOISE	SHIP RECYCLING
Alaska Marine Highway System	3	2	2	2	2	3	3	1
Algoma Central Corporation	4	4	3	4	5	4	4	4
Atlantic Towing Limited	3	4	3	3	3	4	4	2
Bay Ferries Limited	n.a.	2	2	2	2	2	2	n.a.
British Columbia Ferry Services Inc.	n.a.	3	3	3	2	2	4	1
Canada Steamship Lines	5	4	4	5	4	5	4	4
Canfornav	5	4	3	4	5	5	4	3
Coastal Shipping	2	3	2	2	2	3	2	2
Croisières AML	n.a.	3	3	3	4	4	4	1
CSL International	4	4	3	3	4	5	4	3
CTMA Group	2	3	3	2	2	3	3	1
Federal Fleet Services	3	2	3	3	2	4	2	5
Fednav Limited	5	3	4	4	4	5	4	5
Fishermen's Finest, Inc.	2	2	1	1	1	1	1	1
FRS Clipper*	n.a.	3	2	2	2	2	1	1
Great Lakes Towing Company	n.a.	2	2	2	3	2	n.a.	1
Groupe Desgagnés	5	5	5	5	4	5	5	4
Horizon Maritime	4	3	3	3	5	3	4	3
Interlake Steamship Company	4	2	2	2	2	2	n.a.	1
Laurentian Pilotage Authority	n.a.	3	2	2	2	3	4	1
Lower Lakes Towing Ltd	3	4	3	2	2	2	2	1
Marine Atlantic Inc.	n.a.	3	3	3	2	3	3	2
McAsphalt Marine Transportation Ltd.	5	5	3	3	3	3	2	1
McKeil Marine Limited	4	1	3	2	2	3	3	1
NEAS	4	3	3	3	3	3	3	2
North Arm Transportation Ltd.	n.a.	3	3	3	3	3	2	1
Northumberland Ferries Limited	n.a.	2	2	2	2	2	2	n.a.
Ocean Group – Ocean Towing and Marine Transportation	n.a.	5	3	2	2	2	2	1
Oceanex	3	4	4	3	5	4	4	1
Ontario Ministry of Transportation	n.a.	2	2	2	1	2	n.a.	1
Owen Sound Transportation Company	n.a.	2	2	2	2	2	n.a.	1
Puget Sound Pilots	n.a.	2	2	2	2	2	2	1
Reformar	3	3	3	3	2	3	2	1
Saam Towage Canada Inc.	n.a.	4	3	3	2	2	2	1
Seaspan Marine Transportation	n.a.	5	5	4	3	4	4	1
Secunda	3	2	2	2	2	3	2	2
Shaver Transportation Company	2	1	1	1	2	1	n.a.	1
Société des traversiers du Québec	n.a.	3	3	3	3	2	2	1
Washington State Ferries	n.a.	3	3	3	2	3	3	1

n.a.: non applicable   * New participant whose results have not yet been verified.

PORTS

	GHG & AIR POLLUTANTS	SPILL PREVENTION & STORMWATER MANAGEMENT	DRY BULK HANDLING AND STORAGE	COMMUNITY IMPACTS	ENVIRONMENTAL LEADERSHIP	WASTE MANAGEMENT	UNDERWATER NOISE
Alabama State Port Authority	4	2	2	2	3	3	n.a.
Bécancour Waterfront Industrial Park	3	2	n.a.	2	3	2	n.a.
Belledune Port Authority	1	3	n.a.	1	2	2	2
Canaveral Port Authority	2	5	n.a.	2	3	2	2
Duluth Seaway Port Authority	3	5	n.a.	5	4	2	n.a.
Greater Lafourche Port Commission/Port Fourchon	1	2	n.a.	1	1	1	1
Greater Victoria Harbour Authority	2	4	n.a.	5	4	3	1
Halifax Port Authority	5	5	n.a.	4	5	5	2
Hamilton-Oshawa Port Authority	3	4	n.a.	4	4	4	n.a.
Illinois International Port District	1	4	n.a.	2	4	2	n.a.
Montréal Port Authority	5	4	n.a.	5	5	5	n.a.
Nanaimo Port Authority	3	2	n.a.	4	4	2	2
Northwest Seaport Alliance	5	4	n.a.	2	4	3	2
Port Alberni Port Authority	2	2	n.a.	2	3	3	1
Port Everglades	4	5	n.a.	5	4	4	4
Port Milwaukee	3	3	n.a.	2	3	2	n.a.
Port of Albany	2	2	n.a.	2	3	2	n.a.
Port of Anacortes	2	3	2	2	3	2	1
Port of Cleveland	3	5	n.a.	2	4	2	n.a.
Port of Corpus Christi	5	5	5	2	4	3	2
Port of Everett	1	4	3	2	3	2	1
Port of Galveston	2	2	n.a.	2	3	3	2
Port of Goderich	2	3	1	2	1	1	n.a.
Port of Gulfport (Mississipi State Port Authority)	2	3	1	2	3	1	1
Port of Hueneme	5	5	n.a.	5	5	5	2
Port of Monroe	2	2	4	2	3	4	n.a.
Port of New Orleans	3	5	n.a.	5	5	3	n.a.
Port of Olympia	1	4	3	2	2	2	1
Port of Pensacola	2	4	1	2	1	2	1
Port of Redwood City	1	2	1	1	1	1	1
Port of San Diego	5	5	n.a.	5	5	4	2
Port of Seattle	5	5	n.a.	5	5	5	2
Port of Stephenville	2	2	2	2	2	2	1
Port of Stockton	3	5	3	5	4	2	n.a.
Port of Valleyfield	2	2	n.a.	2	3	2	n.a.
Port Saint John	2	2	n.a.	2	4	5	2
Ports of Indiana - Burns Harbor	2	4	n.a.	4	3	2	n.a.
Ports of Indiana - Jeffersonville	2	2	n.a.	2	2	2	n.a.
Ports of Indiana - Mount Vernon	2	3	n.a.	2	2	2	n.a.
PortsToronto	2	2	2	2	4	2	n.a.
Prince Rupert Port Authority	5	4	n.a.	5	5	4	3
Québec Port Authority	5	5	n.a.	5	5	5	n.a.
Saguenay Port Authority	3	4	n.a.	5	3	3	2
Sept-Îles Port Authority	3	3	3	3	4	3	2
St. John's Port Authority, NL	2	2	n.a.	4	3	2	2
Summerside Port Corporation	2	2	2	2	2	2	2
Thunder Bay Port Authority	3	2	n.a.	2	3	2	n.a.
Trois-Rivières Port Authority	3	5	n.a.	4	4	2	n.a.
Vancouver Fraser Port Authority	5	5	n.a.	5	5	3	5
Windsor Port Authority	2	5	n.a.	5	3	2	n.a.

n.a.: non applicable

TERMINALS	GHG & AIR POLLUTANTS	SPILL PREVENTION & STORMWATER MANAGEMENT	DRY BULK HANDLING AND STORAGE	COMMUNITY IMPACTS	ENVIRONMENTAL LEADERSHIP	WASTE MANAGEMENT
ABC Recycling Ltd.	4	2	n.a.	2	3	2
AltaGas	5	5	n.a.	5	5	3
Bay Ferries Limited	2	2	n.a.	2	3	2
British Columbia Ferry Services Inc.	2	2	n.a.	2	3	3
Ceres Terminals Inc. (Baltimore MD, Bayonne NJ, Benicia CA, Brunswick GA, Charleston SC, Duluth MN, Galveston TX, Houston TX, Jacksonville FL, Miami FL, New Orleans LA, Port Canaveral FL, Port Hueneme CA, Stockton CA, Tampa FL, and Vancouver BC)	3	5	5	3	5	3
Centre for Ocean Ventures & Entrepreneurship (COVE)	1	2	n.a.	2	1	1
DP World Prince Rupert Inc.	3	5	n.a.	4	1	1
Federal Marine Terminals Inc. (Burns Harbor, Hamilton, Milwaukee, Thorold, Albany, Eastport, Port Manatee, Tampa, Lake Charles)	3	3	2	2	3	2
G3 Canada Limited (Hamilton)	4	4	5	5	4	2
G3 Canada Limited (Québec)	4	3	3	2	3	2
G3 Canada Limited (Thunder Bay)	4	4	5	5	5	3
G3 Canada Limited (Trois-Rivières)	3	4	4	2	4	2
G3 Terminal Vancouver	5	5	5	5	5	5
GCT Global Container Terminals Inc. (GCT Bayonne, GCT Deltaport, GCT New York, GCT Vanterm)	5	5	n.a.	5	5	4
Glencore (Québec)	4	5	5	5	5	3
Groupe Desgagnés (Relais Nordik Sept-Îles)	3	3	n.a.	2	2	5
Groupe Somavrac - Fonbrai (Saguenay)	2	2	n.a.	2	1	2
Groupe Somavrac - Porlier Express (Sept-Îles)	3	3	n.a.	3	3	3
Groupe Somavrac - Servitank Inc. (Bécancour)	3	4	n.a.	2	2	2
Gulf Stream Marine, Inc. (Corpus Christi, Manchester, Care, Freeport, Brownsville)	3	3	n.a.	3	3	3
Kildair Service ULC	3	5	n.a.	2	3	3
Logistec Corporation Canada (Contrecoeur, Corner Brook, Halifax, Montréal, Port Colborne, Rideau Bulk, Sept-Îles, Thunder Bay, Trois-Rivières)	3	3	3	3	3	3
Logistec Corporation USA Inc. (Balterm, Brunswick, Crossglobe, Port Manatee)	3	3	3	3	3	3
Marine Atlantic Inc.	3	3	n.a.	5	4	3
McInnis Cement Inc.	4	3	3	3	3	3
MetroPorts - Burns Harbor	2	2	1	2	1	1
Montreal Gateway Terminals Partnership	5	4	n.a.	4	5	3
Neptune Bulk Terminals (Canada) Ltd.	5	5	5	5	5	5
New Orleans Terminal LLC	3	5	n.a.	5	4	2
Norcan Petroleum Group Inc.	3	3	n.a.	3	3	3
Northumberland Ferries Limited	2	2	n.a.	2	3	2
Oceanex (St. John's)	2	2	n.a.	2	2	2
Owen Sound Transportation Company	2	2	n.a.	2	2	2
Pacific Coast Terminals Co. Ltd.	3	5	5	5	4	3
Patriot Stevedoring + Logistics	2	5	2	3	1	2
Picton Terminals	4	5	5	5	4	5
Ports America Group (Baltimore)	3	4	n.a.	2	2	2
PSA Halifax	5	5	n.a.	2	4	3
QSL AMERICA (NASCO, Empire Stevedoring New Orleans, Houston)	2	3	3	2	2	2
QSL CANADA (Anse au foulon, Argentia, Baie-Comeau, Beauport, Bécancour, Belledune, Côte Ste-Catherine, Grande-Anse, Gros-Cacouna, Hamilton, Matane, Montreal – Terminal Bickerdike, Oshawa, Sept-Îles, Sorel-Tracy)	3	3	3	2	2	2

n.a.: non applicable

TERMINALS

TERMINALS	GHG & AIR POLLUTANTS	SPILL PREVENTION & STORMWATER MANAGEMENT	DRY BULK HANDLING AND STORAGE	COMMUNITY IMPACTS	ENVIRONMENTAL LEADERSHIP	WASTE MANAGEMENT
Rio Tinto (Port-Alfred)	5	5	5	5	5	3
Squamish Terminals Ltd (Member of The Western Group)	4	4	n.a.	5	5	5
Sterling Fuels Limited (Windsor Terminal)	3	5	n.a.	3	4	3
Termont Montréal	5	2	n.a.	2	3	2
Tidal Coast Terminals Ltd.	3	2	2	n.a.	2	3
Trans Mountain (Westridge terminal)	3	3	n.a.	3	4	3
TraPac (Los Angeles)	5	5	n.a.	3	2	3
Trigon	5	5	5	5	5	5
Tymac Launch Service Ltd.	3	2	n.a.	2	2	2
Valero Energy (Jean-Gaulin Refinery)	4	4	n.a.	5	5	3
Valero Energy (Montreal-East Terminal)	3	4	n.a.	4	4	3
Valleytank	3	5	n.a.	2	2	2
Valport Maritime Services Inc.	3	2	2	2	2	2
Washington State Ferries	3	3	n.a.	2	3	3
Waterfront Petroleum Terminal Company	2	3	2	2	3	2
Waterson Terminal Services LLC	2	3	2	2	2	2
West Coast Reduction Ltd.	3	5	n.a.	5	2	3
Western Stevedoring Co. Ltd. (Lynnterm)	3	4	n.a.	4	4	3
Westshore Terminals	3	2	2	5	2	2
Yellowline Asphalt Products Ltd.	2	5	n.a.	5	2	2

SHIPYARDS

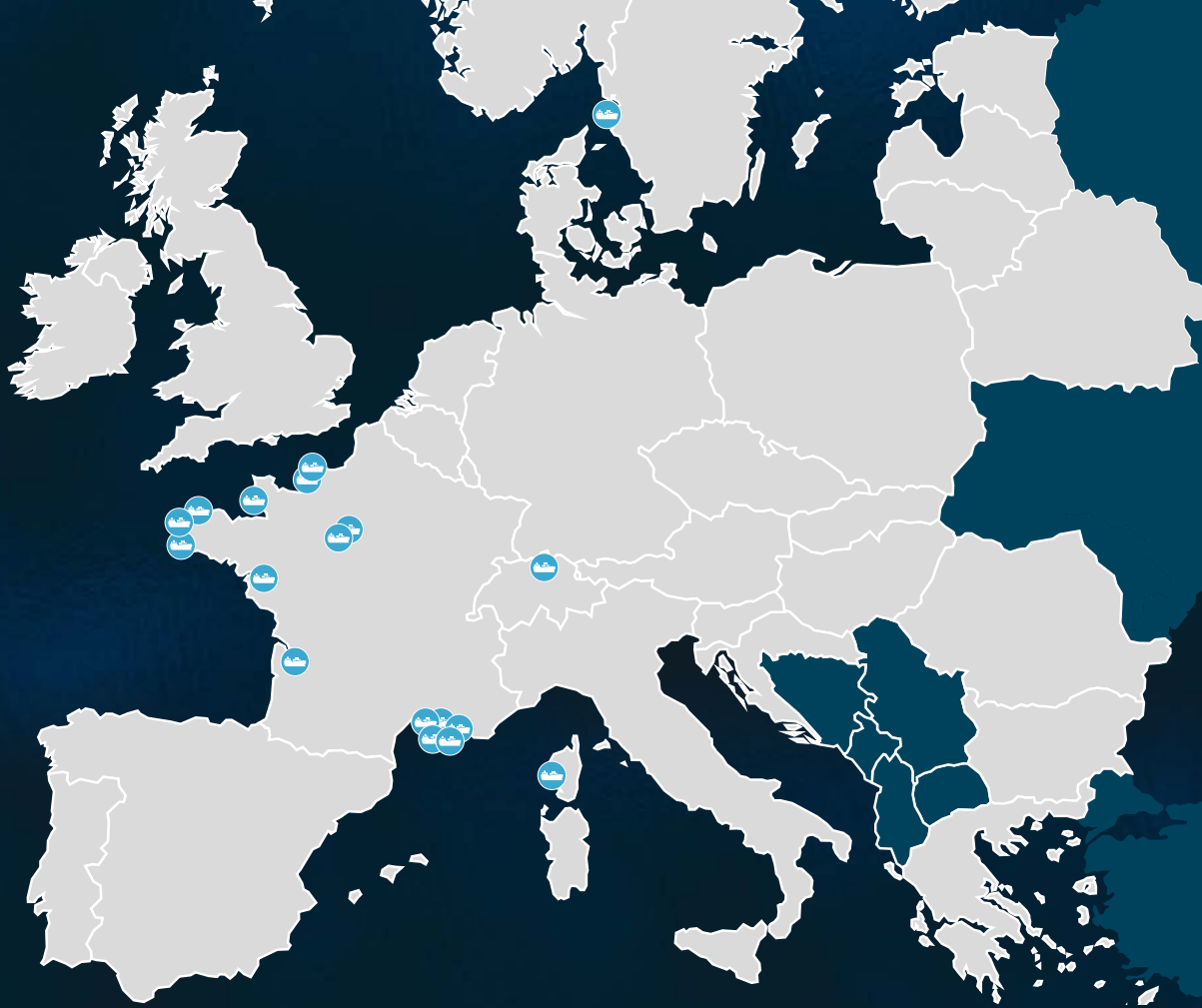| SHIPYARDS	GHG & AIR POLLUTANTS	SPILL PREVENTION & STORMWATER MANAGEMENT	COMMUNITY IMPACTS	ENVIRONMENTAL LEADERSHIP	WASTE MANAGEMENT
Blount Boats	2	2	2	2	2
British Columbia Ferry Services Inc.	3	3	3	4	3
Great Lakes Shipyard	2	2	2	3	2
Heddle Shipyards	2	2	2	2	2
Hendry Marine Industries (Gulf Marine Repair)	1	2	1	1	1
Fincantieri ACE Marine	2	2	2	1	2
Fincantieri Marinette Marine	2	2	1	2	1
Motive Power Marine	2	3	2	2	3
Ocean Group - Ocean Industries Inc.	3	2	2	2	2
Point Hope Maritime Ltd.	2	5	4	3	2
RJ MacIsaac Construction	3	4	2	2	3
Seaspan Shipyards	3	4	4	4	5
Shelburne Ship Repair	1	2	1	2	2
Washington State Ferries	3	3	2	3	3

SEAWAY

SEAWAY	GHG & AIR POLLUTANTS	SPILL PREVENTION & STORMWATER MANAGEMENT	COMMUNITY IMPACTS	ENVIRONMENTAL LEADERSHIP	WASTE MANAGEMENT
Great Lakes St. Lawrence Seaway Development Corporation / Saint Lawrence Seaway Management Corporation †	4.1	4.9	5.0	4.9	4.1

n.a.: non applicable

† Each Seaway corporation filed an individual evaluation to Green Marine and had its results separately verified, but they both opted to publish their results jointly to reflect their allied efforts in achieving environmental excellence. The published results are the weighted average of the individual results based on the number of locks managed by each Seaway corporation.

GREENMARINE EUROPE
HIGHLIGHTS

Green Marine Europe is taking hold since being launched by Green Marine and the Surfrider Foundation in April 2020. The program has **doubled its membership in one year** and now has 18 certified ship owners whose fleets include cargo ships, cruise lines, ferries, cablers and research vessels.

A key catalyst has been the political support given to Green Marine Europe at the International Union for the Conservation of Nature (IUCN) World Congress held in conjunction with the Government of France in September 2021.

While hosting the One Ocean Summit in February as part of his six-month European Union French President, Emmanuel Macron also expressed his strong wish for ship owners to integrate Green Marine Europe into their sustainability efforts and praised CMA CGM for joining the program.

Another remarkable advance is the **recognition by the European Union of Green Marine Europe and Green Marine's waste management performance indicator** as a means to verify whether vessels are eligible for discounts on harbour dues as per the European Commission's January directive that will require ports to offer reductions to ship owners in recognition of their efforts in minimizing waste.

Increased membership and a broader scope are also on the horizon for Green Marine Europe which is in the process of developing performance indicators for shipyards in response to a request by some of them to join the program.

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