

2011 Comprehensive Environmental Management Plan Award Nominees

Alcatraz Cruises

Respect Our Planet is a management program based on the proven international standards of quality, environment and health and safety. It was created by Hornblower to guide the training and operations of the unique maritime hospitality company. Alcatraz Cruises received certification and completes a third-party audit annually to ensure continued improvement and compliance. The company based Respect Our Planet on three international standards: ISO 9001 (quality); ISO 14001 (environment); and OHSAS (health and safety). Under the program Respect Our Planet has seen measurable results in every field tracked.

Bay Ship & Yacht Company

As the 21st Century Shipyard, Bay Ship and Yacht Co. (BSY) has set the standard for environmental protection. Via utilization of its comprehensive environmental management plan, Bay Ship & Yacht ensures that the waterways and surrounding areas of the shipyard will continue to be protected for years to come. Through a proactive approach, Bay Ship & Yacht is capable of mitigating environmental impacts before they can begin to pose a problem. This mentality has led Bay Ship & Yacht well ahead of any environmental standards set forth by governing bodies. By setting the industry pace, Bay Ship & Yacht can continue to be the model 21st Century Shipyard.

Bollinger Shipyards

Bollinger Shipyards is leading the way in shipyard environmental compliance by successfully implementing a comprehensive environmental program that exceeds Federal and State mandates. Programs include:

- Site/Craft Specific Training Program: Bollinger and contractors review site and craft specific information.
- Auditing/Incentive Program: Lessons learned are shared for continuous improvement company-wide. Inspection scores directly impact HSE Incentive Program.
- Communication Program: Internal networking program for immediate accessibility to personnel.
- Storm Preparedness Program: Quick assessment of environmental condition post storm.
- Waste Recycling Program: In 2010, Bollinger kept over 20 million pounds (10,000 Tons) of blast media waste out of landfills.

Gunderson Marine LLC

Gunderson Marine LLC has exhibited a strong commitment to being a leader and a good neighbor in the Portland Harbor by demonstrating exceptional stewardship of our environment and improving the Willamette River habitat through implementation of its Environmental Management System (EMS) based on ISO14001:2004 standards. Through its EMS, Gunderson demonstrates its commitment meet and exceed all legal requirements; continually reduce our impact on the environment by implementing strategies & procedures that minimize pollution and/or waste generation in all manufacturing operations; and maximize all recycling opportunities. Gunderson is seeking formal certification of its EMS by the end of 2012.

Ingram Marine Group

Ingram sustainability is built on company values. As the largest inland transportation company, we are focused on the river system. Day to day operations are intricately tied to natural resources. Vigorously engaging in sustainable practices can help protect the natural resources that allow us to do our business now and in the future. While the roots of responsibility trace back to 1946, sustainability formally launched in 2009 with the vision of leadership and engaged associates. The formal program "ENcompass" was created in 2010. Initial results include a baseline carbon footprint, technological advances, awards and waste diversion for savings and profits.

Pacific Whale Foundation

Our multifaceted Green Practices Program works to: 1) reduce energy usage and the carbon footprint of Pacific Whale Foundation's ocean ecotours; 2) model responsible wildlife watching; 3) reduce landfill waste and prevent marine debris, 4) test and showcase environmentally sustainable practices that can be utilized throughout the maritime industry. These tours educate more than 300,000 guests about marine conservation each year. All profits support research, education and conservation programs to protect the ocean environment. Programs supported include marine science field trips and lab programs for school children, cetacean research, and Volunteering on Vacation, which links visitors with environmental service opportunities.

Plaquemines Parish Ferry System

Plaquemines Parish President announced that the Plaquemines Ferry Department has implemented the use of a state-of-the-art diesel fuel combustion catalyst called GO₂. When added to the ferry fuel, GO₂ enables a more complete and rapid combustion which produces two results: reduced fuel usage and significantly less release of harmful emissions. The nanoparticle-based product is produced by Cerion Energy and was developed by scientists and engineers formerly with Eastman Kodak. "After three years of research and development, President Nungesser was one of the first people to approach us about using GO₂. It really shows how focused he is on implementing energy-saving green solutions for his Parish. In addition to lowering the harmful emissions and increasing engine life for continued use or resale, GO₂ is also saving the taxpayers money by reducing fuel costs," said Hudson Ansley, Chief Executive Officer of Cerion Gulf, the Louisiana subsidiary of Cerion Energy out of Rochester, New York.

Port of San Diego

The Port of San Diego is a unique port with maritime cargo facilities, a cruise ship terminal, and tenants ranging from large shipyards to hotels, marinas, and restaurants. The Port's Green Port Program was launched in 2008 as a proactive business strategy to conserve resources, reduce waste, and prevent pollution. Current areas of focus include planning for climate change and sea level rise, and the "Green Business Challenge"- an innovative program that helps Port tenants reduce their environmental impact. The Port also makes ongoing efforts to reduce air emissions through a Clean Truck Program and other Clean Air efforts.



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BUSINESS COMMUNICATIONS

Presented by WorkBoat magazine, the WorkBoat Environmental Award seeks to recognize those businesses and government agencies operating in the US maritime industry who have successfully incorporated environmentally sustainable practices into their operations by awarding one company with the 2008 WorkBoat Environmental Award. This event would not have been possible without the support and participation of our selection committee. We wish to recognize and thank for their support.

2011 Awards Selection Committee:

Sarah Branch, Regulatory Affairs Manager, Offshore Marine Service Association

Bruce Buls, Technical Editor, WorkBoat Magazine

Laurie Counsel, Energy and Environmental Relations Director, Cummins Inc.

Deborah Franco, Vice President - HR, QSE, Administration, Harley Marine Services

Peter Lauridsen, Regulatory Affairs Consultant, Passenger Vessel Association

Martin Meissner, IWBS Advisory Board Member, ZF Marine LLC

Christina Villiott, Director of Marketing, Elliott Bay Design Group

2011 Environmental Initiative Award Nominees

The following are excerpts from the nominees’ submissions.

AEP River Operations

AEP River Operations will capture the industry’s attention with the transformation of M/V Donna Rushing to have the least environmental impact of any towboat on the inland rivers. Its overhaul incorporates the most fuel-efficient, low-emission, energy-saving equipment available, as well as Tier III engines, not widely available until next year. Further, it will be the only towboat in the US equipped with all LED lighting. A team effort at AEP integrating the suggestions of both AEP Mariners and outside agencies, the boat includes many other environmentally friendly features and will influence the choices we make with all future building projects.

Bollinger Shipyards

Bollinger implemented and maintains a strict PM emission reduction program that focuses on reducing PM from painting and blasting activities. Bollinger utilizes training in combination with administrative and engineering controls which exceed Federal and State environmental regulations to achieve this goal. Blast media approval processes, dust suppressants, and high efficiency tents, work barges, and screens have proven to reduce PM and heavy metals released. Bollinger also minimized medium waste sent to landfill through beneficial reuse. By implementing this PM reduction initiative, Bollinger has been successful in further protecting the environment and waterways that are so important to the maritime industry.

Edison Chouset Offshore

This vessel significantly raises the bar for environmental performance. The design includes: 1) Ultra low air emissions (NOx, SOx, CO, HC, and PM). Vessel will exceed 2015 Tier 4 emission standards as delivered in 2012. 2) Capable of zero discharge (except cooling water) for more than 30 days in the Arctic. 3) Low underwater and above water noise signatures to minimize impact to marine mammals. 4) Double hull throughout with no pollutants next to the outer shell including area for selective catalytic reduction units (SCR’s). 5) UV treatment of ballast water.

Florida Marine Transporters

Florida Marine Transporters (FMT) is dedicated to investing time/man power to find ways to decrease carbon emissions and/or fuel consumption across it’s entire fleet. Through implementation of Cerion Energy’s G02 Diesel Combustion Catalyst on a limited number of vessels such as the M/V AB York, M/V Ron Hull, and more recently the M/V Jerry Jones, FMT has already begun to lower the emissions/fuel consumption on a larger scale. Once all demonstrations are complete, FMT has committed to place the G02 Diesel Combustion Catalyst in a larger amount of its vessels and subsequently the entire fleet. A company such as FMT uses a substantial amount of diesel fuel and accordingly has been cognoscente of the amount of carbon emissions it releases in the atmosphere. FMT believes that the use of Cerion Energy’s G02 Diesel Combustion Catalyst is the quickest/easiest way to substantially reduce the carbon emissions/fuel usage as a corporation.

Foss Maritime Company

Foss is converting the tugboat, Campbell Foss, to hybrid propulsion. The vessel is undergoing an eight week conversion at Foss’ Rainier shipyard. Additions to the plant configuration include replacement of one 125 kw generator to a 350 kw generator, two 500 kw motor generators, ten lithium polymer batteries totaling 62.5 kw, solar panels and an energy management system with attendant controls. The vessel will be returned to service in November 2011. Emissions testing will be conducted before and after conversion and after 1,000 operating hours. Foss expects reductions of over 50% in PM and NOx and over 20% CO2 reductions. In addition to emissions, reductions in noise, fuel and maintenance costs will be realized with this conversion.

Harvey Gulf International

The “Enviro Notation” brings numerous advantages to these advanced vessels whose goal is minimal impact to the environment. Features include: an onboard vessel environmental officer, management programs for ballast water, sewage, and garbage, environmentally friendly materials for construction, ABS Class notation “Green Passport”, technologically advanced bridge arrangement to ABS NBLES notation, design of ballast tanks for minimal sediment accumulation, compliance with IMO resolution 12A where no fuel oil is against the vessel skin, approved oily bilge water separators, fuel oil tankage enhanced containments, segregated ballast and cargo tanks, approved sewage grey and black water system, biocide free anti fouling hull paint, all engines meet international and domestic emission standards, environmentally friendly refrigerants, no Halon or perflourcarbons in firefighting system, food stuff garbage grinder.

Hornblower Cruises & Events

Hornblower set out to build the first emissions-free ferryboat in the United States. Through careful research and collaboration with the United States Coast Guard we are on the precipice of a technological breakthrough for the maritime industry. Our wind, solar, hydrogen and diesel-powered vessel will ply the waters of New York Harbor and change the face of green energy in the maritime industry.

John W. Stone Oil Distributor, L.L.C.

John W. Stone Oil Distributors began a green initiative this year actively pursuing projects that mutually benefit the company and the environment. Stone has begun building nine new barges, the first double-skinned fuel flats on the Lower Mississippi River, that exceed all current environmental regulations. They also began distributing B5, bio diesel. The EPA estimates a switch from 100 percent petroleum to B5 will produce a reduction of 827 pounds of particulate matter, 9,212 pounds of carbon monoxide (CO), 1,821 pounds of Nox, 544 pounds of Sox, and 1.98 million pounds of CO2 throughout the Stone Oil Supply system.

MetalCraft Marine Inc.

The Kingston Electric patrol boat utilizes a Steyr hybrid electric diesel engine. The objective was to design a battery pack around the engine requirement that was cost effective and weight sensitive so that the boat could perform all of its functions within its day’s required work plan and save the user and taxpayer enough to make it economically feasible and sensible. The boat’s battery pack cost \$2600 and the cost saving per month in fuel is \$550 plus a substantial reduction in engine use and wear and basic maintenance. Further the weight of the battery pack had to be factored into the boat’s performance characteristics to verify that the weight penalty of the additional batteries did not affect stability, or other parameters the boat needed for its daily workload.

Nichols Brothers Boat Builders

The state of Washington has set some of the strictest water quality limits in the nation for storm water discharge from shipyards and other industrial sites. In response, Nichols Brothers Boat Builders set new standards by revamping its storm water management system to minimize release of copper and other metals to natural wetlands and marine waters next to the shipyard. The result has netted them the cleanest runoff of any similar industry in the state and probably is the cleanest of any shipbuilder in the world. Nichols Brothers has demonstrated leadership, innovation, and commitment to sustaining the environment through its storm water initiative. In recognition of the outstanding accomplishments, the Washington State Department of Ecology is highlighting Nichols Brothers as the industry model for storm water innovation, and recently nominated the Nichols Brothers’ storm water project for Washington’s 2011 Environmental Excellence Award.

Port of San Diego

The Port of San Diego’s Port Pavilion on Broadway Pier is a Leadership in Energy and Environmental Design (LEED) Gold certified cruise ship terminal and public events center on San Diego Bay. It is the Port’s first LEED Gold building and the first LEED certified cruise ship terminal in the nation. The Pavilion has many sustainable features, including the use of 20% recycled building materials, a 60kW solar panel system, shore power for cruise ships and 7,550 square feet of windows to maximize natural lighting. In designing its new terminal to meet these criteria, the Port exceeded standard building requirements at both the state and federal level.

Southern Towing Company

Southern Towing Company recently retrofitted one of its towboats with a no discharge system while the towboat was in for main engine overhaul. A modification was made to recycle the greywater and other waste water through the toilets and then put the MSD discharge water into the heating units. This recycle process reduces the need to carry extra water for the toilet system and any overboard discharge piping running through other tanks and voids can be eliminated. The retrofit system is working as well as the new construction installations and the company plans to put the same no discharge/recycle system on the remaining seventeen vessels in its fleet. With this system, the owner/operator has taken away the risk of accidental discharges by the crew or equipment failure. It also demonstrates to governmental entities a company’s commitment to be better than required regulatory compliance and to environmental groups and the public an absolute commitment to improving and preserving the waterways environment.

Techcrane International LLC

Techcrane recently built a new building and shop with plush landscaping and a variety of over 200 trees and many plants. One of our main achievements was our extensive solar array renewable energy system. Techcrane will generate on an average 5000 kWh per month which will translate to the prevention of 36000 Tons of CO2 per year. We also incorporated a high efficiency lighting system to minimize energy and a natural ventilation system. We are working diligently to reduce the amount of paper used in our daily workflow. We use thumb drives and CD-ROM, instead of printing crane manuals. General accounting uses alternate digital printing such as PDF, JPEG and TIFF and saving on a central redundant server in lieu of file cabinets. We have also implemented the use of discarded files and paper to be shredded and used for packing which can then be recycled. With that said, on an average we’re saving 10 to 15 trees a year! We also employ the use of in house recycling system for hydraulic oil, with a gravity fed low micron filtration system to capture sediment and water to yield usable oil.

The Great Lakes Towing Company & Great Lakes Shipyard

The Great Lakes Towing Company elected to undergo the State of Ohio’s Volunteer Action Plan (VAP) remediating to industrial use a “brownfield” that was originally a “superfund” site. This was possible with assistance from the City of Cleveland, Cuyahoga County and State of Ohio. The Company removed contaminated soils and installed 525 feet of bulkhead as an engineering control to prevent contaminants from entering the Old River Channel of the Cuyahoga River and Lake Erie.

The Vane Brothers

Vane’s commitment to environmental stewardship is evident in the partnership with Earl Energy to retrofit a tank barge with a generator hybridization system. The barge hybridization program is going to complement a fleet of state-of-the-art vessels that are currently operating Tier II equipment. This project will eliminate all emissions from the generator sets during the off-line period of up to 20 hours per day. The reduction in hours of service will extend the life of the generator units. In addition, during oil change and rebuild intervals, the hybridization program will further reduce our carbon footprint one barge at a time.