

KEEPING THE PASHA GROUP GREEN

Environmental commitments have been made in each of these groups to provide cleaner transportation, and more are on the horizon.

Pasha Hawaii

M/V Jean Anne

- Numerous environmental upgrades have been made to the *Jean Anne*, including the application of an Intersleek 900 coating resulting in a considerable reduction in carbon dioxide emissions – with no biocide in the antifouling to pollute the water.
- Upgrades include the installation of slide valves in each of the cylinders of the main engine, which results in cleaner combustion.
- Pasha Hawaii's *Jean Anne* was one of the first vessels complying with a voluntary Vessel Speed reduction program to further reduce emissions in the port area.
- Pasha Hawaii's *Jean Anne* has been outfitted with new fuel processing equipment to allow burning of marine diesel oil, a lighter and cleaner fuel in her three diesel generators when she is within 24 miles of the California coast and when tied up at the dock.
- Upgrades include the installation of slide valves in each of the cylinders of the main engine, which results in cleaner combustion.
- The slide valve fuel injectors and a new incinerator have resulted in a significant reduction in sulfur dioxide and nitrogen oxide pollutants (which deplete our environment's ozone layer).
- A sophisticated oil/water separator has been installed. The sludge is burned on the vessel in the incinerator. A new fuel Skid runs the auxiliary engines on Marine Diesel Oil while in port, and the ship burns MDO on the boiler, both at sea and in port.
- The *Jean Anne* has been recognized twice with the Environmental Achievement award issued by the Chamber of Shipping of America.

M/V Marjorie C (launching in early 2014)

- Pasha Hawaii's new vessel, the *Marjorie C*, will be engineered to deliver extensive fuel consumption efficiencies reducing our carbon footprint.
- All construction materials, including coatings, will insure minimal impact to the environment both in their application and through the service life of the vessel.
- The flexible design of the *Marjorie C* ensures that the latest in environmental technology is implemented.

Working Sustainability in Pasha's Distribution Services Trucking

- Seven new tractor trailer car haulers have been added to Pasha Distribution services. These Vehicles are "Certified Clean Idle" with reduced emissions. Pasha is now realizing a fuel savings of 8%.
- Future acquisitions are planned along with the eventual "greening" of the entire 75 truck fleet.

- Pasha Distribution Services (PDS) has joined the SmartWay Transport Partnership, an innovative collaboration between the U.S. Environmental Protection Agency (EPA) and industry which provides a framework to assess the environmental and energy efficiency of goods movement supply chains.

Sustainability in Pasha's Processes

Two of our divisions, Pasha Automotive Services and Pasha Stevedoring & Terminals, have made great strides to insure that sustainable business practices are standard operating procedures.

Pasha Automotive Services

- The San Diego processing facilities use hybrid-electric Mazda Tributes (exclusively electric up to 25 miles per hour) and Segways for intra-port transportation, which reduce carbon emissions by 6400 pounds per vehicle.
- Pasha was one of the first auto transport companies to apply for grant funding under California's Goods Movement Emissions Reduction programs to assist in funding to replace older vehicles with new, clean technology vehicles.
- We have invested \$300,000 in a lighting retrofit program, replacing 1,399 fixtures and resulted in over 930,000 pounds lower carbon emissions.
- The car washes at our automotive processing facilities are designed to recycle water after each use.
- Body shops have converted from PPG paint solvent-borne to the less harmful PPG paint waterborne.
- An employee is assigned to frequently sweep terminal debris, preventing material from entering storm drains and waters.

Pasha Stevedoring & Terminals:

Pasha Stevedoring & Terminals partnered with environmentally-conscious Kalmar to design innovative ways to handle cargo with less environmental impact.

- Equipment was updated with emission control valves.
- Additional filter systems capture any potential soot that may fall from the exhaust system.
- Machines are now equipped with automated shut-down technology and speed reduction controls.



