CAT® POWERED MARINE HYBRID SYSTEM

Dramatically Reduce Operating Costs

Today's marine industry operators are asking for LESS: LESS fuel consumption. LOWER operating costs. LESS maintenance on vessels.

The Cat[®] Marine Hybrid System optimizes the use of currently available components and operates diesel engines at peak efficiency. This means significant reductions in owning and operating costs, with decreased fuel consumption and maximized reliability.

With this system, your vessel has the potential to increase operating efficiencies as well as meet or exceed increasingly stringent environmental requirements. It is particularly wellsuited for vessels with duty cycle variance; i.e., have numerous load requirements for propulsion and power. In comparison with conventional vessels, the Cat Marine Hybrid System offers several benefits to vessel operators:

- Decreased fuel consumption by up to 25 percent
- Extended maintenance and replacement intervals
- Payback periods of less than five years in many instances
- Reduction of harmful emissions (CO₂, NO_X, particulate matter and soot)
- Noise reduction

Customized To Your Specification:

Our global network of dealers knows that properly sizing the Cat Marine Hybrid System is critical for the success of your operation. So we work closely with you to customize the system to your exact specifications. We consider your specific duty cycle and operational profile, evaluating the electrical loads, the price of fuel, and maintenance costs. We give you the flexibility to choose the optimal solution that meets your needs: quickest payback, minimum fuel consumption, longest maintenance intervals, or any combination of criteria you choose. With a world-leading reputation for service and reliability, your Cat dealer will provide:

- Detailed product specifications
- Expert system sizing services and dealer consultation
- Flexible configurations
- A variety of financing options
- Clear communication throughout the entire process
- Support through the lifetime of the vessel

PROVIDING CONTINUOUS SUPPORT

At Caterpillar, the relationship doesn't end when the sale is final. In fact, it's just the beginning. From delivery to product support, we're with you for the long haul.

As a Caterpillar customer, you'll be on the receiving end of market-leading experience and customer service, which includes:

- Maintenance and support
- Logistics
- Equipment insurance
- Extended Service Coverage
- Training
- Capital management
- Rental

To find the Cat dealer nearest you, visit www.marine.cat.com



Marine Hybrid Solutions. Built on a reputation of reliability.



Hybrid Modes of Operation:

The Cat Marine Hybrid System allows the vessel to operate in four different modes:

Strictly Electric

In Strictly Electric, batteries permit the vessel to be operated without the use of diesel engines or generators. Strictly Electric allows operators to operate their vessel with zero emissions and complete noise reduction. Batteries are available in lead acid or lithium polymer chemistry.

Diesel-Electric

In Diesel-Electric, power and propulsion is provided from the auxiliary generator via the motor generator without the need for diesel engines.

Conventional

In Conventional, the vessel operates as a traditional vessel with the diesel engines providing propulsive power and auxiliary generators supporting the hotel loads.

Electrical-Mechanical

In Electrical-Mechanical, both the main engine and the motor generator can provide propulsive power to the shaft line. Hotel loads are supported by the generators with the use of modern conversion technology.

EVERYTHING YOU NEED

Dealer Network

We know your business demands more than just quality products. That's why you can count on our global dealer network to offer the additional resources, reach, and know-how that add value to your operation and contribute to your success.

Turnkey Solutions

With a full range of Cat Marine Hybrid Power System options, Caterpillar has everything you need to get your vessel up and running in no time.

Maintenance Contracts

From analysis and assessment to the service agreements that take maintenance worries off your mind, your Cat dealer can supply the total support you need for maximum efficiency and peak performance.



BUILT FOR IT.

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