

XeroPoint Hybrid Marine Power Defined

A propulsion system which incorporates a combination of energy storage and drive line configurations to reduce or eliminate the low efficiency operation of combustion engines.

XeroPoint Hybrid Solution

The XeroPoint Hybrid system combines diesel and electric power on the same shaft line. A motor-generator (a single machine that can act as either a shaft motor or a shaft generator) and a diesel engine are able to drive the shaft independently or together. An auxiliary generator meets the requirements of hotel and drive shaft motor loads and the incorporation of electrical storage (batteries) provides a zero emissions/quiet mode option.

Proven and Patented Technology

The future is green and the XeroPoint Hybrid system from AKA represents the marine industry's true green technology debut. Applicable to a wide range of vessels including leisure and luxury boats, XeroPoint Hybrid is the proven and patented hybrid technology available for marine propulsion.

Hybrid Technology
Reduced harmful emissions, lower maintenance costs, improved fuel economy.
Economical power when you need it.

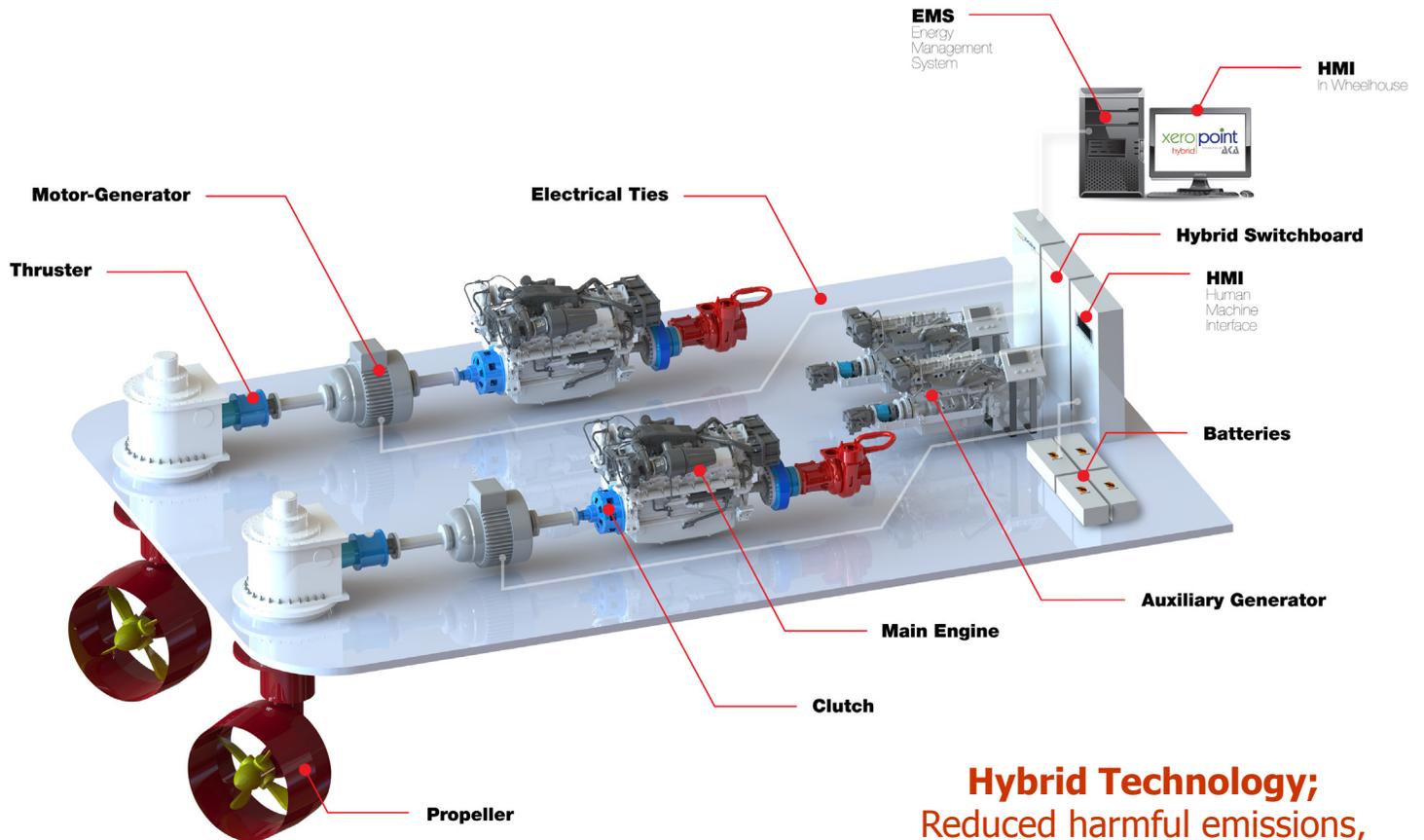
Why XeroPoint Hybrid?

As the marine industry strives to improve efficiency, reduce emissions and meet emerging environmental standards, hybrid propulsion technologies are getting a closer look from vessel operators around the world. What makes XeroPoint Hybrid right for your operation?

- **Reduced Emissions:** With XeroPoint Hybrid technology, engines run at or near best efficiency - and only when needed. Lower fuel usage and cleaner combustion both contribute to reducing harmful emissions.
- **Improved Fuel Economy:** Because XeroPoint Hybrid technology shares the propulsion load between diesel and electrical sources, it means no unnecessary idling.
- **Increased Redundancy:** With XeroPoint Hybrid technology, multiple plant configurations allow for several "get home safe" modes in the case of equipment malfunction or failure.



HYBRID MARINE POWER



Hybrid Technology;
Reduced harmful emissions,
lower maintenance costs,
and improved fuel economy.
**Economical power when
you need it,
clean and simple.**

Hybrid Modes of Operation:

The XeroPoint Hybrid system allows the vessel to operate in four different modes:

1 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.

2 DIESEL-ELECTRIC

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

3 ELECTRICAL-MECHANICAL

In Electrical-Mechanical, both the main engine and the motor generator provide propulsive power to the shaft line.

4 CONVENTIONAL

In Conventional, the vessel operates as a traditional vessel with the diesel engines providing propulsive power and the shaft generator supporting hotel loads using modern conversion technology to provide constant voltage regardless of shaft speed.



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