

HAVE IT ALL

DIESEL-MECHANIC/ELECTRIC HYBRID SOLUTION



CAT[®]

SAVE FUEL AND CUT EMISSIONS

- > Significant fuel savings
- > Noise reduction
- > Longer service intervals
- > ROI in as little as five years
- > Lower harmful emissions

Offshore operators, harbor tugs, and other vessels often have to cope with a wide range of operational needs – from long periods in transit or standby to intense bursts of activity. The power and propulsion systems are often designed for these heavy loads. But conventional designs can mean significantly higher fuel consumption and emissions during the long periods of low- to medium-power usage.

The Caterpillar hybrid solution combines diesel engines and electric motors that can independently or simultaneously drive propulsion. Meaning you can always get the most efficient power option as the vessel's operational needs change, helping you slash fuel costs and greatly reduce emissions.

EFFICIENT FOR THE JOB AT HAND

Very low loads and/or stealth mode

Electric power only, using batteries for zero emissions and silent operation. Perfect for specific needs such as eco-tourism ships or offshore oil and gas vessels in hazardous conditions.

Low loads

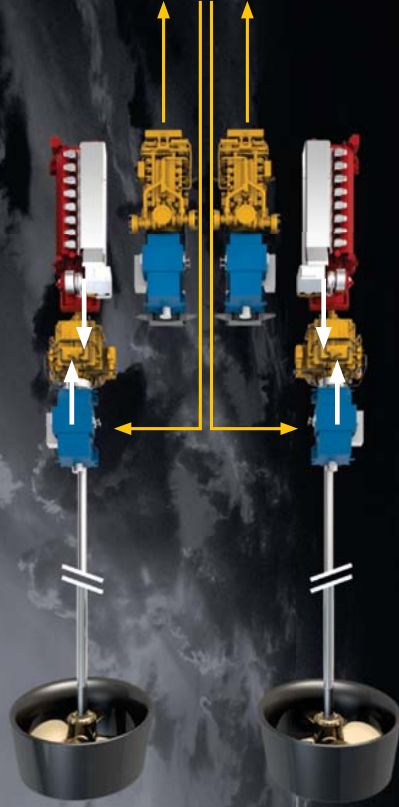
Diesel-electric power using the auxiliary engines.

Medium loads

Mechanical power only, using the main engines at their most efficient.

Heavy to maximum loads

Mechanical-electric power from the main engines and the motor generators, making full use of the vessel's performance capacity.



— ELECTRIC POWER FLOW

— MECHANICAL POWER FLOW

GO EVEN FURTHER

With controllable pitch propellers you can further increase your efficiency. During low- to medium-load operation, one propeller can be locked and feathered with its main engine offline while the other propeller and engine run at a more efficient load.



USE OUR EFFICIENCY WORKSHOP

Contact Caterpillar Marine to schedule your very own Efficiency Workshop – at no cost. Using your vessel's design, hull resistance profile, and operational needs as a base, we'll work with you to create a benchmark of total performance requirements to help you find your optimal power and propulsion solution.

BUILT FOR IT.™

If you expect the highest standards of quality and need the greatest long-term value, choose Caterpillar Marine's high-performance, customized products and dedicated services.

That's how we are built – and you deserve nothing less.

TALK TO US

marine.cat.com, catpropulsion.com

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