

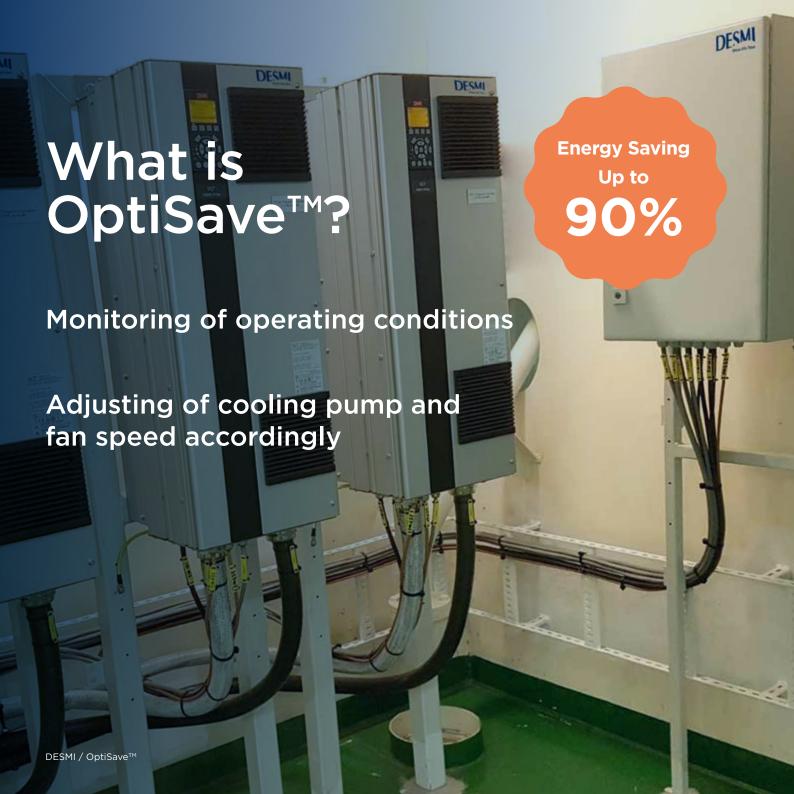


Reducing Energy Consumption at Sea

There are good reasons why you should be looking to reduce fuel consumption as a designer, shipowner, or operator. Fuel is the biggest single voyage-related cost item, and even small percentile consumption reductions can have a big impact on ship operating costs.

Reducing onboard energy consumption is an easy and effective way of reducing vessel emissions. This is exactly what OptiSave™ does, and it can make a big difference: With no major rebuilding or refitting, it will help you cut energy consumption on ships to save fuel, cut costs, and reduce emissions.





Energy Savings Matter in Maritime Operations

Compliance with IMO regulations

Reducing energy consumption is an efficient way of meeting the ${\rm CO_2}$ emission reduction requirements stipulated in IMO MEPC 62, including Energy Efficiency Design Index (EEDI) and Ship Energy Efficiency Management Plan (SEEMP) regulations. And it contributes to reaching the IMO's net-zero emissions target by 2050.



IMO's net-zero emissions target by 2050 (compared to 2008 level)

20%

reduction by 2030

70%

reduction by 2040

Net-zero

emission by 2050

OptiSave™ "Everywhere"

You can use OptiSave™ with the following onboard systems





Seawater cooling systems



Engine room ventilation



Steam condenser cooling



Cargo hold ventilation



Freshwater cooling systems



Pump monitoring and online vessel monitoring

Significant Energy and Cost Savings

Yearly savings on +700 installed OptiSave™ systems around the world:

80,400 tons of fuel

216,000 tons of CO₂

414,000



EXAMPLE

On a voyage from Singapore to Rotterdam, the average water temperature will be well below 32° Celsius for most of the trip, and a cooling system with OptiSave™ will use significantly less energy than one without this DESMI solution.

Potential Power Consumption Reduction

Click here to try out our savings simulator \longrightarrow



Bulk carriers

⁹75%





Chemical Tankers

⁹79%



Container Vessels

£68%

"After only two weeks, we saw big savings."

Dieter Nühse

Chief Engineer, Ernst Jacob (GmbH & Co KG)

Customizable Solutions for Every Vessel Type

Every vessel operates under unique conditions, and OptiSave™ is designed to adapt seamlessly across various ship types, ensuring optimal energy efficiency no matter the journey.

By intelligently adjusting cooling and ventilation systems, it reduces fuel consumption, lowers emissions, and extends equipment lifespan. With a flexible, modular design, OptiSave™ integrates effortlessly into both newbuilds and retrofits, delivering significant cost savings with minimal operational disruption.

Whether for cargo ships, passenger vessels, or specialized maritime operations, OptiSave™ helps shipowners and operators enhance performance while meeting sustainability targets.









Lower chartering costs

Shipowners who invest in OptiSave™



Reduce fuel consumption



Saves thousands of tonnes of fuel



Saves thousands of tonnes of CO₂

Lower fuel costs



Lower chartering expenses







Not just for DESMI pumps

No matter what pumps you have, OptiSave™ can help you save fuel!

DESMI's OptiSave™ energy-saving system isn't just for DESMI pumps—it works with all pump brands in your engine room.

DESIGNED TO
INTEGRATE
SEAMLESSLY WITH ANY
PUMP BRAND IN YOUR
ENGINE ROOM





OptiSave™ Installation and Support

We are with you for the journey

The modular system offers great flexibility during design and installation. You can integrate OptiSave™ in newbuilt vessels or retrofit the system on vessels that are already in operation. Installation can be carried out by the DESMI installation team or by your crew supervised by DESMI. Depending on your vessel and requirements, installation typically takes only 4 to 6 working days.

We have installed OptiSave[™] on 700+ vessels all over the world, and no matter where the ship is headed, we are ready to support its onboard DESMI systems: With subsidiaries, distributors, and partners in 150 countries on six continents, DESMI is present around the globe.



We exist to keep your business flowing

If you want to save fuel, cut costs and reduce emissions, please reach out to us a.s.a.p. or download our extended brochure here www.desmi.com/optisavebrochure/

Together, we can make a difference, whatever the future holds. Because we, like you, are here to make life flow. For more information, visit **desmi.com**

For more information, please fill in your data, and we will get back to you asap.



Want expert advice for your ships energy optimization?

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