

DESMI OptiSave™

The Key to Efficient Energy
Savings at Sea



Marine

DESMI
Make life flow

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.



Significant energy savings



Reduced OPEX



Prolonged pump and fan lifetime due to less wear and tear



Short return on investment



Fast installation with minimal changes to existing electrical system



Worldwide service and support

What is OptiSave™?

Energy Saving

Up to

90%

Monitoring of operating conditions

Adjusting of cooling pump and fan speed accordingly

Energy Savings Matter in Maritime Operations

Compliance with IMO regulations

Reducing energy consumption is an efficient way of meeting the CO₂ 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

MWh



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](#) →



Bulk carriers

UP TO

75%



Chemical Tankers

UP TO

79%



Container Vessels

UP TO

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.



A win-win for shipowners and charterers

[Click here to calculate your potential savings!](#) →

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



Maximize your
**Energy
Efficiency
Index**



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 are very satisfied with the functioning of the system indeed.

Dorian Kukuljan,
Marine Electrical Consultant, CB Maritime d.o.o.

It goes without saying that OptiSave™ is an added value to our company's energy efficiency drive.

Andreas Asimakopoulos,
Deputy Technical Manager, Minerva Marine

After only two weeks, we saw big savings.

Dieter Nühse
Chief Engineer,
Ernst Jacob (GmbH & Co KG)

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

Want expert advice for your
ships energy optimization?

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and we will get
back to you asap.

