

We energize the world.

On land, at sea,
in the air and in space.

SAFT

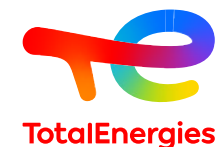
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Saft une société de TotalEnergies
S.A.S. us capital de 26 724 876 €
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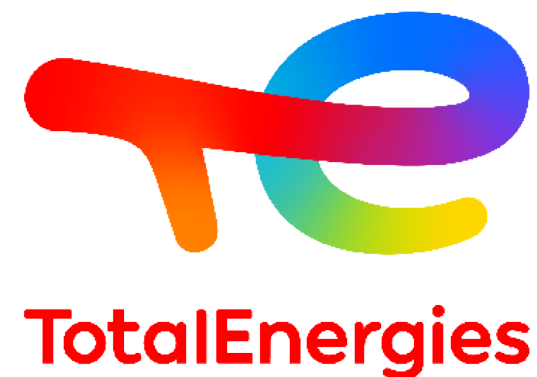
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Seanergy® 2.0 marine battery system

A powerful, safe and maintenance-free
Li-ion solution for hybrid and full-electric
marine propulsion.





Seanergy 2.0

A fully integrated battery



A higher-energy-density, environmentally responsible solution

The Seanergy 2.0 Li-ion battery system helps customers reduce emissions and fuel consumption—without sacrificing quality.

Flexible power for all marine applications

- Passenger vessels (ocean and river cruise liners, ferries, Ro-Pax, urban transports)
- Workboats (tugs, offshore vessels, administration ships, shipping vessels, dredgers)
- Inland shipping (river-sea shuttles, pushers/tugs, freight)
- Offshore (PSV, AHTS)
- Leisure vessels (mega yachts, medium-sized yachts)
- Cargo vessels (arctic cargo, wind assisted)

Our Environmental Commitment

Efficient use of resources and reducing our impact on the environment are at the heart of everything we do. We are committed to high standards of environmental stewardship and to developing sustainably responsible products. Whether it's eco-design, life-cycle assessments, recycling raw materials, or reducing our own emissions, we are investing in our sustainable future.

Environmental Impact

Designed to support hybrid-electric and full-electric ships, the Seanergy 2.0 batteries reduce fuel consumption and CO2 and greenhouse emissions. Adding to the environmental benefits, the batteries are assembled and tested in Saft factories in France—one of the lowest CO2-loaded countries in the world.

Array of Applications

Whether our customers require full or hybrid propulsion, peak shaving, dynamic positioning, or hotel load, Seanergy 2.0 batteries will decrease CO2 and NOx emissions and increase efficiency and profitability of the vessel.

Technical Performance

- Improved energy density system: One cabinet corresponds to 113 kWh, 130 Wh/liter, 107 Wh/kg (with maximum voltage of 1060 V)
- Up to 3C discharge
- Battery Management Module (BMM) included in each cabinet Battery Management System (BMS)
- Master Battery Management Module (Master BMM) to manage up to 30 cabinets assembled in parallel
- Air-cooled; fan included in each 2U module
- Cabinet mechanical characteristics:
 - Max height: 2237 mm
 - Footprint: 531 x 772 mm²
 - Weight: 1050 kg
- Designed for easy installation, operation and maintenance



Scan to View Production Information

Safety Features

- Designed to meet marine certifications
- NMA Test 1: Designed for non-propagation from cell to cell
- Off-Gas segregation: In case of venting, gases are isolated from cooling air
- Low energy and gas generated in case of thermal runaway
- Fully independent safety functions

Our Services

Customer support starts from the project initiation and continues through after-sales services. By utilizing our extensive expertise, experience and customized modeling tools, Saft delivers the optimum solution for each customer.

- After-sales services:
- Remote access for diagnostic and maintenance
 - Technical support
 - Training
 - Preventative maintenance
 - Corrective maintenance
 - Spare parts
 - Recycling

