



# POWER

## solutions

Wilhelmsen Technical Solutions has over many decades supplied electrical and automation solutions for newbuilds and retrofits in the maritime and offshore markets.

We have the knowledge, people, local presence and global reach to design, produce, install, commission and service our solutions.

By offering the best available technologies for onboard power optimisation and control systems designed to reduce operational cost, we help to ensure a compliant, safe and reliable operation.



### Switchboard solutions

Wilhelmsen Technical Solutions is one of the leading manufacturers of main and emergency maritime switchboards, with a worldwide reputation for high quality and ready-to-install solutions through the Callenberg brand. Wilhelmsen Technical Solutions can create highly functional solutions using parts available anywhere in the world.

Solutions include:

- Distribution switchboards
- Main and emergency switchboards
- Cold ironing
- Motor starters



#### Power solutions

We provide solutions for optimising onboard power, power distribution and control systems that reduce operational costs and fuel consumption.

## Automation solutions

Wilhelmsen Technical Solutions design automation solutions for OEM manufacturers or tailor solutions for specific projects.

Solutions include:

- Callenberg IMAC - monitoring and control system specially designed for patrol boats, road ferries and rescue boats
- HVAC control cabinets for fans, heating and cooling automation, valves and damper controls
- Control cabinets for various applications such as ballast water treatment, cargo systems, high & low voltage breakers etc.

## Energy conservation solutions

Wilhelmsen Technical Solutions provides solutions to optimise ships operation. The Callenberg emt™ solution is build on our wide system knowledge of how to design and run shipboard systems optimally into a smart automation and benchmarking system.

We turn complexity into a smart and user friendly system that secure efficient operation over time and provide proven results that secures your investment. Callenberg emt™ ensure large energy savings, reduced environmental footprint and maintenance cost.

## Electrical engineering and contracting

Wilhelmsen Technical Solutions provides electrical design, equipment, supervision and service to shipyards and owners. Solutions can be delivered as separate parts or as turnkey electrical projects including navigation, automation, switchgears, lighting systems and installation equipment.

We take total responsibility for the execution of our projects according to specification and class requirements, including system integration of the various systems and project management.



## Installation

Wilhelmsen Technical Solutions can install or convert electrical systems, switchboards and bridge control systems and is able to handle conversions or extensions of electrical systems for the entire vessel.

We have expertise in managing large project where time is critical. Annually, we provide 300,000 - 500,000 man-hours of highly qualified electrical engineers and electro-technicians to projects around the world. All installations are carried out in accordance with rules and regulations of all classification societies and maritime authorities.

## After market solutions

Wilhelmsen Technical Solutions has highly skilled and experienced personnel ready to assist our customers with services when needed.

Our offer ranges from single spare parts to a complete upgrading of any electrical or automation system onboard.

Offer includes:

- Electrical maintenance and repairs
- Spare parts
- Retrofit and conversion
- Supervision
- Flying squads