MARINE TECHNOLOGIES

GREEN TECHNOLOGIES

MANOEUVRING, CONTROLLING AND POWERING VESSELS

Control, communication and monitoring solutions for all types of vessels

Power and energy storage solutions for all types of vessels

80+

R&D

Sales

Support

Production

Egersund & Ålesund, Norway

Mandeville LA, USA

Navigation and maneuvering

Vessel Control

Electric Systems

Motors and Generators

Energy Efficiency

Battery, charging and hybrid solutions

Condition Monitoring

Alarm and Monitoring

Vessel Communication

ENVIRONMENTAL SYSTEM CERTIFICATION DNV ISO 14001

QUALITY SYSTEM CERTIFICATION DNV ISO 9001

SAFETY SYSTEM CERTIFICATION DNV ISO 45001

INFORMATION SECURITY MANAGEMENT SYSTEM DNV ISO/IEC 27001

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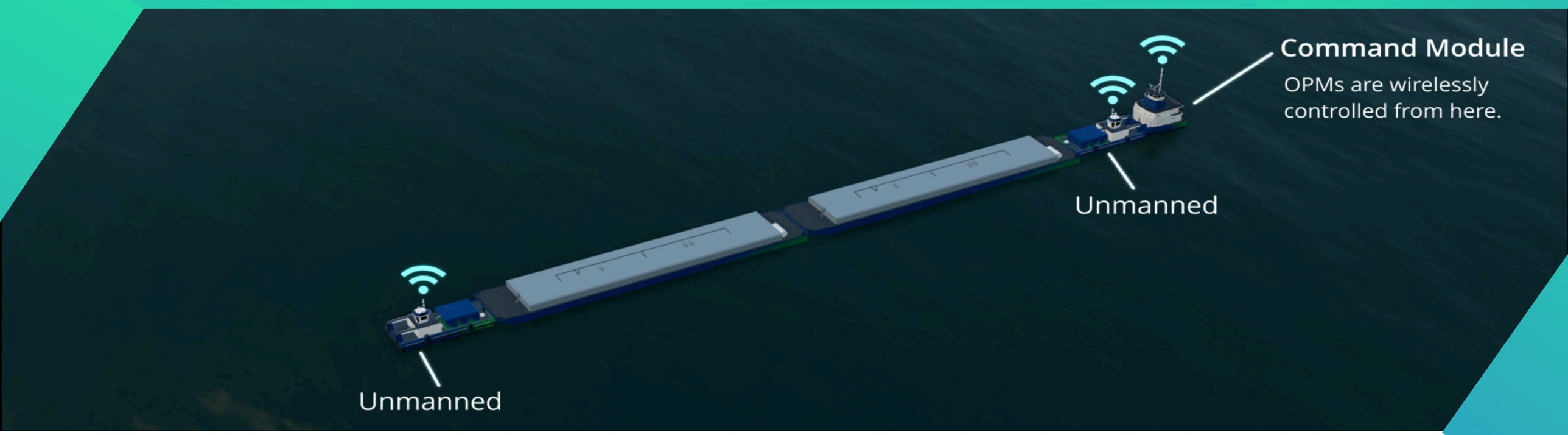


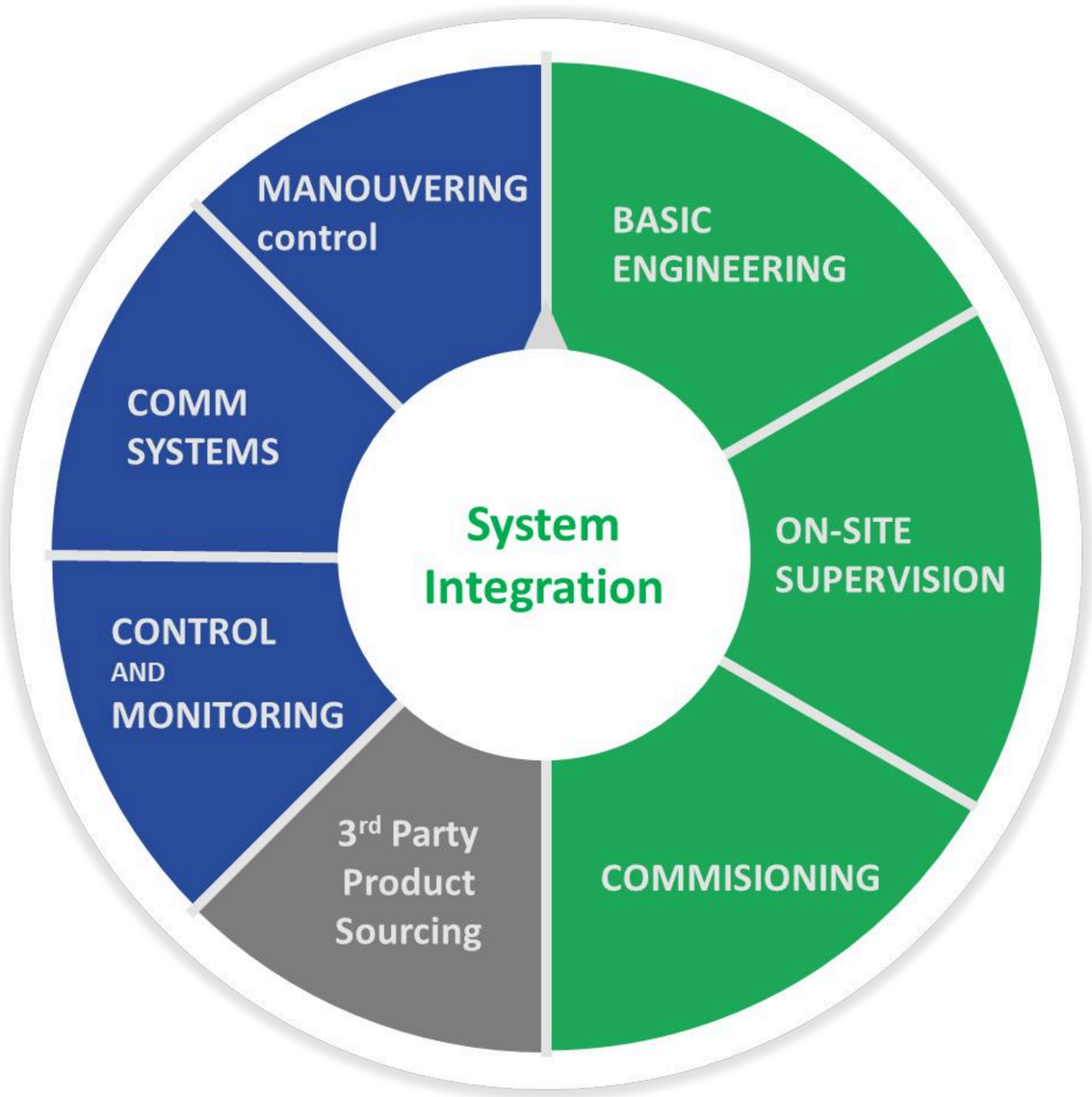
Technology Installed

Total Customers	Integrated Systems	Hybrid and Fully Electric Vessels	CBM Sensors Retrofitted	Digital Twins
1000+	600+	30+	6000+	200+

CUSTOMER FOCUS
- ·Follow market trends
- ·Market knowhow

PRODUCTION
- In-house production of several products

GLOBAL LIFE CYCLE SERVICE
- Spare parts
- Crew Training
- Global services



VESSEL BASICS ELECTRICAL SYSTEM DESIGN
- Basic systems architecture
- Functional specification
- Technical specification

ON-SITE
- Supervision
- Commissioning
- Testing

COMMISSIONING
- Assure installation
- Compliance testing
- Crew training

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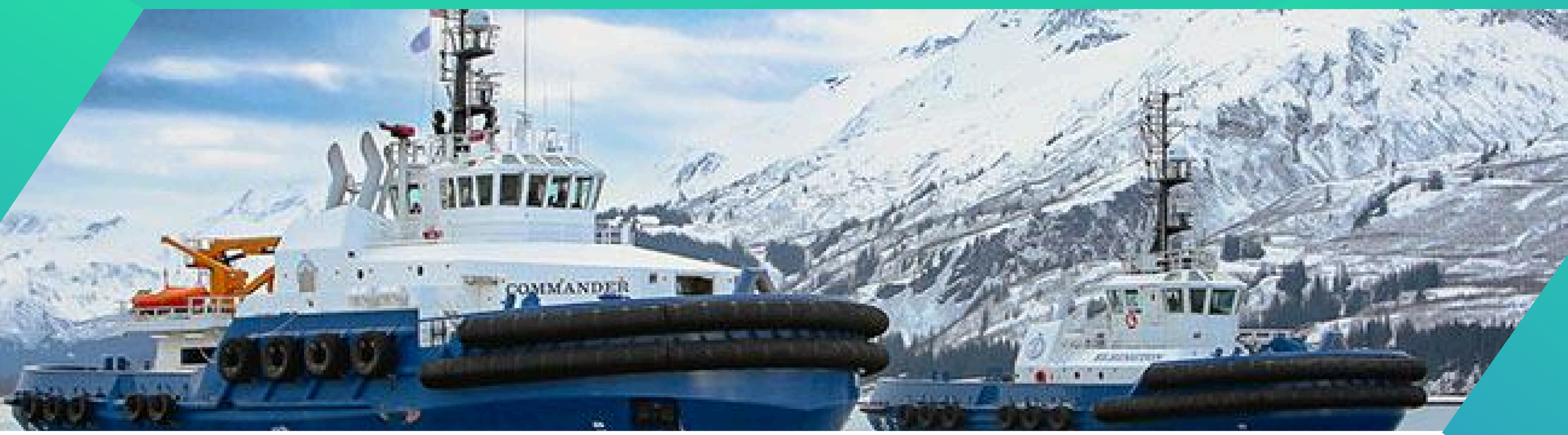

Marine Technologies LLC

Complete Vessel Control Solutions
We deliver more than DP—offering full vessel control, maneuvering, and navigation systems for all vessel types

Smart Monitoring & Maintenance
Our technology enables real-time monitoring, predictive maintenance, emissions tracking, and fleet optimization using machine learning and digital twins.

Built for the Future
With a strong R&D focus, we lead innovation in offshore wind, autonomy, and smart vessel operations—driving safer, greener, and more efficient maritime solutions.

Dynamic Positioning

Lever and Joystick
PKS
DP0
DP1
DP2
DP3

Integrated Bridge System

ECDIS
RADAR
Conning
Bridge Alarm Management System
Heading Control System
Track Pilot
E-Logs

Remote Control & Autonomy

Assisted Operations
Remote Control
Autonomy

Thruster Control System

Tailored systems to each vessel
Integrates to all makes of thrusters

Smart Ship Solutions

COBRAS
CBM
Vibration Tracking
Fuel
Data Hub
CCTV etc.

Hardware

Computers
Panel PC`s
Monitor`s
MRU
I/O modules
Sensors
Communication

Automation

Alarm Monitoring System
Power Management System

Power Systems

Variable Frequency
Batteries
Energy Storage
Charging

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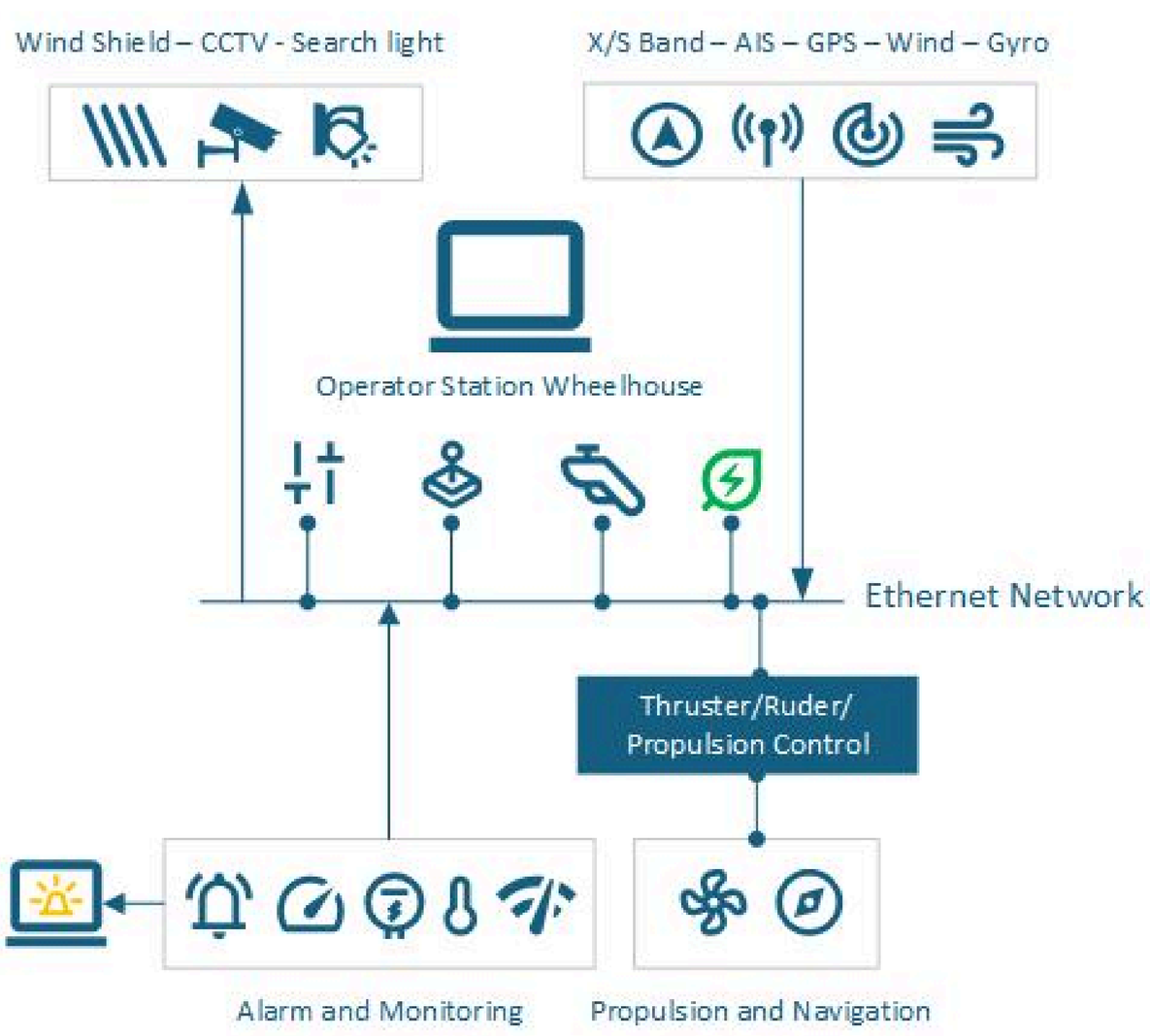
Vessel Maneuvering and Integrated Bridge

- Ethernet infrastructure (less cables)
- Competitive pricing and low lifetime cost
- Reliable and predictable product life cycle
- Less spare parts
- Service friendly
- Remote support



Choose sitting or standing while operating vessel

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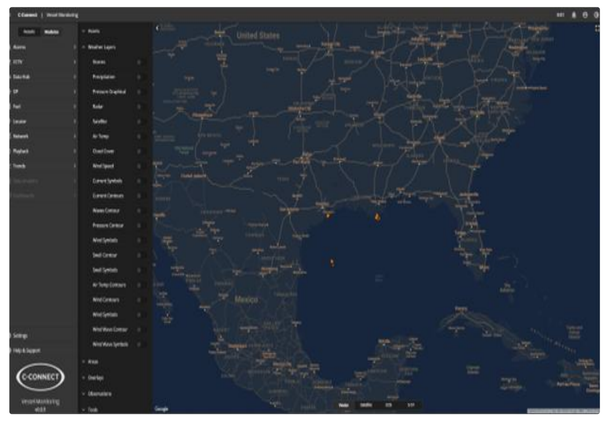
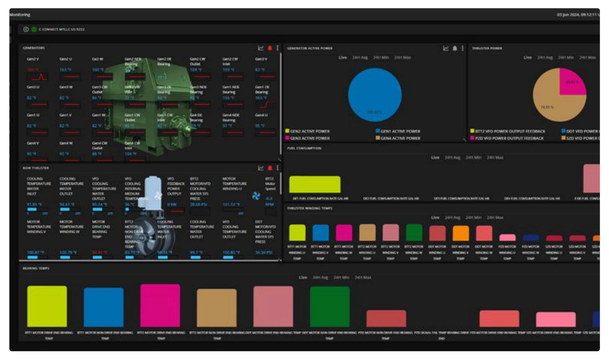
Vessel Monitoring

- Fuel monitoring
- Condition monitoring sensors (vibration, oil, engine bearings)
- Vessel locator and tracking
- AI and Machine Learning
- Vessel performance
- CCTV (deck camera and FLIR)
- Vessel playback
- Data trending
- Vessel systems
- Alarms and events
- Dashboard builder
- Reporting





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What Can Be Detected

Vessel Performance Issues Impacting Operational Costs
Identification of conditions that lead to increased fuel consumption, reduced equipment life, or unplanned downtime—directly increasing operational expenses.

Root Cause Analysis
Identification of the underlying causes behind failures and performance deviations.

Mechanical Failures & Defects
Detection of wear, fatigue, misalignment, imbalance, and mechanical breakdowns.

Electrical System Failures
Identification of faults such as short circuits, overloads, insulation failures, and signal interruptions.

Electronic Performance Issues
Malfunctions or degraded performance in sensors, control boards, or digital systems.

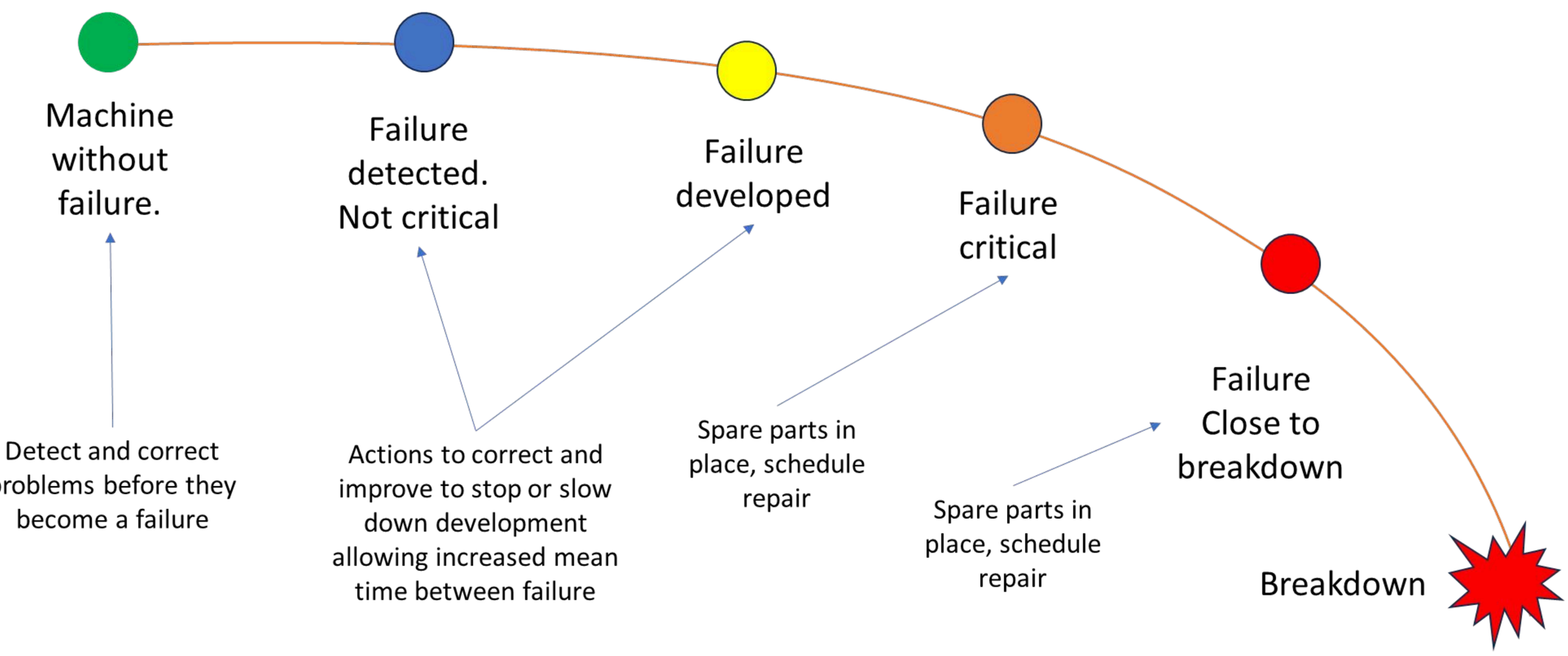
Human Errors
Operational mistakes, mishandling, or misconfigurations that impact system performance.

Component-Level Diagnostics & Life Prediction
Detailed analysis of specific parts with predictive insights into remaining useful life.

Operational Inefficiencies
Detection of non-optimal operating conditions such as load imbalances, inefficient routing, or poor utilization.

Excessive Energy Consumption
Identification of abnormal energy usage due to system inefficiencies or degraded equipment.

Incorrect Maintenance or Procedures
Detection of unnecessary, delayed, or improperly executed maintenance actions.



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Green Technologies LLC

A power, energy and control system integrator

Systems and Solutions
As a marine system integrator for any vessel, we play a crucial role in ensuring the seamless integration and optimization of maritime power and electric systems.

Project Management
Responsible for basic design, supervision, and managing the integration of the power systems we ensure efficient and reliable vessel operations.

Experience and Efficiency
Our extensive expertise in managing the intricate web of components, subsystems, and communication protocols is essential for delivering reliable, efficient, and sustainable marine operations.

- Basic Electrical System Design and Integration
- Alternative power and power storage
- Energy optimization of exiting vessel
- Switchboards and Drives
- Motors and Generators
- Energy Management and Efficiency
- Fault Management and Safety
- Regulatory Compliance
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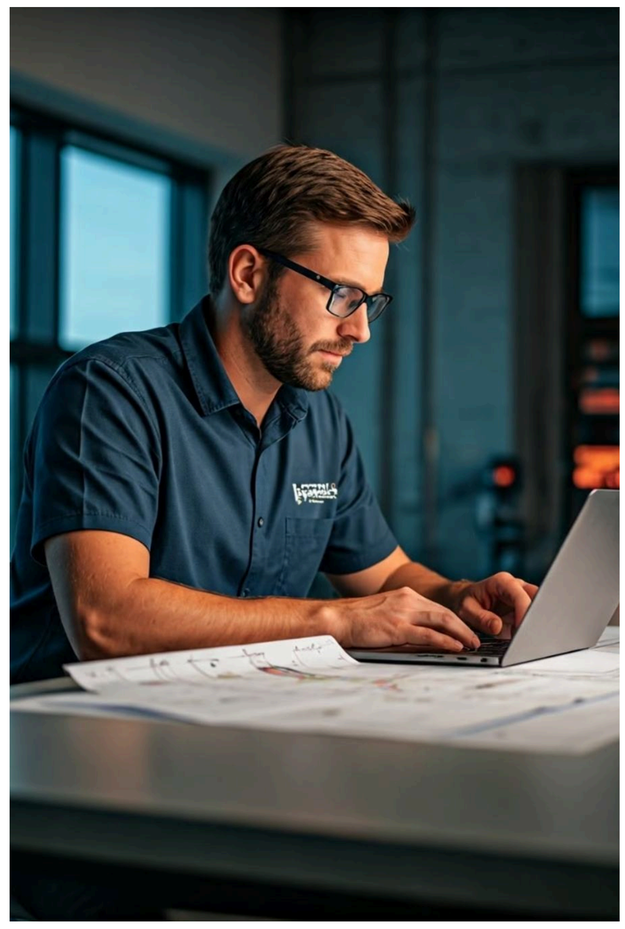
- Control and Monitoring



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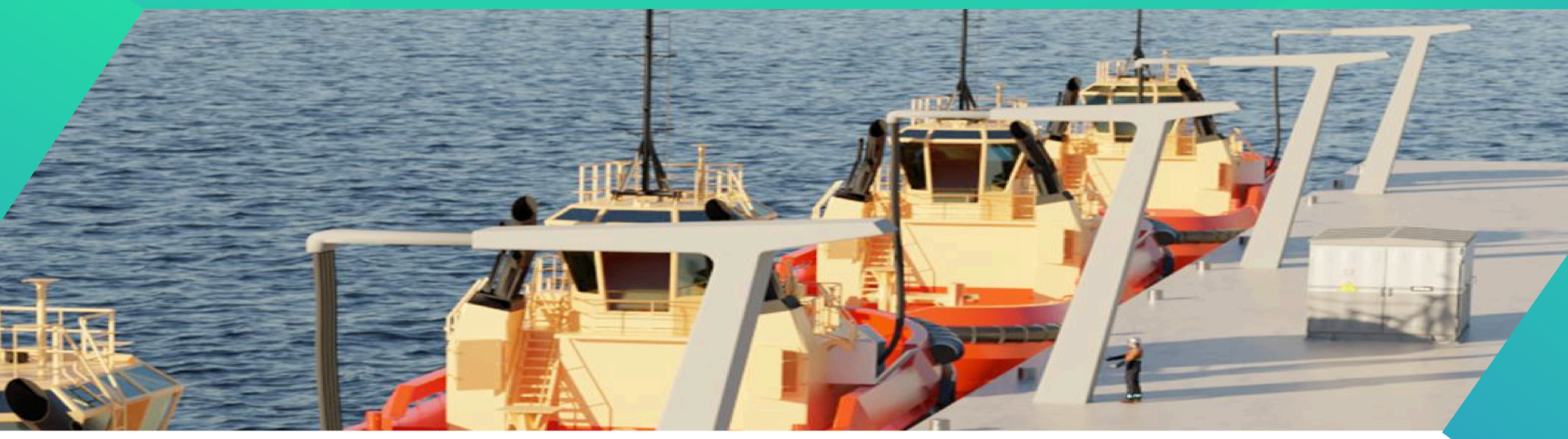

Growing Demand for Efficiency and Sustainability Power Solutions

Efficiency

Operators are seeking power systems that maximize fuel efficiency and minimize emissions to reduce operating costs and environmental impact.

Sustainability

Alternative fuels, variable speed generators, energy storage, heat recovery and shore power are gaining traction as viable options to power offshore vessels in an eco-friendly manner.

Regulatory Compliance

Stricter environmental regulations are driving the need for more sustainable power solutions to meet emissions targets and ensure regulatory compliance.

1

Engine Optimization

Tuning diesel engines for maximum fuel efficiency and minimal emissions. Variable speed generators.

2

Alternative Energy Integration

Incorporating energy storage, shore power and heat recovery systems to supplement diesel power.

3

Energy Management

Implementing advanced control strategies to optimize power use, generation and distribution.

Advancements in Hybrid and Electric Propulsion Systems

1

Hybrid Systems

Combining traditional diesel engines with variable speed and batteries in hybrid systems offer improved efficiency, reduced emissions, and enhanced operational flexibility.

2

All-Electric Vessels

Fully electric propulsion systems, powered by batteries (or fuel cells) and shore power, are becoming a viable option for shorter-range offshore operations.

3

Integrated Solutions

Intelligent power and energy management systems are integrating energy storage, and advanced controls for optimal performance.

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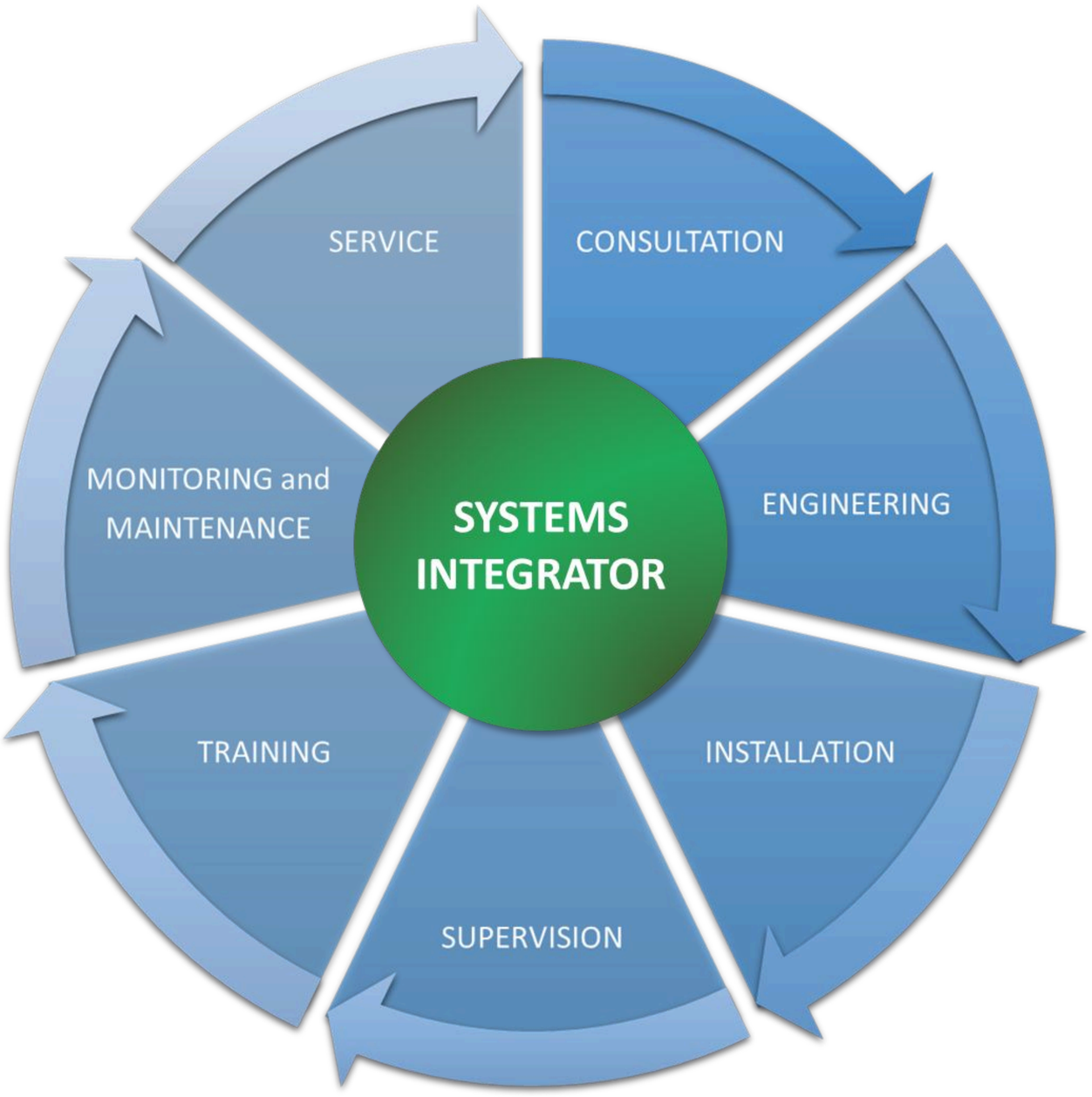
System Integrator Life-Cycle

The Systems Integrator Plays A Crucial Role In The Entire Life Cycle Of A System,
From Initial Planning To Ongoing Support



Consultation: Initial Assessment Of Needs And Requirements

Engineering: Design And Development Of The System Solution

Installation: Setup And Commissioning Of The System

Supervision: Monitoring And Management During Installation

Training: Educate And Train The End-User (Crew)

Monitoring: Track System Performance, Detect Anomalies

Maintenance: Routine Upkeep And Troubleshooting

Service: Proactive Support And Assistance

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Contact Us

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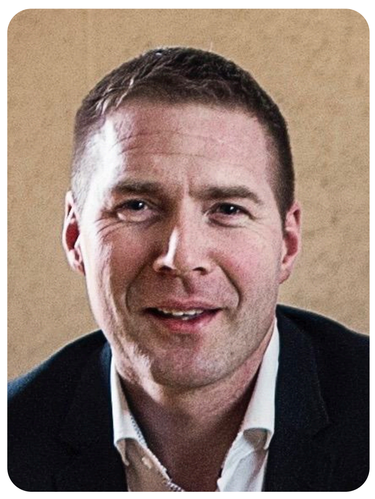
Green Technologies



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