

Siemens Energy

September 24, 2024 – Alaska SE Conference





**affordability, reliability,
and sustainability.**

Vessel Design considerations

1

Reliability with reduced service interruptions for the community

2

Sustainability through maximized efficiency through propulsion solution.

3

Maintainability. Easy to Maintain

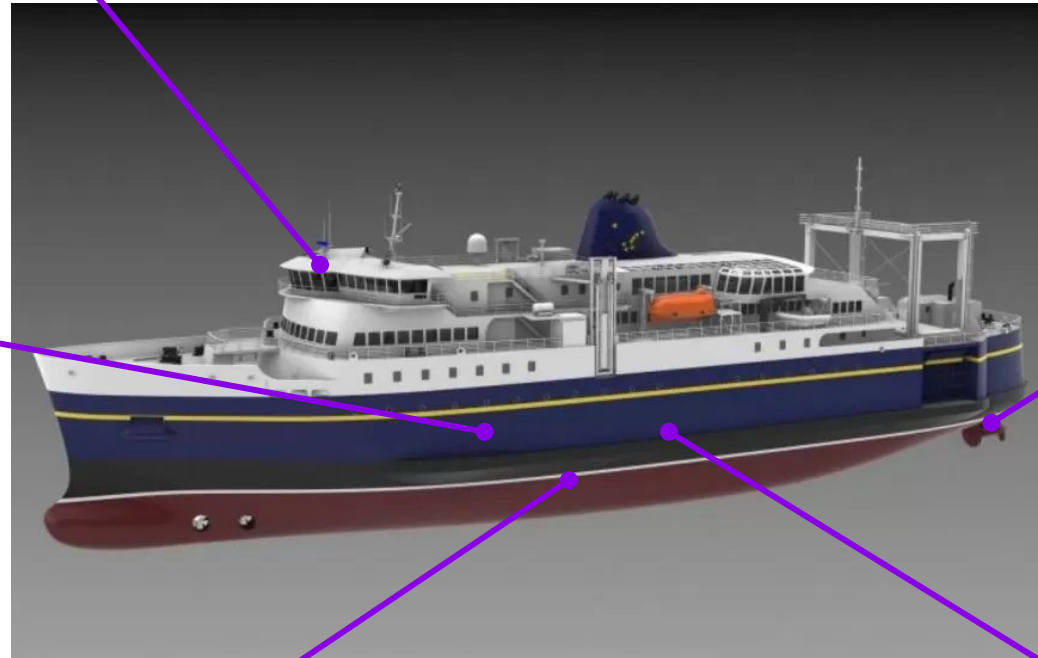
4

Safety

TRV – Design

Siemens Energy Remote Control System
Seamlessly Integrated with the Power
Management System

Permanent Magnet Propulsion
motor coupled to Siemens
Energy’s Proprietary Clean Motor
Drive. Maximized efficiency.



DC grid switchboard with Siemens
ready for future power sources

4x gensets solution – with the
ability to be converted to
alternative fuel in the future.

Energy Storage Solution for ride
through capabilities to improve
Safety and offer fuel savings.

Field of Action “Decarbonized Heat & Industrial Processes”

Focus topics



Power-to-Heat

Key topics:

- Industrial Heat Pumps
- Induction Heaters
- Turbo Heater & Rotating Olefins Cracker

Waste Heat Recovery

Key topics:

- Industrial Waste Heat (sCO₂/ORC/WSC)
- Geothermal (binary ORC)

Fuel Cells

Key topics:

- PEM Fuel Cells for Marine
- PEM Fuel Cells for Decentral
- SOFC for Stationary

Carbon Capture, Utilization and Storage

Key topics:

- Next-gen Carbon Capture
- CO₂-based Geothermal
- sCO₂ cycles
- Compression / integration