GE Marine Power Conversion

October 2015

GE imagination at work

Confidentiality

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GE Marine: Power, Propel & Position

4 key business segments



Exploration & Production

- FPSO
- Drillships
- Jack-Ups
- Semi-submersibles



Offshore Support

- Anchor handlers
- Construction
- Platform supply
- Survey



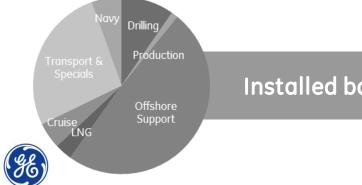
Merchant

- LNG carriers / bunkering
- Cruise / Ferries
- Container vessels
- Chemical tankers



Navy

- Aircraft carriers
- Destroyers
- Frigates
- Logistic / Auxiliary



Installed base on 1,100 marine vessels

GE Marine: Predict

We Power

Gas turbines **Diesel engines** Generator sets Distribution

We Propel

Podded Propulsion Mermaid[™] Pod Seajet[™] Pod Drives & motors



We Position

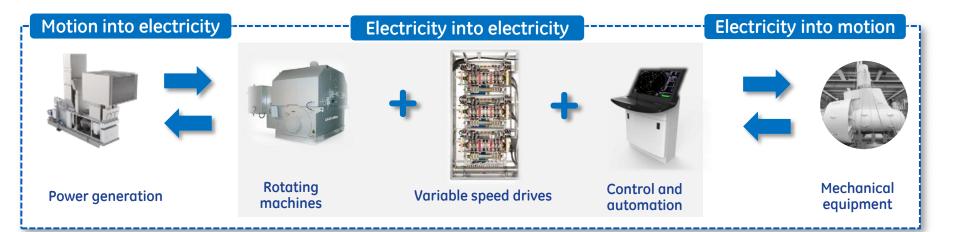
Dynamic Positioning Automation & **Control Systems**







GE Marine: Predict to optimize perf.



Marine systems

Power & Propulsion

 Enhanced thrust capability
Hydrodynamic efficiency for operational performance

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Drilling Systems

- Reduced fuel consumption
 - Reduced emissions
- Reduced maintenance levels

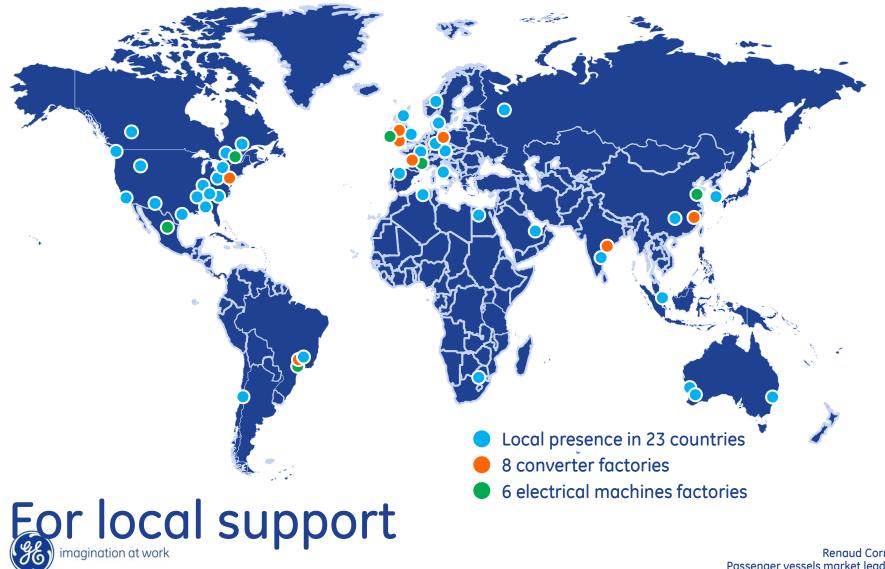
Dynamic Positioning

- Mariner focused
- Energy efficient mode
 - Safety

Vessel Automation

- Reduced fuel consumption
 - Integrated systems
 - Intelligent power mgt

GE Marine: Global footprint



GE Marine: Power Conversion





Dynamic Positioning

More than 900 Dynamic Positioning systems in operation world wide





Automation System

More than 350 integrated automation systems in operation world wide

Power & Propulsion System

More than 500 power and propulsion plants in operation world wide







GE Marine: Merchant Marine



Electric Prop for Passenger Vessels

70+ cruise/ferry/yacht in operation world wide or under construction

PWM converter + induction motor

More than one hundred references in operation WW 11+6 AFE PTO/PTI Container vessels

Dual Fuel Electric Propulsion System

80+ vessels (Ferry, LNG carrier, FSRU, LNG FPSO) in operation world wide or under construction





GE Marine: Merchant Marine Scope



Prime movers, Power generation:

- Diesels, GT
- Alternators

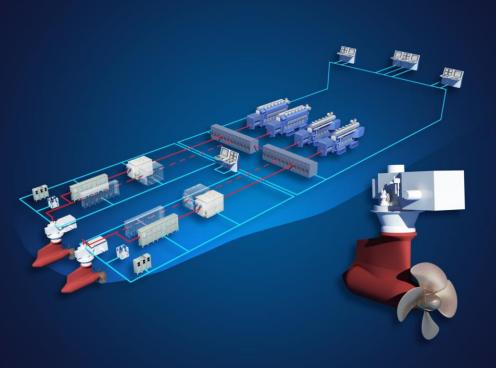
Power distribution:

- SWBD
- Transformers

Propulsion:

- Converters
- PEM, Pods, PTO/PTI





General Electric

Passenger vessels GE main customers



GE Pax customers



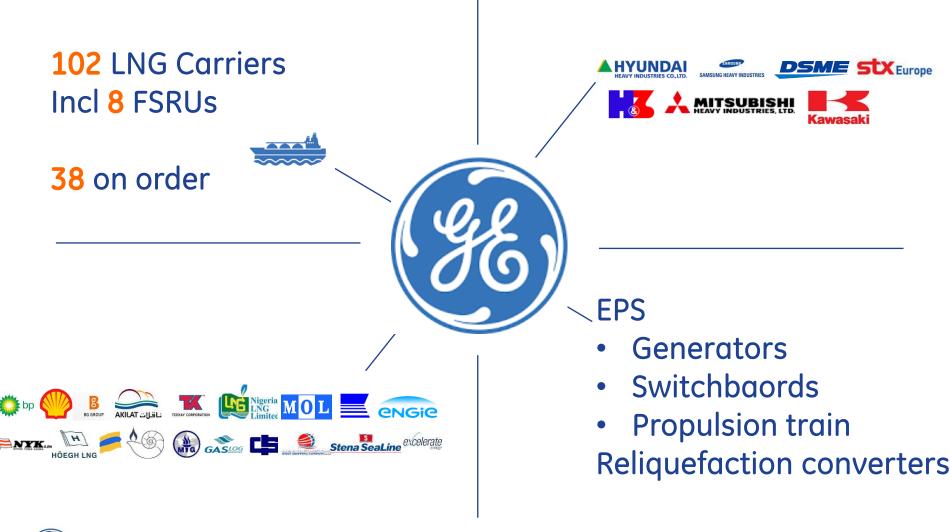
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General Electric





LNG Carriers & FSRUs



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Marine services Expertise in Marine applications



Merchant marine

Services are performed by our skilled marine specialists anywhere in the world, at sea or during dry docks.

Image courtesy of MSC Crociere

Your dedicated Fleet Manager is in charge of service from delivery of the ship and throughout its life.

Center of Excellence in Belfort, France

- Design and service engineering center
- Remote monitoring and diagnostics
- Simulation and training platform
- Service field technicians, engineers and experts



Navy

GE has been supplying electrical power and propulsion systems for Naval ships for over 90 years. We are servicing assets worldwide.

- Aircraft Carriers
- Destroyers
- Frigates
- Submarines
- Support ships
- Specialist ships
- Naval test centers

Centers of Excellence in:

- Rugby, UK
- Belfort, France
- Pittsburgh, USA



Offshore

Global service organization with local delivery. We service all segments i.e. exploration, production and special and offshore support vessels.

- Survey
- Drilling
- Supply and installation
- Transportation

Center of Excellence in Rugby, UK

- Design center
- Remote monitoring and diagnostics
- Service engineering
- Simulation and training platform
- Service field technicians, engineers, and experts



Marine services Merchant Marine



Marine Services - Global support

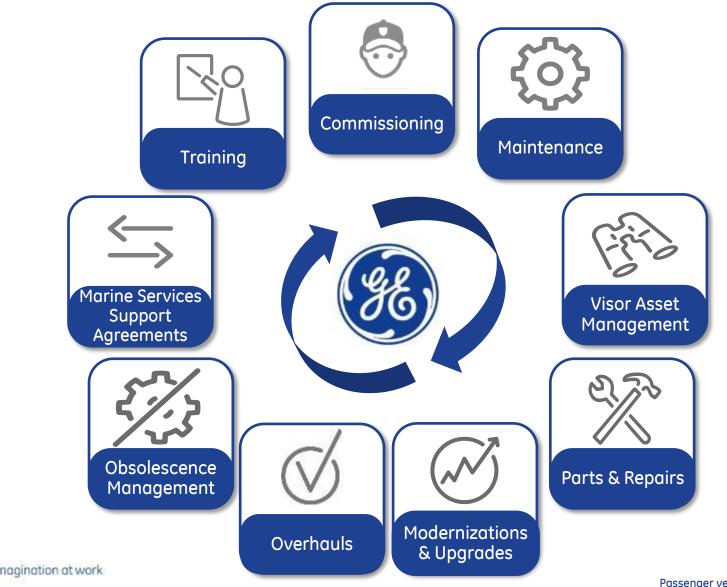
Worldwide team of 350 and growing: Miami, Houston, Macea



350 service engineers, technicians, fleet managers, and contract managers, take care of your systems and operations locally.



Marine Services - Full service offering



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Marine Services - Legacy brands

We are committed to supporting all generations of drives, control and automation, motors and generators installed by us under our various previous names including:



All legacy brands currently serviced by:



Marine Services



