



SEA FORREST

ENGINEERING



VISION

GREEN SOLUTIONS FOR THE BLUE ECONOMY

MISSION

**To deliver cost-efficient, innovative and simple solutions,
enabling mass adoption to reduce maritime carbon footprint**

TIMELINE

2011

Incorporation

Specializing in project management of oil rig construction, afloat repairs/maintenance and fabrication services



2021

Acquisition

Acquired by BH Global and rebranding to Sea Forrest Technologies with Sea Forrest Power Solutions and Sea Forrest Engineering, as wholly owned subsidiaries



Electrification

Development of marine electrification, charging and marine energy storage solutions
Provided the hybrid solution for Singapore's first hybrid powered pilot boat.

2019



2023

Delivery

Delivered:

- Full Electric Propulsion
- Full Electric Ready Propulsion
- Green Hybrid Propulsion
- Green Cabin Energy Saving System



INTRODUCTION



Marine & Offshore
Electrical Supplies



Marine & Offshore
Green LED
Lighting Solutions



SEA FORREST
POWER SOLUTIONS

Sustainability
Energy Solutions



Commercial Night
Vision, Thermal and
Temperature Sensing
Cameras

SEA FORREST
ENGINEERING

Marine MRO,
Fabrication & Project
Management Services

athena
dynamics
Cyber Security

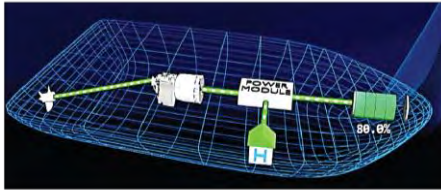
SEA FORREST POWER SOLUTIONS SUSTAINABLE ENERGY SOLUTIONS



SEA FORREST

OUR SOLUTIONS

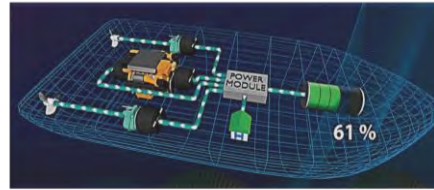
MARINE ELECTRIC PROPULSION SYSTEM



Full Electric Propulsion

Electric motor-driven
Zero-emissions

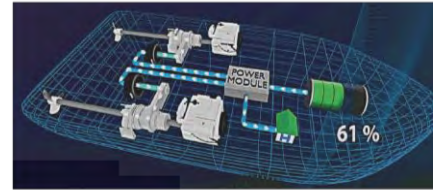
Suitable for harbour crafts, ferries, etc



Full Electric-Ready Propulsion

Electric motor-driven with generator
Serial Hybrid
Improve efficiency & reduce emissions

Suitable for harbour tugs, supply boats, bunker tankers, container feeders, AHTS, PSVs, SOVs, etc



Green Hybrid Propulsion

Electric motor & diesel engine-driven
Parallel Hybrid
Reduce fuel consumption & emissions

Suitable for pilot boats, fast crew boats, CTVs, patrol crafts, etc

HYBRID POWER



GREEN CABIN

Green Cabin

Peak shaving and energy storage functions
Available for retrofits and new builds

*Suitable for fast crew boats, ferries, tankers
Containerships, etc*

OUR SOLUTIONS

ENERGY STORAGE SYSTEMS



SEAGEN

Marinized Batteries

First marinized battery designed, built and type-approved in Singapore by BV & RINA (pending LR & ABS)



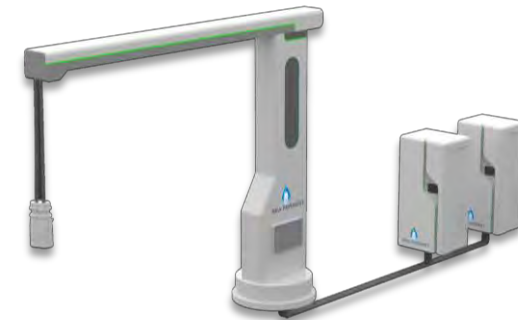
ENERGY CUBE

Marine & Offshore Energy Storage System

Peak shaving and energy storage functions for offshore vessels and platforms

Suitable for oil rigs, FPSOs, AHTS, SOVs, containerships, tankers, bulk carriers, etc

ENERGY CHARGING SYSTEMS



MARINE SMART ENERGY CHARGING SYSTEM

Shore-to-ship charging

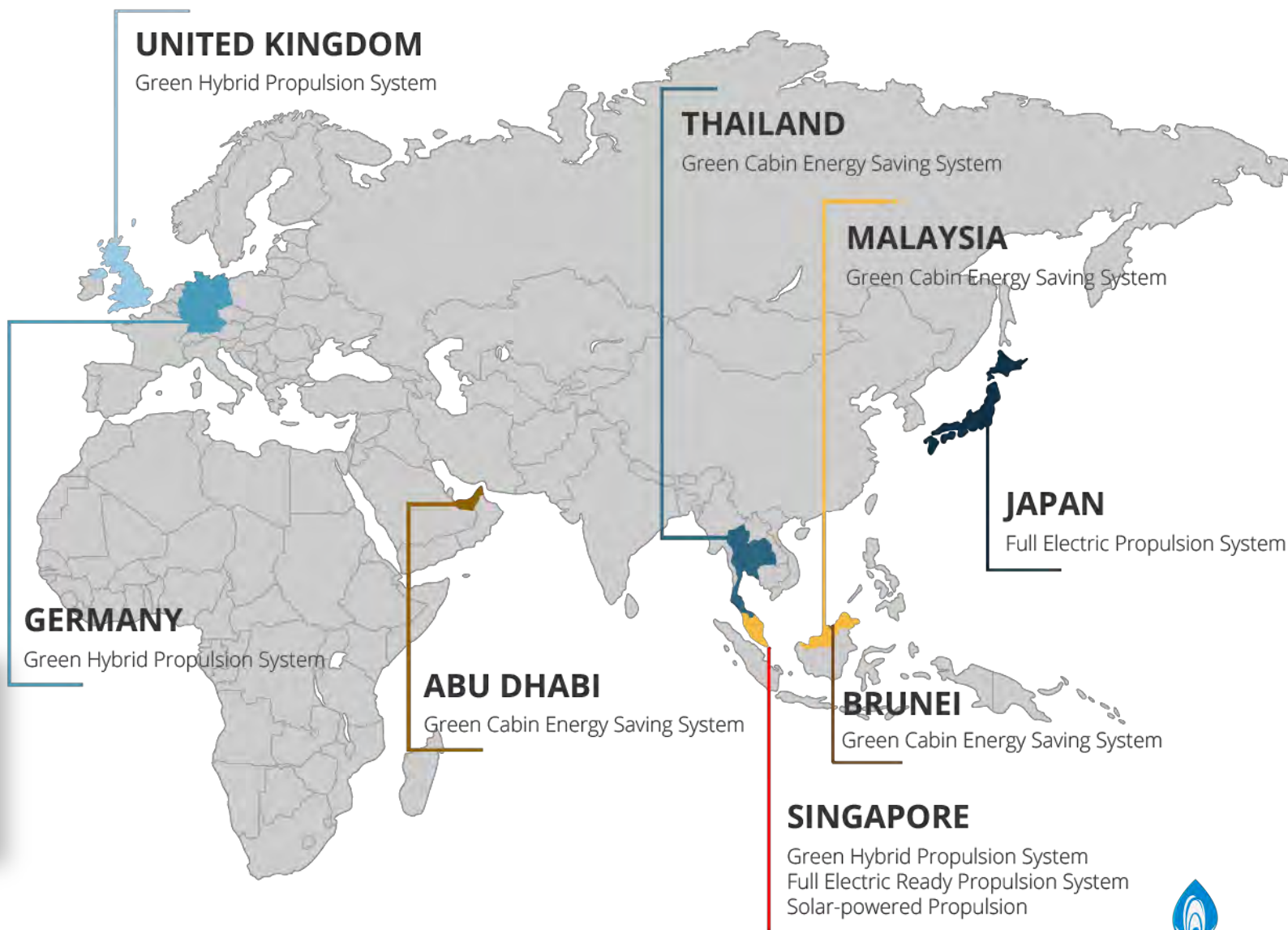
Consists of charging arm, energy pillar and power pillar

Utilises constant tension cables and connections

Suitable for harbour crafts, supply boats, tugs, ferries and pleasure crafts, etc

Sea Forrest Power Solutions

OUR SOLUTIONS



SEA FORREST **ENGINEERING**

MRO SERVICES
EQUIPMENT & STRUCTURE FABRICATION
OFFSHORE VESSEL MOBILISATION

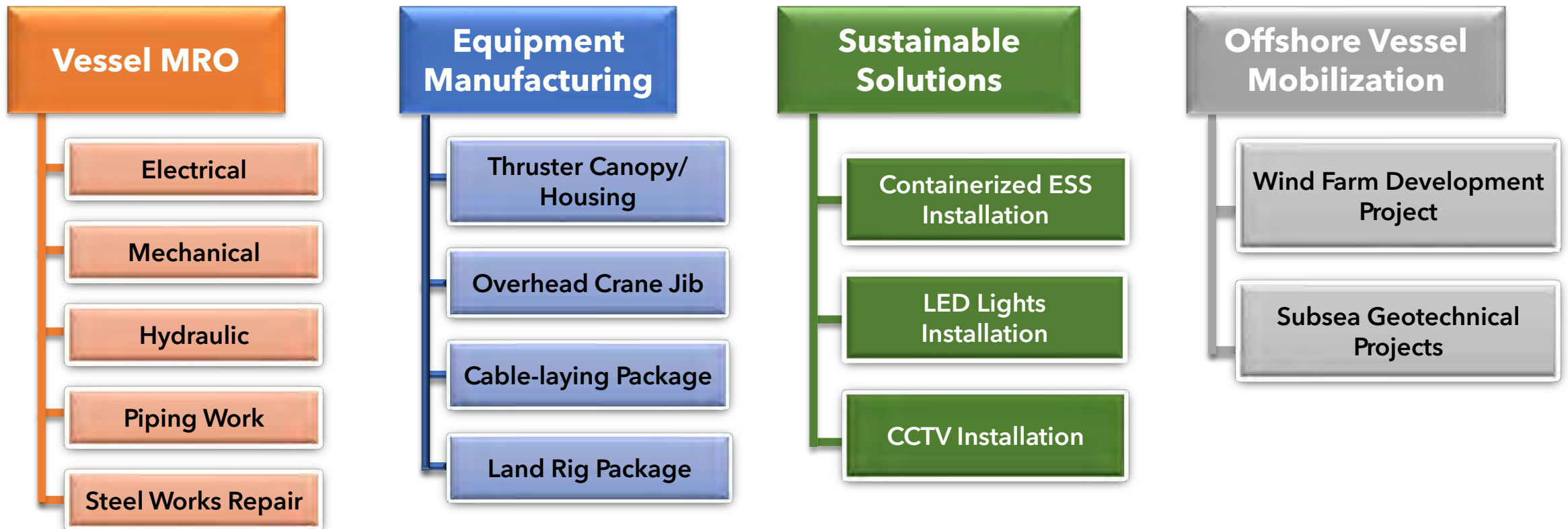


ACCREDITATION



SEA FORREST ENGINEERING SERVICES

AIM: To provide quality one-stop MRO solution for the shipping, offshore oil and gas, and offshore wind industry.



SERVICES

To provide quality one-stop MRO solution for the shipping, offshore oil and gas, and offshore wind industry.

- Steel structural, piping repair for ships at anchorage or on voyage
- Installation of new structure and piping systems
- Tank cleaning at anchorage
- Replacement of deck fittings and mooring systems
- Stern tube seal renewal & bow thruster overhaul
- Machinery servicing & overhaul
- Electrical works & troubleshooting
- Crane repairs
- Non-destructive testing
- Vessel mobilization preparatory works
- Engineering project management



STRUCTURAL & EQUIPMENT FABRICATION

AIM: To provide quality one-stop MRO solution for the shipping, offshore oil and gas, and offshore wind industry.



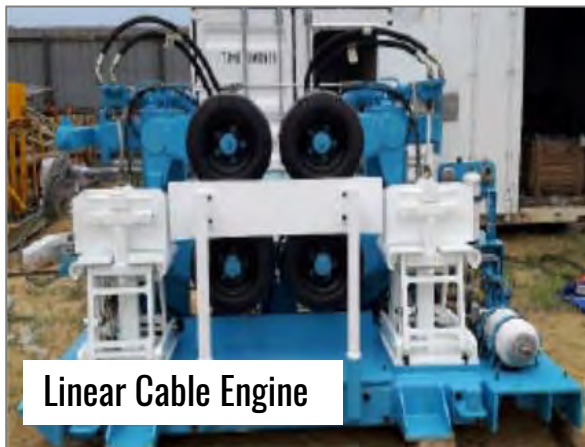
Cable-lay Vessel Carousel



Retrofit Thrusters Housing



Retrofit Thrusters Power Unit



Linear Cable Engine



Containerize ESS



Derrick - Fabrication, Trial Assembly and Commissioning

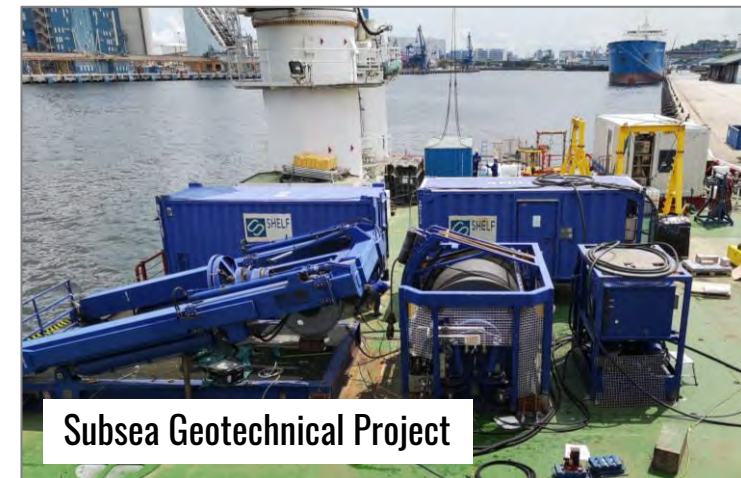
VESSEL MRO (AFLOAT & ONSHORE)

AIM: To provide quality one-stop MRO solution for the shipping, offshore oil and gas, and offshore wind industry.



OFFSHORE VESSEL MOBILISATION

AIM: To provide quality one-stop MRO solution for the shipping, offshore oil and gas, and offshore wind industry.



SUSTAINABLE SOLUTIONS

AIM: To provide quality one-stop MRO solution for the shipping, offshore oil and gas, and offshore wind industry.



Containerize ESS



LED Lighting



CCTV Installation

PAST PROJECTS



Containerized ESS Fabrication and Installation



PAST PROJECTS

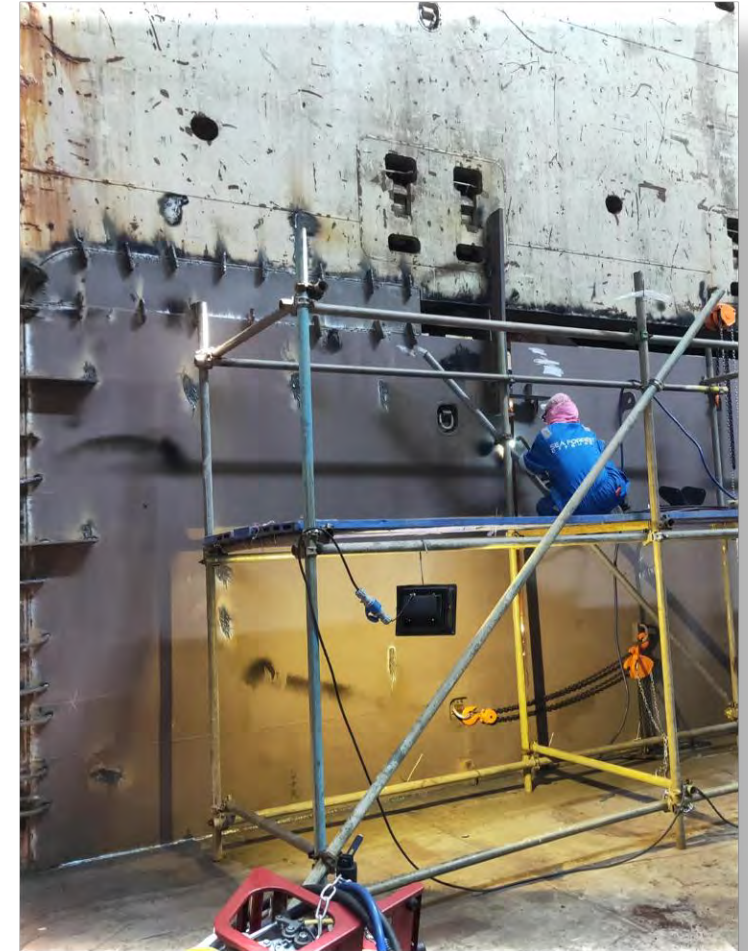
Vessel Lightings Retrofit to LED Vessel at Singapore Anchorage



PAST PROJECTS

Cargo Hold Center Bulkhead Damage Repair

Vessel on voyage from China to
South Korea



PAST PROJECTS



Anchor Windlass Pinion Gear & Idol Gear Replacement

Vessel in Sembcorp Marine Admiralty Shipyard Singapore

PAST PROJECTS



CCTV System Installation & Commissioning for Car Decks

Vessel in Sembcorp Marine Admiralty Shipyard Singapore

PAST PROJECTS



Tank Longitudinal Bulkhead Repair
Vessel at Singapore Anchorage

PAST PROJECTS



Staging & NDT of Damaged Propeller Blade
Vessel at Singapore Anchorage.

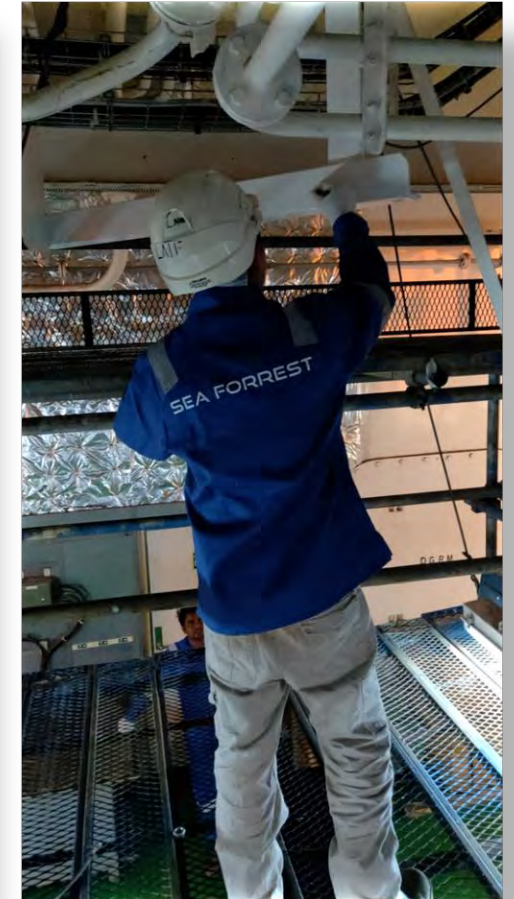
PAST PROJECTS



Replacement of Damaged Anchor & Anchor Chain

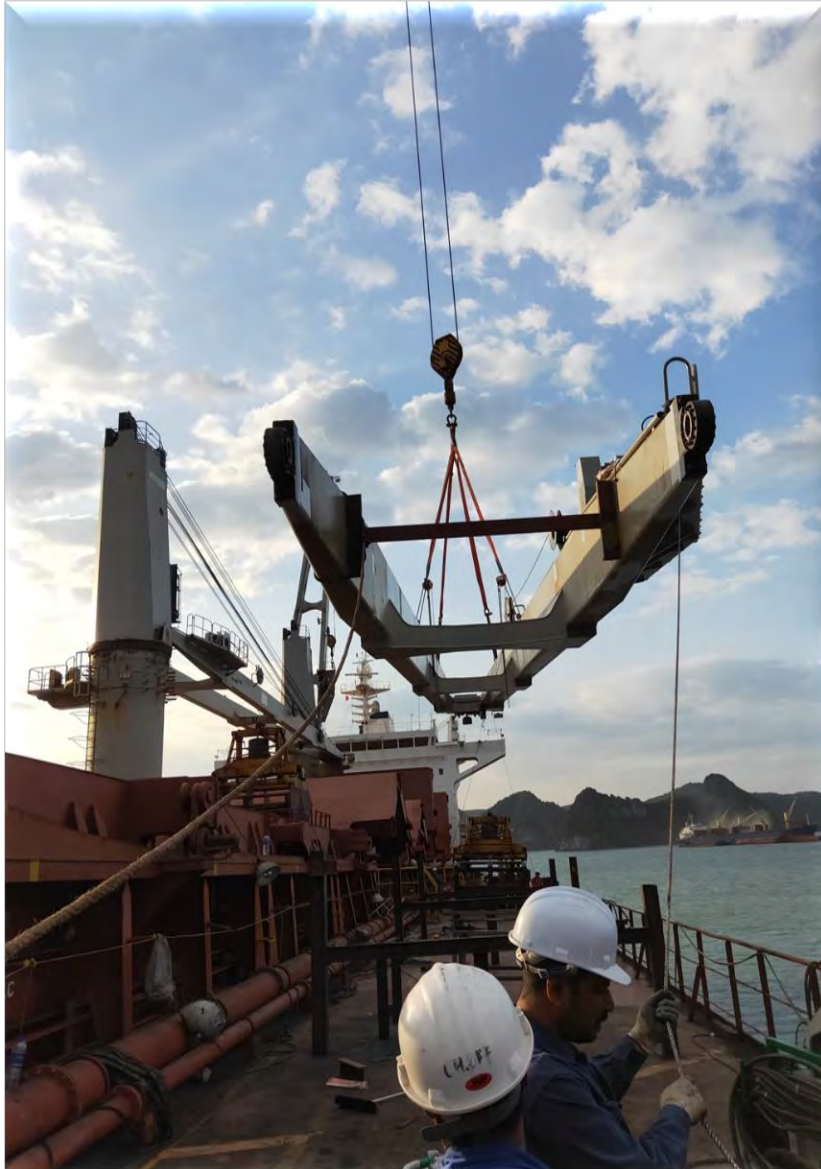
Vessel at Singapore Anchorage

PAST PROJECTS



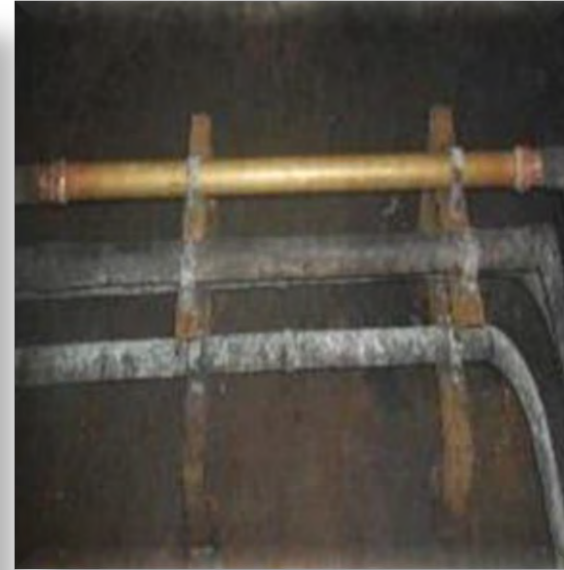
BWT System Vent Pipe Installation
Vessel on Voyage from Papua New Guinea to China

PAST PROJECTS



Crane Jib Damage Repair & Load Test
Vessel at Vietnam (Cam Pha) Anchorage

PAST PROJECTS



Cargo Tank Heating Coil Repairs

Vessel on Voyage from Papua New Guinea to China

PAST PROJECTS



Crane Jib Bearing Renewal
Vessel at Singapore Anchorage

PAST PROJECTS



Bow Thruster Overhauling
Vessel at Singapore Anchorage

PAST PROJECTS



Crane Hydraulic Cylinder Overhaul

Vessel at Singapore Anchorage

PAST PROJECTS



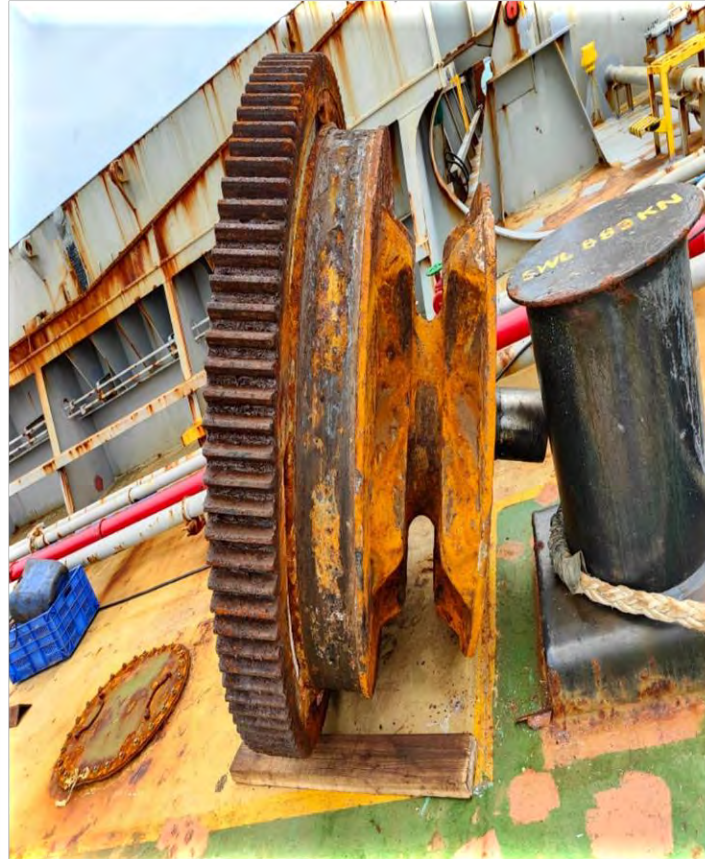
Side Shell Plate Damage Repair
Vessel at Singapore Anchorage

PAST PROJECTS



Stern Tube Seal Renewal
Vessel at Singapore Anchorage

PAST PROJECTS



Mooring Winch Overhaul
Vessel at Singapore Anchorage

PAST PROJECTS



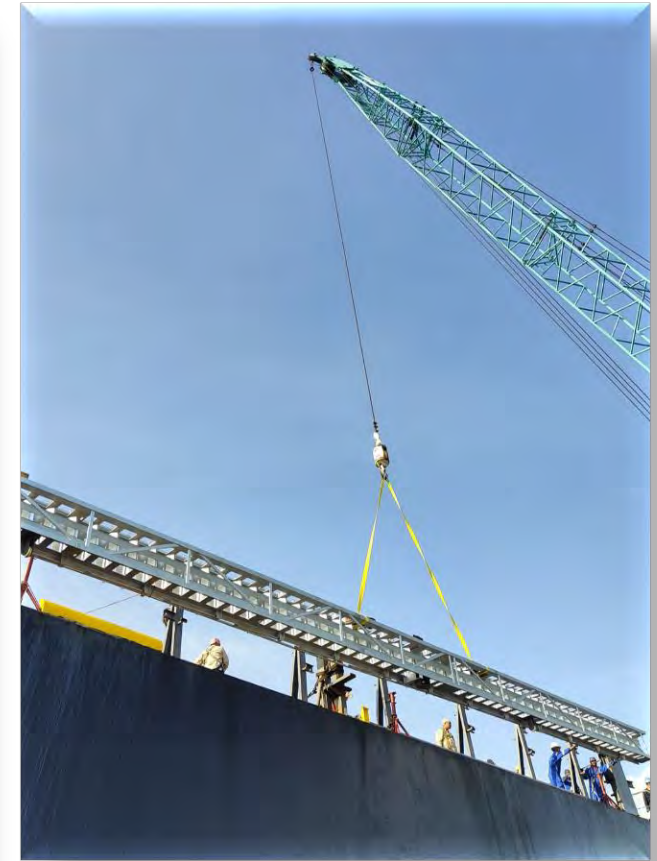
Engine Room Sewage Water Pipe Renewal
Vessel at Singapore Anchorage

PAST PROJECTS



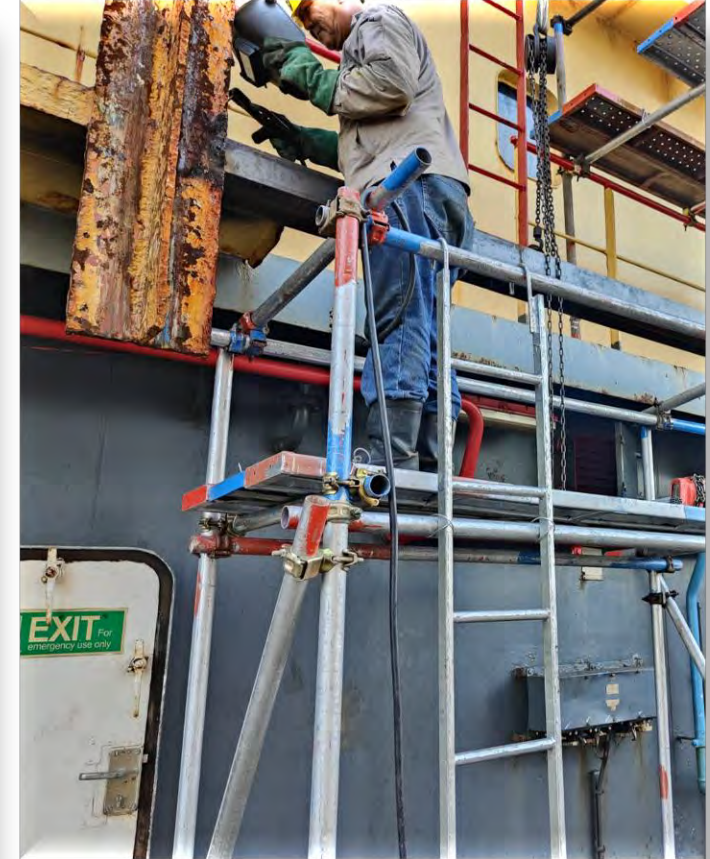
Windlass Brake Band Liner Replacement
Vessel at Singapore Anchorage

PAST PROJECTS



Combination Ladder Renewal and Load Testing
Vessel at Singapore Anchorage

PAST PROJECTS



Cell Guide Repair
Vessel at Singapore Anchorage



SEA FORREST

Green Solutions for the Blue Economy

For more enquiries, contact:
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