



GREEN TECHNOLOGY RETROFIT PROJECTS

3C Metal are specialists in turnkey in-service green technology retrofit projects, offering a variety of installation options aimed at reducing vessel off-hire. Our unique approach allows vessels to continue operating, providing a one-stop, cost-effective retrofit solution.

3C Metal is actively working on and can support you with the following projects:

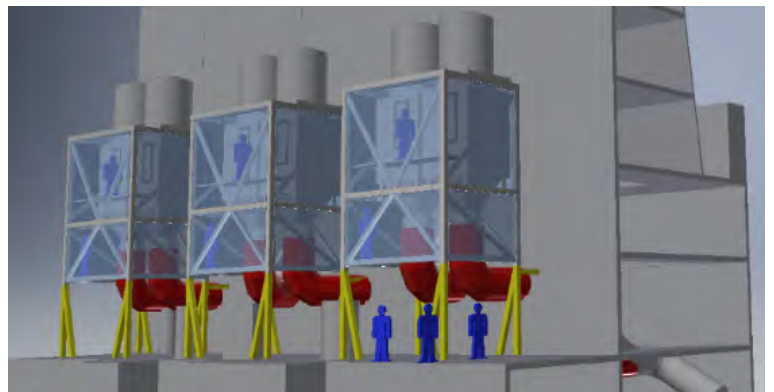
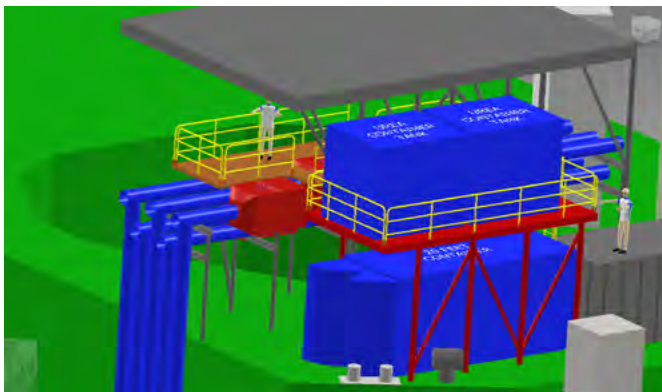
- Exhaust gas cleaning - NOx and SOx scrubbers
- CO² capture
- Electrical power optimization
- Vessel propulsion power reduction - sail/ rotor integration
- Ballast water treatment system (BWTS) integrations

PROJECT MANAGEMENT

All projects are run by our dedicated in-house project management team. Our highly experienced and qualified teams ensure smooth communication and detailed project planning throughout the duration of each project.

DESIGN AND DETAILED ENGINEERING

3C Metal offers complete class-approved design and engineering packages, tailored to fit our clients' needs. Using our in-house engineering office allows for a smooth design process. Our team is experienced with all major system providers and class societies.



PROCUREMENT AND PREFABRICATION

3C Metal offers complete supply chain solutions through our global sourcing and logistics network. We work with all major system makers in order to provide competitive retrofit packages. All prefabrication is executed in-house, at any of our strategically located global facilities.



INSTALLATION AND COMMISSIONING

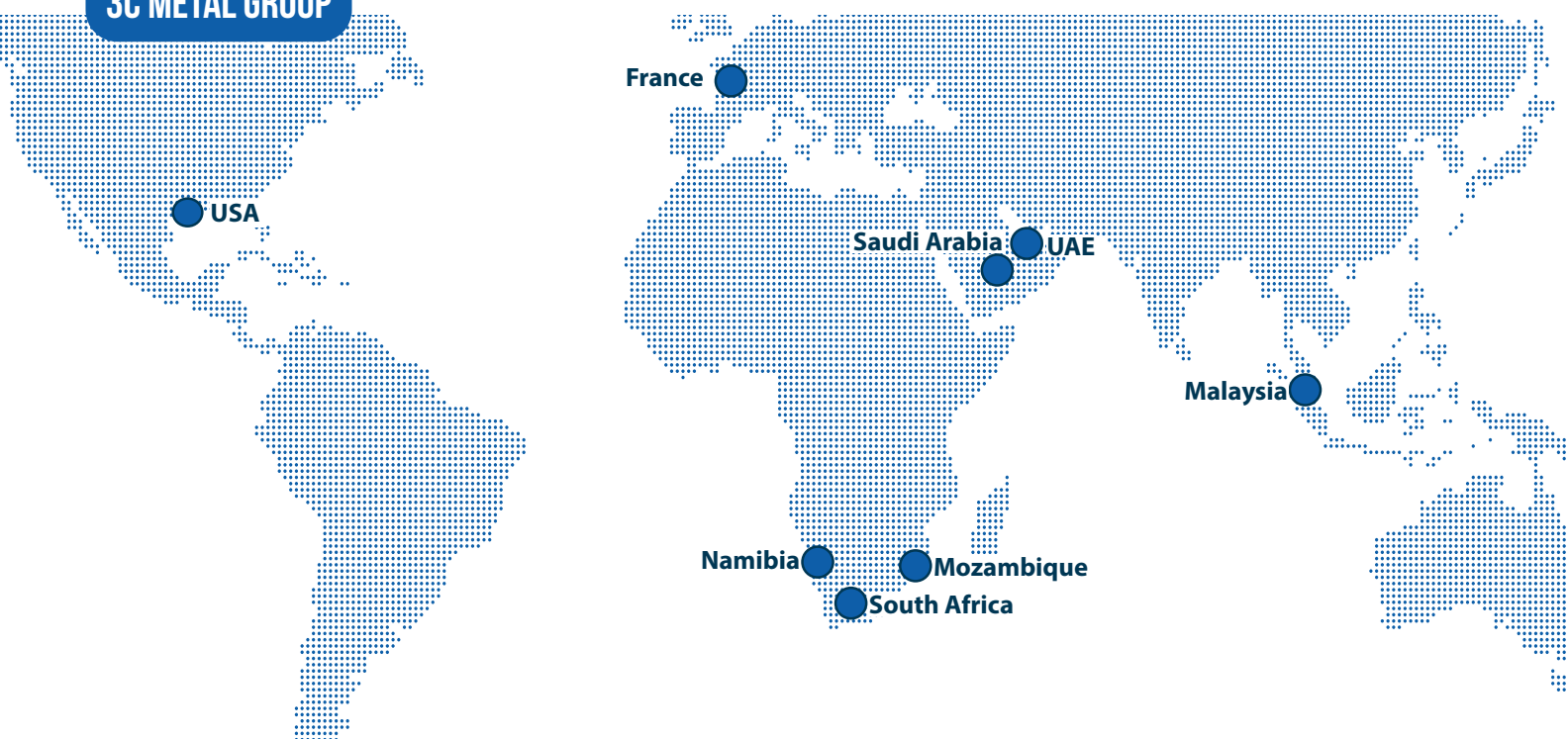
With a skilled global workforce, 3C Metal specializes in complex in-service retrofit installations. Our dedicated riding squads are available at short notice to mobilize anywhere in the world.



SERVICE OPTIONS

ENGINEERING AND DESIGN	PROCUREMENT AND PREFABRICATION	ELECTRICAL	INSTALLATION	SUPPORT
ONBOARD SURVEY AND 3D SCANNING	STRUCTURES, PLATFORMS, PIPING, SPOOLS AND MORE	CONTROL SYSTEM INTEGRATION AND UPGRADES	EQUIPMENT FOUNDATIONS AND STRUCTURAL MODIFICATIONS	PRE-COMMISSIONING
3D MODELING AND DESIGN	VALVES AND INSTRUMENTATION	POWER/ CONTROL CABLING	PENETRATIONS AND PIPE SUPPORTS	INSPECTIONS AND TROUBLESHOOTING
FEASIBILITY STUDIES	GALVANIZING, SURFACE TREATMENT AND PE LINING	CABLE TRAYS AND MULTI CABLE TRANSITS	INTEGRATION OF ANCILIARY SYSTEMS	EMERGENCY REPAIRS
DESIGN CALCULATIONS	GRE AND EXOTIC MATERIALS	UPDATES TO LOAD BALANCE AND SINGLE LINE DIAGRAMS	INTEGRATION OF NEW PIPING AND TIE-IN SPOOLS	MODIFICATIONS AND SYSTEM UPGRADES
CLASS REVIEW AND APPROVALS	LOGISTICS AND PACKAGING	INTEGRATION OF SWITCHBOARDS, DISTRIBUTION BOARDS AND TRANSFORMERS	INSTALLATION OF ALL COMPONENTS AND INSTRUMENTATION	SUPPLY OF SPARE PARTS

3C METAL GROUP



FOR MORE INFORMATION CONTACT GREENTECH@3CMETAL.COM