## Johs. Fritzen & Sohn GmbH & Co. KG

Involvement in Special Projects

2004 - 2015

Year	Project	Activities
2013- 2015	Project Management of the Construction and Delivery of a 120,000 tons Repair Dock for Qatar	Contract closure, Build up of Supervison Team, Supervison of Detailed Design, Building Supervison, QHSE Managment, Towage Supervision, Installation Supervision, Claim Managment
2013-2014	Design Managment for Floating Hospitality Island	As extension of the beach activities a Hotel is planning to build a 120 m beach front Island. Design Managment, Calculation and Budget.
2012 - 2013	Tender Management for a 120,000 Tons Repair Dock for Qatar	Review and Optimisation of Basic Design, Managment of Tender Process, Bid Evaluation and Award to winning Tenderer
2012	Design Management of a LNG driven Power Supply barge for Container and Cruise Vessels	Engineering of a power supply barge to meet clients requirements and Class and Authority codes. Budget Calculations
2012	Design of Dual Use Reefer Containers	Basic and Detailed Design of a 40 foot Container to be used as reefer and as Dry Heavy cargo container. Building Supervison of Prototype.
2012	Basic Design of LNG fueled Cape Size Bulker	Design of the Tank and Propulsion system to enable New Built Bulkers to use HFO and LNG as fuel
2011	Development of Dry Scupper Systems for Feeder Vessels	Detailed design and Business plan for refits of existing Feeded Vessles with Dry Scupper exhaust cleaning systems
2011	Evaluation of Emission Reduction Systems for Vessels sailing in SEPAs	Comparism of various existing Emission Reduction Systems for different ship types to be refitted for stringent Emission Rules in SEPAs
	Previous Projects in other engagements	
2011	Design Managment Optimisation of Standard Type LNG Carriers	Redesign existing standard Type vessels with modern Propulsion system, increased Cargo Volume and reduced fuel consumption.
2010	Development of a Zero Emmission propulsion system for large Sailing Yacht	For a 80 m GREEN SHIP Sailing Yacht design the propulsion system was developed in a way, that three week ZERO EMISSION operation was possible.
2010	Development of containerized LNG Fuel System for Feeder Vessels.	Fuel Container, Fuel Supply Concept and Regas Unit were designed and submitted for approval of two Classification Societies.
2009	Redesign of the keel construction of a 24 m Sailing Racing Yacht	An unsufficient design had caused a damage witch almost caused loss of keel. The hull was re-designed and FEM calculation confirmed sufficient strength before the Yacht was repaired.
2009	Development of Document- and Quality Control System for refit of 92 m Vintage Motor Yacht	Collection of Documents from various sources and installation of Document Control System. Integration of Quality and HSE control in refit process.
2004-2007	Project Managment of Total Refit of 42 m Vintage Motor Yacht	Disassembly of Yacht down to bare steel, replacement of corroded plates and frames, re-design and build up to meet owners requirements and MCA code.