CONVERSIONS OF SHIP’S PROPULSION TO LNG FUELED

DESIGN ASPECTS
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DESIGN ASPECTS

REMONTOWA MARINE DESIGN & CONSULTING IS ONE OF MAJOR COMPANIES FROM REMONTOWA HOLDING S.A.

MOST EXPERIENCED POLISH DESIGN OFFICE IN LNG FUELED VESSELS

IN OVER 20 YEARS OF EXPERIENCE WE DID:

90 NEWBUILD VESSELS

ALL SHIP TYPES*

25 LARGE CONVERSIONS

LNG WORKSHOP: LNG VALUE CHAIN TRAINING
CONVERSIONS OF SHIP’S PROPULSION TO **LNG FUELED**

**PORTFOLIO OF DESIGNED BY US & DELIVERED BY REMONTOWA HOLDING COMPANIES**

LNG FUELED VESSELS

14 LNG FUELED

1 LNG CARRIER

2 CONVERSIONS TO LNG FUELED

AND MORE IS COMMING!
WHY SHIPOWNERS WOULD USE LNG TO FUEL THEIR SHIPS?

- LOWER CO2 EMISSION
- LOWER SOX, NOX EMISSION
- LOWER FUEL COST (WHEN OPERATING IN ECA/SECA)
WHY SHIPOWNERS CAN BE DISCOURAGED?

- LNG SUPPLY
- LOSS IN DEADWEIGHT
- CAPITAL EXPENDITURES
CONVERSIONS OF SHIP’S PROPULSION TO LNG FUELED
DESIGN ASPECTS

HOW THE PROCESS OF LNG CONVERSION DESIGN LOOKS?

FEASIBILITY STUDY & CONCEPT
- Existing Documents Review
- Owner vs Rules Requirements
- Initial General Arrangement
- Profit & Loss Statement

MODEL DEVELOPMENT
- 3D Laser Scanning
- Point Cloud Merge
- Reverse Engineering of Existing Structure
- New Equipment & Piping

CLASS APPROVAL DOCUMENTS
- Hazid / Hazop
- Stability & Structural
- Machinery & Piping
- Electrical Installations

WORKSHOP & SUPERVISION
- Conversion Planning
- Procurement
- Production Documentation
- On Site Performance

LNG WORKSHOP: LNG VALUE CHAIN TRAINING
WHAT ARE THE CHALLENGES?

- LNG TANK LOCALIZATION
- LNG VAPOURS DISCHARGE
- BUNKERING ARRANGEMENTS
- INTERFACING WITH EXISTING SYSTEMS
- MINIMIZING DEADWEIGHT IMPACT
BC FERRIES SPIRIT CLASS CONVERSION
CONVERSIONS OF SHIP’S PROPULSION TO LNG FUELED

BC FERRIES SPIRIT CLASS CONVERSION

LNG WORKSHOP: LNG VALUE CHAIN TRAINING
CONVERSIONS OF SHIP’S PROPULSION TO LNG FUELED

BC FERRIES SPIRIT CLASS CONVERSION
THANK YOU FOR YOUR ATTENTION