# Blue INNOship

**Project name:**

Reduction of methane from LNG in diesel engines

**Project participants:**

MAN D&T, DTI, DTU

# Short project description

Analyzing unburned methane formation mechanisms in 4SMSE's and implementation of relevant technology to reduce the emissions in MAN D&T's engine.

| Technology Readiness Level | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | X | | | | | | |

# Key features or key findings

*What key features or findings would you like to highlight from your project work until now?*

1. 2-zone engine combustion model ready
2. Identification of areas for improvement of model finished
3. Experimental facilities for methane combustion analysis obtained in collaboration with Argonne National Laboratories
4. Rh catalysts exhibit excellent oxidation activity.
5. High temperatures deactivates the $Rh/Al_2O_3$ catalysts.
6. Measures to reduce methane emissions on MAN engine initiated

# Project challenges and solutions

*What challenges have the project team experienced and how has the team solved them?*

Challenges:

1. Production delay with MAN D&TEmployment at DTU changed
2. No interested ship owners so far to the DTI measurement programme

Solution:

1. MAN has speeded up their activities as much as possible
2. New plan for employment at DTU
3. Ship owner still not found

# Why should you buy our solution?

*What makes your solution the preferable one compared to other available solutions?*

Unburned methane is a major problem with this type of engine. Identifying the problem and solving it will be a valuable feature of this engine.