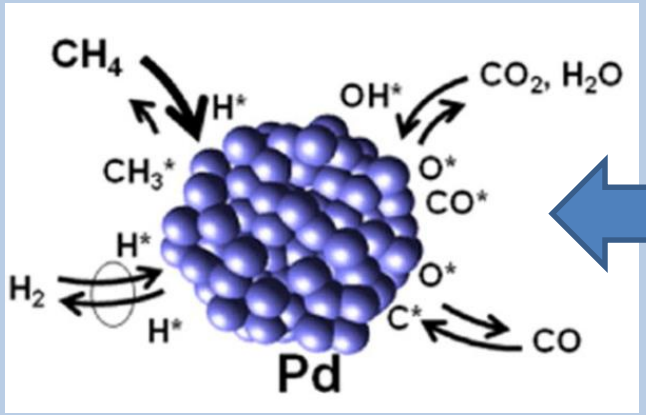
LNG Expert Workshop "LNG Innovation Projects - Evaluation & Market introduction"

MARIKO

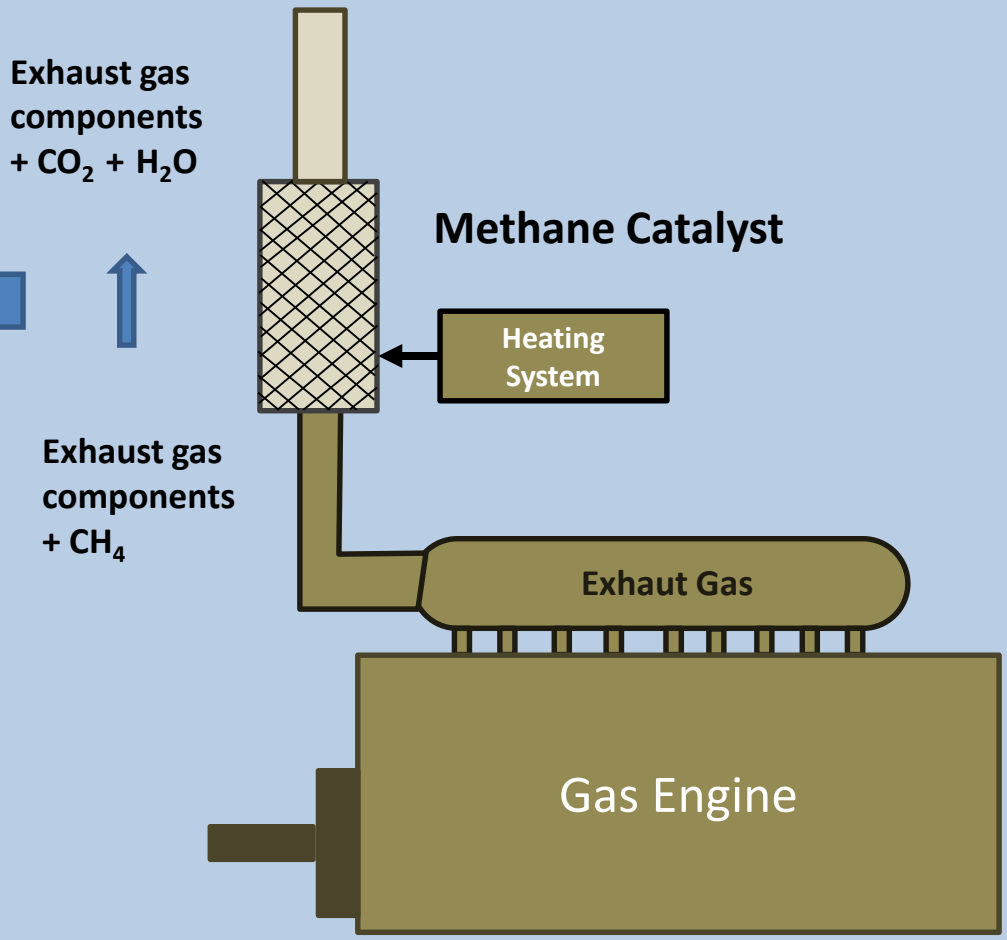
Methane Catalyst for LNG Engines – Part 2

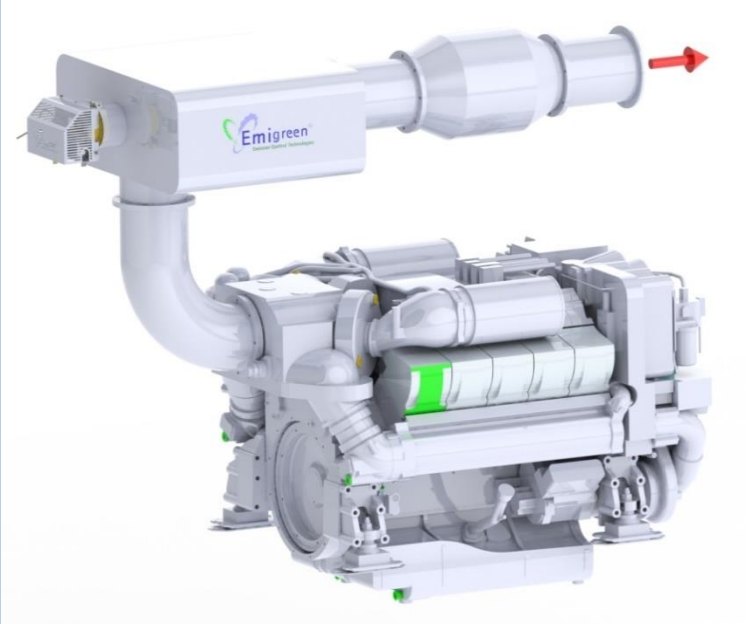
FB Seefahrt und Maritime Wissenschaften
Prof. Dipl.-Ing. Freerk Meyer

Methane Catalyst
Basic Principle

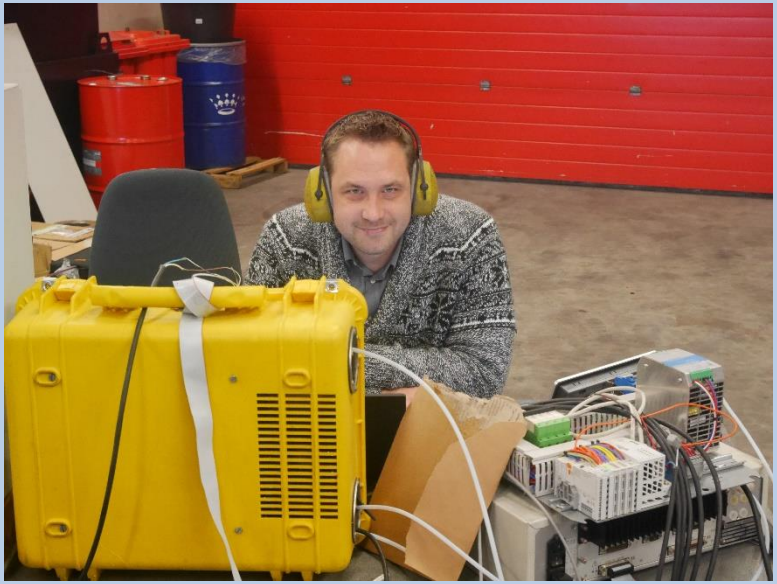


Paladium Surface inside the Catalyst





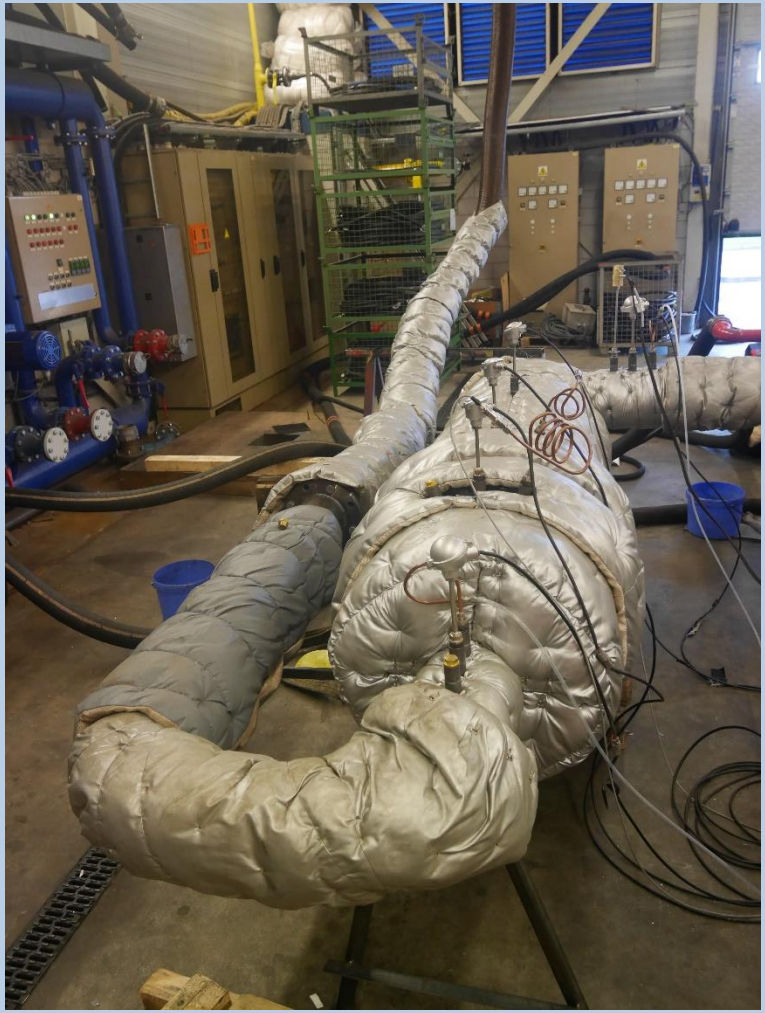
MariGreen
Maritime Innovations in Green Technologies



Sander Rosjens
with the methane catalyst
project part 1.

MariGreen
Maritime Innovations in Green Technologies

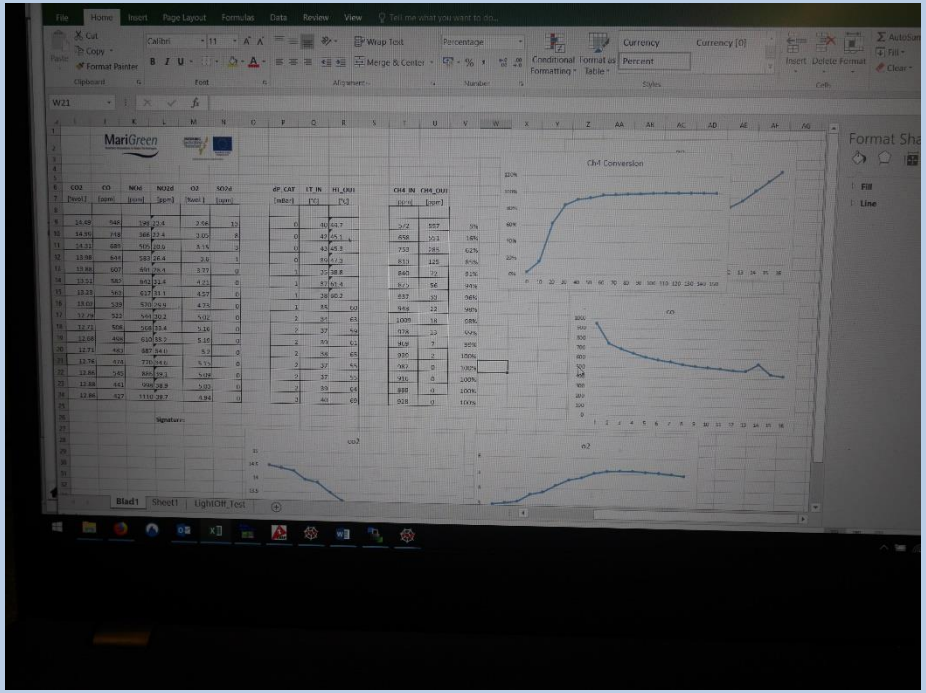
Test Rig (2018)



Three Catalysts with different Material Compositions

Catalyst housing with heating System

Test Rig in operation
Data collection and evaluation



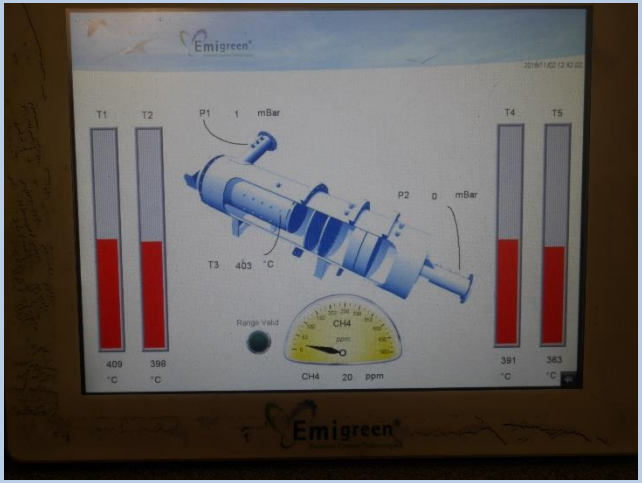
Next Steps – Project Part 2

Using the basic informations from the project part 1 to increase the engineering knowledge and the system performance:

- Catalyst material
- Catalyst design
- Catalyst long term performance => Exhaust gas content

Methane Catalyst ready for the Market (single fuel Engines)

Methane Catalyst also for Dual Fuel Engines



Exhaust gas funnel „Viking Grace“