

TASK 8.1: After-treatment methods

Objectives

- Development of practical and reliable methods for emissions monitoring in service.
- Extension of emissions measuring technologies for single-cylinder measurements.
- Further development of NTP (non-thermal plasma) and WS (wet scrubbing) technologies, including lab tests under real engine exhaust conditions.
- Application of the developed systems to marine diesel engines – lab engine tests.

Highlights

- NTP has been used to demonstrate NO_x reduction, at a laboratory scale, under conditions representative of the exhaust gas composition from a Wärtsilä test engine.
- Study of emission measurement equipment under on-board tilt and rolling conditions finished, further tests on WCH test bed.
- Parts of the on-board monitoring system were installed on board a vessel.
- The concept for measuring emissions after the individual cylinders of an engine has been developed on the basis of pre-tests and simulations.
- A pilot scale wet scrubber is manufactured at WFI and engine tests are about to start.

Partners:



I.P. HERCULES

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