



FutureGas WP3

May 2018

WORK IN WP3

Main activities in WP3

Work carried out in relation to WP3 includes:

- Journal papers
- Reports
- Presentations

Journal Papers

One paper has been submitted to a scientific journal and one more is on the way.

- **Prospects and challenges on the development of natural gas vehicle (NGV) as an alternative fuel vehicle: A review**
Submitted to "Energy Policy"
- *Dejene A. Hagos, Erik O Ahlgren*
Focus: The paper includes an extensive review of the use of natural gas in various kinds of vehicles, and of the policies that have been applied to promote this.
- **Well-to-wheel assessment of NGVs and their fuel supply infrastructure - Perspectives on Danish gas in transport.**
To be submitted for scientific journal publication
- *Dejene A. Hagos, Erik O. Ahlgren*
Focus: This paper presents a well-to-wheel assessment of natural gas vehicles based on a number of natural and bio gas pathways, which are selected based on conditions of the Danish energy and transport system.

Reports

- **A state-of-the art review on the development of CNG/LNG infrastructure and natural gas vehicles (NGVs)**
- *Dejene A. Hagos, Erik O Ahlgren*
Focus: A comprehensive report covering gas use in transport, different gas vehicles, engines, use in different countries, developments and policies.

- **Techno-economic assessment of NGVs and its fuel supply infrastructure - Perspectives on Danish gas in transport**
- *Dejene A. Hagos, Erik O. Ahlgren*
Focus: This report is presenting well-to-tank and tank-to-wheel assessment of energy, greenhouse gas and air pollutions emissions, cost and social cost of a number of selected gas for transport pathways defined based on Danish energy system conditions combined with gas vehicles in different transport segments (road and sea).

Presentations

- **"LNG/LRNG as alternative fuels in heavy duty transportation - a techno-economic assessment"**
Presentation by Dejene Hagos at the Future Gas November 16 2017 workshop in Copenhagen on *Fremtidens grønne transport til lands og vands – hvad driver fremtiden?*
- **"Economic performance evaluation of natural gas vehicles and their fuel infrastructures"**
Presentation by Dejene Hagos at the April 6-8 2018 International Conference on Advances on Clean Energy Research conference in Barcelona.

INFORMATION

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