





CIVITAS MOBILIS Debrecen



Operation of bio fuel and CNG vehicles and framework conditions for alternative fuel use in Debrecen

The proposed bio-fuel program of Debrecen represents the most evident efforts of the city to create a sustainable mobility system in a form of a wide integration of waste-management, district heating, electricity production and public transport.

Objectives / Innovative Aspects

After the positive results of the necessary studies a full-fleet-scale usage of bio fuels has been implemented in the non-electric part of the public transport system of Debrecen.

The Measure

Biogas operation in two terms:

- After positive study results a test mode
- If the test mode is successful a full scale implementation of biogas usage can be realized in the public transport

The necessary investments:

- · Biogas cleaning system
- Storage and supply system
- Conversion of 7 conventional diesel buses to CNG ones (target: fleet of 20 CNG buses) and operation in priority areas
- Acquisition and installing of CNG engine
- Acquisition and installing of CNG fuel tank
- Reinforcement of the vehicle chassis
- Necessary modifications of vehicle electronics
- Necessary test and state license procedure
- Analysis of framework conditions for local bio-diesel and bio-gas production and usage and implement recommendations
- Demonstration of bio-diesel and bio-gas usage in PT buses and road maintenance vehicle
- New CNG buses were also purchased
- Old diesel buses will be taken out of circulation

Implementation Status

- Cooperation with local experts
- Compilation of a study about CNG and biogas in public transport
- Bid for the consumables
- · Regular local meetings with academic staff
- Discussion with German firms in Budapest about required technological facilities
- Public procurement procedure has been finished
- Studies have been created for the efficient production of bio fuel.
- Hajdú Volán ZRt asked for stance to the Hungarian Tax and Custom Office about the legislative framework of using biogas and biodiesel in Hungary
- More than 10 buses converted to bio fuel operation
- The supplier has been selected

Results

The converted CNG will be used in the inner city center to contribute to the improvement of emission impacts

This fact sheet has been updated by a third party on the basis of available information (not by the city itself), therefore we do not guarantee any data with respect to their content, completeness or up-to-dateness.

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Measure completed

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