



Flow metering of renewable gases (biogas, biomethane, hydrogen, syngas and mixtures with natural gas)

Newsletter 2 Progress after Month 16 (M16)

Date: 06-11-2020

Dear stakeholder, firstly we hope that everyone is on good health as well as your relatives during this critical period.

This letter provides an update on the progress so far in the EMPIR project JRP 18NRM06 NEWGASMET.

The first deliverable D1, D2 and D3 of the NEWGASMET EMPIR project related to first technical Work package (WP1) Literature review on the effects of renewable gases on flow meters are finalised and published on the homepage.

The project has done a literature study to gather available knowledge on the performance of existing gas meters to their use with renewable gases which has been finalised in a report.

The report “D1 – Report on the impact of renewable gases, and mixtures with natural gas, on the accuracy, cost and life time of gas meters” is published on the project homepage Newgasmnet.eu.

Also the Deliverables “D2 - Report stating the acceptable range of gas compositions, which will be suitable for use with metrology gas meters and which support the new “renewable” framework” and “D3 - Report on the tests which need to be performed during calibration to enable the use of renewable gases with existing gas meters” are available on the homepage.

The main conclusions of the reports are that while a wide literature is available about the renewable gases right now, very little information on the impact such gases on metering is available currently. Though, these reports collect an interesting knowledge base on the different compositions and theoretical impact of the different types of renewable gases and it points out to some interesting preliminary results, that shall be the base for further validations.

Durability tests and expert groups

At the same time a group of experts has been formed to determine and evaluate the essential conformity requirements of the 2014/32/EU (MID) and review the appropriated EN standards. The work from these groups is in line with the time schedule based on regular meetings and contact have been made with CEN/TC237 to give inputs on the appropriated standards.

Testing the effects of renewable gases and durability effects of gas meters accuracy has been actualized and a test report will be available regarding gas tightness especially when using Hydrogen. When the testing for tightness has been finalised the meters from different manufactures will be installed and exposed to hydrogen for a period of 12 month.

In the same period meters from different manufactures are exposed for biogas and durability tested by installing in a sewerage treatment plant. An earlier newsletter can also be found on the Newgasmnet homepage under “news” regarding this topic.

Due to the Coved-19 pandemic this durability test has been postponed but it is now started up and running.

The consortia will organize the M18 meeting on 25th and 26th of November as the mi-term meeting of the project, where also all stakeholders are invited to participate and get information about the progress. Due to the difficulty to travel, this meeting will be organized remotely. We will give you more information in the coming weeks.

You can follow the project and get information on the website www.newgasmnet.eu and LinkedIn <https://www.linkedin.com/groups/13740173/>