



The Real-Life Emissions project has received funding from the European Union under grant agreement n° LIFE 20 PRE/FI/000006



Harmonizing reliable test procedures representing Real-LIFE air pollution from solid fuel heating appliances



SAVE THE DATE: OCTOBER 10th, 2024!

3rd INTERNATIONAL REAL-LIFE EMISSIONS WORKSHOP ON SMALL-SCALE COMBUSTION

The results of the project will be discussed in this final workshop to be held online on October 10th, 2024.

Results will also be presented in European Aerosol Conference (EAC) in Tampere, Finland on August 26-30, 2024. Emission measurements will also be demonstrated in Residential wood combustion simulator unit (SIMO) by the experts of the University of Eastern Finland during the EAC.

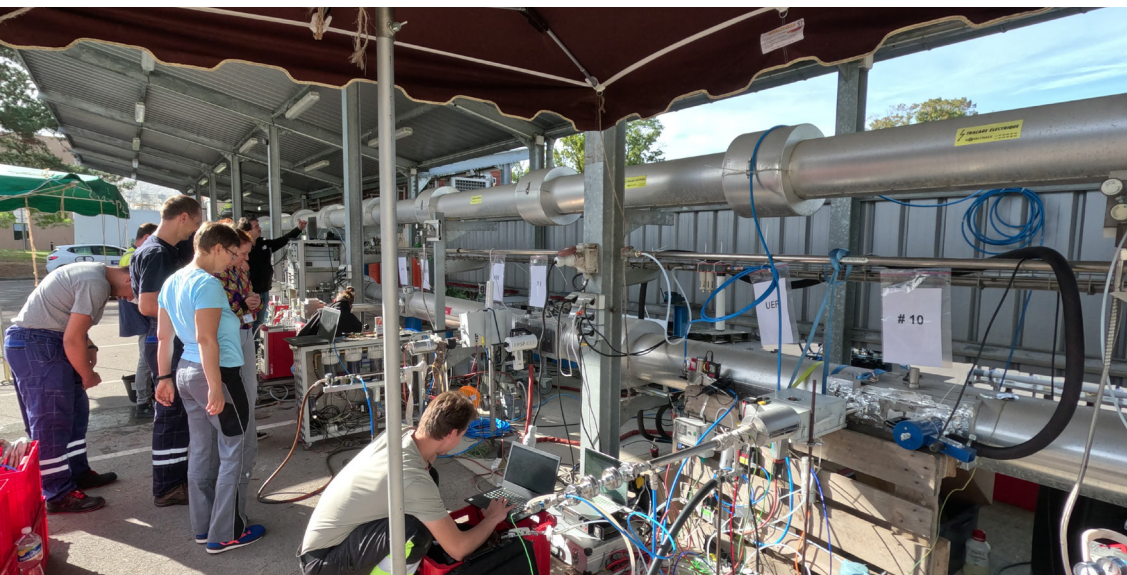
Following topics will be discussed in the final workshop:

- Suggestion for the short-term and long-term sampling and testing protocols
- Evaluation of the extended ENPME method by comparison between laboratories and with other methods
- Results of a round robin using the novel Real-LIFE test protocol
- Socio-economic and environmental impacts of the project
- Assessment of the project situation and after-LIFE plan

Last years of the project partners have been testing and comparing the novel extended ENPME method with other methods during the intercomparison campaign as well as the round robin campaign.

Intercomparison campaign was conducted in September 2023 at the INERIS laboratory in France.

- Comparison tests on the INERIS bench were performed with different emission levels.
- Four prototypes with partly different configuration were tested for the new extended ENPME method.
- Solid fraction results correlated well between partners.



- More deviation was seen in the results of condensable fraction
- Good agreement of OGC emissions between three labs using the FID technique.
- Determination of ENPME sond depositions is important.

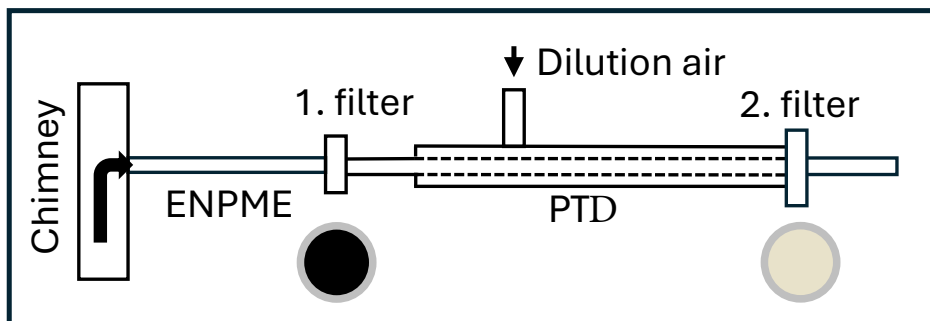


Figure 1. Extended ENPME method consists of an ENPME sond and a porous tube diluter (PTD). Solid and condensed particles are collected on successive filters.

Round robin campaign was conducted in 2023 where two wood log stoves were tested in four laboratories.

- **Novel real-LIFE test protocol** was used in all laboratories.
- Same beech wood as fuel was imported to all laboratories by the same institute.
- CO, OGC, NOX and TPM (EN-PME method, EN 16510:2022) emissions were measured and determined over in total of 8 batches including ignition and different heat outputs (nominal, partial and overload).
- Emission results were in good agreement for both stoves in each laboratory.
- Emissions at different combustion phases varied, highlighting the need for extensive measurements in type testing

Disclaimer: The contents are purely those of the beneficiaries of the REAL-LIFE EMISSIONS project and may not in any circumstances be regarded as stating an official position of the EUROPEAN COMMISSION.



STAY TUNED AND REGISTER TO OUR WORKSHOP!

You will find the programme of the workshop on our website. The programme and registration form can also be found by using this **QR code**. You can register also here: <https://link.webropol.com/s/RLIFE-WS3>

<https://sites.uef.fi/real-life-emissions>

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