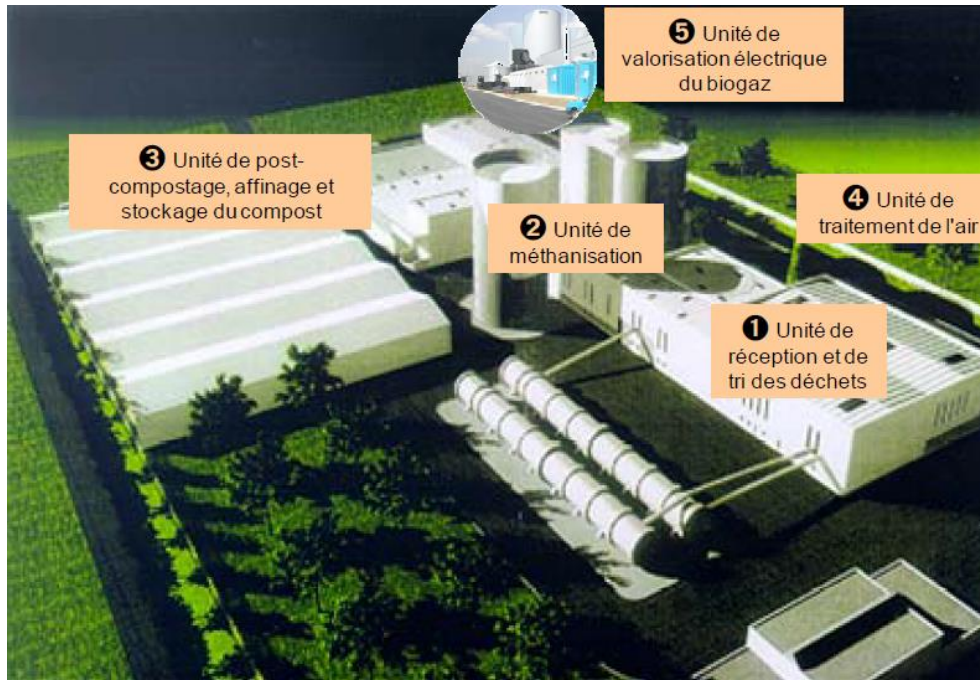


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Independent test report – Comparison of portable biogas analyzer in France



In April 2011 on behalf of French Department of the Environment (MEDDTL) were done some tests at the Institute INERIS, in order to test the quality of field devices to analyze hydrogen sulphide in damp biogas.

Several manufacturers of field devices were asked for the delivery of a test device. Unfortunately only two manufacturers were ready to take part in this comparative test (although INERIS fully paid the instruments). Binder supplied a standard biogas analyzer type COMBIMASS® GA-m ("Fabricant 2").

The measured data of both analyzer were compared with a highly precise IR-laser laboratory instrument („Fabricant 1“ using optical Feedback Cavity Enhanced Absorption Spectroscopy).

The tests were done under real conditions at a biogas plant site.

Gas composition during test was at approx. 55% CH₄, 45% CO₂, 200-300 ppm H₂S and low concentration of mercaptans. Gas temperature was ranging between 30 and 40°C, gas pressure at 160 mbar.

The results of the tests done at April 14th, 2011 are shown in next picture:

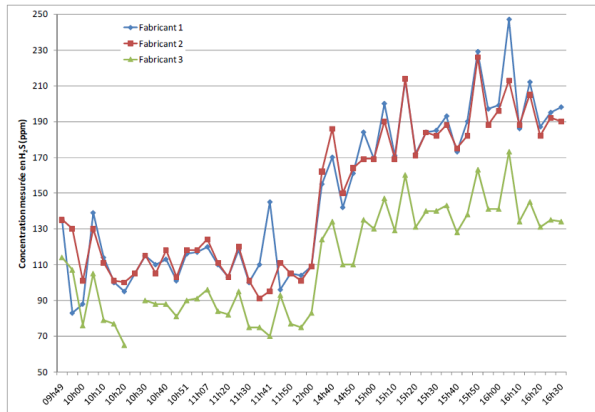
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Picture: Comparison of analyzer



The results show that the COMBIMASS® GA-m fits best to the very precise laboratory analyzer.

Full report in French language can be downloaded under:
<http://www.ineris.fr/fr/ressources/recherche/urbasys>

Photo: COMBIMASS® GA-m



Source: INERIS - Institut national de l'environnement industriel et des 2risques (www.ineris.fr)
EAT DRA-DRC 93 - Risques liés aux procédés de méthanisation de la biomasse et des déchets
Opération B : Evaluation des performances métrologiques d'appareils de mesure d'H2S dans le biogaz

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