

Gas Customizer

Creation of different alternative gaseous fuels : natural gas, biogas, hydrogen, hythane.



CRMT has designed and developped Gas Customizer to reproduce the composition of fossil natural gas, bio gas, hythane or any other alternative fuel gas, in order to test and adapt the engine in its actual conditions of use. The system allows for :

REPRODUCTION of a precise gas composition from an existant sample. In order to do this, a first chromatographic analysis must be done in-house.

CREATION of a precise gas composition based on customer's needs and desired characteristics.

How does it work?

3

Gas validation.

Example: verification of the quality of a mixture aiming to match the real biogas composition out of a methanizer.





Content variation control of each one of the 5 main gases that will compose the final mixture.

2 Mixing unit

C3H8 CO2 N2 H2 CH4

5 main gases

H2 Hydrogen

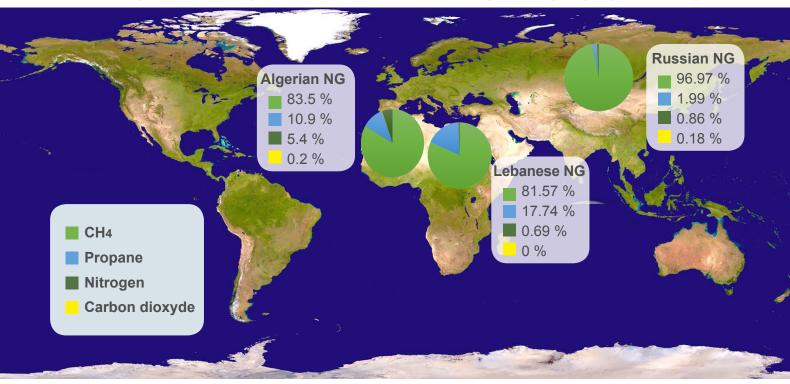
N2 Nitrogen

CO₂ Carbon dioxyde

C₃H₈ Propane

CH4 Methane

Natrual gas (NG) composition variation according to its geographical origin.





Optimum gas compositions

- depending on their geographical origin
- ✓ according to its treatment cycle
- out of a methanizer



Hythane creation

- Hydrogen 5%
- ✓ Hydrogen 10%
- ✓ Hydrogen 15%









Our 4 fields of expertise **www.crmt.fr**

