

Press release – Eybens / Paris, November 21, 2024

Fives and Waga Energy join forces to step up the energy transition using renewable natural gas

Fives, an international leader in industrial engineering, and Waga Energy, a global expert in the production of renewable natural gas (RNG) from landfills, have signed a partnership agreement to step up the deployment of WAGABOX® units.

A long-term partnership between two French experts

The agreement signed today strengthens the long-term cooperation between Waga Energy and Fives, enabling both partners to optimize the design and manufacture of WAGABOX® units. These units, developed and patented by Waga Energy and in which Fives' solutions are integrated, are used to upgrade landfill gas into network compliant renewable natural gas.

Fives, a technology leader in cryogenics, has been supporting Waga Energy since its creation in 2015. The technical excellence of the two industrial groups is being combined. Fives is the world's leading manufacturer of heat exchangers, one of the components of the cryogenic distillation module in WAGABOX® units. Its highly specialized teams are able to meet the requirements and specifics of each project, while assisting Waga Energy with the standardization of its equipment.

By upgrading landfill gas, a by-product of waste management, WAGABOX® units supply large volumes of competitively priced renewable gas to businesses and consumers, helping to decarbonize the energy mix.

This innovative technology, contributes doubly to the fight against global warming:

- by encouraging the capture of methane emitted by landfills;
- by reducing the use of fossil fuels.

International development

By joining forces with Fives, Waga Energy aims to step up its development in Europe and North America. The 28 WAGABOX® units, all equipped with Fives technology and operated by Waga Energy in France, Spain, Canada and the United States, have helped avoid the emission of 63,000 tons of CO₂ eq. during the first half of 2024, through the substitution of fossil-based natural gas.

"To meet the challenges posed by climate change, we need to bring together the world's best expertise. Fives, a technological leader in cryogenics for over 65 years, and Waga Energy, a specialist in the upgrade of renewable natural gas from landfill waste, are perfect examples of this synergy. We are delighted to be supporting them in this project, which will accelerate the energy transition", says **Vincent Pourailly**, President of Fives' Energy | Cryogenics Business Line.

"Since 2015, the Fives teams have been supporting us in the deployment of our WAGABOX® renewable natural gas production units. We are proud to bring this partnership to fruition, bringing together two French companies with an international outlook and a focus on climate issues," stated **Nicolas Paget**, co-founder and deputy CEO of Waga Energy.

The WAGABOX® technology

The WAGABOX® technology, developed and patented by Waga Energy, is unique in the international market and uses a cryogenic liquefaction process in which Fives' heat exchangers play an essential role.

To upgrade landfill gas into renewable natural gas (RNG), the methane has to be separated from the other components to a concentration of over 98%. The process is carried out in two stages: the landfill gas is first filtered using membranes to separate carbon dioxide, then distilled at cryogenic temperature to separate the methane from the nitrogen and oxygen. At the end of the treatment process, the result is a high-quality RNG compatible with network operators' injection criteria.

The WAGABOX® technology is protected by several global patents.

About Fives

Fives, your partner for a more efficient and virtuous industry

From the first railway lines to the Eiffel Tower lifts and factory 4.0, for over 200 years Fives has been designing the disruptive solutions and technologies that make up industry. As a pioneer of decarbonization and digitalization, Fives is always one innovation ahead thanks to its ability to anticipate customer needs. By responding to the specificities of each market locally, Fives combines economic and environmental performance in 24 countries thanks to its 9,000 employees.

A technological leader in cryogenics for over 65 years, Fives designs and manufactures heat exchangers, colds boxes, and cryogenic pumps for the world's largest players in industrial gases.

More information: www.fivesgroup.com

About Waga Energy

Waga Energy (EPA: WAGA) produces competitively priced Renewable Natural Gas (RNG, also known as "biomethane") by upgrading landfill gas using a patented purification technology called WAGABOX®. The RNG produced is injected directly into the gas distribution networks that supply individuals and businesses, providing a substitute for fossil natural gas.

Waga Energy operates 28 RNG production units in France, Spain, Canada and the USA, representing an installed capacity of more than 1 TWh per year (3,412,960 MMBtu). Each project initiated by Waga Energy contributes to the fight against global warming and helps the energy transition. Waga Energy employs 250 people. The 2023 consolidated revenue was 33.3m€. It is listed on Euronext Paris (FR0012532810 – EPA : WAGA).

www.waga-energy.com/en

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