

Paris, 19 April 2022

The SMITOM authority, Veolia and the startup Lisaqua have launched the feasibility study of the largest shrimp farm project using the recovered energy from an energy recovery unit in France

Winner of the Call for Expression of Interest launched in 2021 by the SMITOM authority¹ and Veolia, the startup Lisaqua has been selected for an ambitious project: to use the thermal energy generated by the household waste valorization process of the Monthyon energy recovery unit (ERU) in the Greater Paris region to set up the first large-scale shrimp farm in France.

In April 2021, the local waste treatment and recovery authority in the Greater Paris region (Seine-et-Marne) and Veolia, the benchmark company in ecological transformation, launched "VALO'PULSE", a Call for Expressions of Interest (CEI) aimed at agricultural or industrial project holders wishing to operate reliable, local and renewable sources of heat in order to limit the environmental impact of their activities.

This initiative, which makes it possible to identify, select and support projects that embody an ambitious strategy for the transformation of territories, is part of a virtuous circular economy approach that aims to create local, sustainable and virtuous energy synergies. This approach is also part of the commitment to ensure the industrial and territorial ecological transition of the Seine-et-Marne region, while promoting local employment.

Following a selection process involving several local players, Lisaqua, the VALO'PULSE winner, has been selected for a unique project that will study the feasibility of setting up the first shrimp farm to convert the heat from an energy recovery unit in France. Inspired by the "permaquaculture" approach Lisaqua has developed a low environmental impact aquaculture production system in land-based farms close to consumption areas. The company will produce the first fresh, local shrimp in France with a "triple zero" guarantee: zero antibiotics, zero kilometers traveled and zero polluting discharge.

The company is limiting its environmental impact by saving 99% of water and by treating and recovering shrimp effluents by breeding marine invertebrates for animal feed.

Lisaqua will rely on the recovery of waste heat from Veolia's ERU to maintain its farm's water at the right temperature without the use of fossil fuels to reduce its environmental impact. The construction of the heat exchanger and the shrimp farm is scheduled to begin in 2024.

"Our vision is to produce more efficiently, with fewer resources. The convictions that we hold at Lisaqua as well as the current context, encourage us to favor reliable and local sources of heat. Moreover, we are delighted to build this first farm project based on an industrial ecology model, in partnership with the very dynamic teams of the SMITOM and Veolia, who will be able to bring us their expertise and experience", testifies **Gabriel Boneu, Lisaqua's co-founder.**

"We are very pleased to welcome Lisaqua to our Monthyon site", says **Jean-François Léger, President of SMITOM du Nord Seine-et-Marne,** with enthusiasm. *"We will enable the winners of VALO'PULSE to benefit from the experience and contacts of the SMITOM for*

¹ intermunicipal association in charge of the treatment and recovery of household and similar waste

the achievement of the technical equipment: the search for additional financing, the administrative procedures, the inclusion in the biodiversity tour of the center... The project as presented has convinced us, as much by the passion and ambition of its designers as by the seriousness of their approach. We hope that it will be carried through to completion, in the interests of all the parties involved, but also in the interests of the region and with regards to its environmental and social impact."

Pascal Tissot, Regional Director for Waste Recycling and Recovery from Veolia Ile-de-France adds, "We are advising and supporting the SMITOM authority throughout the process of recovering the energy produced on the Monthyon site. As a company committed to ecological transformation, in particular by supporting territories in their environmental transition and the reuse of resources, we are committed to actively participating in the implementation of this unique project in France, by offering the winners with Veolia's expertise in order to guarantee its success."

About the SMITOM du Nord Seine-et-Marne:

SMITOM du Nord Seine-et-Marne is the inter-municipal authority in charge of the treatment and recovery of household waste from the 168 member municipalities in the north of the department. The territory has 330,447 inhabitants, as of January 1, 2022. Each inhabitant produces on average 554 kg of waste per year. The treatment of this household waste is ensured thanks to :

- *an integrated treatment center (C.I.T) located in Monthyon, consisting of an energy recovery unit, a platform for the summary sorting of bulky items, a composting platform and a transfer platform for selective collections;*
- *a network of 10 waste collection centres, including a temporary waste collection centre in Jouarre;*
- *5 transit stations.*

The SMITOM has entrusted the operation of the integrated treatment center and the transfer platforms to Somoval, a subsidiary of the Veolia group, via a public service concession contract. www.smitom-nord77.fr

About Veolia:

Veolia group aims to be the benchmark company for ecological transformation. With nearly 179,000 employees worldwide, the Group designs and provides game-changing solutions that are both useful and practical for water, waste and energy management. Through its three complementary business activities, Veolia helps to develop access to resources, preserve available resources, and replenish them. In 2021, the Veolia group provided 79 million inhabitants with drinking water and 61 million with sanitation, produced nearly 48 million megawatt hours and recovered 48 million tonnes of waste. Veolia Environnement (Paris Euronext: VIE) achieved consolidated revenue of 28,508 billion euros in 2021. www.veolia.com

About Lisaqua :

Lisaqua (Low-Impact & Sustainable Aquaculture) is a French company founded in Nantes in 2018 by Charlotte Schoelink (PhD in Marine Biology), Caroline Madoc (engineer from Mines de Paris) and Gabriel Boneu (entrepreneur from HEC Paris) that aims to develop a healthier and more sustainable aquaculture system. The deeptech start-up of 15 employees has developed a patented co-culture technology inspired by "permaquaculture", combining shrimp, micro-organisms and marine invertebrates in recirculated indoor aquaculture farms. This innovation allows the farming of shrimp without antibiotics, preserves mangroves and saves 99% of water compared to conventional shrimp farming. Shrimp effluents are treated and used for breeding marine invertebrates for animal feed.

Since 2019, Lisaqua has been marketing the first fresh, local, environmentally friendly shrimp in France, "triple zero" guaranteed (zero antibiotics, zero kilometers travelled, zero polluting discharge) from its experimental farm. The company will complete the construction of its pilot farm near Nantes at the beginning of 2022, and plans to deploy its model on a large scale by setting up a network of farms that recover and valorise the waste heat from agricultural or industrial facilities near major French and European cities, in order to offer as many people as possible an alternative to frozen imported shrimp from tropical countries (80,000t/year in France, 290,000t/year in Europe).

Lisaqua benefits from the support of the French Publics Investment Bank (Bpifrance), the European Maritime, Fisheries and Aquaculture Fund (EMFAF) and is backed by private investors such as regional fund Litto Invest fund and Le Gouessant agricultural cooperative.

<http://lisaqua.com>

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