



VERTPOM



Véritable énERgie du Territoire POSitif et Modulaire

RÉSEAUX ÉLECTRIQUES INTELLIGENTS

Context

In a changing territory, energy networks must be more responsive and flexible. Moving from control of energy to energy efficiency, creating new models of multi-fluid management and energy production is a regional, national and international necessity. The multi-fluid pilot site in Picardy is a successful experience. Focused on decentralized production sources including renewable energies, their multi-fluid management, the new energy consuming ways, the Positive Energy Territory project called VERTPOM answers today's needs and expectations.

ADEME FOLLOW THE PROJECT IN PURPOSE TO FUTURE INVEST PROGRAM NAMED ELECTRIC SMART GRIDS PROGRAM

Duration : 3 years

START : JUNE 2017

TOTAL AMOUNT : 8,51 M€

WHOSE SUBVENTION : 4,34 M€

Localisation : Péronne (80)

Coordinator



Goal

VERTPOM project's aim is to create wealth both environmentally and socially through the realization of VERTPOM BANK, the Energy Bank based on IA. The Hauts de France region with its wind farms in Picardy and its specialized laboratories at the University of Picardie Jules Verne, links these issues, and represents the right environment to become a POSITIVE ENERGY TERRITORY producing more Energy than it consumes. The "Energy Bank" software will be developed and deployed during VERTPOM project. This tool will offer a set of digital tools for management and decision support that will ensure the energy efficiency of the Territory.

Partners

Work in progress

VERTPOM® is the next step of multi-fluid pilot site experimentation lead with GAZELEC de Peronne including 400 interconnecting IBox; pilot site which is totally positive and conclusive. VERTPOM® solutions will applied in two complementary territories: Péronne then St-Quentin (Hauts de France). These new products and services will improve the quality of life there: Multi-fluid IBoxes (electricity, gas, water and heat), smart charging points for electric vehicles, network optimization with non-intrusive sensors (from predictable maintenance to the self-healing network), energy efficiency for buildings and public infrastructures combining energy control as well as energy efficiency and interactive services for consumers..



Péronne : Multifluid smartgrids

Local public infrastructure

Domestic



Péronne – Pilot site

Expectations

Innovation

Expected Innovations are :

- A global approach of Territory Energy : multi fluids, multi energies. Indeed, we consider that a territory with positive energy must be so in all its energies (produced and consumed).
- A software tool based on a simulator and Artificial Intelligence algorithms.

Economic and social

The main purpose is to package a global or “ turn key” solution to be exported to local network operators locally as well as National and International ones .

The immersion of technological solutions in the socio-cultural context of the territory by sociological studies throughout the project makes the actors involved in the energetic transition.

Environment

VERTPOM allows the introduction of renewable energies, the management of electrical vehicles, the smoothing of the load, the application of local and national programs of energy control, reduction of losses as well as the scenarios to reduce the consumption, in a context of optimal and intelligent management while reducing GHGs.



The energy bank VERTPOM-BANK® : The smart revolution of energy networks

Application and valuation

VERTPOM® solution look ahead to become a leader in energy solution system due to unique technologie who offers an multi-fluid and intelligent management in a large scale. This solution will be able to spread in others county and abroad (Europa, MENA). Each one takes care about reducing the energetic footprint and developping new activities.

VERTPOM® will be an international showroom establishing and including :

- College degrees, university degrees, professionnall trainings
- meetings gathering local and foreign authorities and decision makers in Energy Efficiency; the towns of Péronne and Saint-Quentin will be a powerful communication tool as well as local, national and international showrooms for the VERTPOM solution.
- A global offer in total fusion to social, technical and economical feasibility will allow efficient industrialization process for the solution.

Contact

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To know more

<http://www.ademe.fr/invest-avenir>

<http://www.vertpom.fr>