



## Crossbreed and VITO/EnergyVille sign letter of intent for cooperation on STORM District Energy Controller

Crossbreed and VITO/EnergyVille have formally expressed their intention to cooperate regarding the [STORM District Energy Controller](#) technology. Both parties will stipulate their best effort to work towards the signature of a license agreement for STORM District Energy Controller Peak Shaving Tech Transfer from VITO/EnergyVille to Crossbreed. The aim is to conclude this agreement in this first quarter of 2022.

Crossbreed, as solution provider, will use STORM as thermal demand side management technology in their energy management software Energy OS (<https://www.crossbreed.se/crossbreed-energy-os/>). Crossbreed will offer this solution in a first instance to district heating network operators on designated EU markets.

### STORM District Energy Controller

STORM District Energy Controller is a technology that optimizes operation and therefore improves the profitability and sustainability of district heating networks.

The STORM District Energy Controller is a well-established technology which builds on scientific research carried out by VITO/EnergyVille, conducted in the [Horizon 2020 project 'STORM – Self-organizing Thermal Operational Resource Management'](#). The project ran from March 2015 to March 2019. It tackled energy efficiency and energy flexibility at district level by developing an innovative district heating & cooling (DHC) network controller. It was tested and implemented in real life DHC networks in Mijwater BV in Heerlen (NL) and Rottne in Växjö (SE), demo cases in the H2020 STORM project. In each of the demo sites, a CO<sub>2</sub> emission reduction of approximately 11,000 tonnes / year or equivalent to the emissions of approximately 1,400 households was achieved.

The STORM District Energy Controller is a market-ready product, with future developments and new features on the horizon. Additional control features such as supply and return temperature optimization, are currently under development within the [Horizon 2020 TEMPO project](#). These new functionalities will open up new avenues for the optimization of district heating networks.

The STORM District Energy Controller is patented jointly by VITO/EnergyVille and NODA Intelligent Systems AB.

<https://stormcontroller.eu/en>

### About Crossbreed

Crossbreed creates innovative solutions to empower smart energy services. We provide a complete ecosystem of smart energy services, including a multitude of algorithms that work autonomously and in symbiosis, to bring tangible financial, environmental and operational improvements in networks, buildings and homes. We call it the Crossbreed Energy OS.

The company was founded in 2011 and is co-owned by the founders, EQP Capital Partners and the global IT consultancy firm Data Ductus AB. Crossbreed is located in Malmö, Sweden.

<https://www.crossbreed.se/about-crossbreed/>



## About VITO

A sustainable world: a dream for many, a tangible goal for VITO. Every day, VITO scientists are doing groundbreaking research into technological solutions to help companies and policy makers to answer the enormous challenges that we are faced with. Creative, innovative solutions arising from a unique systemic approach. That's how we open new horizons and create more impact.

VITO is a pacesetter in the transition to sustainability for companies and governments. We are here to advise them in their quest for workable solutions for the problems of today and tomorrow. We are walking new paths. For only resilient organizations that think ahead and out of the box will survive in the long term.

We are not alone on this journey. In today's connected world, VITO is playing its part in building bridges. Each day we're contributing to the cross pollination between companies, research institutes, governments and citizens. The opportunities are endless. We integrate knowledge from various domains, across country borders. In an organization that is international and multi-disciplinary and anticipates new challenges effortlessly.

That's how we create shared value for citizens, companies and society.

<https://vito.be/en>

## About EnergyVille

EnergyVille is a collaboration between the Belgian research partners KU Leuven, VITO, imec and UHasselt in the fields of sustainable energy and intelligent energy systems. EnergyVille develops technology and knowledge to support public and private stakeholders in the transition to an energy efficient, decarbonized and sustainable urban environment. The unique complementarity of the research partners allows us to integrate the energy system value chain in its entirety, ranging from materials and components to the level of entire energy systems, business models and strategies. Our activities are clustered in **eight interdisciplinary domains**: solar energy, battery storage, power electronics, power-to-molecules, thermal systems, electrical networks, energy for buildings and districts, energy strategies and markets.

With approximately **400 researchers** and **state-of-the-art research facilities**, EnergyVille is a top European innovation hub in the energy field. It bundles research, development and training under one roof and collaborates closely with local, regional, national and international partners from industry as well as public authorities.

As an **energy R&D innovation hub**, located in the industry-oriented ecosystem of [Thor Park](#) (Genk, Belgium), EnergyVille offers an attractive environment for energy research, industrial product development and business creation. The collaboration is supported by the city of Genk, the Province of Limburg, LRM, Nuhma, POM Limburg and the European structural funds.

<https://www.energyville.be/en>



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