Vétown™ | Enabling circularity

Green utilities made easy, feasible and affordable

Green Island Group.

Vétown - in short

Make community based green economies mushroom

Vétown is a concept for making smaller independent communities all over the world thrive and prosper in the green economy of the future.

It provides:

- **A plug'n'play solution for a circular utility infrastructure** for local communities to secure supply of renewable energy and resources and generate wealth to the community.

- **A digital platform** for engaging, organizing, and enabling community members in the planning, management and operation of the circular utility infrastructure and other community facilities.

- **An progressive financing model** that can gear the initial investment to finance new Vétown projects once the first is established and it starts generating revenue to repay the investment.

New opportunities with green tech

In total cost, new green technologies are cheaper than old »black« technologies - when integrated into smart utility systems with optimal reuse and utilization of energy and re-sources within a community.

- Can be established as decentralised stand alone systems whereby investments in expensive power transmission lines and long water and sewage pipes can be minimized.

- The Vétown concept was developed for a green field housing project in Denmark. But is was not feasible to implement here, due to capital already locked into old utility systems + organisational and regulatory constraints.

- It is easier and very feasible to implement at places where there is no existing or lack of sufficient utility infrastructure - like in many villages in development countries.

- The Vétown concept is based on a proven business case and proven technologies.

Making underserved communities take lead in the green transition

Instead of being an uncertainty, the urgent green transition can become an opportunity.

While communities in the developed parts of the world are stuck with large centralized infrastructure based on the linear thinking of yesterday, the Vé-town concept gives the underserved communities of today the chance to leapfrog forward to become the progressive circular communities of tomorrow.

Scope

Ideal size

approx. 20.000 people

The Vétown solution is designed to provide ecological resilience and economic independence for communities of approx. 20.000 people.

Scaling

Vétown × Vétown

The expansion of the Vétown concept will be by multiplication instead of upscaling.

This horizontal approach can enable the etablishment of many interconnected Vétowns in a region.

Potential

1.000 Vétowns globally

The aim is to have established 1.000 Vétowns globally over a decade from now and hereby have uplifted the lives of 20 million people.

Cost

Down to EUR 1.500 per person

The estimated cost for establishing one Vétown is EUR 30 mill. depending on local conditions – equal to EUR 1.500 per person.

Impact matrix

Objective	Challenge	Output	Outcome	SDG's addressed
O1 **Build resilient green societies worldwide** to uplift underserved communities.	**C1** Lack of access to basic facilities for upholding decent human life.	Circular infrastructure for waste management and energy and fertilizer supply.	Ecological resilient societies generating surplus of resources and energy = revenue for community.	**Directly:** 6 CLEAN WATER AND SANITATION; 7 AFFORDABLE AND CLEAN ENERGY; 12 RESPONSIBLE CONSUMPTION AND PRODUCTION; 13 CLIMATE ACTION **Indirectly:** 2 ZERO HUNGER; 3 GOOD HEALTH AND WELL-BEING; 14 LIFE BELOW WATER; 15 LIFE ON LAND
O2 **Provide platform for community participation** and human development & growth.	**C2** Lack of access to participate in economic life/ lack of livelihood opportunities.	Digital platform for local economy / ownership and management of infrastructure.	Strong independent local economies with citizen collaboration, engagement, and innovation.	**Directly:** 8 DECENT WORK AND ECONOMIC GROWTH; 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE; 11 SUSTAINABLE CITIES AND COMMUNITIES **Indirectly:** 4 QUALITY EDUCATION; 5 GENDER EQUALITY; 10 REDUCED INEQUALITIES
O3 **Execute progressive financial model** for gearing investment and maximizing impact of available development capital and investment capital.	**C3** Lack of access to development capital.	Progressive financing model – for repayment and reinvestment.	Multiplied investments and impact of initial and generated capital.	**Directly:** 1 NO POVERTY; 16 PEACE, JUSTICE AND STRONG INSTITUTIONS; 17 PARTNERSHIPS FOR THE GOALS Goal 17 – Partnerships is the vehicle.

Green Island Group and The Vé

Behind Vétown stands the Danish greentech corporation Green Island Group, who are incubating green solutions for communities around the world.

'Ve' is the old Norse notion for the community forum in traditional cultures where important decisions are taken in common.

In Green Island Group, we have adopted the Old Norse Vé notion as a token for creating self-governing sustainable communities of the future – because:

- We believe that truly sustainable solutions must be community based, owned and managed to be successful.
- We are convinced that real green transition can only happen from below, with every-one being engaged in creating a prosperous sustainable future for themselves and the community they live in
- We are based in Denmark, and as such rooted in a Nordic way of living and doing business with a high degree of equality and flat hierarchies.
- We stand on long cooperative business tradition and a collaborative work culture.
- We are part of the strong Danish green tech and Digi tech sectors and combine the best solutions from here with the best from the rest of the World.
- We have head office in Copenhagen – in BLOXHUB co-working space for green urban development and have satellite offices in several countries.

Vésolutions

At Green Island Group, We have made a digital replica of The Vé – a modern virtual forum for making community members meet to discuss, decide, and plan the vital developments in their community. We call it Véhub.

Likewise, we use »Vé« as a prefix to each of our other solutions. Vétown is combining all of these.

The ancient Vé phenomenon can be found in any traditional culture, whereby our modern Vé concept easily can be adapted to any location around the world and translated into the local language and tradition.

Vétown™

Green tech

Vécycle™

Biogas plant for conversion and recirculation of bio resources.

Véclimate™

Climate conditioning units for supplying heating and cooling.

Véwater™

Water purification plant for delivering and recirculating water for specific purposes.

Vépower™

Facilities for generating, storing, and supplying power from renewable sources.

Software

Véhub™

Digital platform for community creation and development.

Vésprint™

Digital project management tool for implementation of decisions.

Vélink™

Digital infrastructure for smart interactive operation of a utility infrastructure.

Vécoin™

Digital monetary system and supplementary currency for internal value flows in communities.

Circular utility infrastructure

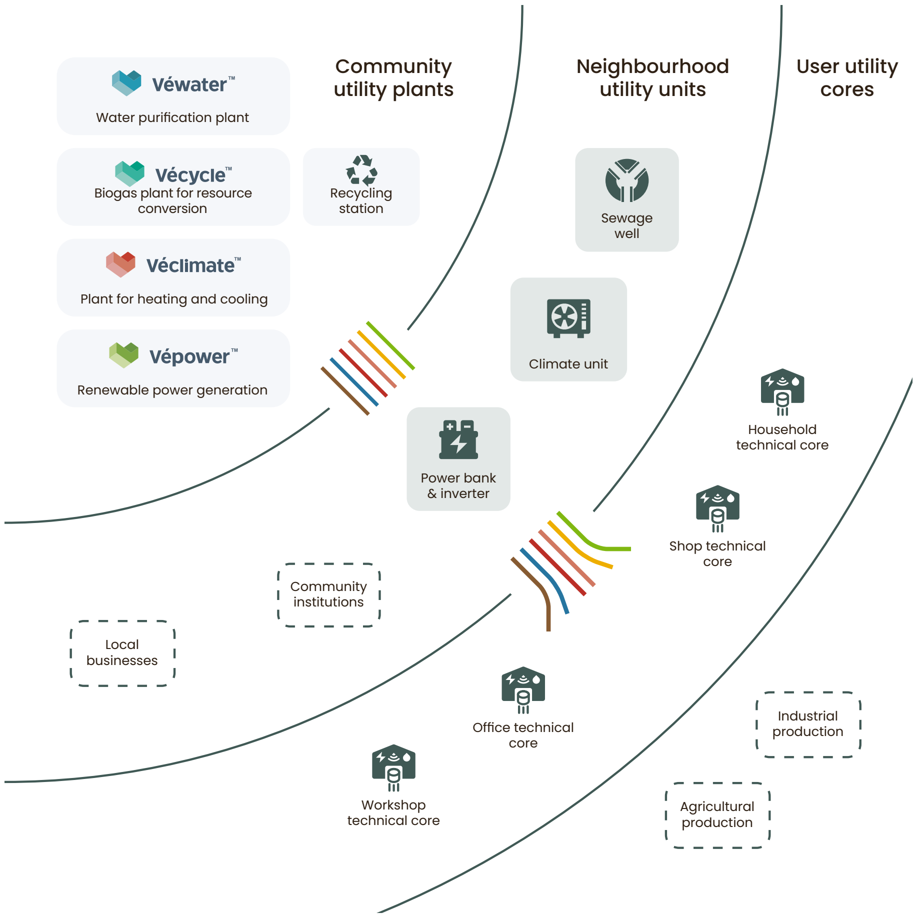
The circular utility infrastructure of Vétown lays the foundation for a well-functioning local economy

As illustrated it is structured in 3 levels of functions and facilities

The 3 levels are tightly connected in the overall supply grid, and the complete infrastructure is live monitored, operated and optimized by the Velink platform.

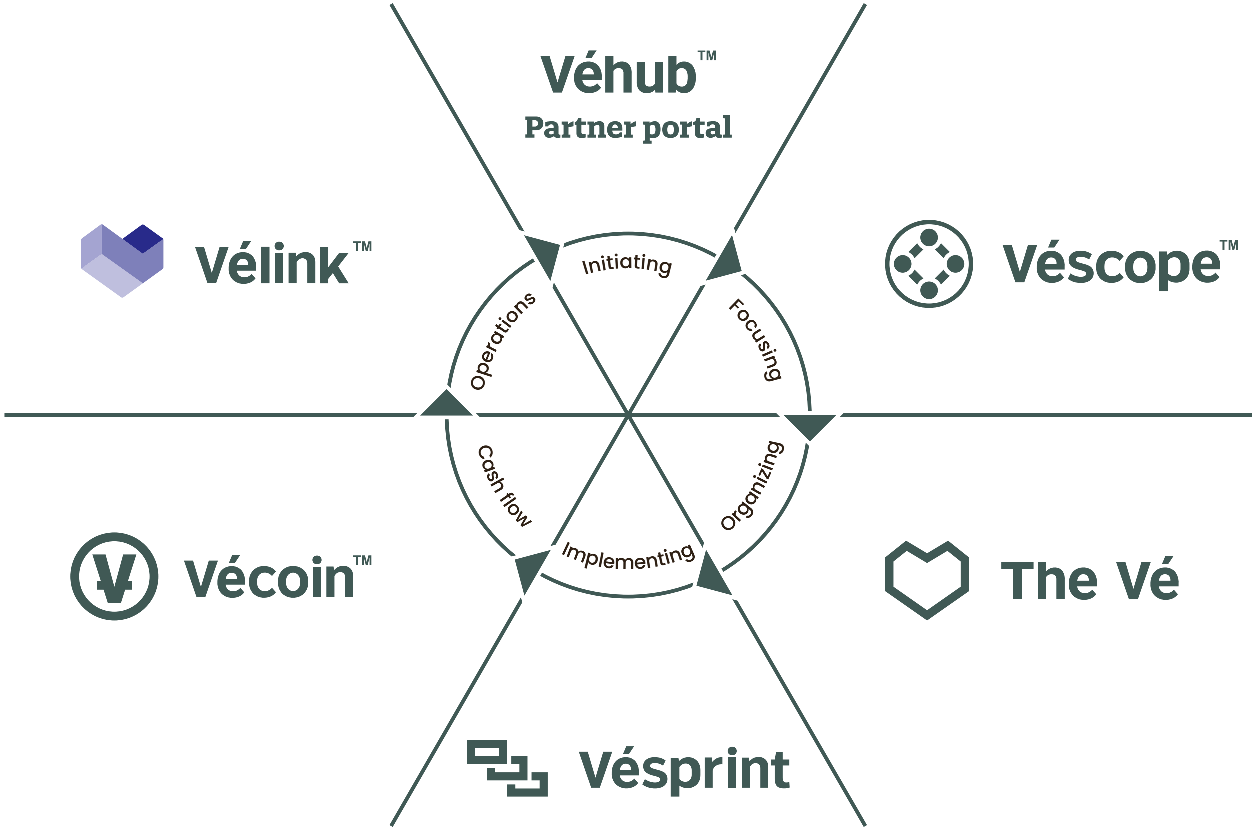
Apart from being hubs for the supply in each neighbourhood, the distributed utility units work as buffers in the grid, securing stability and resilience in the complete system.

Based on volume estimates and flow analyses this integrated circular system will work optimally for communities with approximately 20.000 inhabitants. If applied in larger communities, a Vétown will be set up in each district, instead of making one large.

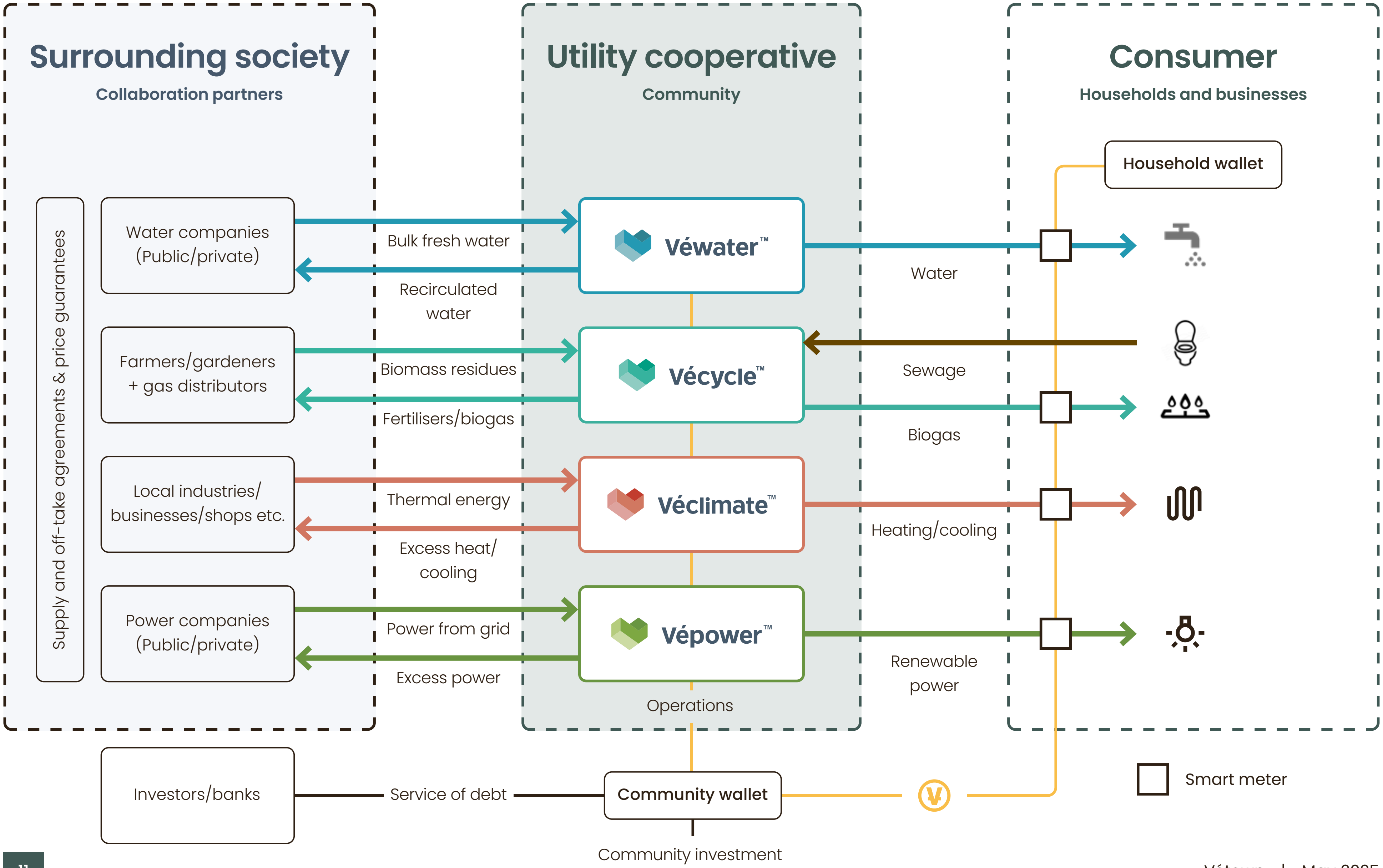


Digital tech suite

- A platform for gathering and organizing the community in owning and managing the circular utility system.
- A project management tool for implementing the Vétown concept.
- A supplementary digital monetary system for internal payment.
- A cloud-based IOT system for operating, monitoring, and optimizing the circular utility system.



Value flowchart



Project development

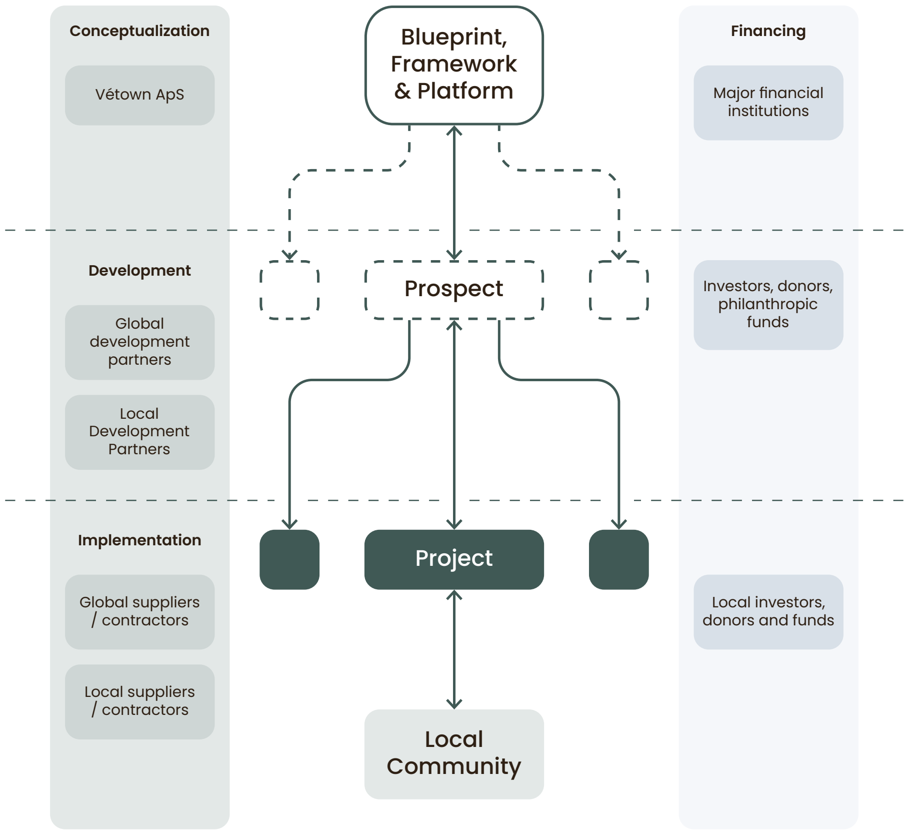
The Vétown initiative is formally organized as a corporate entity – Vétown ApS – as an affiliate to Green Island Group.

Vétown ApS will engage development partners for the development and implementation of the concrete Vétown projects.

The Vétown blueprint, frame and platform enables partners to:

- Develop prospects for various kinds of Vétown projects – eg. for particular regions and types of locations
- Point out potential sites for specific Vétown projects
- Plan and implement these projects in close collaboration with the local community and commissioned suppliers and contractors.

Parallel to the development process, the financing of Vétown projects is facilitated in partnership with various financial stakeholders.



Project organization

Projects will be organized after a »prosumer« model, whereby the ultimate owners and the governance are the consumers of the utility facilities.

Utility Cooperative

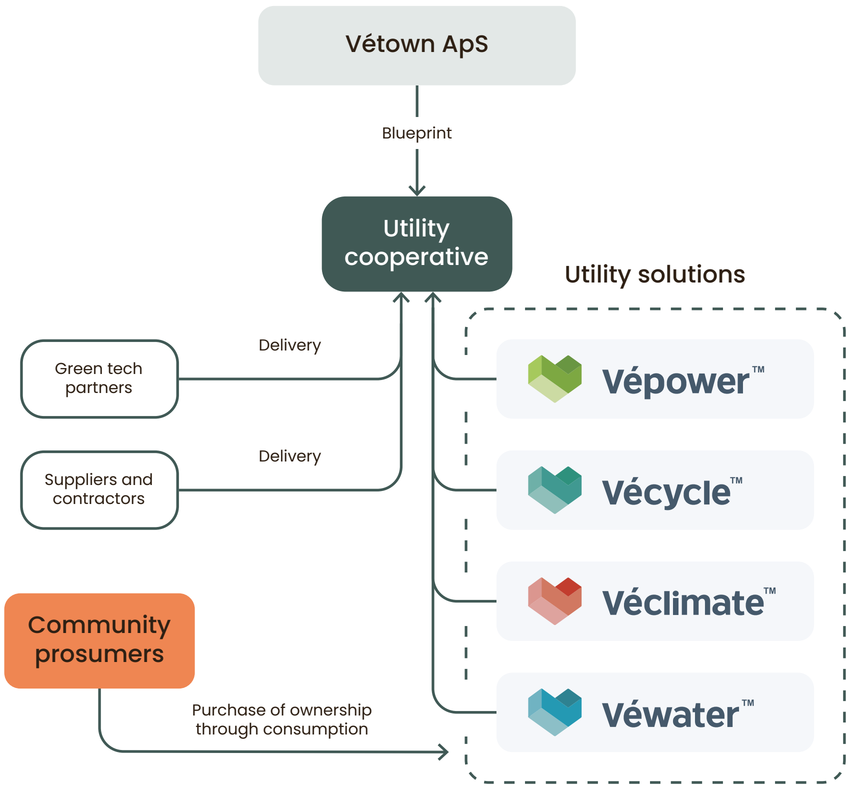
A legal entity should be formed for every project, that initially is owned by the project organization, but transferred to be owned and controlled by the individual utility solutions companies. This Utility Coop is the builder of the combined system. It will manage the initial investment, with necessary securitization awarded to the lender/investors in the project.

The Individual Utility Solutions

These legal entities will be formed as community members join the project, where each household will have to pay a hock-up fee (according to ability).

Vétown ApS

A blueprint for the project is generated by Vétown ApS using BIM, according to the needs from partners and local conditions. A tender will be issued, with emphasis on awarding as much as possible to local contractors and suppliers.



Furthermore, extensive knowledge transfer will be organized by Vétown ApS with local skilled and unskilled contractors, from start of project into the operational phase, until operations can be managed by locals with the assistance of the Véhub platform.

Three-stage evolution at new markets

Pioneering project as launching pad for multiple future projects

A new market is entered by establishing a pioneering project at a location where the Vétown concept can be show cased vividly.

This is done in close collaboration with local key stakeholders - eventually within the framework of a joint venture.

When the concept is demonstrated and investors and key stakeholders are convinced of its potential it can mushroom into multiple projects.

Several of the major institutional investors prefer to invest in mutiple projects at a time - for a large aggregate investment sum.

1 Preparation

Project development
EUR 0.5 million

2 Demonstration

Pioneer project
EUR 30 million investment

3 Expansion & multiplication

10+ projects
+ EUR 300 million investments

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more information at www.vetown.org

Green Island Group.