

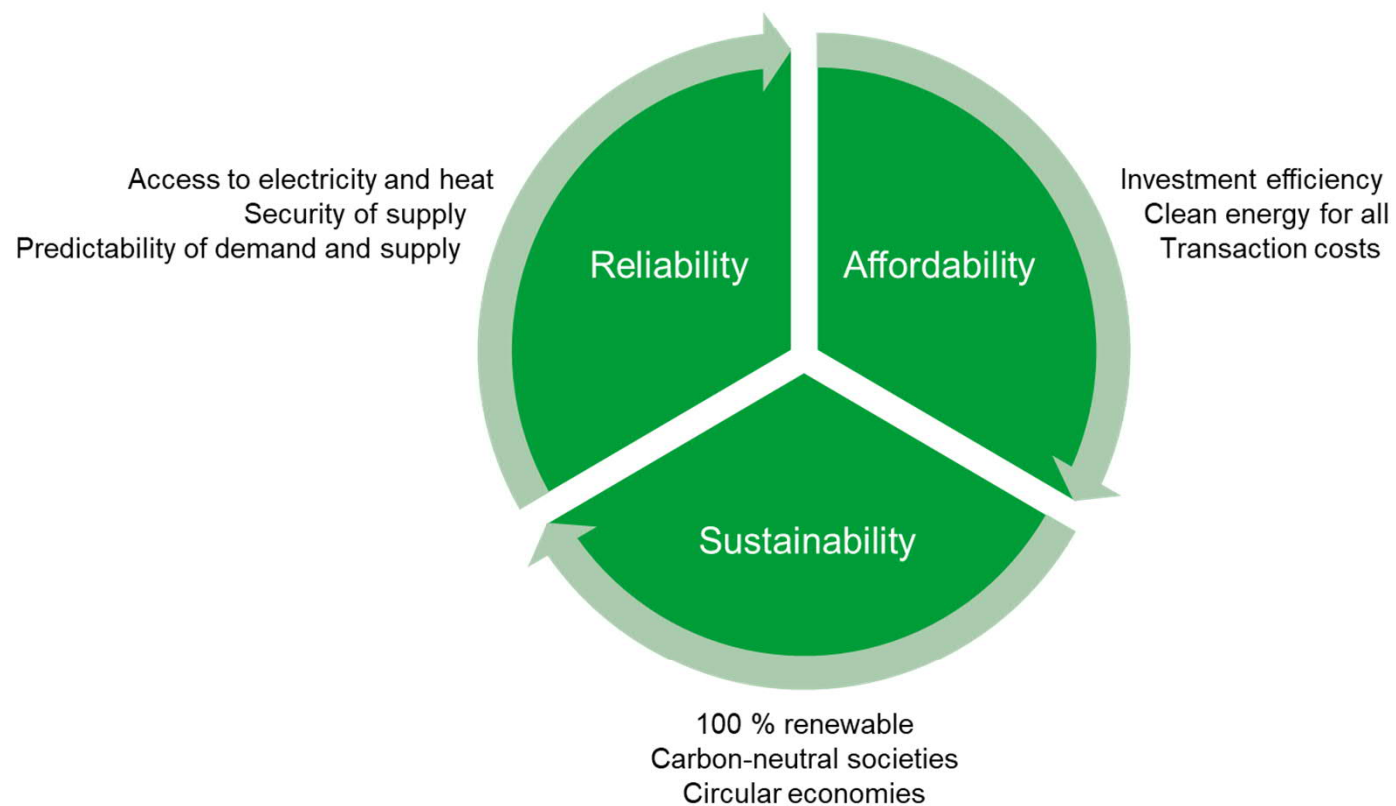


Smart Otoniemi

“There is no sustainable future and good life without smart energy solutions”

7 AFFORDABLE AND CLEAN ENERGY 	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 	11 SUSTAINABLE CITIES AND COMMUNITIES
12 RESPONSIBLE CONSUMPTION AND PRODUCTION 	13 CLIMATE ACTION 	17 PARTNERSHIPS FOR THE GOALS

Principles of smart energy



➤ **Need for systemic changes in different sectors – Energy in the core.**



Finland opens the doors for re-discovering energy



- Cold climate, dark seasons, long distances and energy-intensive industry set demands and ambition levels for clean energy system in Finland.
- Excellence in energy research, connectivity and IoT studies. 5G connectivity, artificial intelligence and IoT applications are already used in Finland's energy systems.
- More sandboxes and playgrounds needed where energy utilities, ICT sector, building and transportation operators and service providers can co-create and test new services together with the citizens.
- Possibilities to test new business models and services in real circumstances.



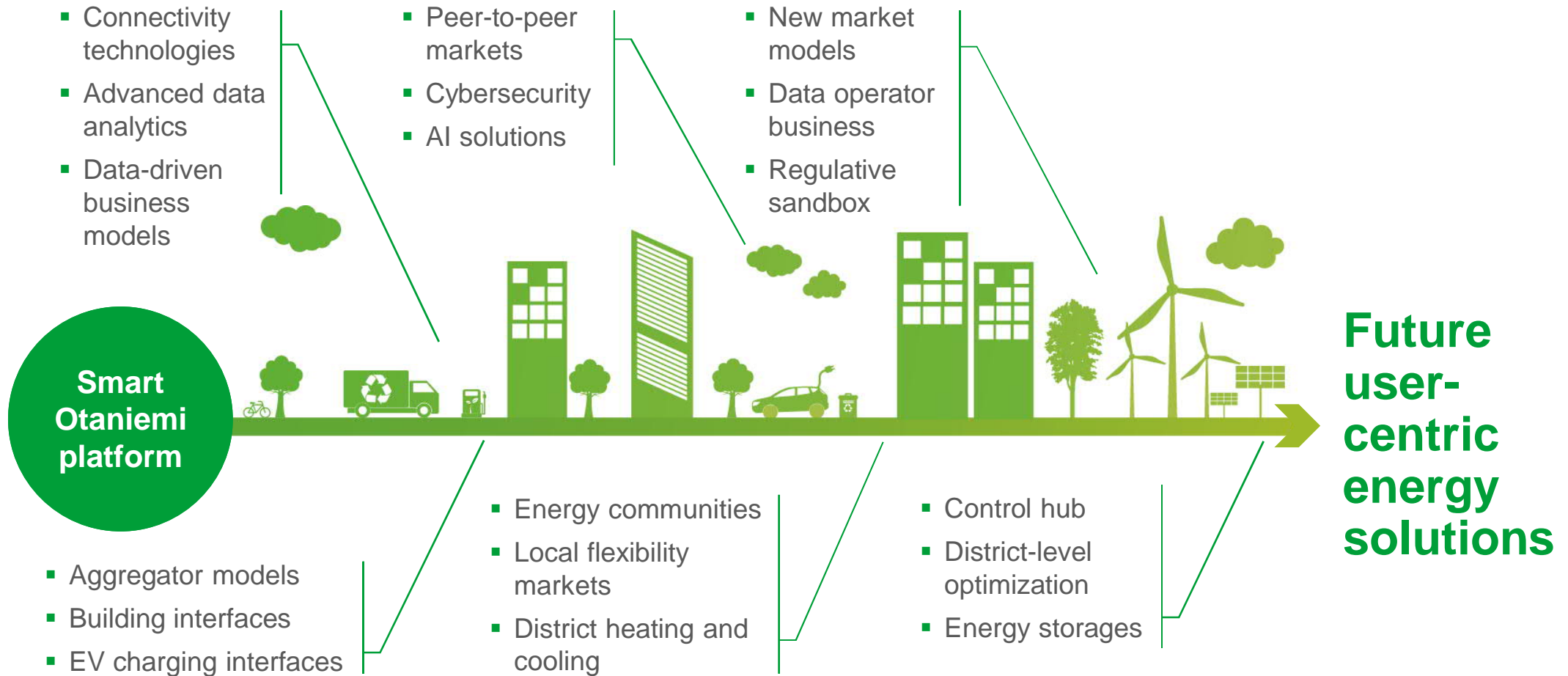
No one-size-fit-all solutions in energy transition



- Energy challenge is global - solutions need to be implemented locally with unique regional features.
- Smart Otaniemi is not based on specific technology, energy source or solution.
- Smart Otaniemi aims to solve systemic challenge - the biggest question of smart energy.
- The working method is bringing together experts, companies, investors and public sector to pilot novel solutions.

Focus areas and pilots – Turning ideas into action.

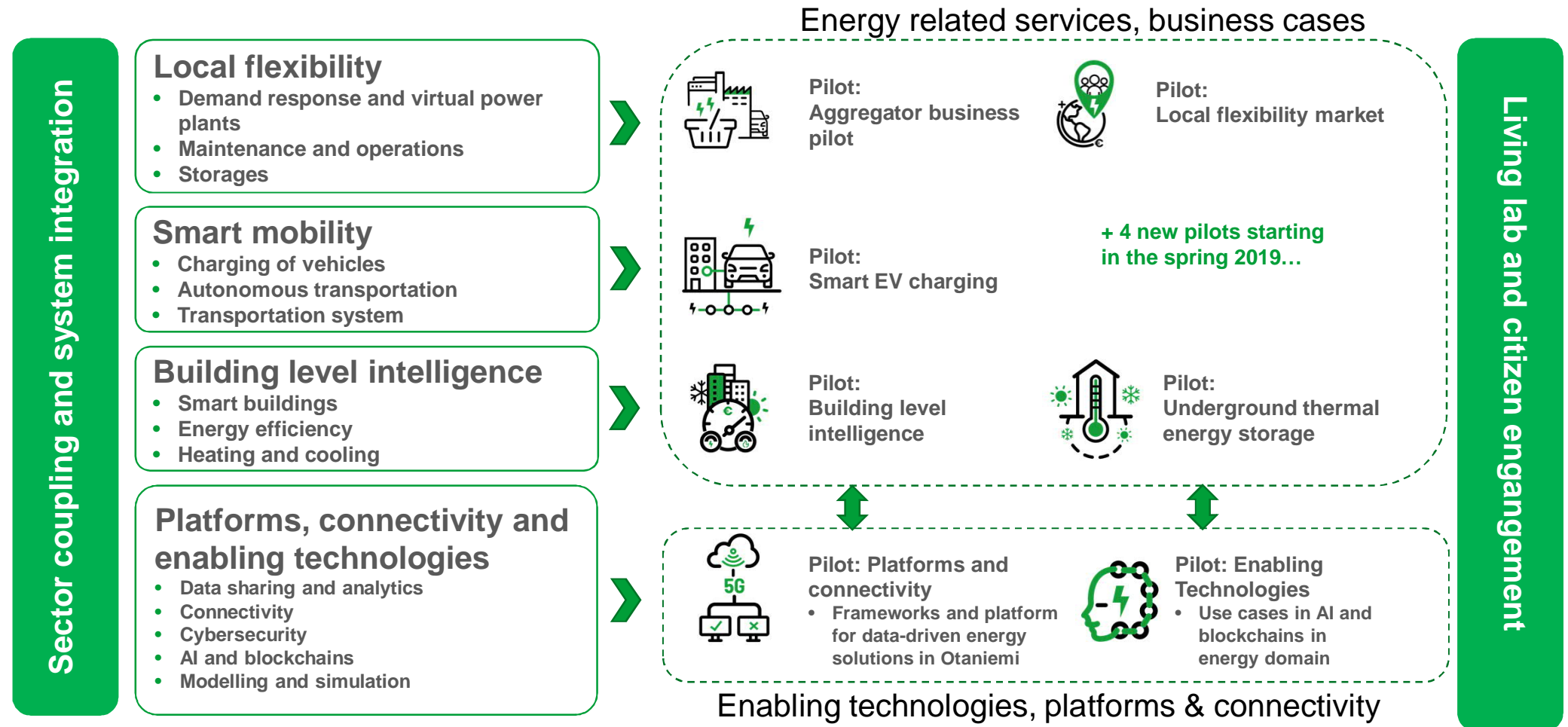
Smart Otaniemi vision and roadmap



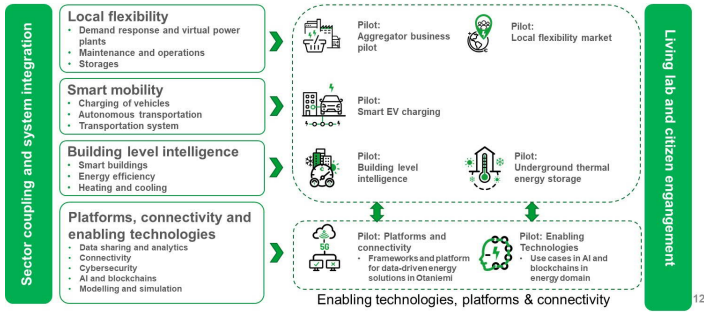
How to build sustainable, reliable and affordable smart energy system in local context?



Focus areas of Smart Otaniemi



Road map of virtual hub for global testbeds for smart energy



- 1**
- Build the platform
 - Run the first pilots
 - Share data
 - Design the testbed
 - Create a local roadmap

EnergyVaasa

- 2**
- Partnering testbeds in Finland
 - Share data
 - Exchange pilots
 - Grow the partner network
 - Specialise your testbed



Smart Energy Åland

- 4**
- Share the networks
 - Co-create pilots
 - Build research alliances
 - Exchange ideas and innovations



- 3**
- Choose your strategic global partners
 - Build a vision and roadmap with partnering global testbed

- 5**
- Create virtual hub for global testbeds for smart systems
 - Share the networks
 - Build research alliances

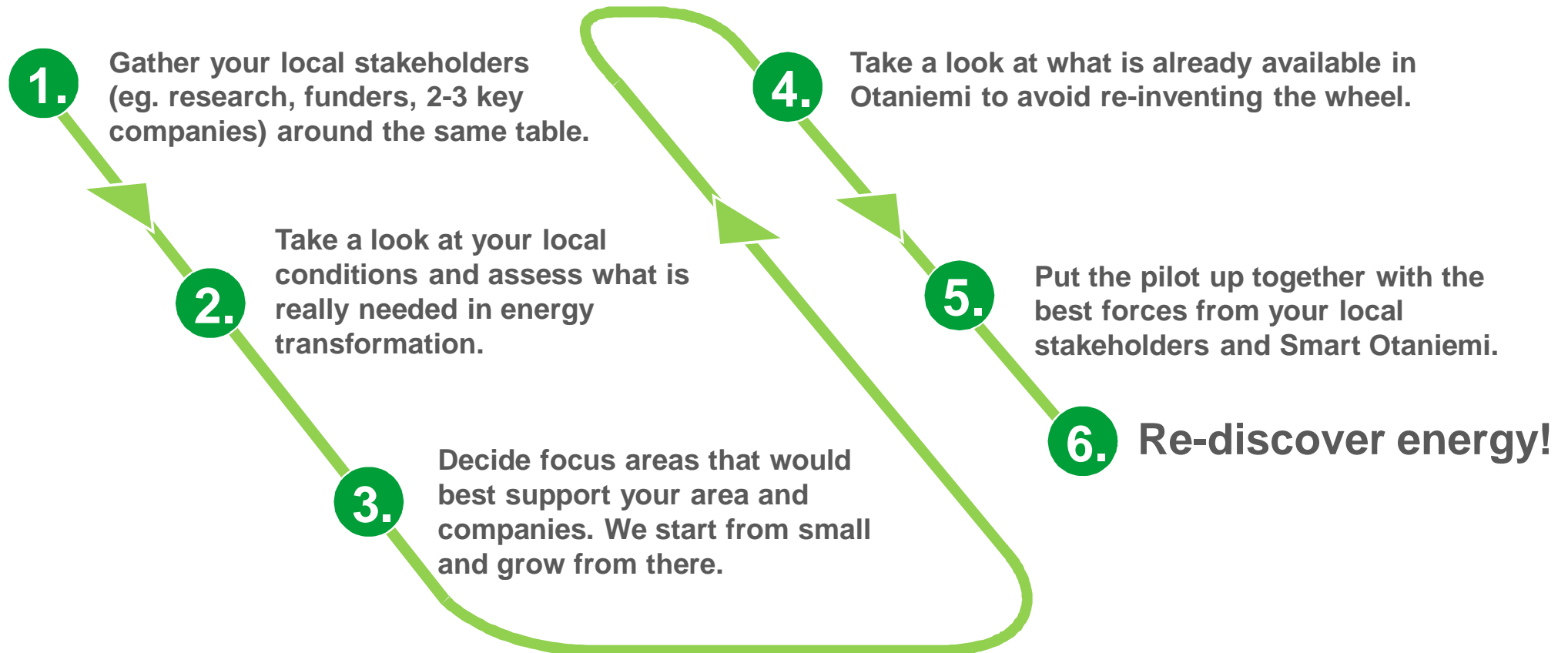


Smart Otaniemi.
Learning environment for smart systems.
Smart cities and energy solutions in core.

Smart Otaniemi – How to join in?



Smart Otoniemi – How to build a pilot?



Contact information



Visit Smart Otaniemi webpage: www.smartotaniemi.fi

Order a newsletter: <https://subscription.smartotaniemi.fi/>

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Follow the discussion: #smartotaniemi

Business Finland's Smart Energy Program:

<https://www.businessfinland.fi/en/for-finnish-customers/services/build-your-network/bioeconomy-and-cleantech/smart-energy/>

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