

#### LIFE EconomisE

Value for money: unlocking the investment potential for resilient low-carbon Finnish building block

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#### Overview

- Facts
- Goal of the work
- Why EconomisE?
- The EconomisE Platform
- Cooperation with institutional investors and real estate owners
- Empowering cities and municipalities
- Insights





#### Facts

- Funded by the EU LIFE Climate Governance and Information programme
- Partners: Coordinating beneficiary WWF Finland, associated beneficiaries the Finnish Environment Institute (SYKE) and SYKLI Environmental School of Finland





#### Goal of the work

We aim at reducing emissions by cooperating with municipalities and owners of larger real estate portfolios to catalyse investments supporting a low carbon and resilient economy.

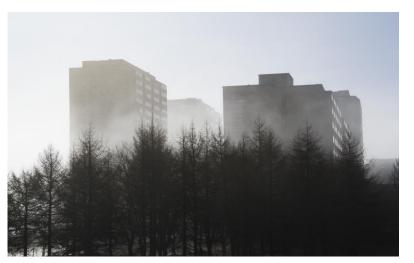
- 1. The EconomisE platform for innovation and business development
- 2. Cooperation with **institutional investors and real estate owners** in order to encourage them to align their portfolios with the Paris Agreement goals
- 3. Support decision-makers and civil servants in **cities and municipalities** to make informed decisions concerning building stock



#### Why EconomisE?

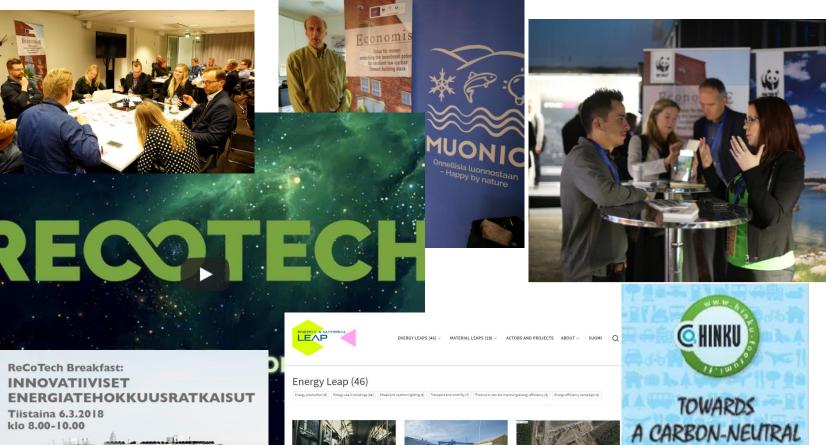
- Buildings have an enormous role to play in the attempts to slash emissions;
  - In Finland 32% energy and 30% of CO2 emissions
- Buildings that are in place today will form ~70 % of the building stock in 2050
- Municipalities and institutional investors are among the largest owners of building stock in Finland

The potential of profitable energy efficiency investments is not yet realised, it must be unlocked!





EconomisE



### The EconomisE platform



Commute transportation experiment, li



Heating of the Jakkukylä school from oil to air-water heat pump, Ii



**MUNICIPALITY!** 





Intelligent lighting of the Micropolis corridor, Ii

Tilaa elämälle



Ventilation Renovation of Lakso kindergarten, Ii



Energy tracking and savings in schools and kindergartens by 50-50 Methods, Ii



#### The EconomisE platform

The EconomisE platform targets institutional investors, owners of larger real estate portfolios, municipalities & companies offering innovative solutions

The platform consists of three levels of collaboration

- One-to-one meetings
- Matchmaking and innovation events
- The online platform <u>www.energialoikka.fi</u>



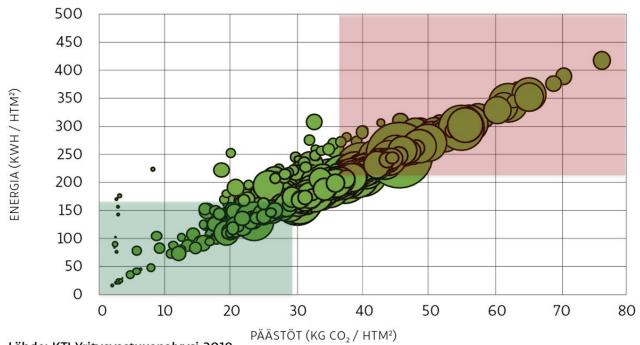
#### One-to-one meetings

- Meetings with institutional investors, real estate owners & managers, innovation hubs, cleantech businesses, etc.
- Focus on financial benefits and technological opportunities
- Cooperation established with many key players;
  - The Finnish Association of Property Owners and Construction Clients
  - Green Building Council
  - KTI Property Information Ltd



#### What is a 1.5C aligned real estate portfolio?

CO<sub>2</sub> emissions and energy consumption in residential buildings



Lähde: KTI Yritysvastuuanalyysi 2019

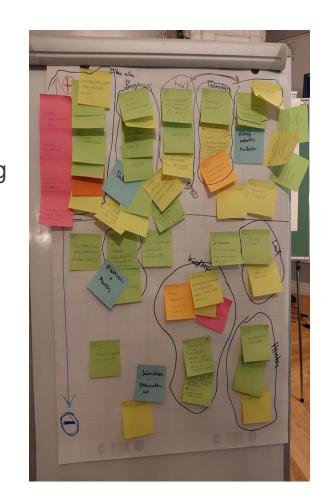


#### Innovation & matchmaking events

The project has organised / participated in various types of events;

- Speed-meets at Slush 2018
- Slush / ReCoTech 2019 project stand + meetings with companies offering EE solutions
- ReCoTech breakfast 2018 "Innovative energy efficiency solutions"
- "Energy Efficiency in Finnish municipalities" workshop 2018
- WWF Green Office innovation event 2018
- Workshop "Towards emission reductions in real estate" with The Finnish Association of Property Owners and Construction Clients 2019
- "The Energy Genius" competition 2019

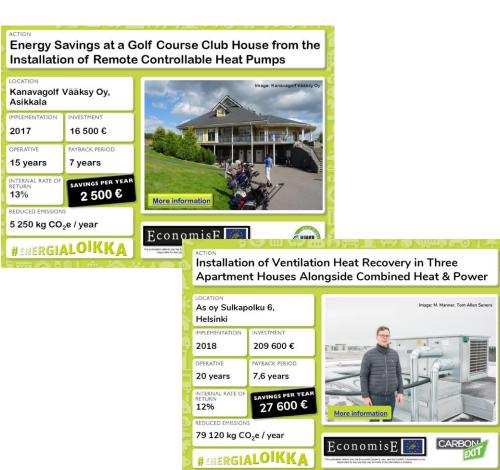
➤ Goal: To support innovation, scalable multi-stakeholder experiments projects, development of business concepts, connect actors on the real estate sector





#### Energialoikka.fi for sharing information

- Aims to encourage and inspire by sharing experiences about more efficient energy and material technologies and practices.
- Good solutions are introduced to be replicated in other locations all over Finland.
- Printable "Solution cards" with facts about the implemented solutions
  - Dissemination tool
  - Used to support decision-making
  - Simple way of presenting costs, paypack period, etc.







# Cooperation with institutional investors and real estate owners



#### Investor dialogue – setting the scene

- Two Science-based Portfolio Alignment roundtable events held in 2017-2018
  - Gathered the representatives of the main institutional investors in Finland.
  - Some of the recommendations of the Task Force on Climate-related Financial Disclosures (June 2017) and the High-Level Expert Group final report (January 2018) were presented and discussed.



EU HIGH-LEVEL EXPERT GROUP ON SUSTAINABLE FINANCE



Final Report 2018
by the High-Level Expert Group on Sustainable Finance
Secretariat provided by the European Commission



#### Rating investment portfolios

- Development of WWF Energy Efficiency Score Card
  - Measured commitments, plans and actions on energy efficiency of buildings of institutional investors based in Finland.
  - Cooperation started with KTI Property Information Ltd
    - Access to detailed data reported by real estate owners
    - Cooperation with yearly barometer on responsibility in real estate WWF questions included in the 2020 barometer
  - ➤ Target 75% investors are more aligned with the Paris Agreement goals by the end of the project

- Leading the way
- Well on the path
- Started the journey
- Not yet in the starting blocks
- Non-respondents





#### Case: Varma Pension Insurance Fund

Goal: Emission reduction of 48% of the whole residential building stock owned by Varma by 2023.

- Energy efficiency renovation programme for 36 buildings; solar panels, heat pumps, ventilation heat recovery and changing from district heating to geothermal heating.
- Investments are made based on profitability.
- Completed together with the company LeaseGreen

(Note: This positive development took place in the Economise focus group but the project cannot claim direct influence on this development)



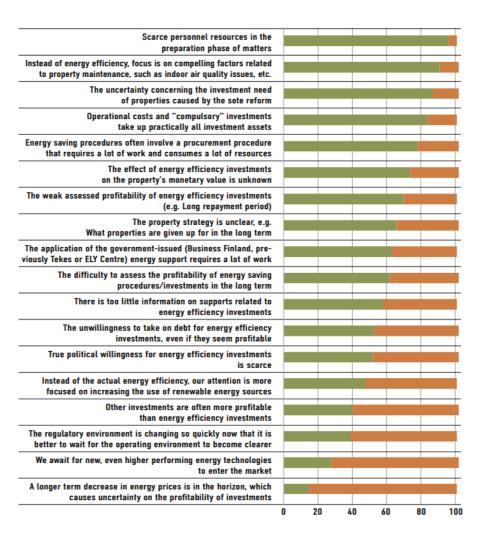


## Empowering cities & municipalities

Photo: © Timo Newton-Syms, CC BY-SA 2.0, Flickr



#### Why slow progress?



- A survey carried out by SYKLI in cooperation with the Association of Finnish Local and Regional Authorities.
- Main obstacles for energy efficient investments include:
  - · Insufficient personnel resources,
  - Difficult operating environment with its multiple simultaneous challenges,
  - Insufficient information on the profitability of investments and the effect on property value as well as the lack of a premises strategy,
  - Lack of information and the uncertainty caused by rapid changes



#### Training for municipalities

- Two training packages;
  - Decision-makers
    - Focus on basics of EE in buildings
    - Target setting & planning
    - Investments & prioritisation, funding opportunities, procurement
    - Good examples
  - Technical staff
    - A more technical, detailed focus
    - Feasibility calculations
    - Use & maintenance of buildings
    - Indoor air quality ....
  - Direct contact to municipalities; letter e-mail phone calls
  - ➤ By now 17 municipalities & 106 persons trained





https://wwf.fi/app/uploads/q/q/n/2njlfqo5p3xdvntszs1pu/guid e-for-energy-efficient-investments en.pdf



#### Catalysing energy investments in municipalities

- Focus on improving energy efficiency in the network of Carbon Neutral Municipalities (Hinku) and Finnish Sustainable Communities (FISU)
- Free energy audits real estate portfolio review & in-depth focus on chosen building(s)
- A technical approach has been expanded to include advice on the financial side
  - Feasibility calculations
  - Assistance in tendering
  - Assistance in participating joint procurements
  - Information on financing opportunities, as well as subsidies





#### Realised energy investments

- The work has resulted in 110 investments, in the value of € 2M.
- New government subsidies on energy efficiency measures



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#### Insights

- Impact & influencing via already established actors & networks
  - Finland is small and the real estate sector well organised
  - Efficiency from establishing partnerships
  - HINKU & FISU networks of municipalities
  - "The Energy Leap" –website
- Responsibility issues are often linked
  - Climate resilience and energy efficiency of buildings but also the other related strategies
- Long-term impact via new ideas and further developing existing tools
  - KTI Property Information "climate tool" & corporate responsibility barometer





#### Thank you!



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