

Renovation site

Borupinraitti 4, Lahti

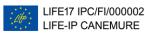


Renovation measure

Intelligent heating control system







Basic information

Building type Residential apartment building

Number of residential apartments

94

Year of construction

1999

Contractor/supplier

Schneider Electric Finland Oy

Renovation time

The end of 2023

Measures implemented with project funding

Intelligent heating control system and resident feedback system

Initial situation

Calculatory emissions tCO₂/year **226.7**

Energy consumption, heating MWh/year

885,5

Energy consumption, electricity MWh/year

424,4

Energy efficiency class

Impact

Calculatory emission reduction tCO₂/year **13.4**

Calculatory change in energy consumption, heating MWh/year

- 67,4

Calculatory change in energy consumption, electricity MWh/year

0

Energy efficiency class after **D**

Realized emission reduction 09/2023-08/2024

12,1 tCO₂/year

Costs

Project measures

Contract and equipment costs

25 000 €

Change in calculatory energy costs per year

- 3 689 €

Change in realized energy costs per year

- 8 086 €

Calculatory emission reduction costs

1 865 €/tCO₂

Realized emission reduction costs

2 059 €/tCO₂

Calculatory payback period **6,8 years**

An innovative procurement was tendered to get a solution to reduce carbon dioxide emissions. In the chosen heating control solution, a new way was developed to take into account the feedback given by the residents through the mobile user interface.

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