

# Lahti

Renovation site

## Borupinraitti 4, Lahti

**Renovation measure**

Intelligent heating control system



LAHDENTALOT



## 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 tCO<sub>2</sub>/year

**226,7**

Energy consumption, heating MWh/year

**885,5**

Energy consumption, electricity MWh/year

**424,4**

Energy efficiency class

**D**

## Impact

Calculatory emission reduction tCO<sub>2</sub>/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 tCO<sub>2</sub>/year**

## Costs

### Project measures

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Contract and equipment costs

**25 000 €**

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Change in calculatory energy costs per year

**- 3 689 €**

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Change in realized energy costs per year

**- 8 086 €**

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Calculatory emission reduction costs

**1 865 €/tCO<sub>2</sub>**

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Realized emission reduction costs

**2 059 €/tCO<sub>2</sub>**

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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