

Renovation site

# Takojantie 2–4, Nastola

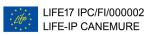


Renovation measure

Air-to-water heat pump







# Basic information

## Building type 4 townhouses

Number of residential apartments **18** 

Year of construction **1991** 

Contractor/supplier Lämpöjokeri Ky

Renovation time The beginning of 2021

#### Measures implemented with project funding

Installing an air-to-water heat pump next to an oil boiler

#### Other measures

Renewing the oil boiler and burner, renewing windows and exterior doors, balancing of the heating network

### **Initial situation**

Calculatory emissions tCO2/year

45,6

Energy consumption, heating MWh/year

179,3

Energy consumption, electricity MWh/year

17,1

Energy efficiency class

### Impact

Calculatory emission reduction tCO<sub>2</sub>/year **36.6** 

Change in energy consumption, heating MWh/year

- 173,4

Change in electricity consumption, electricity MWh/year

62,5

Energy efficiency class after **C** 

Realized emission reduction 09/2022-08/2023

34,0 tCO<sub>2</sub>/year

#### Costs

Project measures

Contract and equipment costs **17 395 €** 

Change in calculatory energy costs per year

- 11 893 €

Calculatory emission reduction costs

556 €/tCO<sub>2</sub>

All measures

Contract and equipment costs 146 905 €

Change in calculatory energy costs per year

- 17 834 €

Change in realized energy costs per year 09/2022–08/2023

- 21 171 €

Calculatory emission reduction costs 4 010 €/tCO<sub>2</sub>

 Realized emission reduction costs

 09/2022–08/2023

 4 321 €/tCO₂

Calculatory payback period **1,2 years** 

Alongside the existing oil heating system, the air-to-water heat pump significantly saves heating energy

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