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Interreg Europe



European Union
European Regional
Development Fund

Energy wise housing cooperatives

Region Jämtland Härjedalen

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13th June 2017

Energy wise housing cooperatives



Housing cooperatives in Sweden

- Property is owned by a cooperative association, which is owned by the members
 - Tenant-ownership – the right to live in the apartment
 - Sell tenant-ownership in the housing market
 - Board

- Housing cooperatives represent a large share of housing in Sweden:
 - Rental apartments: 38%
 - One family houses: 39%
 - **Housing cooperative apartments: 23%**

Energy wise housing cooperatives

- Idea: Energy and climate advisors
 - Potential for energy efficiency
 - Need help – not enough energy knowledge
- Joint effort from the regional energy agencies and the advisors in Jämtland and Västernorrland county
- Goal: reduced energy use through knowledge and energy reviews
 - "Measuring is knowing" - the slogan for the project

Energy wise housing cooperatives

- Jan 1st 2014 – March 30th 2015
(Dec 31st 2014)
- Funded by the Swedish Energy agency
 - ~ 125,000 €



Engage cooperatives

- Goals
 - Engage at least 20 cooperatives
 - Who develop an energy plan with at least one profitable measure
- Results
 - 34 cooperatives signed up
 - 27 were more active
 - During the project period, more cooperatives got in touch after hearing about the project

Systematic energy approach

- Goal:
 - Establish systematic approach for energy issues
- Results:
 - Visits from energy and climate advisors
 - Checklist for energy
 - Made potential measures visible
 - Development of long term energy plans

Knowledge enhancement

- Goal:
 - Increase knowledge and interest in energy issues of the members of the cooperatives
- Results:
 - Broad energy education for board members on themes such as heating, cooling, eco design, lighting, elevators, financial calculations, behavioral issues, solar heating...
 - Opportunity for exchange of experiences.
 - Energy information during membership evenings

Energy advisor visits successful

- Neutral and free of charge
- Typical visit
 - Energy statistics
 - Walkthrough of building
- Appreciated by cooperatives
 - Energy issues hands on
 - More detailed than energy performance certificates



Engaging the members

- Membership meetings
 - In connection with the annual meeting, evening meal or similar
 - Created discussions on energy efficient households
- Surveys to members
 - Understand attitudes to energy issues
 - Perceptions of indoor climate (hot, cold, draught, etc.)
 - Free text answer
 - Important to engage the members in energy work

Improvement and advice

- Processes are slow in cooperatives
 - Long time from idea / proposal to implementation
 - Longer project periods needed
- Recruitment of cooperatives takes effort and time
 - Invitations were sent to several hounded cooperatives and 34 signed up

What were the impacts?

- 1486 apartments were included through their cooperatives
 - Cooperatives of 3-256 apartments
- The total energy savings from implemented measures, planned measures, and self-produced renewable energy amounts to a total of 1,130 MWh/year
- Many of the cooperatives developed long term energy plans

Examples of measures

- Additional insulation of attic
 - potential 20% of heating
 - 77 apartments, 140 MWh/year
- Adjustment of heating system
 - potential 10% of heating
 - 256 apartments, 175 MWh/year
- Individual measurement of hot water and water saving installations
 - potential: 30% water saving
 - 256 apartments, 78 MWh/year.





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Thank you!

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