

TARMO+ SYNERGIC OPERATION MODEL TO ADVANCE SUSTAINABLE AND ENERGY EFFICIENT REPAIR CONSTRUCTION AND COMPLEMENTARY BUILDING

The problem and proposed solutions

People migrate to cities for many reasons, including family ties and job opportunities. Urbanization changes the economic, social and political setup of a country or region and has several major negative impacts, such as lack of jobs, air pollution and the need of capsulize urban structure. One of the major issue that the whole world is facing is global warming. One of the latest target set is the 2020 package that is a binding legislation to ensure the EU meets its climate and energy targets for the year 2020.

TARMO+ is made to meet the strategies set for at the regional, national and EU level to implement climate, energy and land use policies in order to tackle the problems presented before. TARMO+ brings energy service companies and users of their services together, which will help develop the supply of and demand for these services and additionally create jobs. Motivating the stakeholders and all interest groups is one of the most important direct factor to create environmental friendly atmosphere, where sustainable solutions are easier to make.

Timeframe, dates, important milestones

TARMO+ operates 1.3.2015-31.12.2017.

2015: During the first year actions were concentrated to get the attention in the media and start to gather companies involved energy services and renovations to participate TARMO+ events. Existing Energy Experts were invited to TARMO+ events and building manager companies invited their customer housing companies and slowly the stakeholders found their way to TARMO+ project.

2016: The second year was concentrated towards joint renovation awareness and supplement construction possibilities. Co-operation with Swedish cities Malmö and Lund began and a group of project stakeholders visited Scania Region from Tampere.

2017: The final year has been dedicated toward housing cooperative strategies that are efficient way to lower energy consumption and improve living conditions in buildings. During the final year project has been systematically also spreading the results and good practices to Tampere area.

All the time along the project good practice cases has been documented and useful Energy Expert tools gathered.

The link to the specific strategy

[Tampere city strategy 2025:](#)

Working together

- Community members and community works together

Competitiveness

- Tampere offers the best prerequisites and facilitations to business; establishing, growth, internationalization and job creation
- Innovation Environment
- New construction and complementary construction is executed in good quality

Sustainable community

- Tight, green and low-emission urban structure
- Eco friendly city; 40% less CO2 emissions in the year 2025 from the level of 1990
- Quantity of housing and residential areas versatile and therefore inviting. Urban area offers possibility to maintain and increase community and sustainable way of living
- Promote renewable energy sources

The main outputs for achieving objective, innovative elements

- Annual energy saving competition
- Joint platform for Nordic repair construction operations
- Businesses and buyers encounter each other
- Energy Expert training and sense of community
- Tools for Energy Experts
- Repair map

Results achieved, monitoring

- The change in atmosphere and attitudes toward energy efficiency and environmental awareness in housing cooperatives has changed more positive. 250 housing companies have attended to TARMO+ events.
- Increased possibilities to form new kinds of innovative energy services. Over 50 different businesses have attended to TARMO+ actions. Companies have been offered training how to improve the marketing in the housing company environment.
- 3 local universities and research facilities have got research data and real life study cases from the project.
- Customer comprehension in the operational housing company environment has improved and this has created service innovation opportunities for companies. This has been done also in cooperation with cities of Malmö and Lund and the knowhow between both regions has been changed.
- 15 good practice cases are being documented on project's home page.
- 26 events have been organized and held by the end of year 2017.
- 5 workshops are being held by the end of year 2017. Workshops involved supplementary construction benefits and promotion actions, joint construction promotion actions and business marketing comprehension development.

Potential for re-use and improvement

Most of the projects operations and practices are obtained after the active part. Gathered information and achieved attitude change sustain a productive and innovative environment where further actions towards sustainable building process. Residential areas will become increasingly low carbon by making use of energy services and infill construction and development. In the future municipalities could offer incentives for housing co-operations in order to promote renewable energy and sustainable building and renovation to come a more sustainable urban area.