

Thermal solar energy in detached houses

Jämtland County Energy Agency, Sweden

Summary

The Jämtland County Energy Agency and the Energy advisors have during 2003 implemented the project “Thermal solar Energy in detached houses”. The project, which was partly financed by the Swedish Energy Agency, aimed to increase the interest and competence according to thermal solar energy in detached houses. The project was mainly based on information and education activities. The evaluation shows that our quantitative objective for the project not have been reached. The installed solar panel area increased with only 245 m², our objective was 600 m². The evaluation further shows that our competence related objective has been achieved. 11 companies in Jämtland now offers sell and installation of products for thermal solar energy, our objective was at least 10. Our appraisal is that the market isn’t ready to stand on it’s own yet. Therefore projects who aims to increase the usage of thermal solar energy, even in the future should be implemented.

End-user area	Target Audience	Technical
<input type="checkbox"/> New buildings	<input type="checkbox"/> Citizens	<input type="checkbox"/> Energy efficiency
<input checked="" type="checkbox"/> Refurbishment of buildings	<input checked="" type="checkbox"/> Households	<input checked="" type="checkbox"/> Heating
<input type="checkbox"/> Transport and mobility	<input type="checkbox"/> Property owners	<input type="checkbox"/> Cooling
<input type="checkbox"/> Financial instruments	<input type="checkbox"/> Schools and universities	<input type="checkbox"/> Appliances
<input type="checkbox"/> Industry	<input type="checkbox"/> Decision makers	<input type="checkbox"/> Lighting
<input type="checkbox"/> Legal initiatives (municipal regulations, directives, etc)	<input type="checkbox"/> Local and regional authorities	<input type="checkbox"/> CHP
<input type="checkbox"/> Planning issues	<input type="checkbox"/> Transport companies	<input type="checkbox"/> District Heating
<input type="checkbox"/> Sustainable communities	<input type="checkbox"/> Utilities	<input checked="" type="checkbox"/> Solar energy
<input type="checkbox"/> User behaviour	<input type="checkbox"/> ESCOs	<input type="checkbox"/> Biomass
<input type="checkbox"/> Education	<input type="checkbox"/> Architects and engineers	<input type="checkbox"/> Wind
<input type="checkbox"/> Other	<input type="checkbox"/> Financial institutions	<input type="checkbox"/> Geothermal
	<input checked="" type="checkbox"/> Other, plumbers etc.	<input type="checkbox"/> Hydro power
		<input type="checkbox"/> Other

Context

Within the period of March - November 2003, The Jämtland County Energy Agency and the energy advisors in the Municipalities of Jämtlands County have implemented the project “Thermal solar energy in detached houses”. The background for this project is the both international and national efforts that aims to improve the usage of renewable energy sources.

Objectives

The project “Thermal solar energy in detached houses” aimed to increase the interest and competence according to thermal solar energy in detached houses among energy advisors, companies and the general public of Jämtland county. These parameters are together a very important condition for an increase in the usage of thermal solar energy in the future.

From 2000-06-01 there is a subsidy to stimulate the usage of thermal solar energy in residential buildings and residence connected premises. Within the framework of the project "Thermal solar energy in detached houses", the total solar panel area installed in Jämtland county after the subsidy was introduced, has been applied as a measure of the usage of thermal solar energy. Our quantitative objective was that the installed solar panel area would increase with 600 m² during the project, which is equivalent to an 200 % increase compared to 2002-12-31. Our competence related objective was that at least 10 companies in Jämtland, after the project, would offer sell and installation of products for thermal solar energy systems.

Process

The project was mainly based on information and education activities for plumbers, installation companies and households. Together with the energy advisors in the Municipalities we implemented seven information evenings. The target group was households. We also implemented a education day for plumbers and installation companies. Further on we took part of a regional exhibition with about 30.000 visitors. Finally we made a study tour together with companies.

Financial resources and partners

The total costs for the project was about 20 kEuro. Jämtland County Energy Agency owned the project. According to a decision dated 2003-06-16, the project was partly financed with 6 kEuro by the Swedish Energy Agency. Other funding came from companies and the energy advisors.

Results

During the autumn 2003 we have evaluated the project. The evaluation shows that our quantitative objective for the project not have been reached. The installed solar panel area increased with only 245 m² during the project time. The evaluation further shows that our competence related objective has been achieved. Now there are 11 companies in Jämtland who offers sell and installation of products for thermal solar energy.

Lessons learned and repeatability

Our appraisal is that the market for thermal solar energy isn't ready to stand on its own yet. Therefore, projects who aims to increase the usage of thermal solar energy even in the future should be implemented with support from e.g. the Swedish Energy Agency.

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