

## WP3 D9: EXAMPLES OF SUCCESSFUL AESTHETIC INTEGRATION *Dissemination level: Public*

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### CONTENTS

#### INTRODUCTION

#### THE BROCHURE

#### DISSEMINATION

Austria  
Denmark  
France  
Germany  
Italy  
Norway  
Portugal  
Sweden  
The Netherlands

#### CONCLUSION

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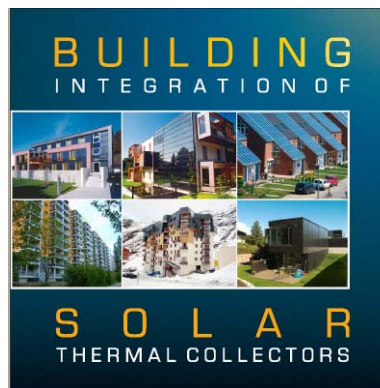
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### SUMMARY

The presented brochure is a compilation of successful aesthetic integration examples from Austria, France, Germany and Norway. The aim of the brochure was to spread it mainly to architects but also to other decision makers in the building sector. 2300 colour print copies were printed of the 14 pages brochure and it was disseminated in Austria, Denmark, France, Germany, Italy, Norway, Portugal, Sweden and the Netherlands.



Further, the brochure is available on the NEGST project website for free download:

[http://www.swt-technologie.de/NEGST\\_Brochure\\_final.pdf](http://www.swt-technologie.de/NEGST_Brochure_final.pdf)

## Introduction

The presented brochure was developed and produced with the goal to reach mainly architects and to motivate them to use solar thermal collectors in their creative work. The high qualitative, colour printed brochure with architecturally outstanding examples shows how solar thermal collectors can be included in building concepts, as part of the construction.

Addressing architects as the main target group for the promotion of solar thermal collectors is considered as very essential since usually they have a huge influence on the decisions made by the builder.

The project partners of WP3 gathered several successful national examples on aesthetic integrated collectors into buildings. The selection of the systems was carried out with the support from an architect, who assisted with the selection so that appropriate systems for the target group could be chosen.

## The brochure

The brochure, consisting of 14 coloured pages, was printed in 2300 copies, presenting six impressive examples on collector integration into buildings from Austria, France, Germany and Norway, see Figure 1.

The presented objects are described with one large picture of the building and the integrated solar panels and with smaller pictures, presenting details, other views of the building or solar panels. Further, a table gives the key figures for the project, including the year of solar thermal system installation, the year of building construction, size of the solar thermal system, building architects and the collector manufacturer. Each object is also commented by the architect.



Figure 1: Cover and one of the presented objects

## Dissemination

### Austria

The dissemination of the brochures in Austria was among other things carried out at workshops and to architect associations in Austria, see Table 1. The brochures were sent to the associations free of charge and they agreed on distributing the copies at their offices and workshops organised for architects. Further, the brochure was put on the homepage of AEE INTEC, in the news area and under downloads in general.

Table 1: Distributed brochures in Austria

Distributed at AEE INTEC national workshop "klima:aktiv haus – Der Baustandard der Zukunft" ("Building of tomorrow") on January 26 <sup>th</sup> 2007
Distributed by "arch.forum" in Upper Austria at workshops during spring 2007
Distributed by the association "HDA Haus der Arch Graz" at workshops during spring 2007
Distributed by "Vorarlberger Architektur Institut" at workshops during spring 2007
Distributed by the association "IG Architektur" at workshops during spring 2007
Workshop on the subject building integration, carried out for architects in April 2007
Distributed at the IEA SH&C executive committee in Brussels in March 2007
Distributed at the IEA ECBCS executive committee in Brussels in June 2007

Complementary to the dissemination carried out by AEE INTEC in Austria, arsenal research ordered a hundred copies of the brochures with the intention to disseminate this high quality material to its' numerous guests interested in solar thermal technology. These guests mainly originated from the regions of Vienna and Central and Eastern Europe. Apart from the targeted group of architects especially journalists have been and will be provided with the brochures. Brochures were also handed out at a workshop of the "KING network" (Kompetenzzentrum innovative Gebäudetechnik) in Vienna by arsenal research.

## Denmark

The brochures were distributed in Denmark during the spring of 2007 to the following parties:

- To project partners in the project "Solvarmebogen" ("Book of solar heating" - targeting architects)
- At the general assembly of "Dansk Solvarme Forening" (Danish Solar Heating Association)
- To Danish energy authorities (Ministry of Transport and Energy)
- To project partners in the project "Sol i energirammen" ("Solar energy and energy performance of buildings")
- At "Solenergidagen" ("Solar energy day"; a national annual event for engineers and architects)

## France

In France, the brochures were distributed to the French solar thermal professionals association ("ENERPLAN") and to the company "Clipsol". Further, it was distributed to the architect JP Chiantello, who is has been active in the field of solar thermal installations on his work.

## Germany

The brochure was distributed at the following occasions:

- Industry Workshop on April 17th, 2007 at University of Stuttgart (ITW) with 75 participants.
- Meeting of IEA SH&C Task 32 (Advanced storage concepts for solar and low energy buildings) from April 18-20 in Stuttgart, Germany
- European Solar Thermal Technology Platform (ESTTP) meeting of the focus-group and working group leaders on May 2nd, 2007 at Brussels, Belgium
- Experts meeting related to solar air-conditioning on May 3rd at Stuttgart, Germany
- Solar thermal promotion meeting on May 3rd at Leonberg, Germany
- 17. Symposium „Thermische Solarenergie“ on May 9th - 11th, 2007 at Bad Staffelstein, Germany.
- At the foundation meeting of the Macedonian Solar Industry Association on May 21st, at Skopje, Macedonia
- At a meeting of decision makers from building companies, investors and politicians on June 5th, at Tirana Albania
- At the occasion of a presentation of PV experts from the ipe (Institut für physikalische Elektronik) at the University of Stuttgart,
- final project workshop of NEGST on June 21st, 2007 at Freiburg, Germany
- The dissemination of the brochures in Germany was carried out at workshops taking place at the Intersolar trade fair in Freiburg on June 22nd/23rd, 2007.

Furthermore it is intended to distribute the brochures at following events in the near future

The brochure was presented to students at Stuttgart and Kassel University in the courses dealing with solar thermal engineering. Furthermore, some take-away copies have been put at the notice board of the institutes.

In addition the brochure is used for promotion activities by the German companies Schüco and Wagner since for some examples of successful architectural integration of solar thermal collectors into the building envelope products of these companies were used.

- foundation of the German Solar Thermal Technology Platform (DSTTP – Deutsche Solarthermie-Technologie-Plattform) on August 30<sup>th</sup> and 31<sup>st</sup> in Berlin, Germany
- During the ISES Solar World Congress held in Beijing, China from September 18-21, 2007
- Meeting of the standardisation committee TC 312 (Thermal solar systems and components) to be held on October 15 and 16 at Cyprus
- a conference of the Association of German Engineers (VDI) “Solar Thermal Technology - Heating and Cooling with the Sun” taking place on October 17 and 18, 2007 in Stuttgart.
- at the “work conference” of the European Solar Thermal Technology Platform” to be held on October 22<sup>nd</sup> and 23<sup>rd</sup> at Brussels, Belgium
- At the annual general assembly of the European Solar Thermal Industry Federation (ESTIF) to be held on November 27<sup>th</sup> at Brussels, Belgium

## Italy

ENEA and Politecnico di Milano distributed the brochures to engineers, architects and experts operating in the field of solar thermal energy during meetings that took place in our institution. The remaining brochures are available for forthcoming events.

## Norway

The University of Oslo distributed the brochures to architects, who continued the dissemination to their colleagues. Some copies were also distributed to project partners of the university during spring 2007.

## Portugal

INETI has sent out the brochures for dissemination to schools which offer architect courses. The brochure was also sent to the Entity representing the architects in Portugal and it was presented in a newsletter of the magazine "Construir" ([www.construir.pt](http://www.construir.pt)), with the indication to download the brochure from the NEGST homepage.

## Sweden

SERC and SP sent out the brochures to architects, constructors and others in the building business in the south west region of Sweden.

## The Netherlands

The brochure was distributed to experts in the solar and low-energy building field in the Netherlands and (through Ecofys international offices) in other European countries, as well as to interested parties (housing association, project developer).

## Conclusion

The feedback from the approached architects has been very positive and the compiled examples in the brochure show indeed aesthetic examples of building integrated solar panels. The production and the dissemination of the presented brochures have served to inspire architects to consider the application of solar thermal technology in future constructions and also to set a mark of awareness and sensibility for this technology.