

Solar Renovation of non-residential buildings – Results from IEA SHC Task 47

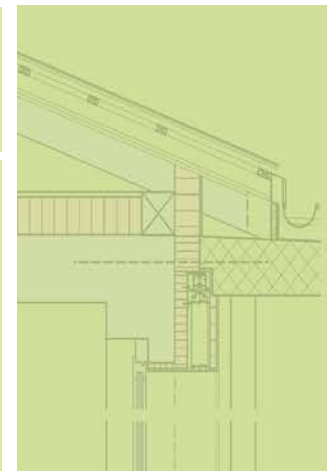
Task 37 Advanced Housing Renovation with Solar & Conservation

Task 47 Renovation of Non Residential Buildings towards Sustainable Standards

Objectives

Develop a solid knowledge base on how to renovate non-residential buildings towards the NZEB standards (Net-Zero Energy Buildings) in a sustainable and cost efficient way.

Identify the most important market and policy issues as well as marketing strategies for such renovations.



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Claudia Dankl – Solar Renovation from non-residential Buildings


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IEA SHC Task 47 Renovation of Non Residential Buildings towards Sustainable Standards

Operating Agent: Fritjof Salvesen, Norwegen

- A. Subtask A – Advanced Exemplary Projects – Information Collection & Brief Analysis (Norway)
- B. Market and Policy issues and Marketing Strategies (Norway)
- C. Assessment of Technical Solutions and Operation Management (Germany)
- D. Environmental and Health Impact Assessment (Belgium)

January 2011 till June 2014

Subtask A – Brochures from best-practice-renovations

Austrian examples

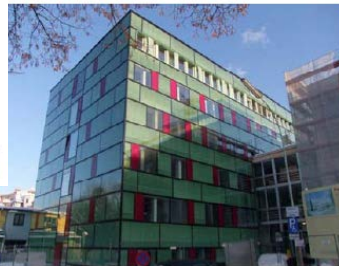
- School in Schwanenstadt
- Administration Building in Bruck / Mur
- TU Vienna Plus Energy, Vienna
- Monastery Kaiserstraße 7, Vienna
- Franciscan Monastery, Graz
- ASO4, Karlhofschule, Linz

School in Schwanenstadt, Austria



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Renovation of Non-Residential Buildings towards Sustainable Standards

Administration building Bruck/Mur –
District Court and Fiscal Office



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Renovation of Non-Residential Buildings towards Sustainable Standards

1. INTRODUCTION

PROJECT SUMMARY

- building period 1990s
- numerous expansions

SPECIAL FEATURES

- Renovation meeting Passive House Standard
- decentralized ventilation system
- expansion from 4,140 m² to 5,214 m² useable area
- pellet heating (110 kW)
- 0.7 kWp photovoltaic system (58 m²)

Heinz Pflöderl, PAUAT Architekten (architect)
Günter Lang, Lang consulting (manager of research project)
E-Plus (building equipment)
team gmi (passive house technology)
Obermayr Holzkonstruktionen (timber construction)
Neue Heimat Oberösterreich (developer)
Municipality Schwanenstadt (owner)

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Reports

Task 47 – Renovation of Non Residential Buildings towards Sustainable Standards

<http://task47.iea-shc.org/publications>

