

30 Jahre Forschung in der Internationalen Energieagentur

Ein Rückblick

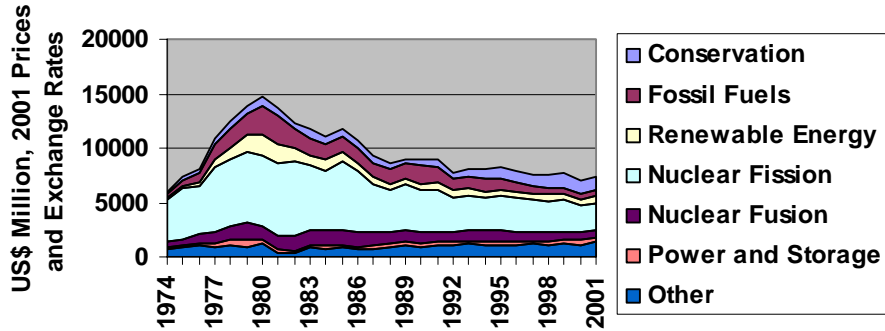
Gerhard Faninger,
iff, Universität Klagenfurt

**Österreichischer Vertreter im
IEA-Solar Heating and Cooling Programme,
IEA-SHC, ExCo**

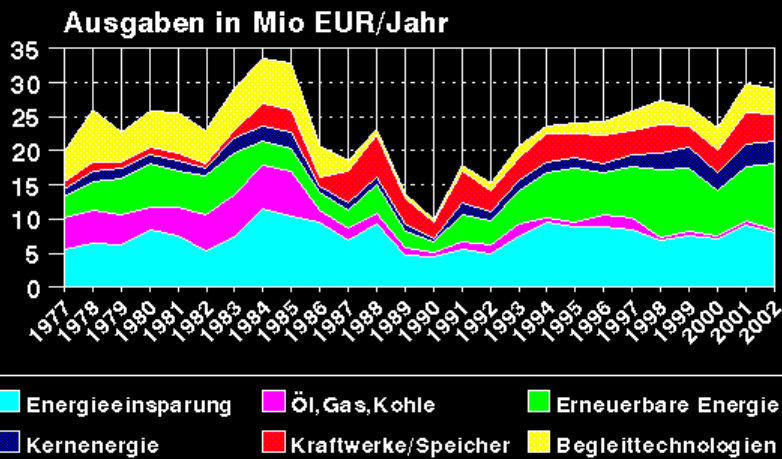
**IEA-Working Party on
Renewable Energy Technologies,
Vice-Chairman**

- **IEA Energy Policy and
Austrian Energy Policy**
- **The IEA Solar Heating
and Cooling Programme:
Benefits for Austria and
Austrian Contributions**
- **Review and Outlook**

IEA Government Energy R&D Budgets, 1974-2001



AUSGABEN DER ÖFFENTLICHEN HAND FÜR ENERGIEFORSCHUNG IN ÖSTERREICH 1977 - 2002





Solar Heating & Cooling Programme

The IEA- Solar Heating and Cooling Programme

**Gerhard FANINGER,
iff-University of Klagenfurt**

Austrian ExCo Member



The Mission of the Programme

**To facilitate an
environmentally
sustainable future through
the greater use of solar
design and technologies.**



SOLAR ENERGY USE IN THE BUILDING SECTOR

Within the framework of international co-operation, practical research in and demonstration of the use of solar technologies have resulted in a number of *economic and marketable solutions* in the building sector.



SOLAR ENERGY USE IN THE BUILDING SECTOR

Photovoltaic

Solar thermal



- Solar Architecture

- Solar Hot Water and Space Heating

- Solar PV for Electricity Production



Internet

www.iea-shc.org



AEE INTEC



INTERNATIONAL ENERGY AGENCY
SUSTAINABLE ENERGY PROGRAMME

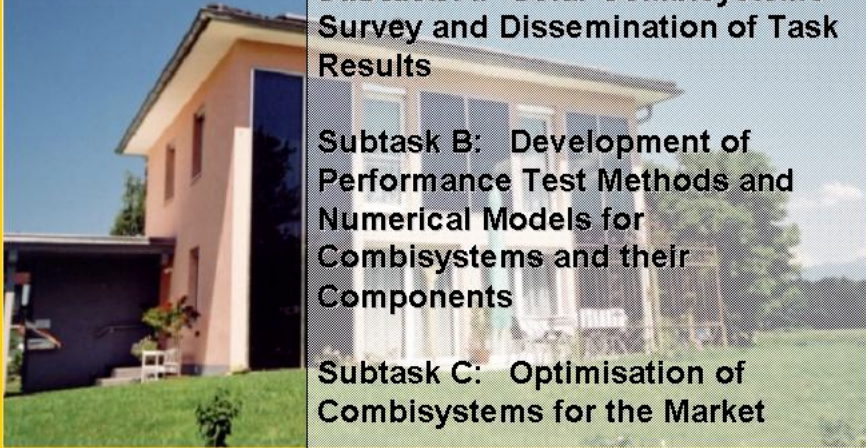
AEE INTEC Institut für Nachhaltige Technologien

TASK 26 Solar Combisystems

Solar Heating Systems
for combined domestic hot water
preparation and space heating



Means



The participants have undertaken work in three subtask areas:

Subtask A: Solar Combisystems Survey and Dissemination of Task Results

Subtask B: Development of Performance Test Methods and Numerical Models for Combisystems and their Components

Subtask C: Optimisation of Combisystems for the Market

RESULTS

20 technical reports

Proceedings of six industry workshops

Three Industry Newsletters

(English + all languages of the participating countries)

SUSTAINABLE SOLAR BUILDINGS

Marketable Housing for a better Environment

IEA-SHC Task 28/



The IEA-Project SHC-TASK 28

Duration: April 2000 – April 2005

Objectives: Market penetration of sustainable solar housing

Means:

- Web site
- Documentation of projects
- Design Handbook
- Demonstration Buildings
- Workshops

Scope:

- Energy
- Ecology
- Economy

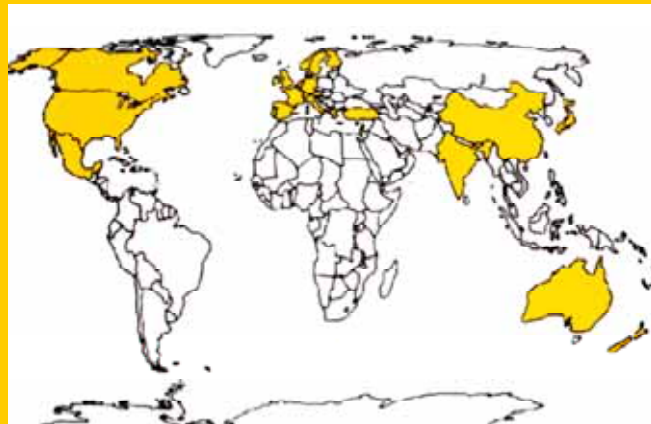
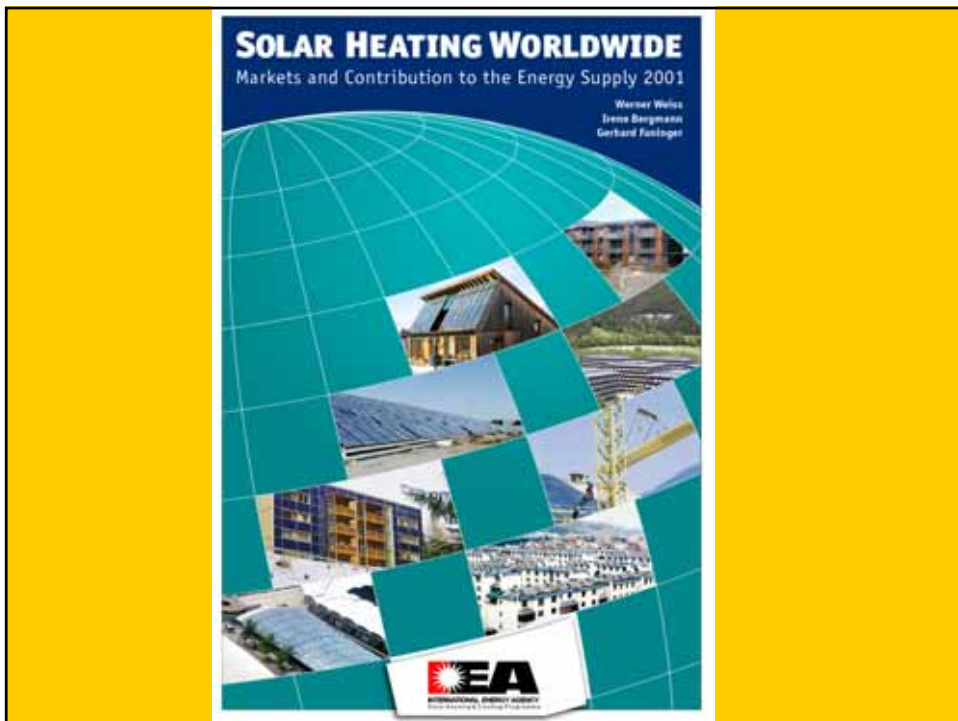


Task 28/38 is exploring the combination of energy conservation and solar strategies in the context of marketable sustainable housing.



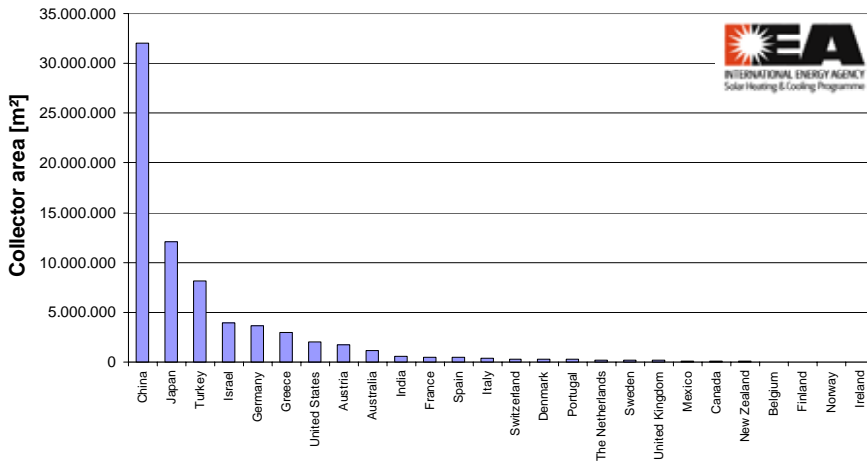
An essential goal for this project is to help designers plan economical sustainable housing to increase market penetration and assure that the goals promised customers are met.

The standard approach concentrates on reducing loads and CO₂-emissions.



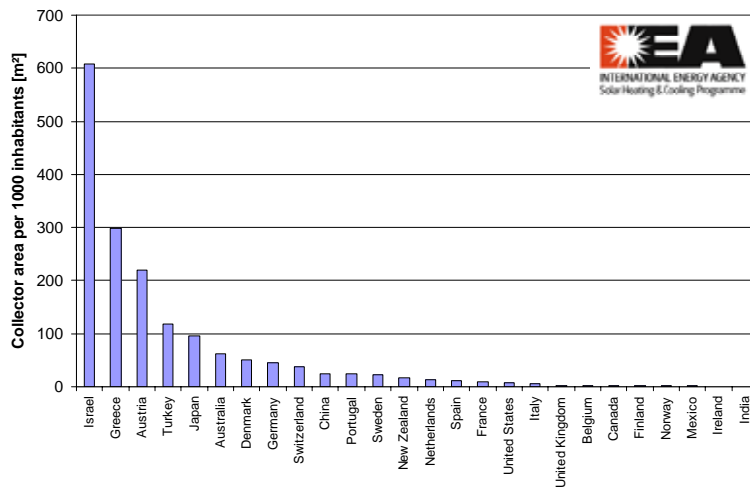
Countries represented in this document (yellow)

Total: glazed flat plate and evacuated tube water collectors in 2001

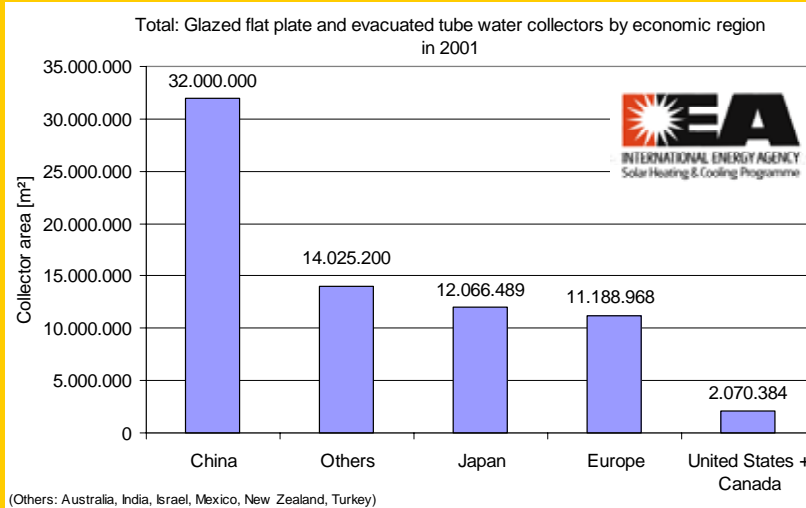


Glazed flat plate and evacuated tube collectors in operation in the year 2001

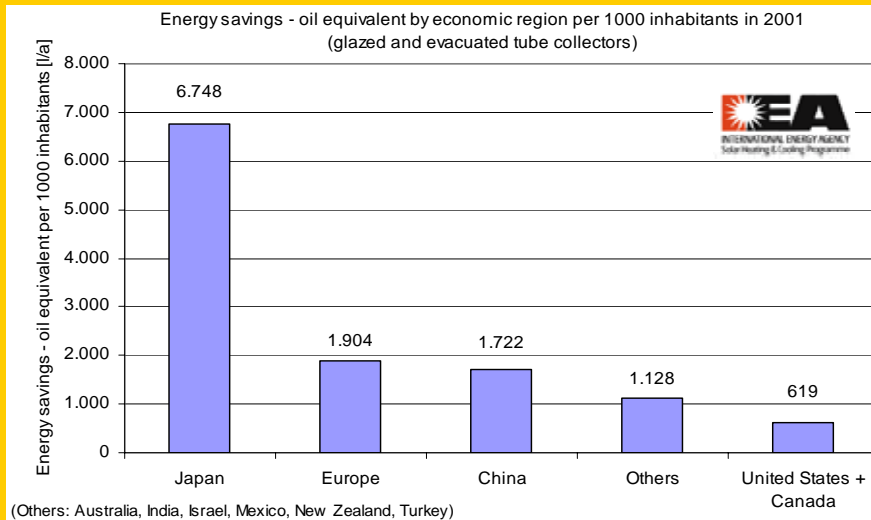
Total: Glazed flat plate and evacuated tube water collectors per 1000 inhabitants in 2001



Glazed flat plate and evacuated tube collectors in operation in the year 2001 per 1000 inhabitants



Glazed flat plate and evacuated tube collectors in operation by economic region (1) in the year 2001
(1) Europe: EU 15 (excl. Luxemburg) + Switzerland and Norway



Annual energy savings in oil equivalent - glazed flat plate and evacuated tube collectors operation by economic region in the year 2001 per 1000 inhabitants

