



IEA SHC Task 66: Solar Energy Buildings

Integrated solar energy supply concepts for climate-neutral buildings and communities for the "City of the Future"

IEA SHC Task 66: Solar Energy Buildings – Presentation of Final Results

Dissemination of Solar Energy Buildings

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Industry Workshops

- 23/03/2022, virtual:
 Solar Energy Buildings worldwide
- 29/09/2022, Eurosun 2022, Kassel, Germany:
 Solar thermal and/or PVT combined with heat pumps as an innovative energy supply solution
- 3. 07/02/2023, virtual: Demonstration projects of Solar Energy Buildings around the globe
- 09/10/2023, Graz, Austria:
 Solar energy supply concepts for buildings and districts in an international context
- 06/02/2024, virtual:
 Solar Energy Buildings Design, Planning and Operation in Practice
- 6. 27/08/2024, Eurosun 2024, Limassol, Cyprus: IEA SHC Task 66: Solar Energy Buildings Presentation of final results



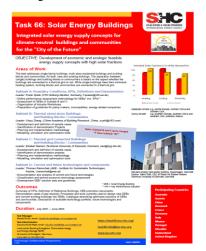


Flyer / Brochures

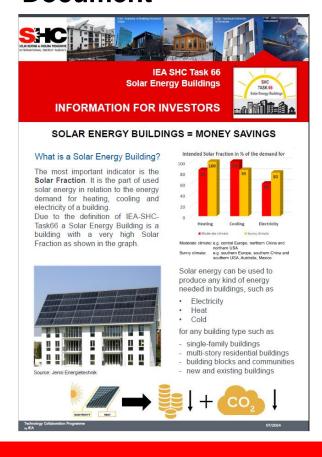


2022:

Introductory **Flyer**



Deliverable: **Investor Promotion** Document



Deliverable: **Policy Oriented Guidelines**



SOLAR ENERGY BUILDINGS = BETTER FUTURE

Globally, the operation of buildings accounts for ca. 40 % of the primary energy consumption and ca. 25 % of the greenhouse gas emissions. Additionally, large amounts of energy are embodied in the building's construction materials.

Therefore: reducing this is a must for a sustainable development in any country and region. A Solution:

→ Solar Energy Buildings

What is a Solar Energy Building?

The most important indicator is the

Solar Fraction. It is the part of used

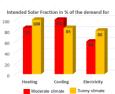
solar energy in relation to the energy demand for heating, cooling and

Due to the definition of IEA-SHC-

Task66 a Solar Energy Building is a

building with a very high Solar

Fraction as shown in the graph.



Moderate climate: e.g. central Europe, northern China and northern USA

e.g. southern Europe, southern

China and s. USA. Australia. Mexico

Solar energy can be used to produce any kind of energy needed in buildings, such as

- · electricity

for any building type such as

- · single-family buildings
- · multi-story residential buildings
- · building blocks and communities
- · new and existing buildings



electricity of a building.





Videos

- 1. 2022: Introductory Video https://task66.iea-shc.org/information-video
- 2. Eurosun 2024, Limassol, Cyprus: Final Video

Miscellaneous

- 1. Eurosun 2022: Poster
- 2. 01/2022 and 12/2023: Task Newsletters
- 3. 19/09/2023: IEA SHC Solar Academy webinar: Task66 Solar Energy Buildings
- 4. all the time: Various Publications on Scientific Conferences

https://task66.iea-shc.org/



Thank you for your attention

www.iea-shc.org





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