

New Solar Cooling Book Published

1 August 2014. New books on solar cooling demonstrate how solar cooling technology is being applied and highlights results from the IEA Solar Heating and Cooling Programme's work in this field (SHC Task 48: Quality Assurance & Support Measures for Solar Cooling Systems. The book "Solar Cooling: The Earthscan Expert Guide to Solar Cooling Systems" was published on June 25.

Solar thermal cooling technology is nowadays facing a very exciting challenge. Air conditioning of buildings is a constant growing energy segment. The worldwide trend in the development of renewables must include this critical cooling application, and solar thermal energy presents a natural and strong option. Reliable, technologically advanced products are now available, but the solar cooling sector needs to leap from a pre-industrial and demonstration status into the competitive mass market.

The recently published Solar Cooling books try to explain all the things to know about how solar energy can be converted into cooling energy. They also outline the difference between heat-driven and photovoltaic-driven systems and give examples of both, making clear in what situations solar cooling technology makes sense. The books discuss existing solar thermal collectors and solar cooling technologies as well as options for cold distribution and storage components. In addition, topics on designing, sizing and installing, operating and on maintaining solar cooling systems are explained in detail to guide engineers, architects, consultancies, solar thermal technology companies, and students interested in developing their own solar cooling projects. The books also show economic feasibility and potential markets for solar cooling worldwide. Collections of case studies are presented to show different solar cooling system applications.

To find more information on these reference books:

* ["Solar Cooling Handbook: A Guide to Solar Assisted Cooling and Dehumidification Processes"](#) by H-M Henning, Mario Motta and Daniel Mugnier, September 2013, Ambra; ISBN 978-3990434383

* "Solar Cooling: The Earthscan Expert Guide to Solar Cooling Systems" by Paul Kohlenbach and Uli Jakob, June 2014, Routledge, London & New York; ISBN 978-0415639750

* "La climatisation solaire thermique ou photovoltaïque" by Francis Meunier and Daniel Mugnier, May 2013, Dunod, ISBN 978-2100582068 (available in French language)

PRESS RELEASE

Further information:

- IEA SHC website: www.iea-shc.org
- Project webpage: www.iea-shc.org/task48/index.html
- Solem Consulting: <http://www.solem-consulting.com>
- Dr. Jakob Energy Research: <http://www.drjakobenergyresearch.de>
- TECSOL: <http://www.tecsol.fr>

About the International Energy Agency's Solar Heating and Cooling Programme (IEA SHC):

- The Programme was established in 1977.
- Its objectives are co-operative research, development, demonstration and exchange of information regarding solar heating and cooling systems.
- 20 countries, the European Union and four organizations are IEA SHC members.
- The research topics of the current 12 projects range from general topics, such as "Solar Resource Assessment and Forecasting", system research, such as "Large Solar Thermal Systems" to market support and integration topics such as "Solar Rating and Certification" "and Solar Energy in Urban Planning".
- Additional information: www.iea-shc.org

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