



New IEA Task on New Generation Solar Cooling Systems

IEA-SHC First Task Definition Workshop
CNAM, Paris, France, 21.-22.03.2013

Dr. Uli Jakob
Green Chiller – Association for Sorption Cooling e.V.

- Formed in March 2009 as Industry Association (today 10 Companies, 11 Institutes, 1 Association)

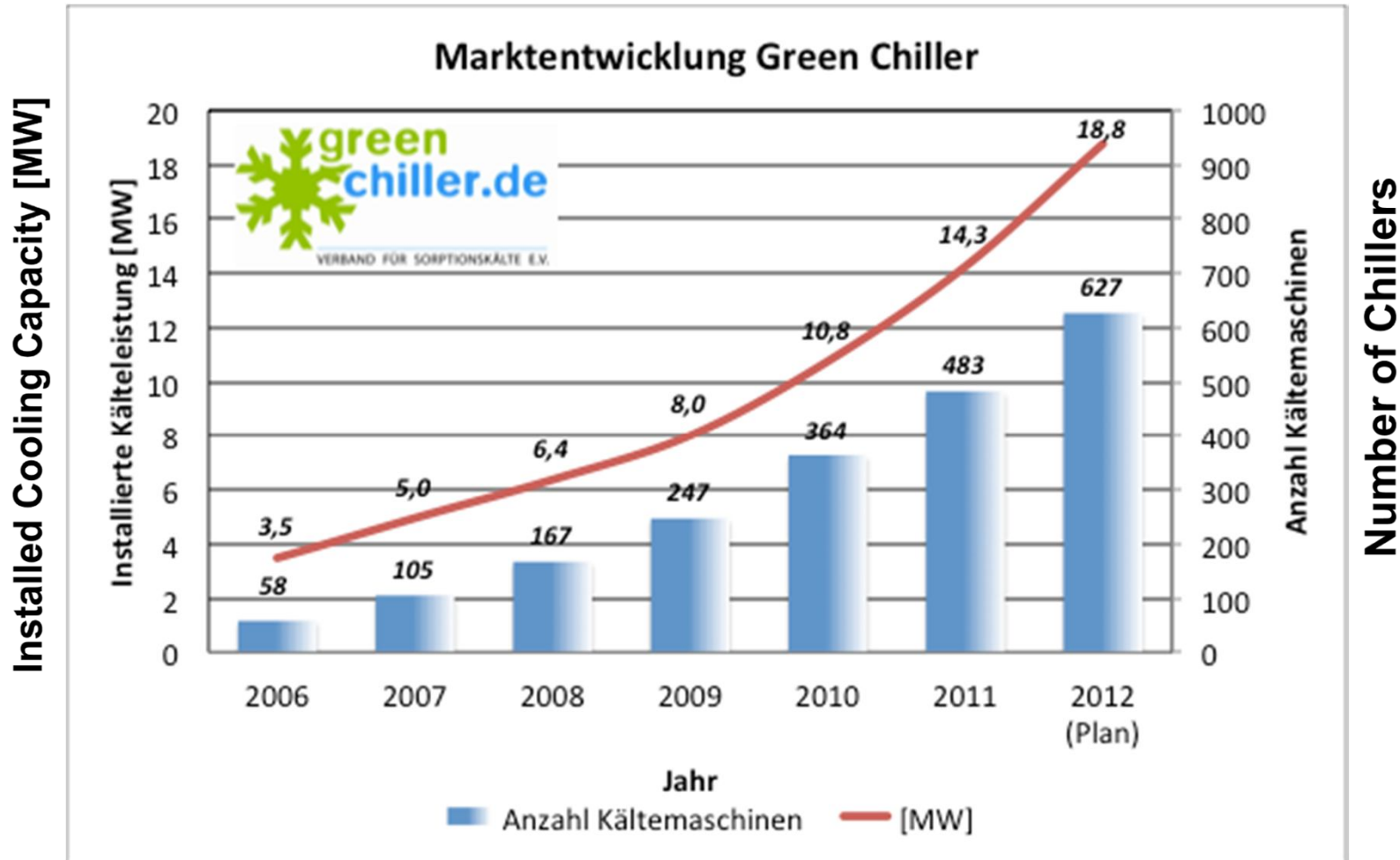


- Located in Berlin, Germany
- Representing around 60% of all European manufacturers of thermally driven sorption chillers in the small and medium-scale cooling capacity range (8 - 200 kW)

Green Chiller – Association for Sorption Cooling



Source: Green Chiller



ca. 34% Solar Cooling

ca. 44% CHPC

ca. 8% District Heating

ca. 14% Waste Heat

Green Chiller – Market Development (2006-2011)



- BSW Roadmap „Solar Fahrplan Solarwärme“ (Solar Cooling)
- EU SRA Cross-Cutting-Technology (Thermal Cooling/Heat Pump)
- EU SRA ESTTP (Solar Cooling)
- EvaSolK project relating comparison of STAC and PV Cooling (funded by BMU)
- SolaRück project relating heat rejection (funded by BMU)
- IEA SHC Task 48 “Quality assurance and support measures for Solar Cooling“, leader Subtask D “Dissemination and Policy Advice” (funded by BMWi)

Green Chiller – Latest activities involved

Global Thermal Energy Council

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Europe/Asia: Solar Cooling Gains Traction

Submitted by Baerbel Epp on September 3, 2012



Large Japanese and Chinese companies have recently taken a greater interest in solar cooling. The photo shows an installation by Chinese company Jiangsu Huineng New Energy Technology (Huin), which started supplying solar cooling systems

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Momentum in solar cooling growing: Large industrial corporations entering the field

5 July 2012. Major industrial corporations from Asia are increasing their stakes in solar cooling. A multi-country research project of the IEA Solar Heating and Cooling Programme is supporting the market and drawing strong interest from these players.

Large industrial corporations like Hitachi Plant Technologies and Mitsubishi Plastics have started to enter the solar cooling market. Already last year, Hitachi announced its aim of achieving a turnover of about 5 Billion Yen (63 Million USD, 50 Million EUR) by 2015 with their solar powered air-conditioning system based on parabolic trough collectors and absorption chillers. And this March, Mitsubishi put their sales target at 3 Billion Yen (38 Million USD, 30 Million EUR) for their new compact adsorption chiller series by 2015. Both companies are showing a large interest in the solar cooling business field, which will be supported by research of a multi-country project of the IEA Solar Heating and Cooling Programme titled "Quality Assurance and Support Measures for Solar Cooling (Task 48)".

SHC SOLAR HEATING & COOLING PROGRAMME INTERNATIONAL ENERGY AGENCY

TASK 48

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Intersolar 2012

JUNE 13, 2012 - MUNCHEN

During INTERSOLAR 2012 in München, Solar Cooling has been on the highlights. Among the sessions on Solar thermal energy at Intersolar Europe Conference (Innovations, Trends, Networking) on June 13, 2012,

A series of 4 presentations have been given with an audience of nearly 60 people. Interesting hot topics have been treated such as latest developments, market status, return of experience in Middle East, solar thermal versus PV cooling. Of course, IEA SHC Task 48 has been presented by Daniel Mugnier as Operating Agent.



Please find below the presentations and the conference program (solar cooling session details on p.44):

- [INTERSOLAR Conference Program](#)
- [Solar thermal energy for cooling and refrigeration: status and perspectives](#)
Dr. Daniel Mugnier, Head of R&D Department, TECSOL
- [Where does solar cooling stand today?](#)
Dr. Uli Jakob, General Manager, Solem Consulting
- [An application of solar cooling in the Gulf region](#)
Shane Caher, Operations Director, Kingspan Renewables

"solar cooling is gaining traction in the industry", says Dr. communications efforts in Task 48." The announcements of provide additional momentum in the already dynamic

y from Japan. With China recently joining the IEA SHC, s have indicated their strong interest in participating in the Vicot Air Conditioning (solar cooling system supplier and turer), Shuangliang (absorption chiller manufacturer), and manufacturer). Even the Shanghai Jiao Tong University, nstitute, has been recently approved by China to officially ining the Task 48 group.

r other countries like Thermax from India have also est in this project.

f Task 48 will take place in Gleisdorf (Austria) on 10- d to confirm that solar cooling is a hot topic especially in

or topic at the first *International Conference on Solar ildings and Industry*, which takes place 9-11 July 2012 in

many more posters cover the various aspects of this :systems, best practices) in buildings as well as for ce is hosted by IEA SHC and takes place in conjunction ca.

Green Chiller – Dissemination activities within IEA SHC Task 48



- Lobbying of Sorption Cooling technologies (small and medium cooling capacity range)
- Promoting and developing of the Renewable Cooling markets on International level (together e.g. with ESTIF, BSW-Solar, etc.)
- Increasing awareness of renewable cooling technologies (fairs, conferences, workshops, seminars, etc.)
- Standards and test methods for chillers/cooling kits as a requirement for funding / subsidy schemes

Main Interests of Green Chiller in the New Task

- **Subtask A: Components, Systems & Quality**
 - Standards and testing methods (standardized Solar Cooling Kits)

- **Subtask D: Dissemination and market deployment**
 - Dissemination results
 - Lobbying actions
 - Roadmap for new generation solar cooling & heating systems
 - *Subtask Leader?*

Involvement of Green Chiller within the New Task



VERBAND FÜR SORPTIONSKÄLTE E.V.

Thank you.

Dr. Uli Jakob

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www.greenchiller.eu