



IEA TASK 45 Relevant R&D

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Barcelona

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Large Scale Solar Thermal Plants:

- Project Development, Design
- Engineering
- Turnkey Solutions for several 1000m²

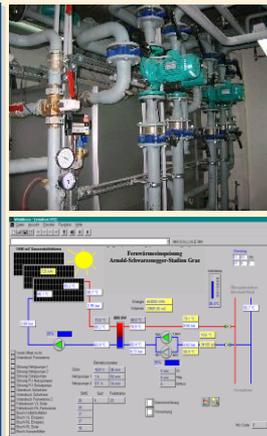
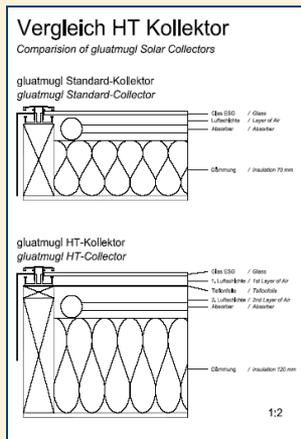
Solar Cooling, Solar Process Heat and Cold, SDH, DHW

- Operation & Maintenance
- Finance (ESCo)
- Research & Development





- Exchange know-how in cooperation with universities and business
- Improvements to existing products and steady development of new products
- Partner and co-ordinator in national and international R&D projects



Current R&D Project Topics:

- Automated solar system control
- Solar cooling applications
- SC & SH for industrial processes
- Solar District Heating
- Solar thermal in tropical climates
- Solar Energy Contracting



- **250 KW Heatpump for 3.900m² SDH Plant** – new
- **GBE Factory** – new
- **SDH-TakeOff** – ongoing
- **SC-Monitor** - ongoing
- **SolarCoolingOpt** - ongoing
- **IP-Solar** www.ip-solar.com - ongoing

Automated failure detection and monitoring



- **BioSolEsco** – ongoing
- **High Combi** – Optimization efficiency SC; DEMO - ongoing
- **SOLERA** - ongoing
- **POLYSMART** - ended 2010
- **InnoCool** - ended 2010
- **Promise Application** - ended 2010
- **ST-ESCOs** - ended 2008





- **Sheik Zayed Desert Learning Center (UAE/AI Ain)**
- **Solar Cooling**
- **Commissioning 2011**
- **Cooling power 350 kW**
- **Collector area 1100 m²**
- **Expected Solar yield: 825 kWh/m²/year**

World Wide biggest SC Installation



UWCSEA (Singapore)

- **Solar Cooling and DHW**
- **Operating August 2011**
- **Cooling power 1.5 MW**
- **Collector area 4000 m²**
- **Expected Solar yield:**
2200 MWh/year

Thank you!

