De Beijer RTB B.V.

General introduction to
SolabCool™ Technology
Introduction De Beijer RTB:

Profile:
• Engineering company with 30 years of experience in renewable energy solutions and products.
• Several international cooperation’s with institutes and universities.
• Various renewable energy products successfully launched to the market in the past.

Main activity:
De Beijer RTB is mainly active in the field of thermo-chemical energy storage and thermo-chemical heat pumps.

Main project:
The SolabCool™ technology has been developed to create a very cost-effective production method to make small capacity sorption cooling competitive with alternative systems.
**SolabCool B.V.:**

**The company:**
SolabCool B.V.’s core business is manufacturing thermo chemical heat pumps (SolabPump™). Our goal is to position SolabCool B.V. as the leading OEM-supplier of thermo-chemical heat pumps to the HVAC industry.

**SolabCool™ technology:**
The SolabCool™ technology is based on adsorption cooling. This process takes place in the SolabModule™, which consists of a condenser / evaporator and an accumulator.
To provide cooling a two stage charging and discharging process is used in a SolabPump™.
SolabCool B.V.:

The components:
SolabCool B.V. produces several components itself that can be integrated into solar cooling and heating systems. The main components are:

- SolabChiller
- SolabPump
- SolabModule
- SolabValve
Related projects:

De Beijer RTB is running several projects that are related to the new task:

**TKI EnerGO**
- TKI is a national program meaning Top consortium Knowledge and Innovation.
- EnerGO is one of the subprograms on Energy efficiency in the built environment.
- De Beijer RTB is one of the main partners in the TESSEL-project to realize a thermal energy storage system.

**EIT - KIC InnoEnergy**
- Partner in the program ‘Energy storage as necessary part of energy balanced buildings and districts’.
- De Beijer RTB is work package leader for the task ‘Energy storage to enable more effective use of chp and PVT’.

**KP7 – Merits**
- Partner in the program More effective use of renewables including compact seasonal thermal energy storage.
- Work package leader for business models and market strategies. Responsible for prototyping.

**IEA project**
Interest, Input and responsibilities:

Interest:
De Beijer RTB is generally interested in Subtask A and C. We have a specific interest in:
• Certification process, test standards and quality label
• Development of tools and deliverables permitting to show the level of quality in both components and systems.

Input:
• Early stage feedback on production efficiency, costs-effectiveness and quality assurance of the concept.

Responsibilities:
• Prototyping of component with the SolabCool Technology as a basis.
• Participate in the certification process
SolabCool Pilot Factory, opening summer 2013:

Questions?