

ILK Dresden - R&D company



Re-established as independent research institute in 1991

Employees: 125Academics: 72 %mean age: 44

Laboratory area: 3070 m²

▶ Test rigs: ~56

Phys. / Chem. Laboratories: 25





Short history



- ILK (Prof. Franzke) was involved in Task 25 (Design Tool) and Task 38 (commissioning guidelines)
- ▶ ILK built its first solar thermal cooling systems in 1998 -> ETC with 15 kW ammonia/water chiller
- ▶ ILK -> close development/engineering cooperation with Abs.chiller manufacturers (EAW and AGO)
 - -> know their perspectives and problems and are able to represent their views within the task







www.ilkdresden.de

3

Running projects



- EvaSolK Evaluation of chances and limits of solar cooling compared to reference technologies – Analysis of solar thermal and photovoltaic driven cooling
 - joint project: ISE ZAE ILK; 06/2010...12/2012
- **▶** SolTri Components for decentralised solar-assisted trigeneration systems
 - Development of a small (diameter: 2 m) and inexpensive parabolic trough collector (company: Mithras, University of Braunschweig)
 - Development of an adapted small capacity Double Effect absorption chiller (EAW; ILK)
- Coach Components for an optimised air-cooled absorption chiller goal: - directly air-cooled small capacity (~8 kW)
- Planned: Greenchiller Project for optimisation of re-cooling in SAC systems
 -> (running) cost reduction possible

Main interests



- Cost reduction mainly on the component level
- Quality assurance on the chiller level
- Combination with other heat sources?

www.ilkdresden.de

5

