

Sorry for not being here!



Content (3 slides):

- Overview of 6 installations in Upper Austria (ongoing analysis)
- Installation 6: Comparison with PV driven compression cooling

Overview of installations (e.g. Solar Cooling Monitor)

Installation	Monitoring	Remarks	To do
Office building 120 m ² FPC, 30 kW Absorption Chiller	Level 3	COP _{el} ~ 2,9, Modifications in Control, Temperature levels and change of components scheduled for summer 2011	Improvements to be reviewed by various simulations: Results: 2012
Office building 760 m ² FPC, 80 kW Absorption Chiller	Level 3	COP _{el} ~ 7,4 Heat Rejection by ground heat exchangers	
Office building, Solar facade 2 x 7,5 kW Adsorption Chiller	Level 3	Performance very bad	Dimensioning to be reviewed by simulations
Office building 85 m ² FPC, 30 kW Absorption Chiller	Level 3	Troubles with monitoring equipment	
Office building 70 m ² FPC, Biomass boiler 35 kW Absorption Chiller	Level 1	Heat rejection by means of water basin and evaporation on flat roof in the night	Results: 2012
Office building 263 m ² FPC, 70 kW Absorption Chiller	Level 3 ?	Parallel installation of 70 kW PV driven compression cooling scheduled for 2012	Monitoring when subsidy is approved Results: 2013

Installation 6



Solar autonomous cooling, Office and Factory: 70 kW Chiller, 263m² FPC



- Basic Monitoring (Level 1) since Summer 2010
- Company wants to develop the market in Middle East, Saudi Arabia, Qatar...
- More and more discussed: PV driven compression cooling

Installation 6

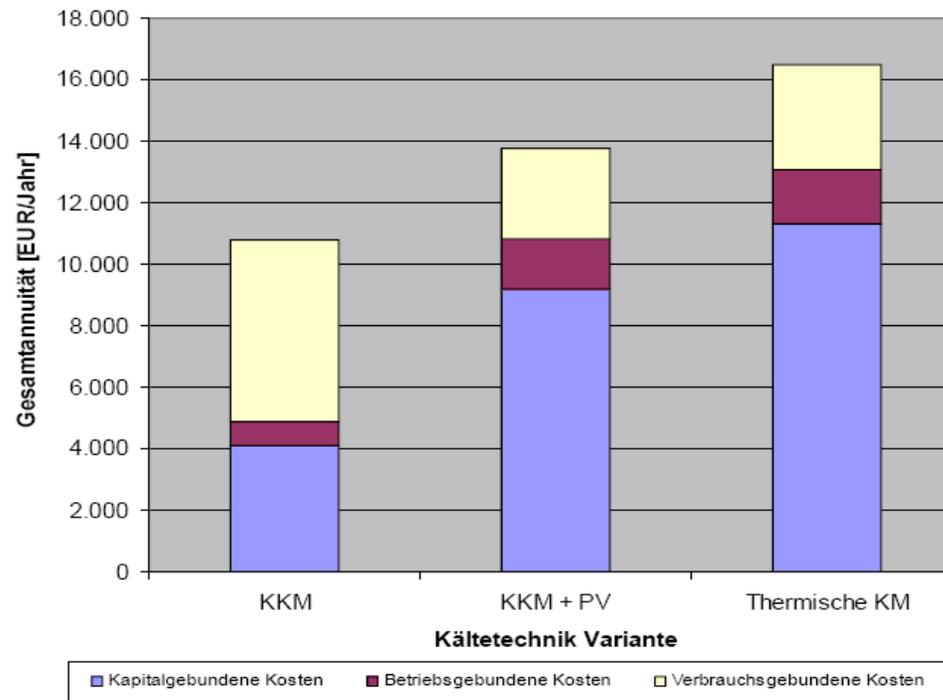
- Diploma thesis finished:
Comparison of an existing solar thermal air conditioning installation versus a projected PV driven compression air conditioning unit

- New factory building: Installation of a PV driven compression cooling system with the same cooling capacity is definitive for 2011

- Company applied for funding concerning dimensioning, engineering, monitoring and comparison of the systems

Installation 6

- Diploma thesis finished:
Comparison of an existing solar thermal air conditioning installation versus a projected PV driven compression air conditioning unit



- New factory system will be installed in 2011

- Company monitoring

compression cooling
for 2011

ing, engineering,