Solar air conditioning in Austria

Is Austria a cooling market?
Although the cooling demand in Austria can be currently met by passive measures it is expected that due to global warming,more heat-emitting electric appliances inside the buildings and a rising need for comfort,this market is expected to be a promising one for the future. (Biermayr et al,2014).

What are the main sources of energy in Austria?
Fossil fuelsare still the predominant source of energy for heating dwellings in Austria,although renewables are gaining on importance. Natural gas,oil and coal are used in nearly half of the dwellings. Renewables - biomass (20%),solar (1%) and heat pump systems (2%) - are covering about 23% of the heating demand. (Statistik Austria,2013).

How many heat pumps are there in Austria?
(Biermayr et al,2014). Assuming a technical lifetime of 20 years,there are currently about 210.000heat pumps in operation in Austria. In 2013,the majority of them is used in residential buildings for heating and DHW (around 60%),36% are implemented for hot water production only,the rest is used for ventilation or de-humidifcation.

What is the energy consumption of Austrian households?
The average energy consumption of the Austrian households for residential heating and air-conditioning in 2012 was 159 kWh/(m2a). Since 1990 the specific energy consumption in kWh/(m²a) of the households was continuously declining by nearly 30%.

Looking for an energy-efficient way to cool your home? Our guide to choosing the best solar air conditioner for you has everything you ...

Due to the special shape of the south facing facades, solar energy gains can be used in winter while in summer direct irradiation is kept away by opaque facade elements. A "Solar driven ...

a promising market for solar thermal applications. Depending on the temperature level of the needed heat, different types of solar thermal collectors are used - air collectors, ...

Solar energy is a solution that provides promising opportunities. It can be used in virtually all buildings to operate the cooling circuits and therefore to air-condition rooms. The ...

A best practice example is the subsidy for the realization of large solar thermal plants for solar process heat, solar integration in heating grids, high solar yield (min. 20% of the total energy ...

What are the Advantages of Using a Solar Powered Air Conditioner? Considering the high upfront costs that come with installing a solar ...

The IEA''s Solar Heating and Cooling program has been carrying out joint research activities in

the field of solar thermal energy since 1977. The focus is on the active and passive use of solar ...

Predicted increase of electricity consumption in Austria caused by air-conditioning of buildings in Austria (Haas, Biermayr, Kranzl, MÃ¼ller, & Schriefl, 2007) Solar thermal cooling ...

Efficient solar thermal systems with SOLID. Innovative solutions for heat, cooling and power generation and storage.

Solar energy is a solution that provides promising opportunities. It can be used in virtually all buildings to operate the cooling ...

Solar Air Conditioners - You find here 51 suppliers from Germany Switzerland and Austria. Please obtain more information on spare parts, servicing, maintenance, Repair, repair ...

Eberharter Installations-GmbH 6290 Mayrhofen, Austria 20-49 employees Air conditioning Gas installation Heating Measuring, control and regulation technology Sanitary Solar panels ...

Experience report on two different solar driven air-conditioning systems in Vienna/Austria based on monitoring data of summer 2009

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