

Sollektor

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Energy crunch!

- **> 25%** of electricity used in the USA, is estimated to be spent on lighting interior spaces during daylight hours (US Department of Energy EE-0315)
- Perhaps slightly varying % in other industrialised nations
- **What can we do?!**
- **Sollektor?!**

What is Sollektor?

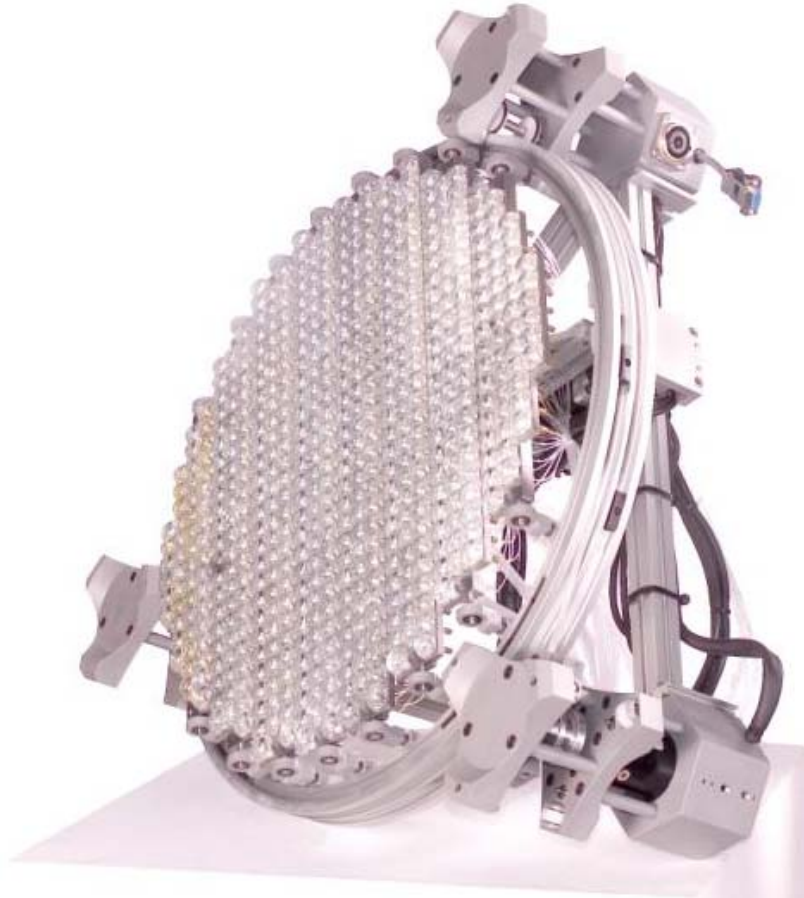
- Collector of natural daylight
- Transports this light to the interior of buildings

Benefits

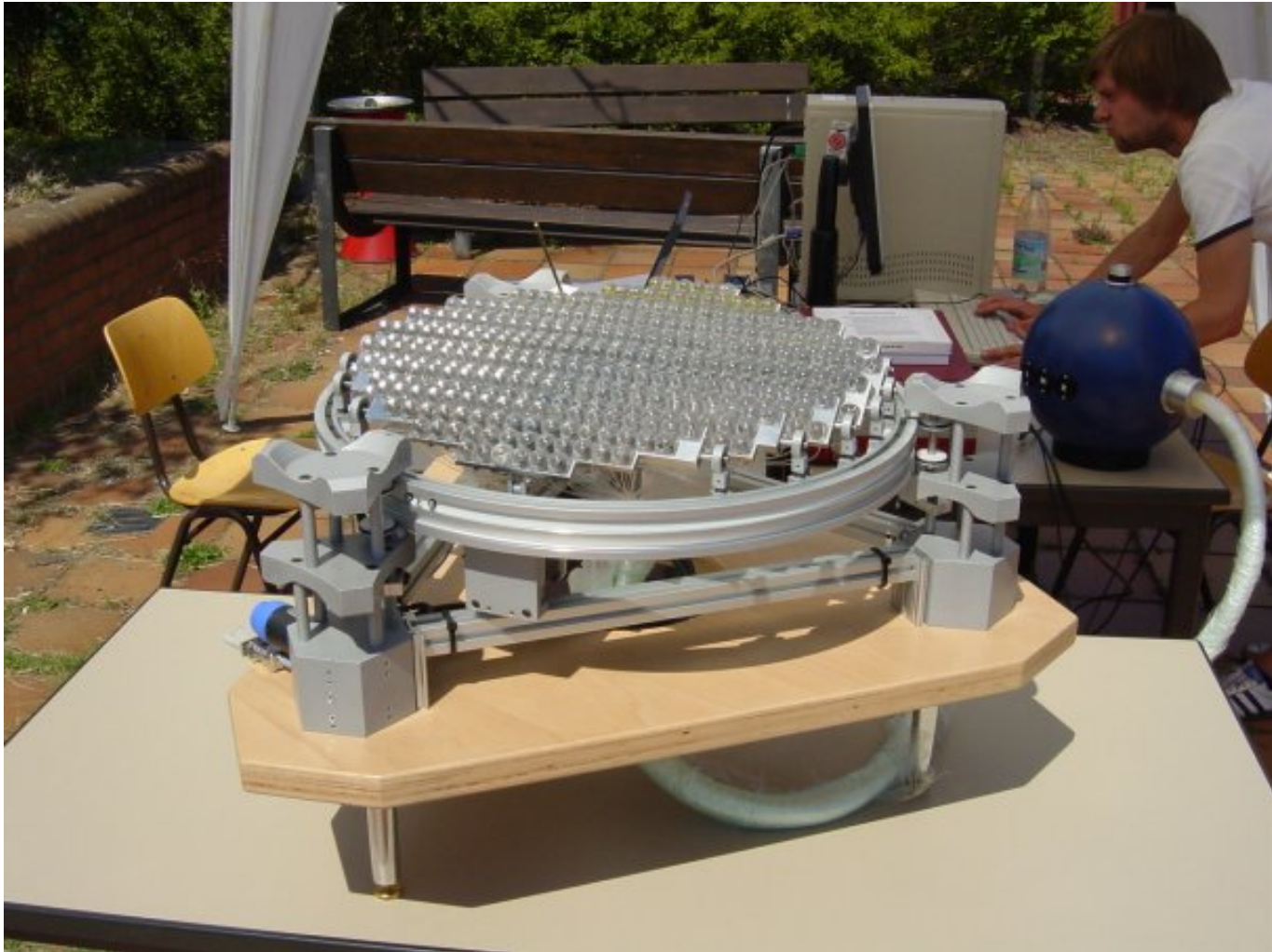
- Energy savings
- No additional heat
- Non polluting, eco-friendly
- Improved human well-being



Sollektor Euro-model



Sollektor Euro-model in test



German roof with Sollektor

Artist's impression



Staircase illumination (Berlin)



Decorative illumination



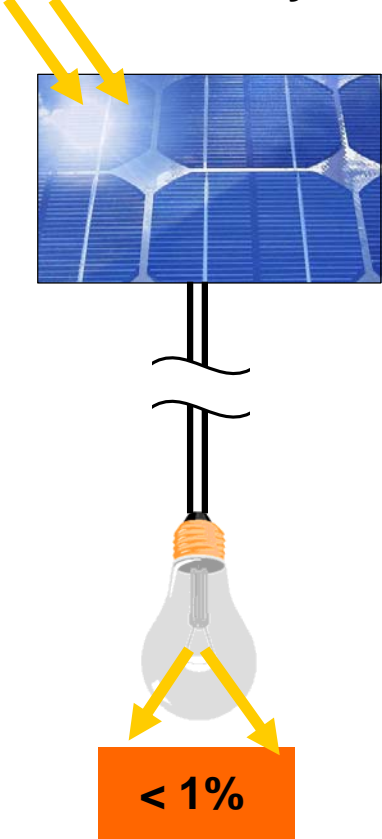
Advantages of Sollektor

Energy savings with Sollektor:

- Critical situation: Energy crunch in the midst of abundant solar energy
- Tackling solar light for interior illumination; save energy to support other critical requirements (e.g. manufacturing)
- Light without unwanted heat; saves cooling
- Localized, independent and self contained light source; continuous availability during sunny daytime
- Simple, risk & breakdown-free; no maintenance / bulb replacement costs
- Simple materials, easy construction and total recycle-ability
- High economic return

Efficiency comparison

Light → Electricity → Light



+ unwanted heat

Sollektor



+ natural light

Parameters of Sollektor:

- Only **1 m²** on bright sunny day replaces **30** standard **100 W** bulbs
- Light transport by plastic fibers and light guides
- Efficiency level **50x** higher than corresponding electrical alternative
- No electric hazards risks
- 100% guaranteed original daylight (colour temperature)
- Solar / electrical hybrid light fixtures possible
- Completely sunlight operated system design