SunOyster Systems GmbH Hamburg, Germany Discover how the SunOyster generates MORE solar energy Amelie Krahl

SunOyster combines the best of solar thermal power plants (CSP), CPV and PV



CSP Cheap mirrors Glass tubes for receiver



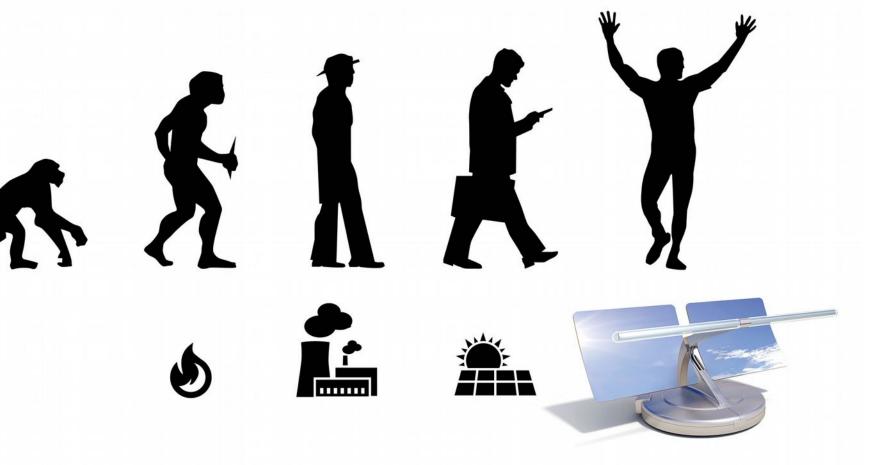
CPV Bi-axial tracking Concentrator cells



PV Modular Roof Installation Cost-efficient



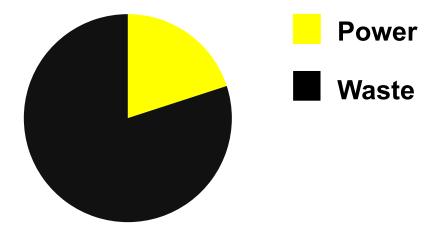
5 competitive advantages of the SunOyster



High total efficiency

Photovoltaics is good and cheap. The but problem remains: PV still wastes approx. 80% of the solar radiation





Solar Energy Balance

Therefore, generated PV electricity covers normally only a part of the total energy demand



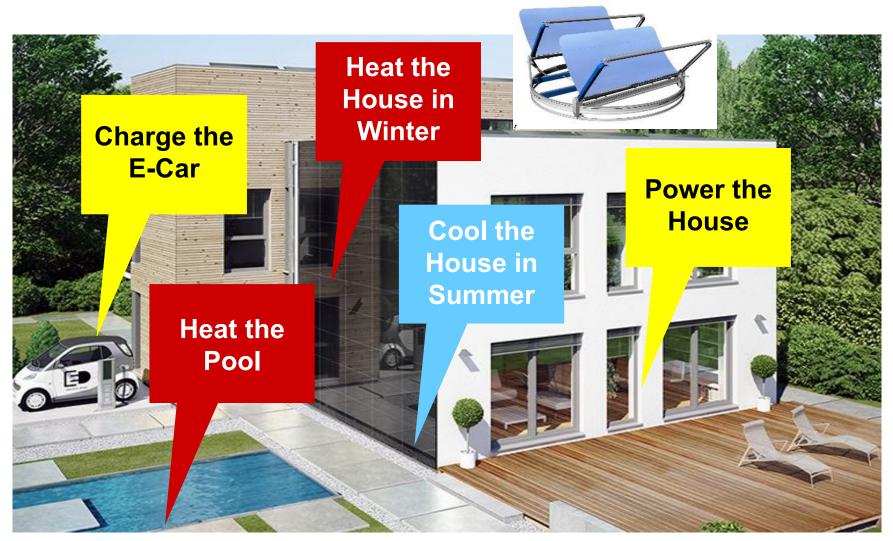
The solution: Double the Power! SunOyster converts almost 80% of the solar radiation into heat + power





Solar Energy Balance

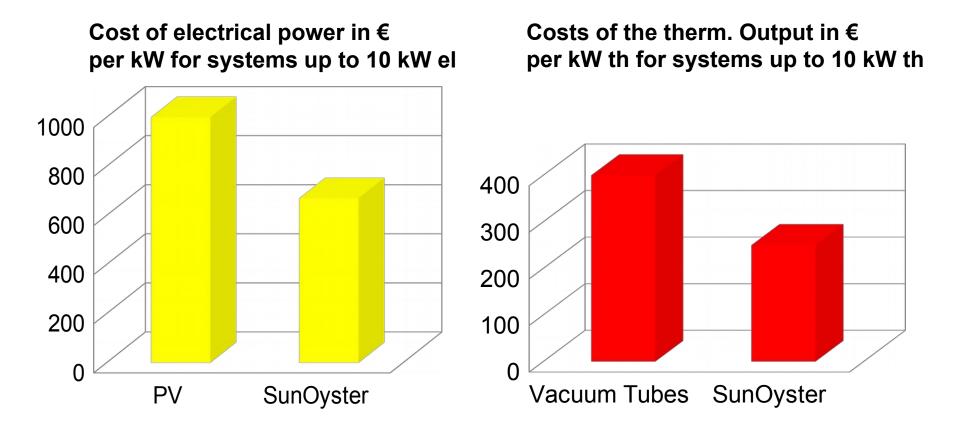
The SunOyster can cover the complete energy demand of power, heat and cold



Lowest Cost

2

Cheap energy, when heat or cold is needed (example: SunOyster 16 *hybrid* in Germany for series price of 5,000 euros) In sunny regions, the SunOyster wants to be the cheapest solar energy wherever heat (cold) are needed



Best Surface efficiency

3

16 m² of SunOyster mirrors from serial production shall generate up to 5 kW electric and 7.5 kW thermal power

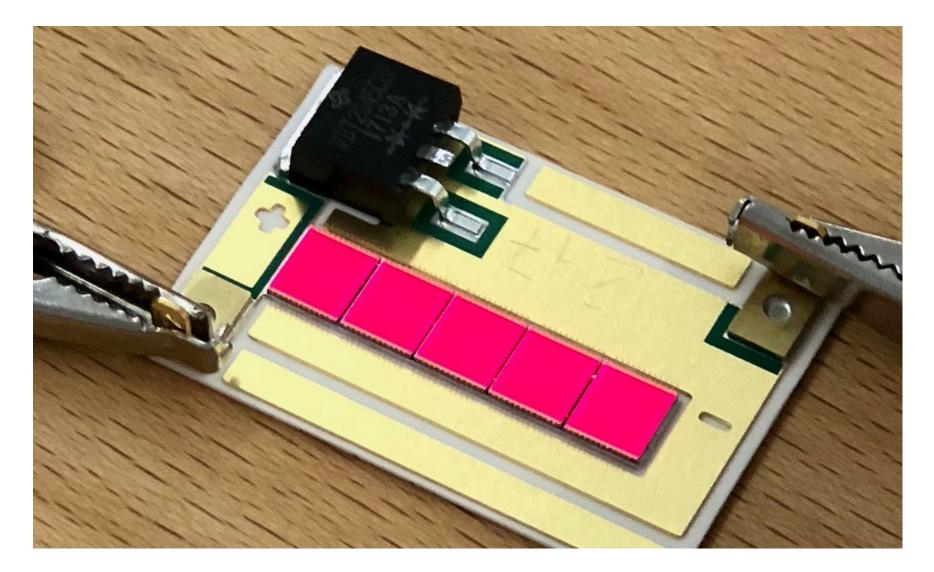
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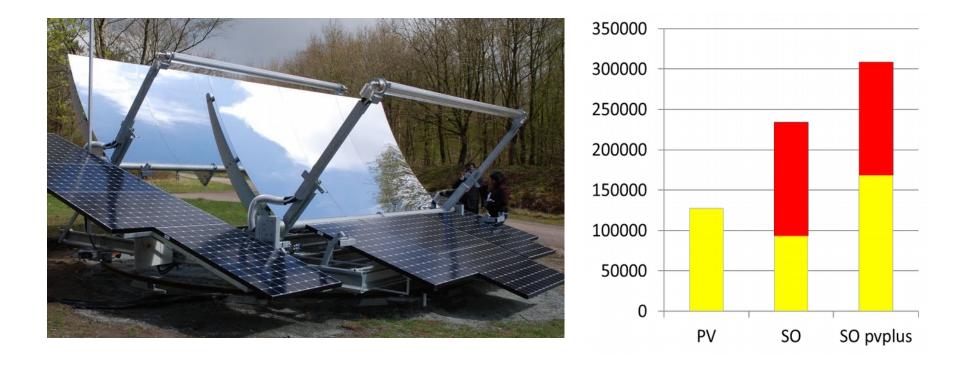
Deutsche Bundesstiftung Umwelt

16 m² mirror surface = 16 horse power (hp)

SunOyster cell assembly using space cells with highest efficiencies



SunOyster *pvplus* has 2.5 times the energy generation of normal photovoltaics (PV)



SunOyster.com

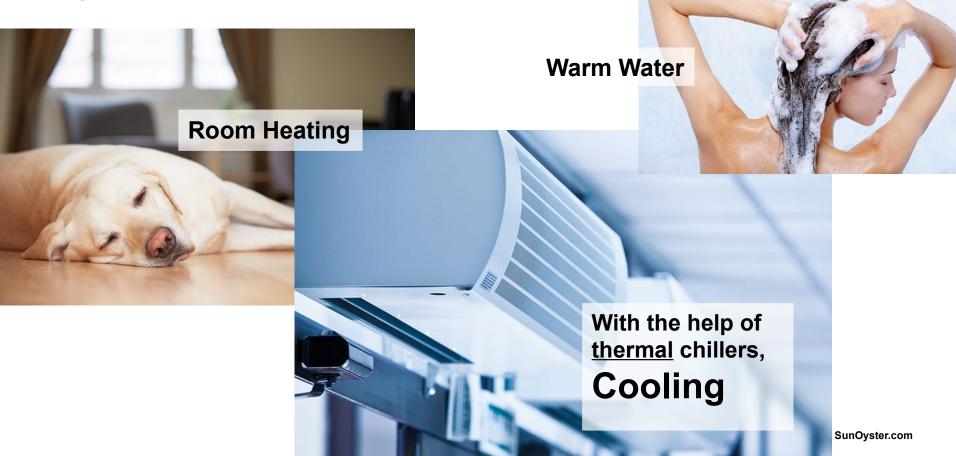
Heat Energy

Electric Energy



Manifold heat applications

The SunOyster can reach higher temperatures than conventional thermal collectors. Optimal use for hotels, offices or residencials, but also for all kinds of industrial applications and agriculture ...



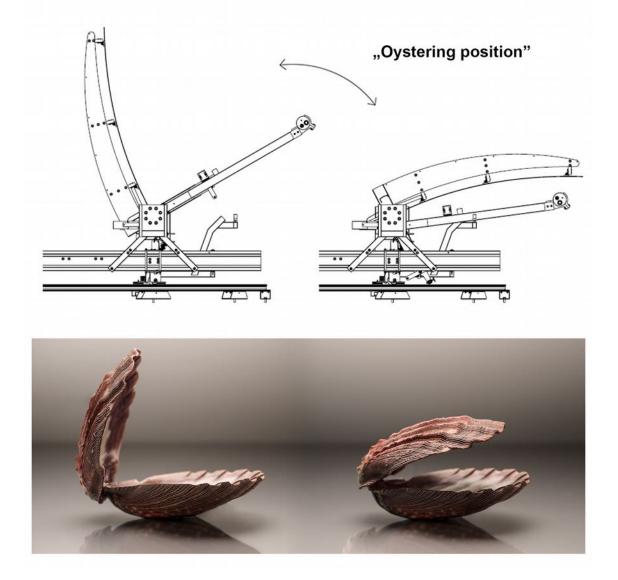
Manifold heat applications



Self protection, attractive design

5

SunOyster closes in case of strong wind into a safe position



In parallel, we build prototypes of our second product, the stylish **SunOyster 8**



SunOyster for the zoo & animal parc Nürnberg, Germany for heating the tropical house



Yaobao project for 100 SunOysters for steam generation for a pharmaceutical company in Taiyuan, China – postponed because of Covid-19 Amelie Krahl ak@sunoyster.com +49 4101 808767

Sunsyster

Danke! Thank you for your attention!

