

#### SunOyster Solar Technology – Double the Power

Carsten Corino, SunOyster Systems

















## The problem: Photovoltaics wastes approx. 80% of the solar radiation







**Solar Energy Balance** 



### The solution: The SunOysters total efficiency of up to 75%





Power Heat Waste

**Solar Energy Balance** 



# 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



The hybrid receiver of the SunOyster generates electricity and heat from serial production 5 KW el and 7.5 KW th

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### **Manifold heat applications**





# SunOyster cell assembly using space cells with highest efficiancy (44 % el)



#### **Green Tech Innovators Club**

Online monitoring and smartphone app

0.3.17

2.071

Electrical Energy Skinned

Electrical Power IKW

Time 14:59:45



GREEN

Therma

0

-7

O'

**TU** Graz

5

2.071

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-

Electrical Energy: 3 kWh/d

STEIERMARK

4

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8

6

4

-80

2

C770

2



### **1st advantage** The SunOyster generates on the same surface at least double the total energy as Photovoltaics





# <sup>2nd advantage</sup> The SunOyster offers smart packages for the complete energy demand of power, heat and cold





### **3rd advantage** SunOyster closes into a secure flat position like an oyster – hence its name







### 4th advantage Sophisticated design of the SunOyster 8



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#### Thank you for your attention!

Carsten Corino cc@sunoyster.com +49 4101 808767

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#### On a roof in Zhangjiakou, China

Sunøyster