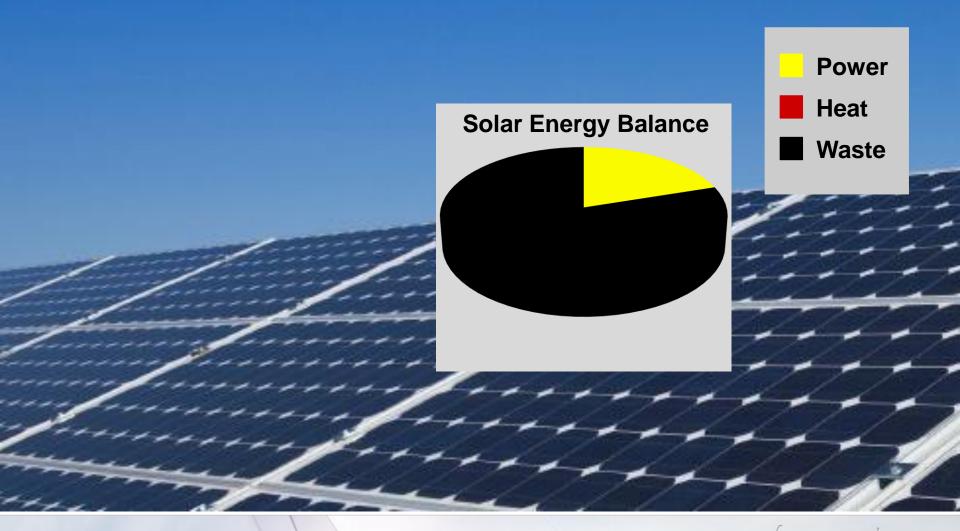


The problem: Photovoltaics (PV) wastes approx. 80% of the solar radiation

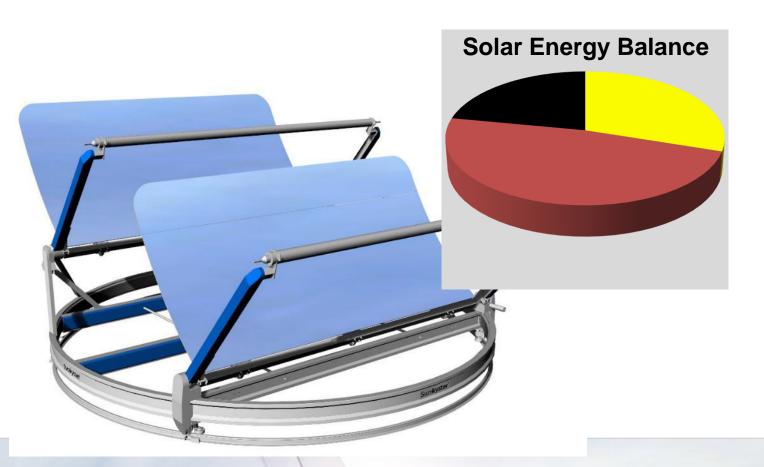


Generated PV electricity covers normally only a part of the total energy demand



The solution: Double the Power! SunOyster converts up to 75% of the solar radiation into heat

+ power



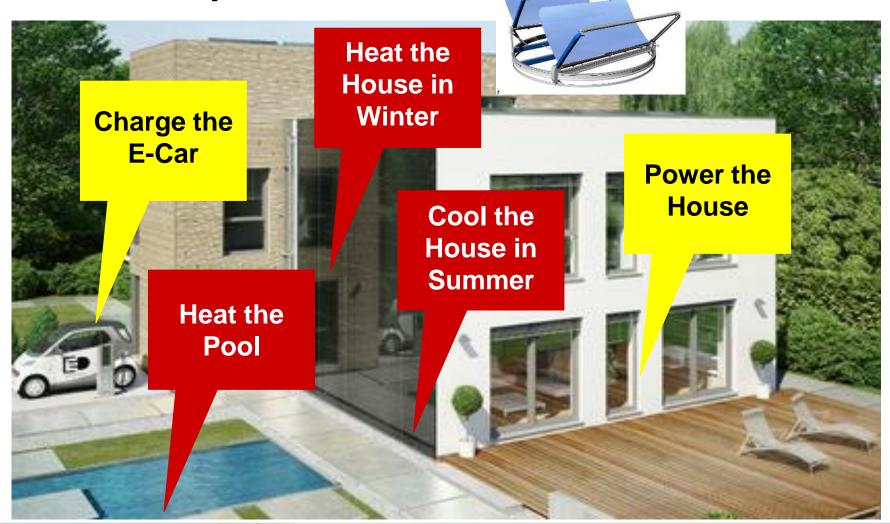


Power

Heat

Waste

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



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





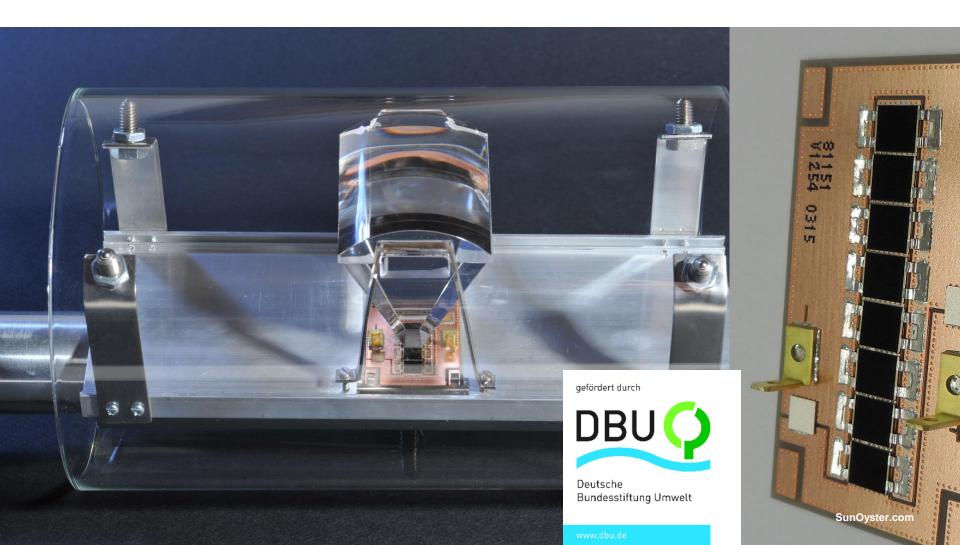
PV

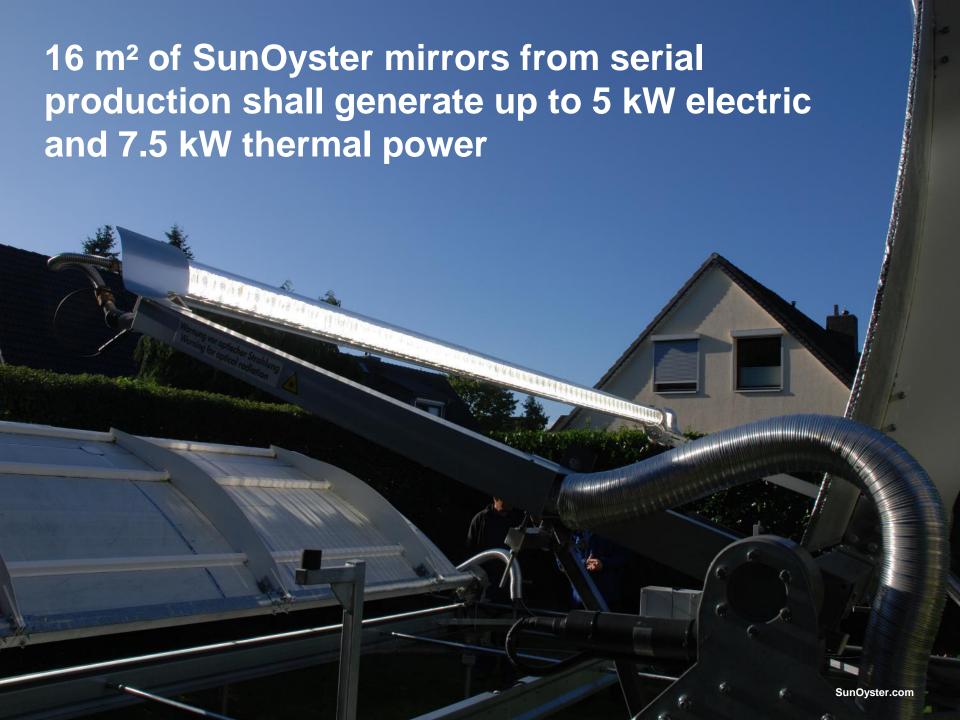
Modular
Roof Installation
Cost-efficient

SunOyster closes in case of storm into the flat and safe "Oystering" position



Heart of the SunOyster is the hybrid receiver with concentrator cells (44% electric cell efficiency)





16 m² mirror = 16 horsepower (hp)



Manifold heat applications



Warm Water

50°C - 70°C



Room Heating

25°C - 90°C



Desalination

25°C - 120°C



Process Heat

60°C - 170°C

up to 170°C Heat



Cooling

55°C - 170°C



ORC Machine

90°C - 170°C



(Storage)

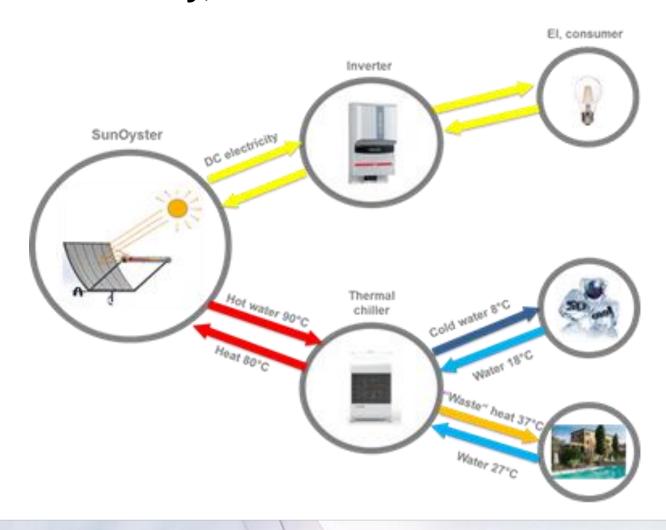
-30°C - 170°C



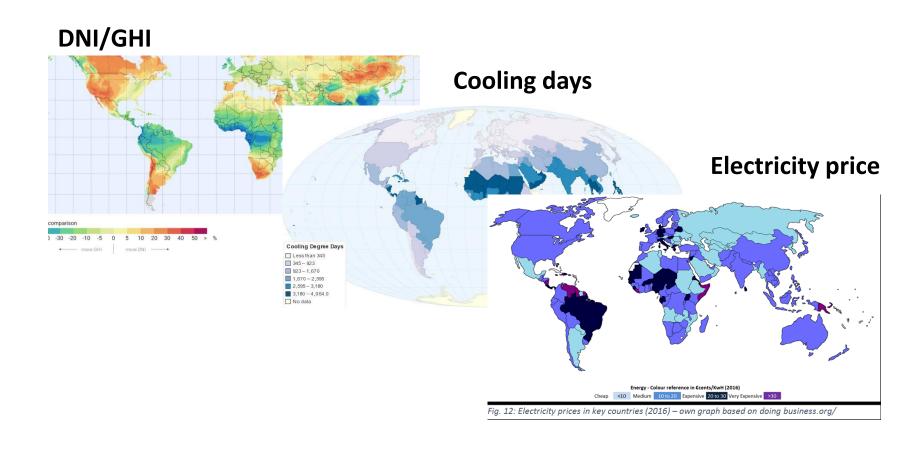
Pre-heating Steam Plants

100°C - 170°C

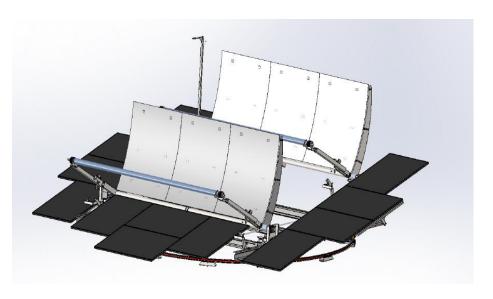
SunOyster is optimal for solar tri-generation of electricity, heat and cold

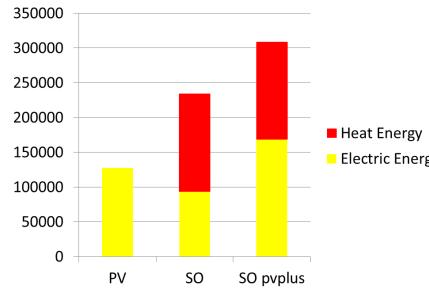


Italy and India turn out to be attractive markets after assessment of markets for tri-generation



CAD of SunOyster *pvplus* – Maximum surface efficiency harvesting 2.5 x the energy of PV





Cooling with the SunOyster – SOS receives renowned seven-digit Euro grant to develop solar cooling





Looking for partners, especially thermal chiller manufacturers with <10kW power

Has anyone current news from manufacturers of small scale thermal chillers? (Purix? SolabCool?)

Installation of first pre-series machine



SunOyster Team



Dr. Carsten Corino, Founder & GM



Amelie Krahl Marketing, PR



Dr. Johannes Kneer, Head Thermal



Stephan Ulrich, Workshop



Martin Düsing, CAD Expert



Roy Ehlers, Head Electrical

Thank you for your attention.

