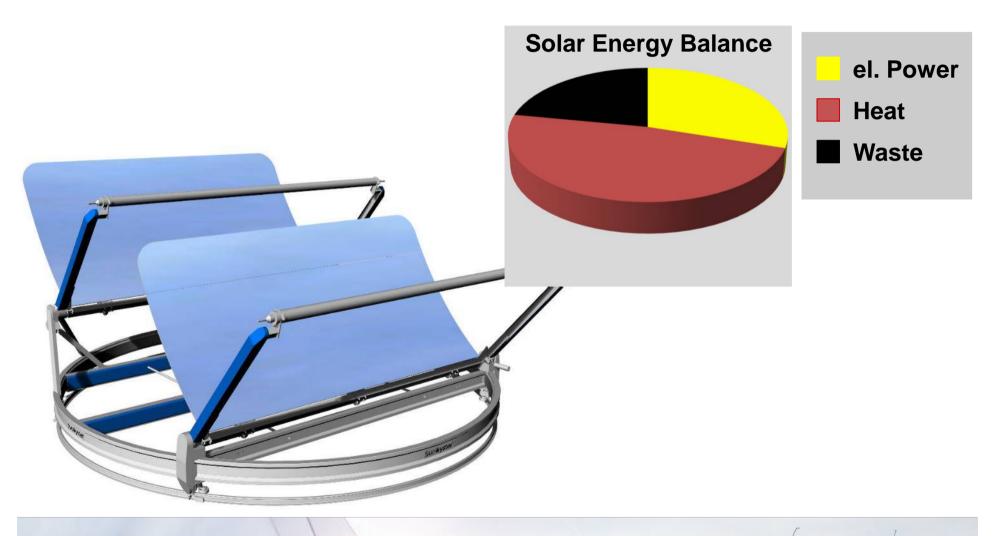
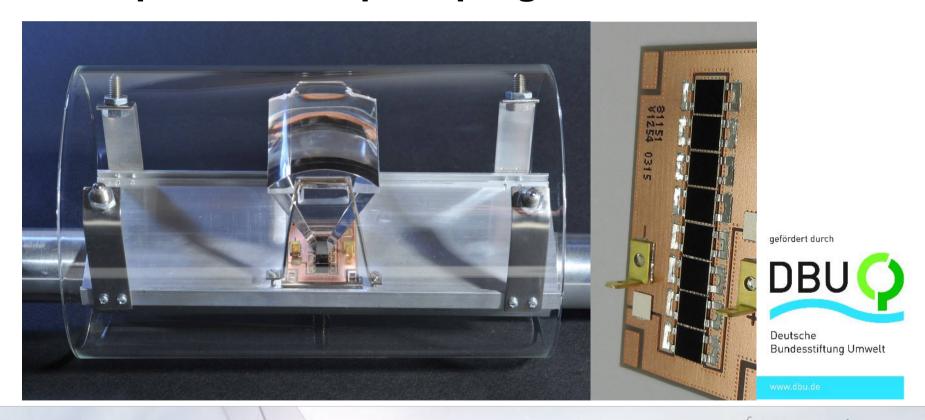


SunOyster converts up to 75% of the solar radiation into heat + el. power



We can generate 2 times as much electricity from a given area than standard voltaic panels.

We use highly efficient multi junction solar cells developed for the space program.



Focussing the sun generates a lot of heat, at a high temperature.

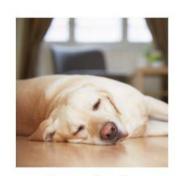


Water cooling produces hot water – a lot of it!

For every 1 kW of electricity, we also get 1.5kW of heat.



Warm Water



Room Heating 25°C – 90°C



Desalination 25°C - 120°C



Process Heat 60°C – 170°C

up to 170°C Heat



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)

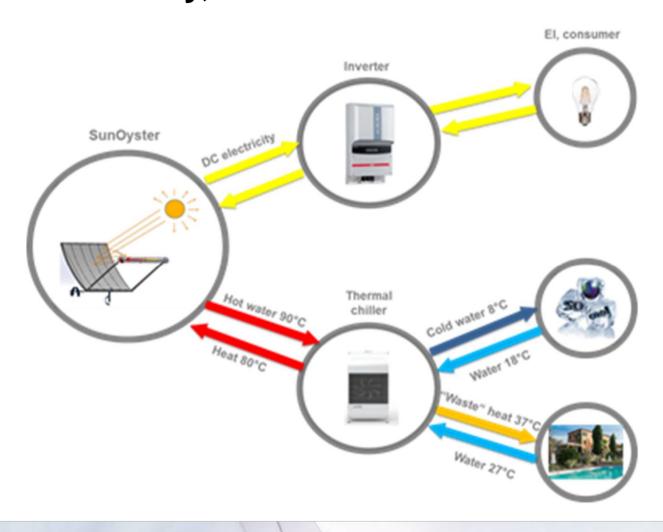
-30°C - 170°C



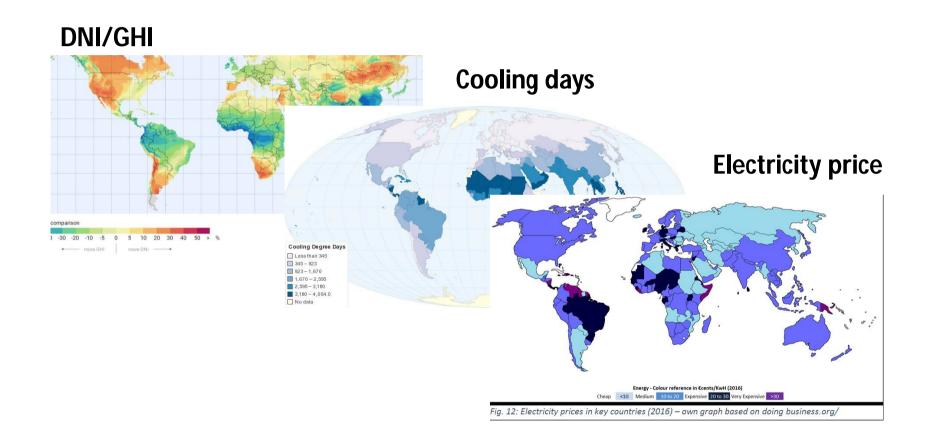
Pre-heating Steam Plants

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



Examples of attractive system combinations: house with pool – office building – hotel

SunOyster Package	P1 House with pool	P2 Office building	P3 Hotel
No. of SunOysters		7x 💮	24x
Picture of chiller	A COLOR		

Criterion	P1 House with pool		P2 Office building		P3 Hotel		
	Conv.	PV el	SOcool	Conv. Ref.	SOcool	Conv. Ref.	SOcool
kWh el [Ct]	24.3	8.0	7.1	21.9	7.7	21.1	7.6
kWh heat Ct	17.2	17.2	5.4	14.1	10.3	12.6	2.9
kWh el or sol. cold Ct	16.6	12.8	15.8	9.9	10.2	5.9	4.9
kWh th fossil cold Ct	1.			18.7		15.6	
IRR [%]	-	27.6	37.2	-	36.8	-	38.7
Proj payback [a]	-	4.9	5.1	-	5.5	-	5.3
Equity payb. [a]	-	1.5	1.5	=	1.6	-	1.6

SunOyster tri-generation "SOcool" granted and kicked-off



Program	EU SME Instrument Phase 2
Topics	Solar cooling Heat from SunOyster coupled to thermal chillers
Grant	Over 1 million euro
Work packages	Pilot production, testing and certification, demo projects - hotel, office, house, Ramping up production, PR
Duration	24 months
Afterwards	Phase 3: Facilitation of mass roll- out

SunOyster Team



Dr. Carsten Corino, Founder & GM



Matthew Laws, CTO



Amelie Krahl Marketing, PR



Johannes Kneer, Head Thermal



Stephan Ulrich, Workshop



Martin Düsing, CAD Expert



Roy Ehlers, Head Electrical

