



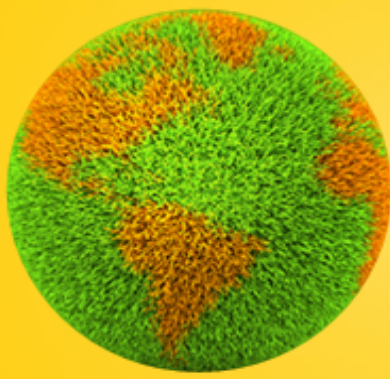
**„ We parabolizing
the sun
in the center -**



**for your emissions
free process! „**

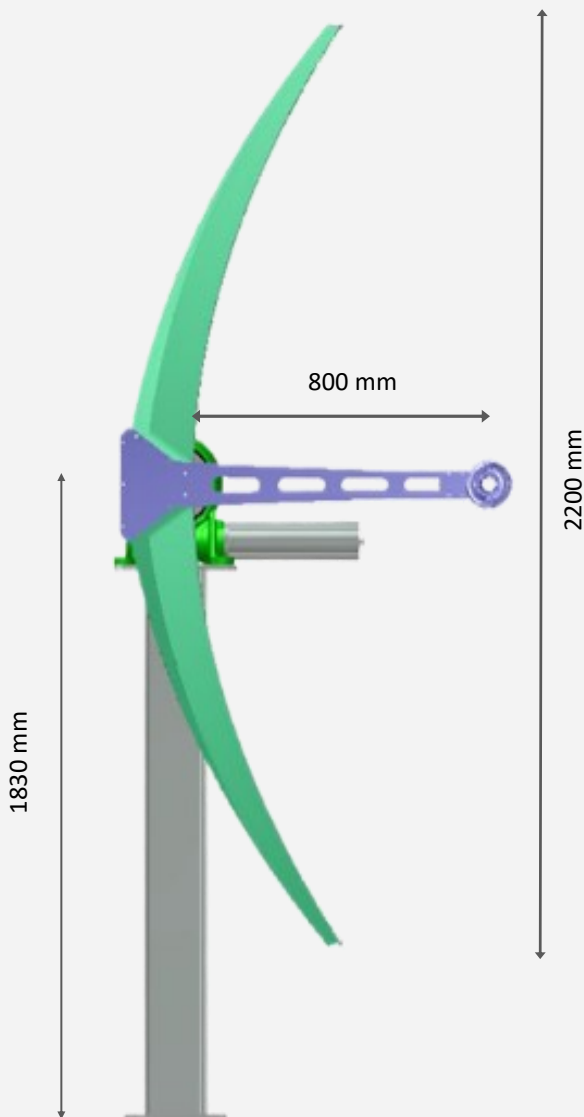
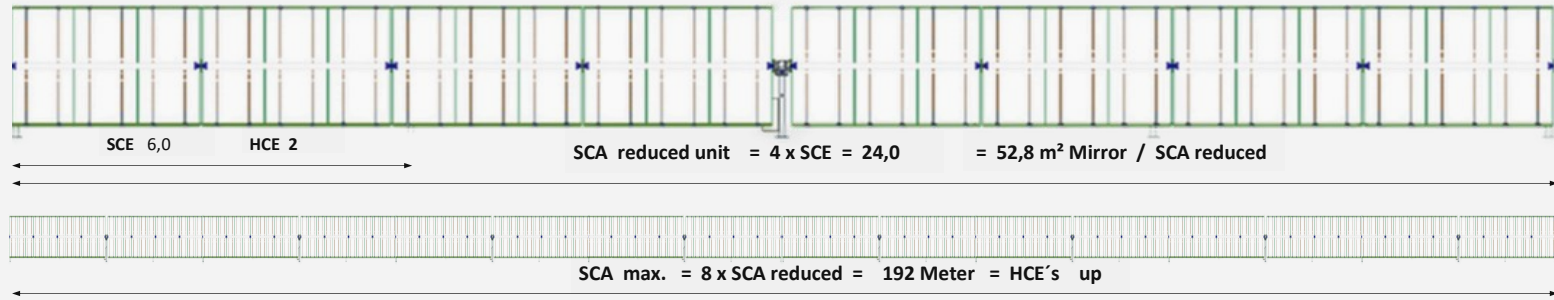


Solarmirrortec is a product group of - www.imkgmbh.at



"SMT³ CSP collector data"

solar
mirrortec



Weight	Kg
SCE (6,0 Meter)	290 kg
SCA reduced unit (24 Meter)	1160 kg
SCA max. (8 x SCA reduced unit = 192 Meter)	9,2 to.
support per SCE	2
support per SCA max.	8
Vertical load per support	232 kg
Parameter	
Focal length	0,8 m
Average distance to focus	0,85 m
Aperature width	2,2 m
Aperature width-net	2,08 m
Heat Element (HCE) diameter	40 to 70 mm
Rim angle	70°
Concentrating ratio	60
Aperature area net per SCE	13,20 m²
Aperature area per 2 HCE	0,24 m²
Aperature area per SCE incl. HCE	13,20 m²
Aperature area per reduced unit CSP Collector (SCA)	51,92 m²
SCE length	6,0 m
SCA length reduced unit	24,0 m
SCA largest length	192,0 m
Number of HCE's per SCE	2
Number of HCE's per SCA reduced unit	8
Number of HCE's per SCA max.	64
Number of SCE's per SCA max.	48
Number of Mirrors per SCE	6
Number of Mirrors per SCA reduced unit	24
Number of Mirrors per SCA max.	192
Number of SCA max. per Loop	8
Number of SCE per Loop	32
Aperature area per Loop	52,8 to 422 m²
Loop length max.	192,0 m
Stow Position	180°
Maintenance or cleaning position (Parameter)	90—180°
Rotation angle	180°
Max. angle east	90°
Max. angle west	270°
Operation wind speed / 2 min	
Transient wind speed / 10 sec.	25 m/s
survival wind speed on storm pos. at 180°	30m/s
Reflector type, Mirror tempered glass	S=2,0mm
Heat collection Element type DM 70	HEMS_70
Heat collection Element type DM_40	Seido 6_40
Optical efficiency	85%
Thermal efficiency	DNI dependent

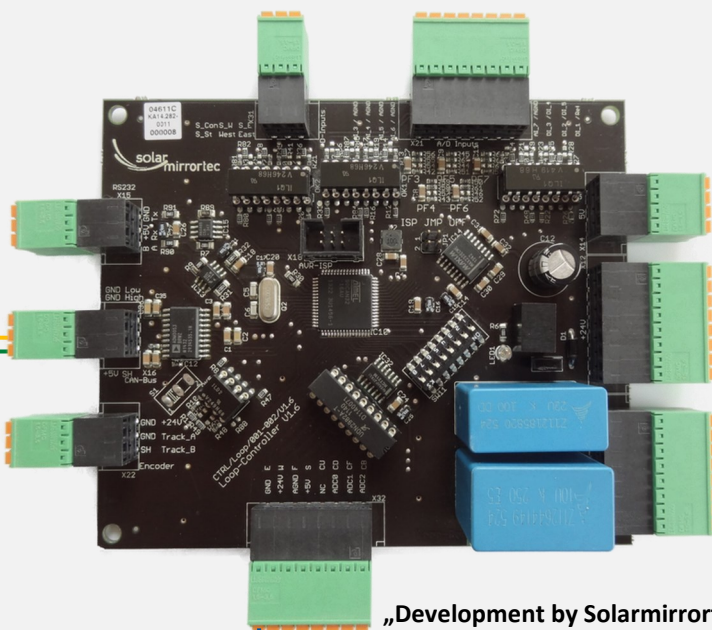


“The astronomical solar pacemaker SMT with numerous additional functions for CSP-CPV and PV collector systems”



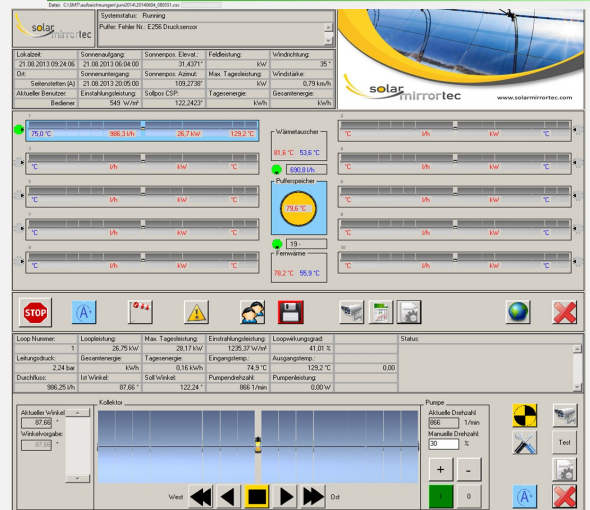
CANBus

SMT board with astronomical control of the collector loop and solar field control with data storage and graphical evaluation!



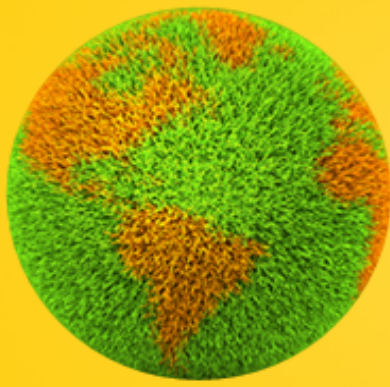
„Development by Solarmirrortec“

Integrated evaluation of the collector and loop data recordings



SMT user interface with up to 64 adjustable loops per SMT board





**“New CSP component technologie and recycling concepts
with a global Marketing strategy will
Sustainably reduce the CO2 footprint”**



Plastic recycling - the future raw material!

In 2020, 25.7 million tonnes of polypropylene were processed worldwide using injection moulding. The plastics industry uses the rapid injection moulding process for polypropylene in particular, especially for the production of large numbers of identical and high-precision components. This results in high-quality plastic waste that is utilised through recycling processes and conserves natural resources as re-cycle. The amount of plastic waste will continue to increase, which is why it will flow back into production even more extensively via the circular economy in the future!



Climate action is also possible with new technologies and global business models!

We can help to reduce plastic waste and strengthen the circular economy without compromising on the quality to our CSP collector support structure! Short cycle times, stackable components, low weight and small transport volumes with up to 800 components in a 20 foot container will reduce the global carbon footprint even for smaller projects.

Tooling licences and Solarmirrortec expertise are available for global customers. Local production will be rewarded with lower transport and component costs. The business model for the new CSP technology is now available globally through qualified partners, suppliers or project organisers.

