

PINDustrial TECHnologies 2018 Innovative Industries for Smart Growth

INDTECH2018 Innovative industries for smart growth

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Session 3.2

How to accelerate disruptive innovation in SMEs supporting them to promote consistent innovation and international growth

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HELIOVIS

Inflatable Solar Collectors

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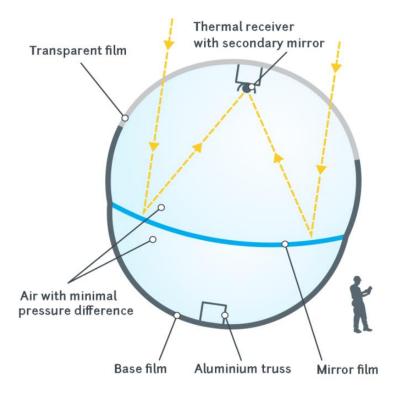






What is the HELIOtube?





- An inflatable solar thermal collector made from 3 types of plastics
- The sun collector is formed through air pressure differences in two airtight chambers
- Works same as glass-mirror based parabolic trough technologies by concentrating sunlight on a thermal receiver and produces heat
- Dimensions:

Length: 220 meters Diameter: 9 meters Mirror width: 7.8 meters

Unique advantages:

Material & structure Enclosed Thermal Receiver Production line & production process Transport & logistics Installation & on-site activities Adaptive wind & sand storm protection O&M activities

From prototype over pilot to commercial readiness

Constant R&D, improvements and fine-tuning since 2009



Prototype in Austria (2011)



Demonstration plant in Austria (2016)



Pilot system in Spain (2013)



Industrial application in Spain (2016)





First industrial application in Spain







8 Weeks

Construction Period with only 10 to 20 engineers simultaneously onsite

1 MW

Peak power thermal is the output of the HELIOtube plant



44 kWp

Photovoltaic tracker used as an adaptive wind protection system



1.900 DNI

Agricultural landscape in Villalgordo del Jucar close to Albacete in Southern Spain





