





Supplying Solar Heat

A solar concentrator from 100 kWh_{th} to 10 MWh_{th} supplying hot air at high temperature





Sun beams are reflected by mirrors towards a receiver trough which air is circulating.





Clean, dry and hygienized hot air in the 150-350°C range at atmospheric pressure is distributed to heat **storage** or **user process**



Optimal for drying and **deshydratation** processes







Cogeneration of steam, cold, electricity, hot water is possible due to high temperatures



Solar energy available 24h/24 with integrated HELIO STORE heat storage



100% automated control

Simple and safe

> No severe safety regulations with hot air

Sustainable

DATA SHEET

- Air at 250°C 25 kg air for 1 kWh, produced
- Peak power 650 kW_{sh} for 1000 m² mirrors
- Annual yield from 400 to 950 kWh,,/m²/year
- Avoided carbon emission up to 200kg CO₂/m²/year



Giving value to waste heat

A Thermal Energy Storage from 1 to 100MWh_{th} into natural Pebble Bed to preserve environment



Heat storage inside the rock bed

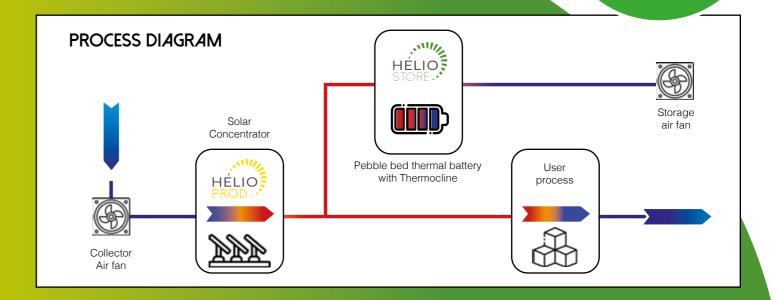
Excellent yield for recovered heat due to high transfer surface of the granular media

DATA SHEET

- Natural or recycled materials: Limestone, granite, basalt for a stored heat density up to 300 kWh, /m³
- Storage temperature range: **150-600°C** for exhausts / fumes up to 1000°C
- Storage duration: 1 hour to 10 days
- Yield of recovered heat: **95-75%**

High heat conservation capacity due to air insulating nature

> Stable and high temperature level for recovered heat due to **Thermocline** technology











ADAPTED TO YOUR ACTIVITY









A COMPLETE SUPPORT

Investing in solar energy and heat storage offers a green and reliable future IDHELIO will support your transition project from design to funding (Subsidies, Corporate Power Purchase Agreement) commissioning and operation





Turnkey solutions



Set up & Services



Research & Developpement



Financial Engineering

^{*}Photovoltaïc electricity thermal storage.