



# Energy

## Solar device to produce heat for industrial processes or for storage

### CONTACT

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### Technology's description

This innovation consists in a solar beam collector device associated with a **parabolic heliostat** with a **plane mirror** sensibly configured "beam-down" The device offers a concentration of the intense solar heat energy nearby and very close to a receptor (hot point of use) which is located underneath. Furthermore for specific thermal needs, an **over-concentrating device** can be added without any compromise: temperatures over 500 °C and thermal powers of 20 kW can easily be produced and exploited.

Consequently, the **foot-print** and **height** of the system are extremely reduced. The device can settle down on the roofs of buildings, factories or sheds and the hot spot can actually be used **indoor**. Furthermore, the solar concentration is directed vertically inside the building and is **adapted** to numerous energy-consuming **industrial processes**. The **risk to be exposed is minimized**. Indeed, the set-up is isolated (rooftop) and confined directly above the point of use (hot-spot) on the indoor side (receptor). The recovered solar energy can be directly used to feed an industrial process and/or be stored by the industry, including **off-grid** areas.

### Advantages

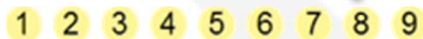
- **Optimized design:** horizontal / vertical", rooftop installation & indoor use of the hot-spot
- **Flexibility:** adaptation to a wide variety of industrial processes & many building configurations
- **Small foot-print;** safety is increased.

### Intellectual property

Patent

### Development level

System prototype demonstration in operational environment



### Applications

- Process feeding: pyrolysis – pyrogasification – drying- pre-heating - thermal shield testing.

### Technology transfer

- Licence - Know-how
- Co-development

