



# HELIOS ENERGY EUROPE S.L

## HELIENE

*"WE CAN'T CHANGE THE SUN BUT WE CAN  
MAKE IT **MORE EFFICIENT**"*

# 1. HELIENE, The Company

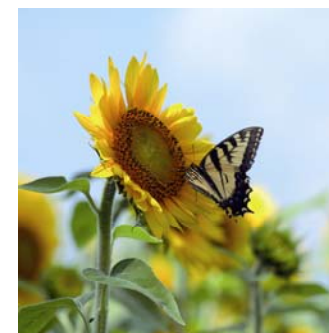
---



**HELIENE**  
PHOTOVOLTAIC  
MODULES

**Helienne** dedicates to the manufacture of high efficiency photovoltaic modules (initially from 200Wp to 260 Wp) as well as upper middle class, both addressed to investors and professional installers for industrial buildings, roofs of individuals or solar panel fields.

The company scope covers worldwide market being already present with different factories in Spain (Headquarters), Canada, USA, France, Italy and office for distribution in Holland, for Benelux market with a logistic center located in Wetteren (Belgium).



## 2. HELIENE Experience

---

**22 years** of automation process experience, mainly in the pharmaceutical automobile industry, which gave way to enter into the photovoltaic industry as a manufacturer of lines for photovoltaic module production

**1997** First equipment designed for solar industry.

**2004** Designs first tabber stringer and turn key PV platform.

**2007** Helios Energy Europe S.L. PV module manufacturer start its activity.

**2009** Begins global growth strategy.

**2010** 25MWp produced in Badalona factory.

**2010** Expands to Canadian and North American markets.

**2011** Expands to French and Italian market.

***“15 years of PV manufacturing experience”***

---



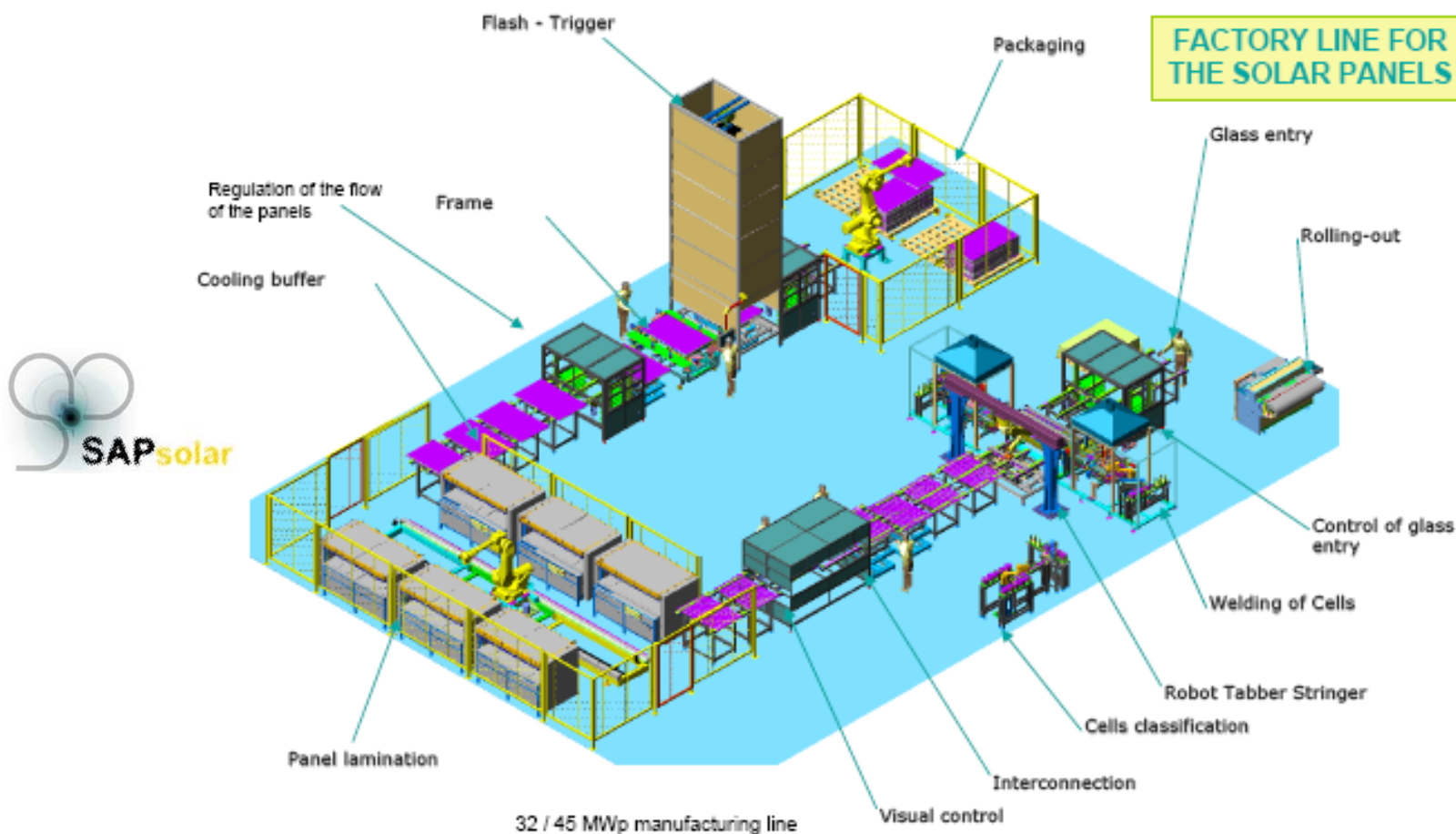
**HELIENE**  
PHOTOVOLTAIC  
MODULES



### 3. HELIENE Automated Manufacturing Line

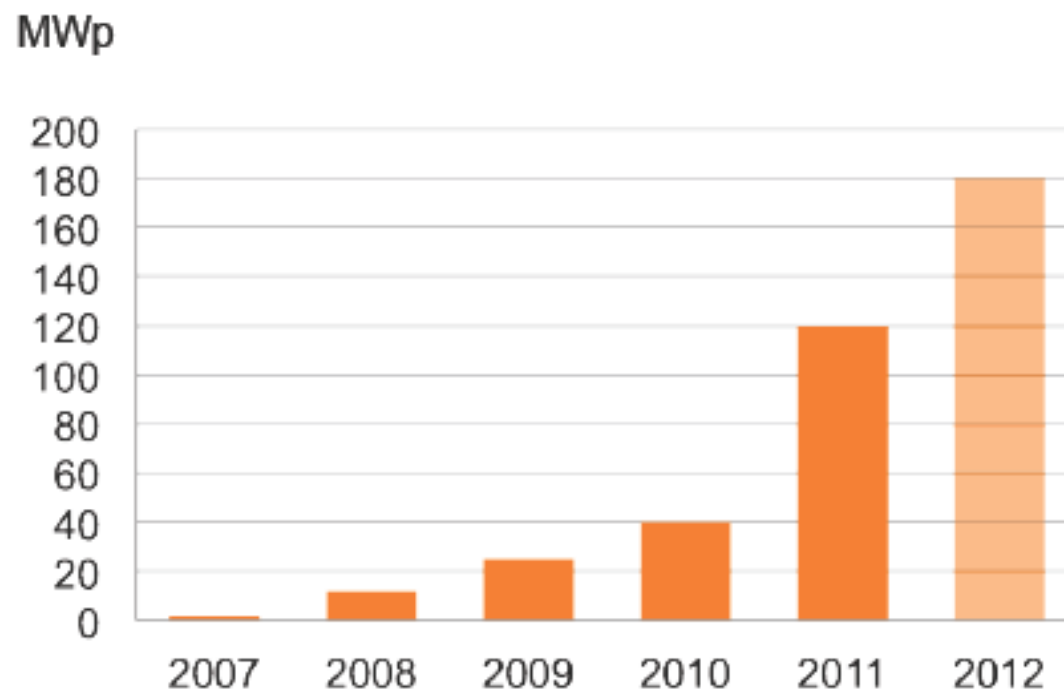


**HELIENE**  
PHOTOVOLTAIC  
MODULES



## 4. HELIENE Manufacturing capacity

---



## 5. HELIENE ALLIANCE

---



*“WE MANUFACTURE HIGH QUALITY MODULES, CLOSER TO OUR CUSTOMERS”*

- **HELIOS ENERGY EUROPE S.L** – Badalona – **Spain**
- **HELIENE INC** – Sault Ste. Marie – Ontario, **Canada**
- **HELIOS SOLAR WORKS** – Milwaukee – Wisconsin, **USA**
- **TOURNAIRE SOLAIRE ENERGIE** – Pegomas, **France**
- **HELIENE BENELUX** – Pijnacker – **The Netherlands**
- **HELIENE VALLOMBROSA** – Bologna - **Italy**

## 5. HELIENE ALLIANCE

---

### HELIENE Inc.

HELIENE Inc is a 50 % owned by HELIOS ENERGY EUROPE SL and 50 % owned by local partners.

In December 2009 HELIENE INC becomes the second member of Helene Alliance located in Sault Ste Marie – ONTARIO.

HELIENE Inc ordered in April 2010 its first SAP Solar manufacturing line with 32 MWp year capacity.

HELIENE Inc produces its first modules from second half of year 2010.

HELIENE Inc modules have the domestic component compulsory for ONTARIO's feed in tariff program, further to CSA listed in mid of July 2010

The building has enough under roof space for a second manufacturing line, as well as available land space for a 3rd line.





## 5. HELIENE ALLIANCE

---

### HELIOS SOLAR WORKS



**HELIOS SOLAR WORKS** LLC is 33 % owned by HELIOS ENERGY EUROPE SL 33 % owned by entrepreneur partners and 30 % owned by capital investors.

**HELIOS SOLAR WORKS** ordered In June 2010 its first SAP Solar manufacturing line with 32 MWp year capacity.



The building has capacity for three manufacturing lines and holds a roofing space for an up to 600 kWp solar system visible from the main Milwaukee downtown and highway area.

**HELIOS SOLAR WORKS** produced its first modules at the end of 2010.

**HELIOS SOLAR WORKS** modules have the made in America stamp. Supply pre-agreements have been signed with main engineering companies, local utilities and State authorities.



Modules are UL listed and CEC approved from mid of July 2010 on.



## 5. HELIENE ALLIANCE

---

### TOURNAIRE SOLAIRE ENERGIE - HELIENE

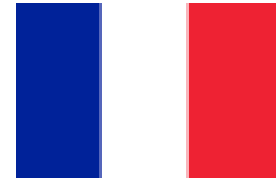
**TSE** started as a sales office in Toulouse in June 2009 operated by AES Energies.

**TSE** is owned 30 % by HELIOS ENERGY EUROPE SL and 70 % by Local Investors.

**TSE** initiated the construction of its 32MWp/year PV module factory in Grasse (Provence region) at the end of year 2010.

**TSE** supplies to the French market as well as to the Oversea French speaking markets.

Modules are IEC listed and CSTB for building integration approval has been processed.



## 5. HELIENE ALLIANCE

---

### HELIENE BENELUX



HELIENE Benelux started as a sales office sited in Picknajcker NL in March 2009 and operates also in Germany and Eastern Europe.

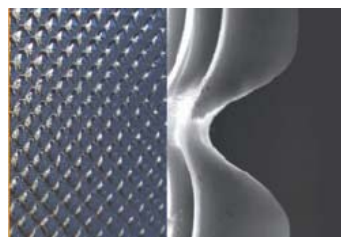
HELIENE Benelux distributes “just in time” modules through its Logistics Center in Wetteren, Belgium.



## 6. HELIENE PRODUCTS



Heliene's modules are manufactured with high efficiency monocrystalline and polycrystalline cells designed and manufactured by industry leading suppliers. The photovoltaic textured glass of high optical transmission and diffuse light collection, as well as 3 Bar Bus system provides an homogeneous aesthetic combined with a wide range of powers. The double reinforced anodized aluminium frame makes a rigid structure to install the module on any application, whether residential or large ground mounted facilities



PYRAMIDAL  
GLASS (optional)



TEXTURED  
GLASS



HIGH  
EFFICIENCY



FULL BLACK  
(optional)



1.20m CABLE



3 BUS BAR



4 mm GLASS



RESISTANCE TO  
RAIN AND SNOW



LOW RADIATION  
CONDITION



60 CELLS



10 YEARS  
WARRANTY PRODUCT



MAXIMUM STRENGTH  
RESISTANCE 5.400 Pa



## 6. HELIENE QUALITY

---



**HELIENE**  
PHOTOVOLTAIC  
MODULES



IEC 61215  
IEC 61730



TÜV Certification, guaranteeing the maximum quality of our photovoltaic modules.



MCS United Kingdom

Which makes its PV modules suitable for any photovoltaic installation to be carried out in the United Kingdom.



UL 1703  
ULC/ORD-C 1703-01

Certifying that our models comply with all fire regulations for electrical equipment.



ISO9001

Quality management system certification



ISO14001

Environmental management system certification



OSHAS 18001

Healthy and Safety management system certification

## 6. HELIENE QUALITY

---



EC Declaration of  
Conformity (CE Mark)

Guaranteeing that our products are suitable for the European market.



Certificate of origin.  
Factory inspection

Certifies that our modules are manufactured in Europe .



Members of CERES

Collection and recycling of photovoltaic modules that have reached the end of their useful life, thereby reducing the environmental impact

## 7. HELIENE Projects

---



Convention Center Toronto CANADA 185 kWp  
Monocrystalline modules 245 Wp



Psychology university building MADRID 58 kWp  
Monocrystalline modules 240 Wp





## 7. HELIENE Projects

---



Almadén Ciudad Real SPAIN 37 kWp  
Monocrystalline modules 245 Wp



Almodovar del Campo Ciudad Real SPAIN 22 kWp  
Monocrystalline modules 245 Wp





## 7. HELIENE Projects

---



Solar park "Los Arcos" Navarra, SPAIN  
2,8 MW



Solar park "Valhermoso" Cuenca, SPAIN  
1,1 MW



## 7. HELIENE Projects

---



Solar park Caramagna, Piamonte, ITALY 604 kWp  
Monocrystalline modules 240 Wp



Rivolta d'Adala, Cremona, ITALY 18 kWp  
Monocrystalline modules 250 Wp



## 7. HELIENE Projects

---



Schmölln, GERMANY 1,2 MW  
Monocrystalline modules 245 Wp



## 8. MALMESBURY SOLAR PARK

---



### 5 MW SOLAR PARK IN MALMESBURY, ENGLAND



**Project Developer:** Sunstroom Energies

**Project Location:** Malmesbury, United Kingdom

**Project Size:** 5 MW

**Heliene Modules:** ~ 20,000 - HELIENE 60M - 245Wp Modules



## 8. MALMESBURY SOLAR PARK



**HELIENE**  
PHOTOVOLTAIC  
MODULES



## 8. MALMESBURY SOLAR PARK

---



**HELIENE**  
PHOTOVOLTAIC  
MODULES





**HELIENE**  
PHOTOVOLTAIC  
MODULES

# THANK YOU