



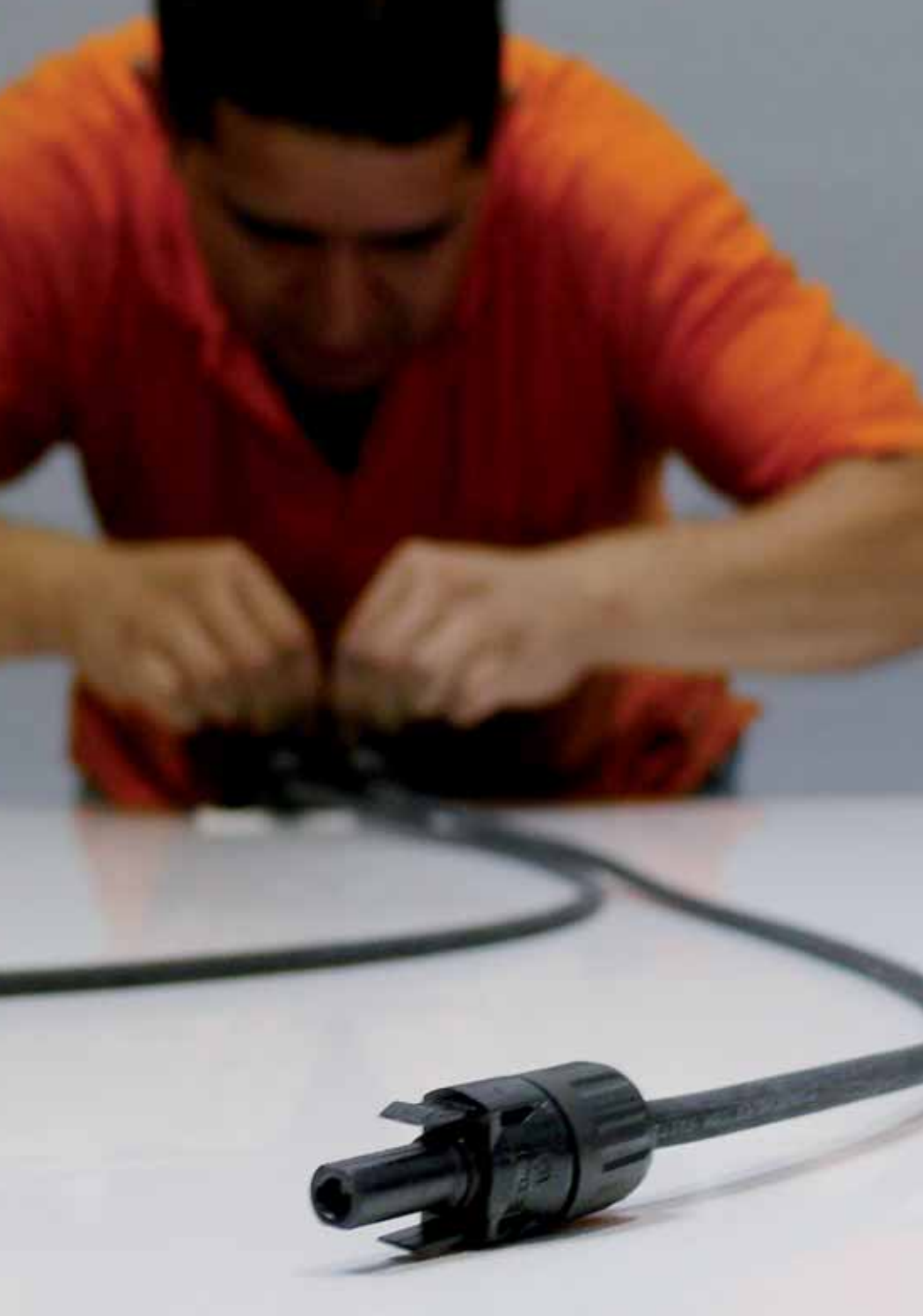
HELIENE

PHOTOVOLTAIC
MODULES



PROFESSIONAL PHOTOVOLTAIC MODULES

Production, Service, Quality and Innovation



Connecting to clean energy

The extension of our quality system with the **ISO 14000**, begun with **9001**, must be carried out through the **EFQM (European Foundation for Quality Management)**, which will mean the results will benefit society with a totally sustainable management regarding our manufacturing processes.

Our product, photovoltaic modules, is clean and totally renewable energy. The result of our long-lasting vocation to adapt manufacturing processes to environmental stability.

Heliene, the company

Heliene dedicates to the manufacture of photovoltaic modules of high power (initially from 200 to 250 Wp) and range or upper middle class in benefits, whose clients are companies or industrialists installers of photovoltaic energy; with suppliers at world-wide level and expectation of commercialization in Catalonia, Spain, Europe and rest of the world, like markets finally extended.

Global vision

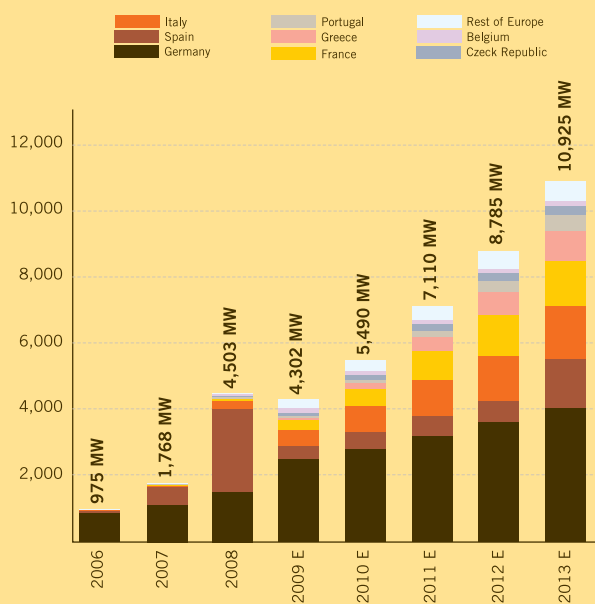
Working with suppliers at global level. Its competitive frame based on a product with innovation in benefits of high efficiency energetics, good price, discharge quality of finished and to good communication and information to the installer or/and promoter of photovoltaic parks.

Horizons

From a business point of view, the generation of value is the goal of our activity. Value for clients, value for the company, shareholders and employees. For the success of our operations, we consider four factors as indispensable:

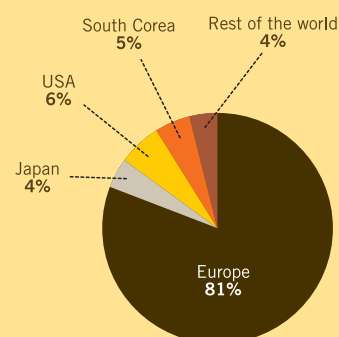
Productivity, Service, Quality and Innovation.

EUROPEAN ANNUAL PV MARKET OUTLOOK
UNTIL 2013 (POLICY-DRIVEN SCENARIO)

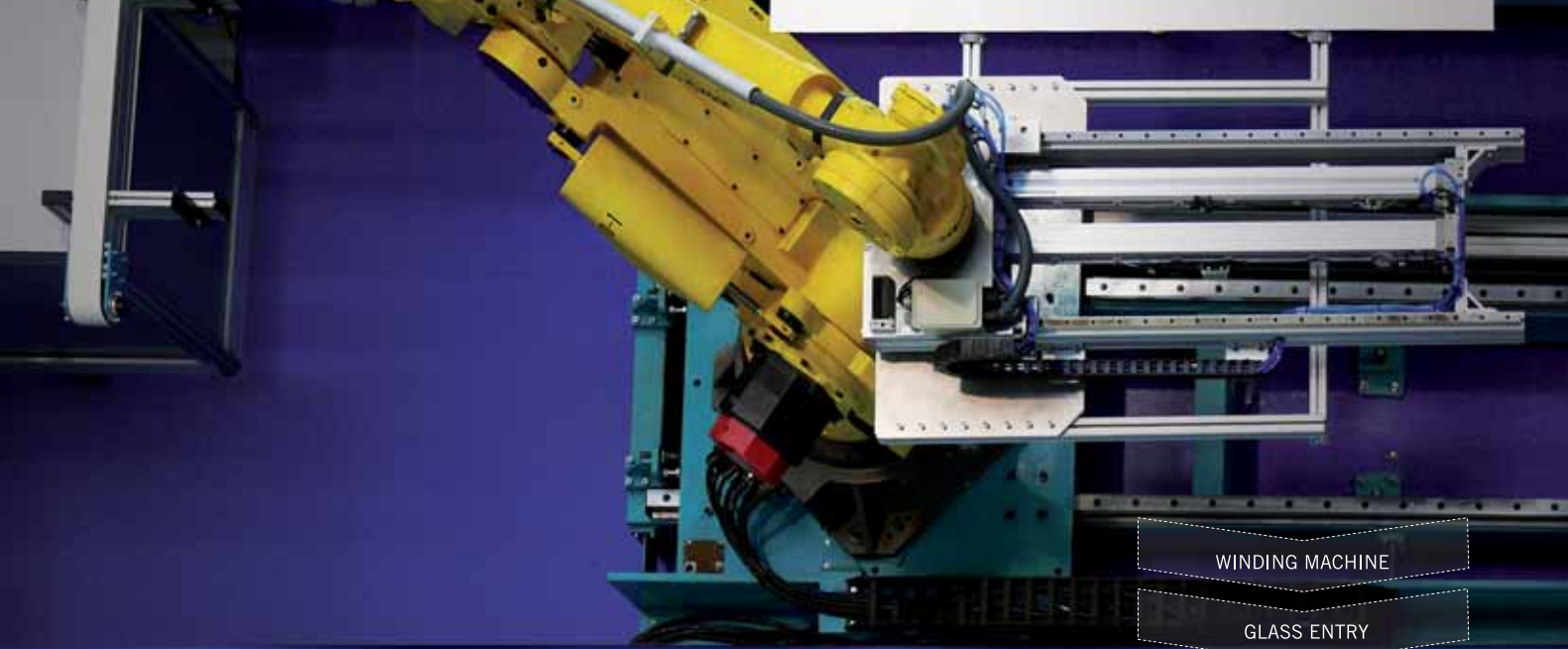


Source: EPIA

REGIONAL DISTRIBUTION
OF GLOBAL ANNUAL PV MARKET
IN 2008



Source: EPIA



A highly efficient production system

The search for competitiveness in all markets, has led us to design and invest in a manufacturing process with a high degree of automation that enables its effective amortization. Secondly, maintaining the production line is the determining factor to guarantee this capacity continues in time. We have in application phase: corrective maintenance, preventive maintenance and predictive maintenance.

This model is based on the **TPM (Total Productive Maintenance)** approach, enabling as well as encouraging an involvement of the entire workforce in the productive process. Its application enables quantification by means of performance rate, shift activity, lines, process phases and posts.

WINDING MACHINE

GLASS ENTRY

CELL CLASSIFICATION

CELL SOLDERING

ROBOT TABBERS STRINGERS

INTERCONNECTION

VISUAL CONTROL

PANEL LAMINATION

COOLING AREA

MODULE BUFFER

FRAMING

FLASH - TRIGGER

MODULE PALLETISING



HEE215M



PRODUCT DESCRIPTION

Category: monocrystalline

MODULE SIZE

Length x width: 1680 mm x 990 mm
Area: 1,66 m²
Thickness: 40 mm
Weight: 24 kg

OUTPUT CLASSES

SM 215M:	250 Wp
SM 215M:	245 Wp
SM 215M:	240 Wp
SM 215M:	235 Wp
SM 215M:	230 Wp
SM 215M:	225 Wp

HEE210U



PRODUCT DESCRIPTION

Category: multicrystalline textured

MODULE SIZE

Length x width: 1680 mm x 990 mm
Area: 1,66 m²
Thickness: 40 mm
Weight: 24 kg

OUTPUT CLASSES

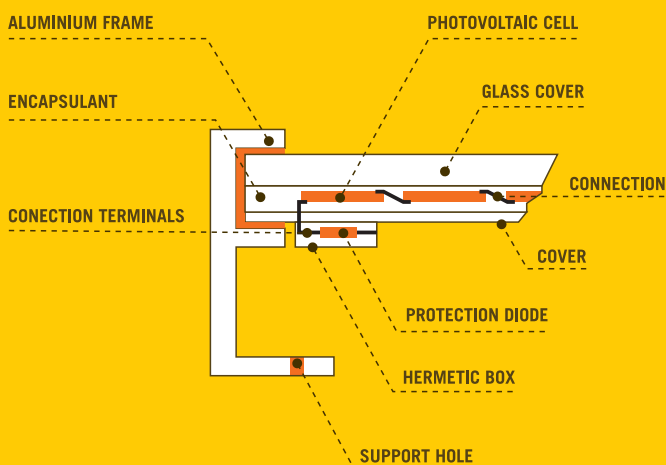
SM 210U:	230 Wp
SM 210U:	225 Wp
SM 210U:	220 Wp
SM 210U:	215 Wp
SM 210U:	210 Wp
SM 210U:	205 Wp
SM 210U:	200 Wp

High-performance professional photovoltaic modules

The new HELIENE HEE215M and HEE210U solar modules series assemble last generation monocrystalline and multicrystalline solar cells designed and manufactured in Germany by Sunways as well as other sector's top manufacturers. Their absorber surface and the innovative **3 BUS BARS** provide an aesthetic good look and higher power output. Different power rates class allow designers to adjust power needs in every project with the highest flexibility.



Flash test



The modules

The modules manufactured by Helios Energy Europe, HELIENE, only incorporate integrated high efficiency solar cells making possible to obtain a solar maximum yield. A 4 mm solar transparent glass and a 40 mm aluminium frame guarantee the best resistance and reliability. **High power modules with maximum efficiency and differential positive tolerance allow to obtain the highest energy production in any project.**



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