

Presentazione di

AMTRADE HOLDING AG

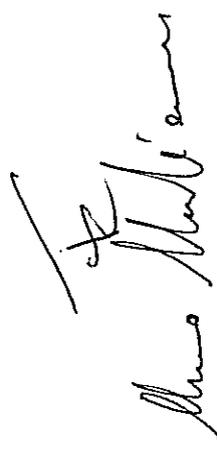
Correggio, 22 maggio 2013


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Attività

AMTRADE Holding AG, viene costituita in ottobre 2012 con l'obiettivo di fungere da madre di un gruppo di aziende costituite e costituende attive nel settore delle energie rinnovabili.

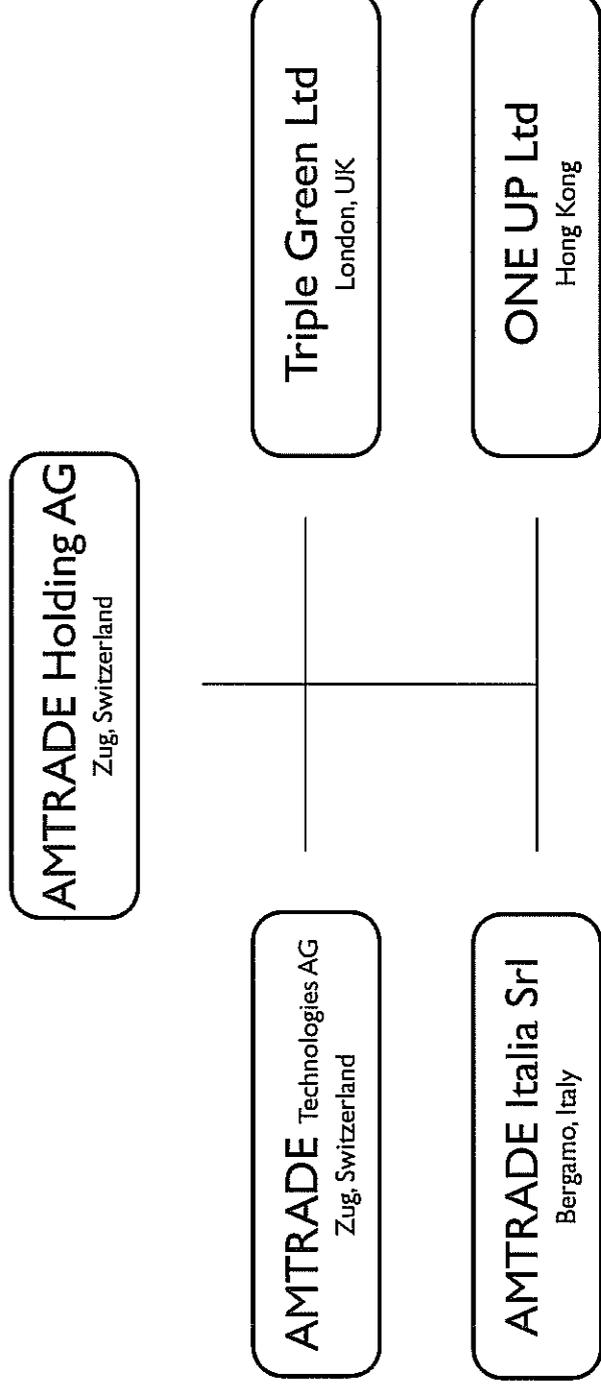
Il raggio d'azione del gruppo è previsto a livello globale.

Gli investitori sono, per ora, tutti privati.

Dalla data della costituzione al 31.03.13, la società è stata capitalizzata con un importo totale di CHF125Mio ed è previsto un aumento della stessa entro fine 2013 fino a CHF500Mio.

La società ha come obiettivo principale la creazione di strutture produttive secondo lo schema BOT in collaborazione e per conto di operatori parastatali del settore energetico.

Struttura





Senior executive with many years of worldwide experience in planning, organizing, directing, leading and controlling operations, with an excellent network all over

Professional Experience:

2013 – Present: C-Holding Participations AG – Zug (CH) Vice-President

2012 – Present: APA Holding AG – Zug (CH) President

2012 - Present: AMTRADE Holding AG – Zug (CH) President

2012 – Present: Amtrade Italia srl Bergamo (Italy) President

2012 - Present: Harvest International AG, Zug (CH) Member of the Board

2009 – Present ABB Consenec Ltd. Baden (CH) Senior Executive Consultant worldwide

1995 – 2009 ABB Switzerland Ltd. Switzerland

Senior Vice President; Member of the Executive Committee; Head President's Office
Worldwide Business Development, Export Promotion and Public Affairs

More than 35 years internationality within ABB Group, served in various executive (strategic and operational) positions in different countries in Europe, Central Asia, South East Asia, Gulf Countries and The Americas.

Long business experience worldwide:

- Build up markets and local organizations
- Marketing, Sales, M&A
- Strategic development and implementation
- Acquisition and divestment projects
- Project Management
- Global network with Governments, decision makers, financial institutions (MDB's)

Personal Data: Born in Merano/BZ 11.02.1949

Education:

University of Karlsruhe, Germany (Dr.-Ing.)

Universidad Mayor de San Marcos Lima / Peru (PhD)

Foreign Languages:

German, Spanish, Italian, English; Portuguese; French basic; Good understanding in Russian

Others:

- President of the Latinamerican Chamber of Commerce
- Vice President of the Chinese Chamber of Commerce
- Vice President of the Central Eastern Chamber of Commerce
- Former President of the Italian Chamber of Commerce, Member of the Board (CDA)
- Board Director of the German Chamber of Commerce
- Board Director of the Indian Chamber of Commerce

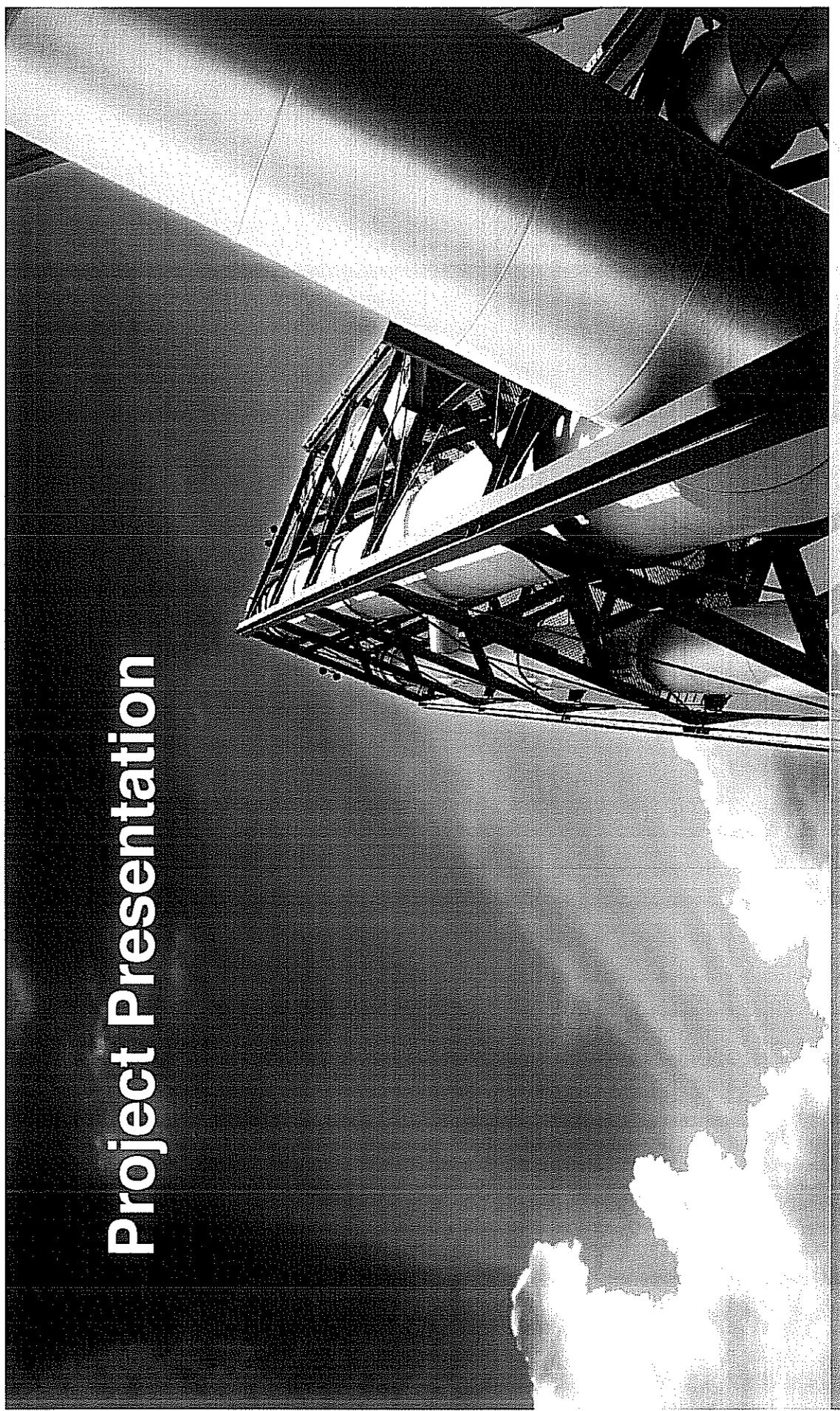
Awards:

- Commander of the Order Rio Branco by President of Brazil 2002
- Cavaliere / Ufficiale del Lavoro by Italian President 2012

Project Presentation

TRIPLGREEN
INSPIRATION FOR GREEN TECHNOLOGIES

Amtracode
Holding AG



Company Mission

The Mission

- Our mission is to provide opportunities for new green technologies. Using innovative design methods we can produce an integrated, fully automated and highly exportable model to the largest number of countries possible.
- Improve standards in the PV manufacturing processes and equipment. Our innovative module addresses some of the problems afflicting today's products: Improving heat resistance, durability, module/component yield and recyclability will increase commercial product performance and reliability.
- The company intends operating within the manufacturing sector to produce a new generation solar module using our in house engineered technology and a specifically dedicated production line. It's a versatile system to adapt in-time with the market. Both module and production processes are protected by filed patent applications.

Company Objectives

The objectives

Build The factory

- To build a highly automated PV module production factory with a manufacturing capacity of 120MW/yr. by employing state-of-the-art, in-house engineered equipment, the assembly line will cover the entire process from the production of cells from silicon to the manufacturing of glass plates from sand by the end of 2013. The manufacturing capacity of the factory can be customized. 120MW/yr. is the standard factory size, larger capacities can be conveniently realized. The cost/MW decreases accordingly with higher capacities.

The sales

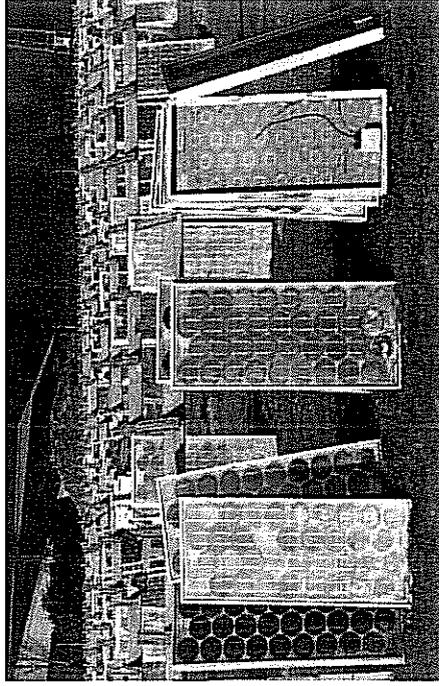
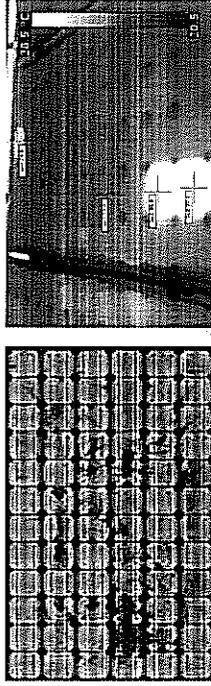
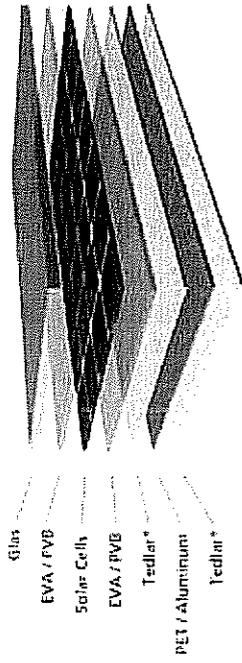
- To concentrate sales in those geographical areas where our product's particular qualities, as opposed to those of competitors, are most evident in order to reach a sales target of 120MW/yr. by 2014.

Funding

- To obtain the necessary funding for building the factory and an in-house R&D laboratory to maintain high levels of production and equipment innovation. The R&D laboratory will also conduct the necessary field tests to demonstrate the validity of its innovations.

The Product

Current market situation



The standard module

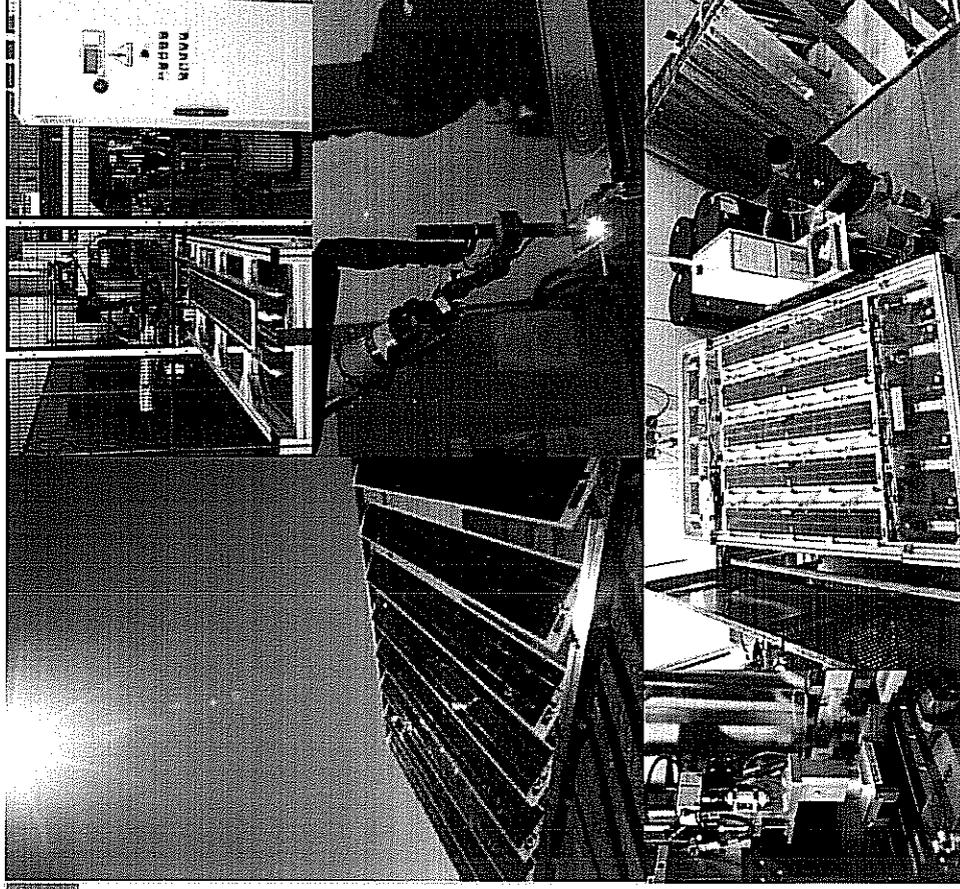
- Organic materials currently used in PV modules can only operate up to a maximum temperature of 85°/90C after which they start to deteriorate.
- As a consequence PV installation is especially problematic in the hottest regions of the planet with higher levels of sunlight irradiation ,as for example in the desert ,where panels can reach temperatures of 105 °C
- Currently available modules are generally large in size and weight. They can be difficult to carry and install especially in countries where work safety regulations restrict the handling, by one person, of 20kg and above.
- Standard modules degrade easily and are not recyclable.

The Product

The Product

The history

- The original idea was to resolve the problem of the overheating of solar cells, which creates problems of durability and efficiency in solar modules.
- The first solution was a prototype module, patented in 1998 consisting of 9 cells, 156x156 mm which uses a silicon liquid cooling system. It has undergone testing since 2010, and participated at the Masdar city test field, Abu Dhabi, since 2008.



The Product

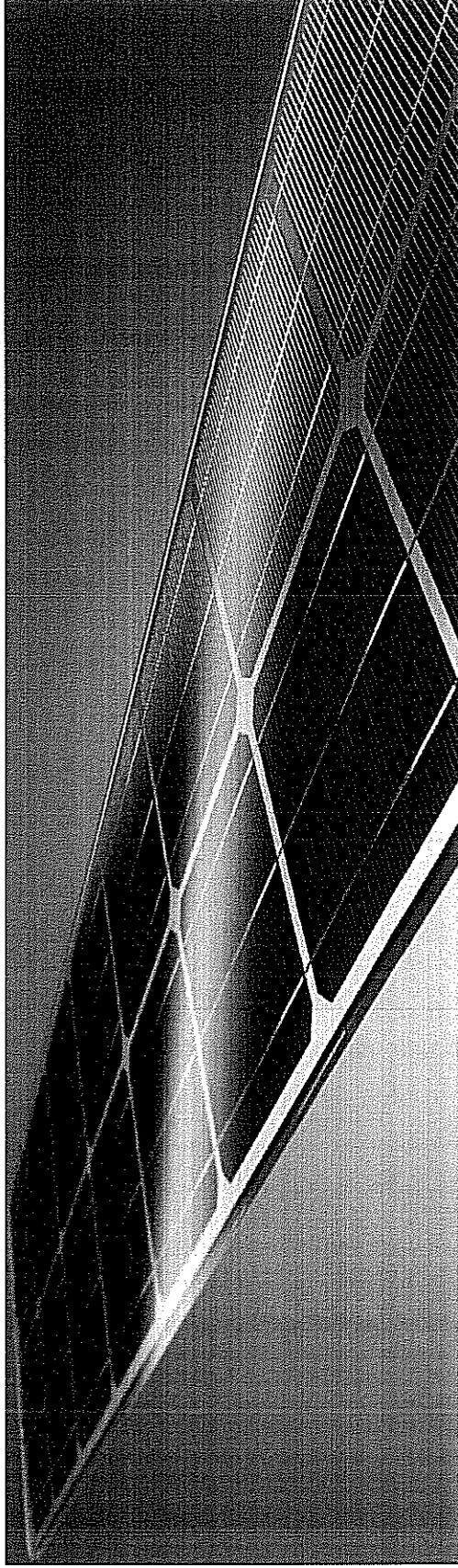
The Module

The new module

- The results led to the creation of a new module consisting of two strings each of 9 cells and to an improved cooling system that uses a new silicon gel. This is the new module SUMO
- Developed in Switzerland and designed in Italy.
- Certified TÜV, CE, IEC 61215, IEC 61730-1 e IEC 61730-2

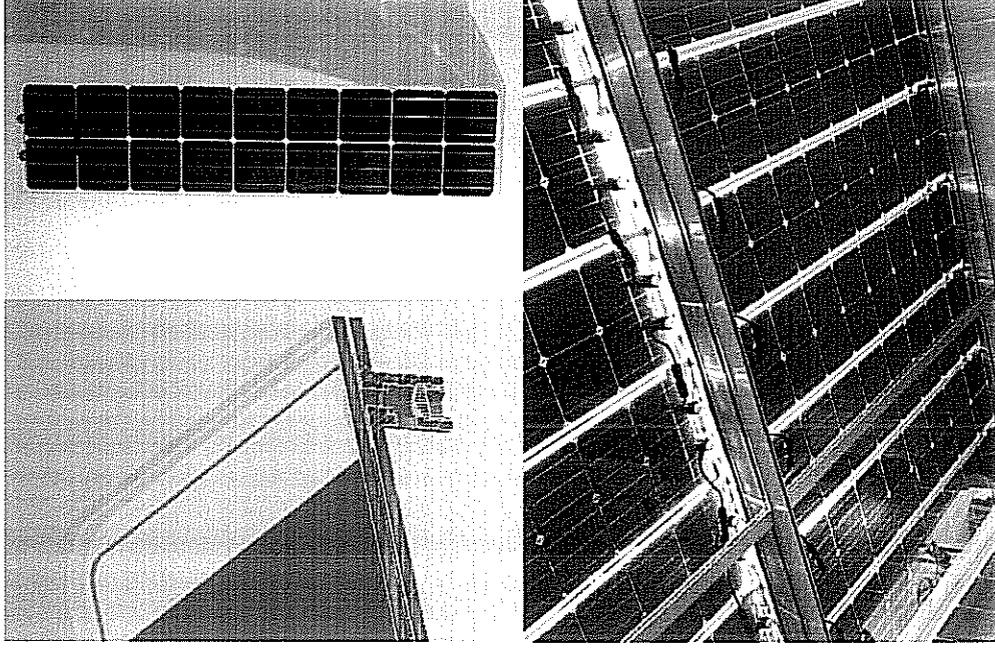
The Benefits

- Glass to Glass structure
- No organic polymer encapsulant
- Unique process specific to the SUMO module
- Maximum resistance to high temperatures, up to 140°C
- Probably the only module suitable for installation in the desert
- High resistance to corrosion
- Higher efficiency in hot regions
- Extended lifetime of more than 30 years, 99% recyclable



The Product

The new Product



Our Benefits

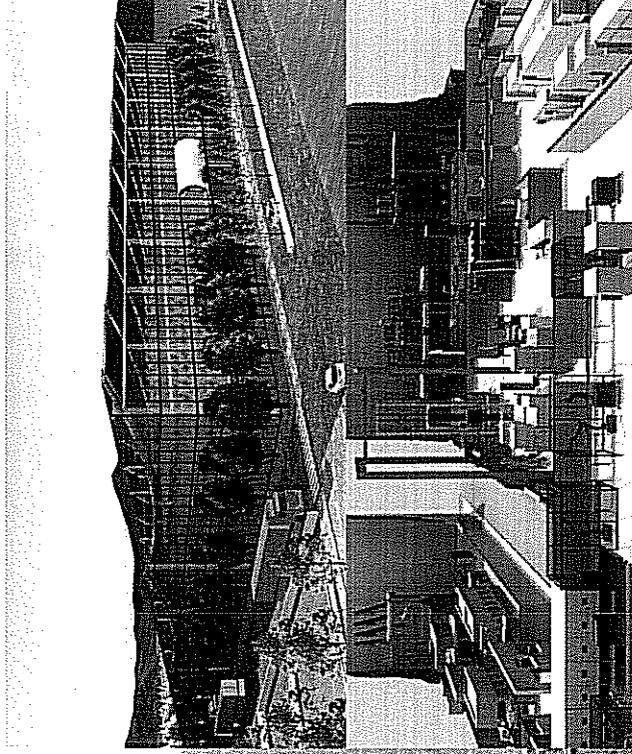
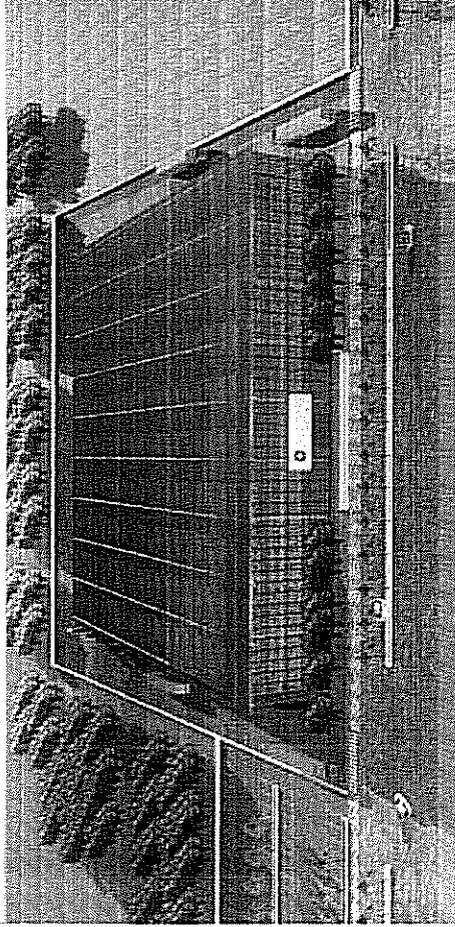
- Although competitively priced, our products can withstand temperatures of 140°C and above, and can be safely installed where temperatures exceed 80°/90°C (the current maximum limit for standard modules).
- Our products are also resistant to the corrosive effects of salt and ammonium.
- Unlike standard modules our glass-to-glass, transparent products allow light to filter through those areas not occupied by the cells themselves.
- By virtue of its frameless design, transparency, size and shape our product can be used in any architectural application, totally replacing traditional roof coverings, wall facings etc. saving the customer the cost of conventional materials.

The Product

The Factory

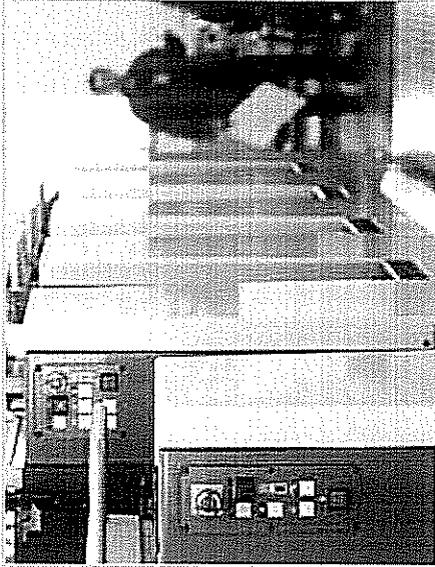
New Facilities

- A new concept glass building with a photovoltaic semi-transparent roof allows natural light to filter inside creating a pleasing & more healthy work environment. Designed in Italy as an open space edifice on three floors. Spacious areas have been left to provide “green” areas for plants, flowers and fountains.
- The predominant theme is “light” and the internal lighting system has been developed so that it adapts to outside light conditions.
- Peering through the side windows will give the sensation of working outside. Ample spaces have been dedicated to eating areas, staff training spaces and R&D laboratories

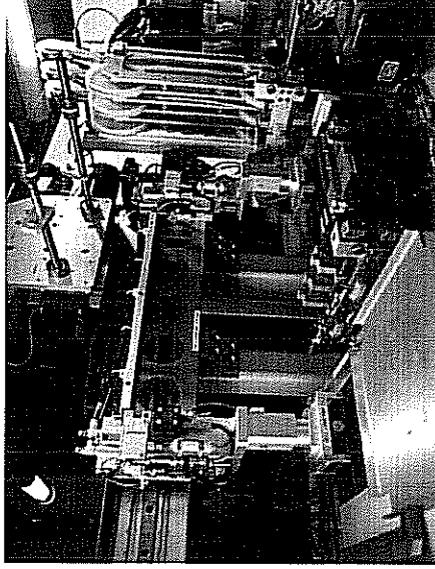


The Product

The future



- R&D unit creates innovation and improved processes, new products and applications.
- The Made in Italy design also adds value to all details.

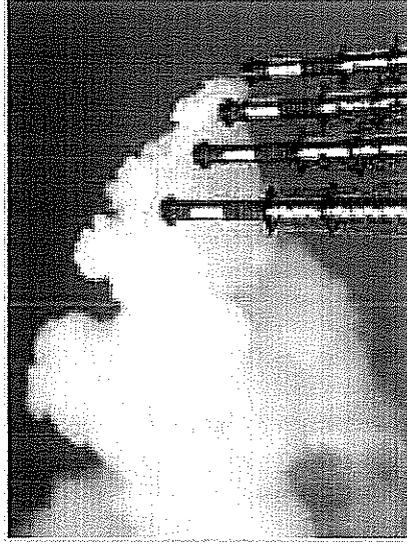


- Our in house mechatronic solution unit allows the transformation in machinery and processes developed by R&D creating new improved products.

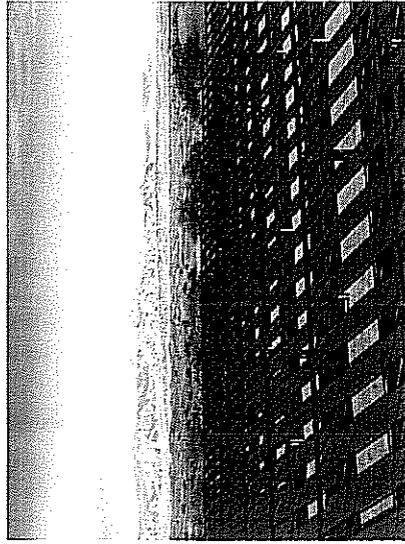


- New applications fuel the market offering even more efficient and better results for the end user customer.

World Energy Demand



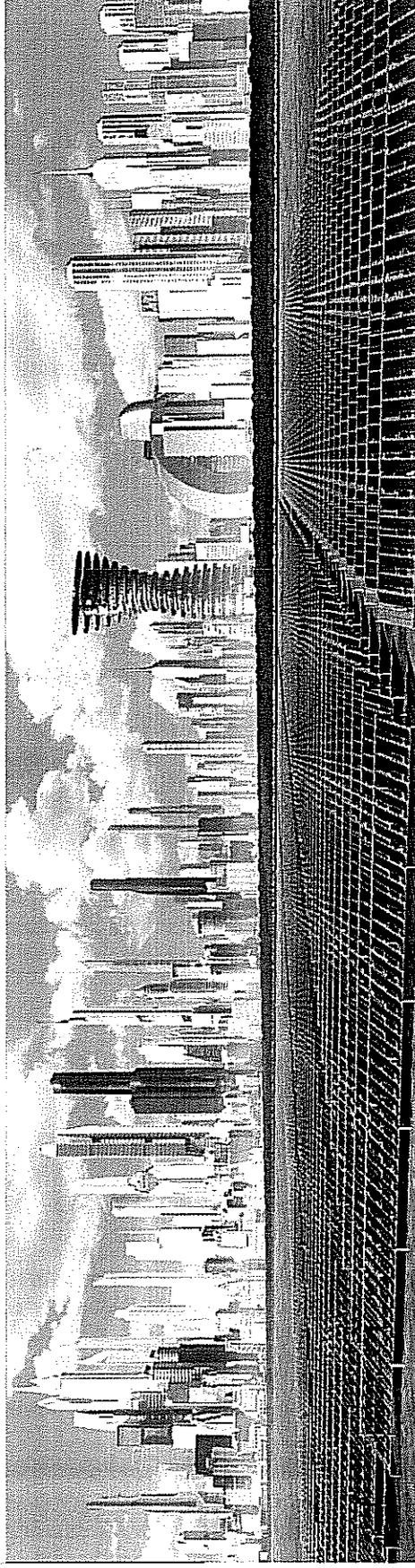
- Worldwide energy demand is rapidly rising, especially in developing countries where traditional sources of energy could easily be complemented with renewable sources of energy. The sun provides a ready to tap, low maintenance and constant alternative.



- The capillary and modular structure of PV system makes it suitable for off-grid generation and reduces, or even eliminates, the need for conventional infrastructure and its associated high construction, operating and maintenance costs.

The Market

- PV power generation is becoming a more attractive prospect for investors who are increasingly aware that it offers a reliable, profitable, comparatively low-risk and long-term investment. As Government subsidies come to an end investors no longer have to worry about the laws changing or having a negative impact on their investment.



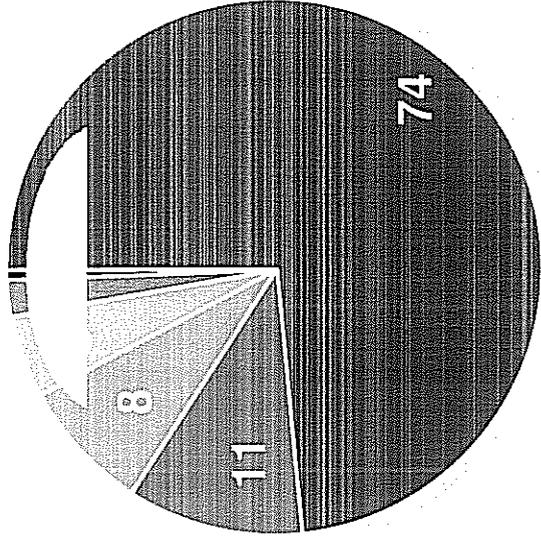
The Market

The market view

- The PV market is linked to a general increase in the cost of conventional energy.
- In some regions solar installations have already reached grid parity stimulating the demand.
- Public opinion is strongly encouraging sustainable green energy and environmental friendly sources.
- Both customers and investors are aware that solar installations provide a guaranteed, risk free return on their investment.

The Market

Worldwide installed capacity in 2011 (%)



- Europe
- APAC
- America
- China
- ROW
- MEA

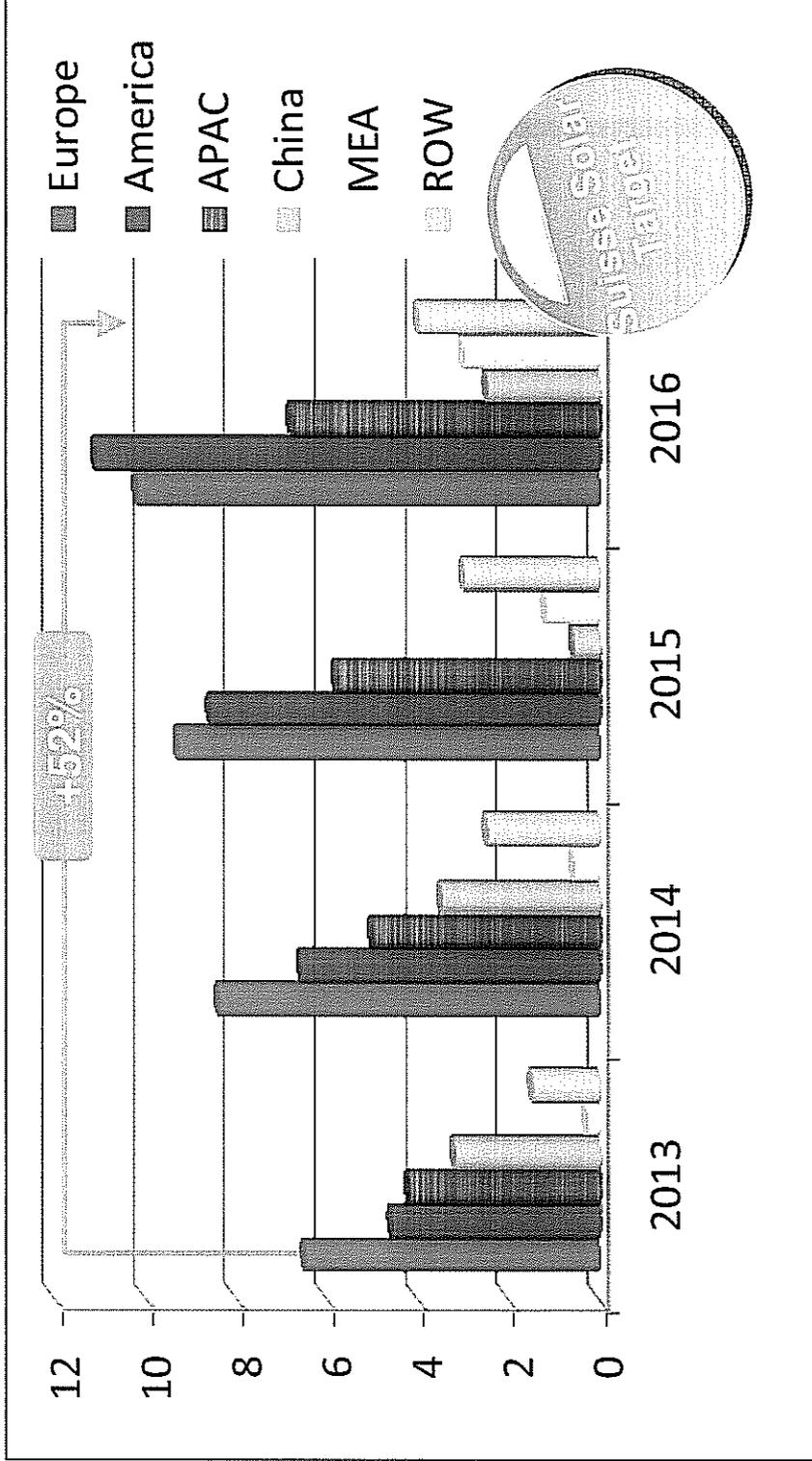
*ROW: Rest of the World
MEA: Middle East and Africa
APAC: Asia Pacific*

Insert your own text here

- Europe has the largest slice with over 74%
- APAC is the second largest area with 11%
- America counts only 8% of the total installed capacity
- China counts 5% but has the biggest potential installation capacity for the next three years
- ROW counts only 2% of the total installed capacity
- MEA counts less than 1% but in percentage has the biggest potential growth installation capacity.

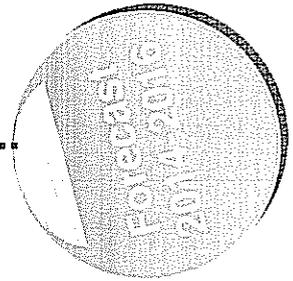
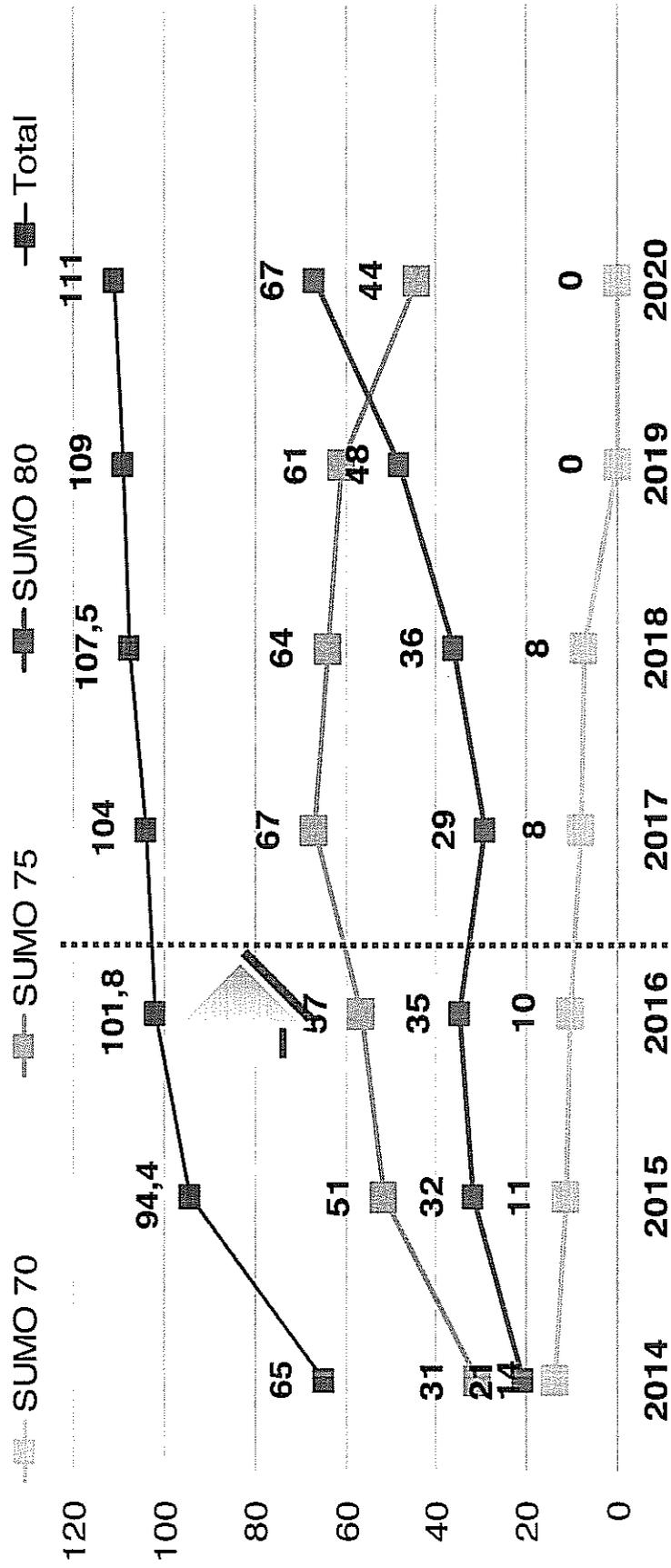
The Market

Market growth up in GW to 2016 – moderate scenario (European Photovoltaic Industry Association)



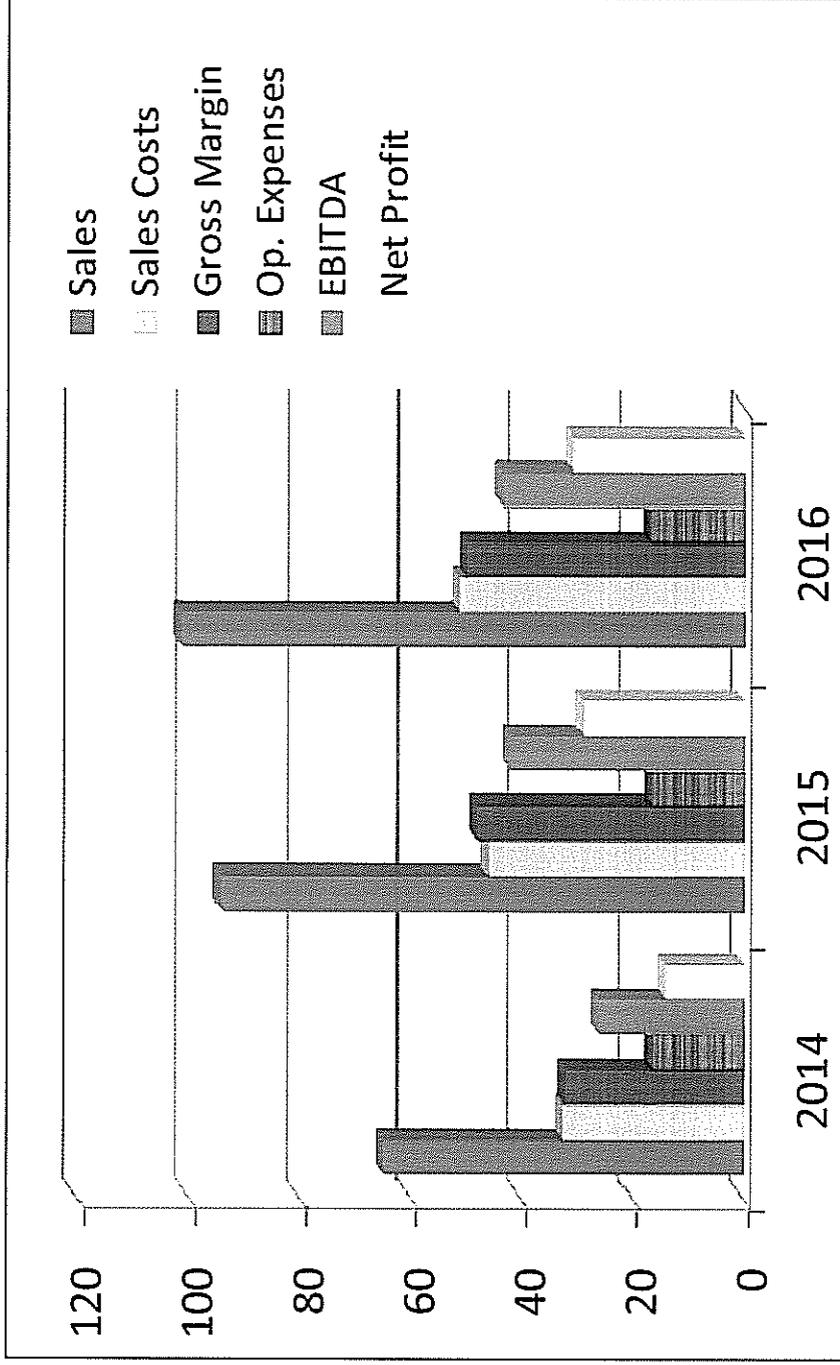
ROW: Rest of the World
 MEA: Middle East and Africa
 APAC: Asia Pacific

Sales target in million (Euro)



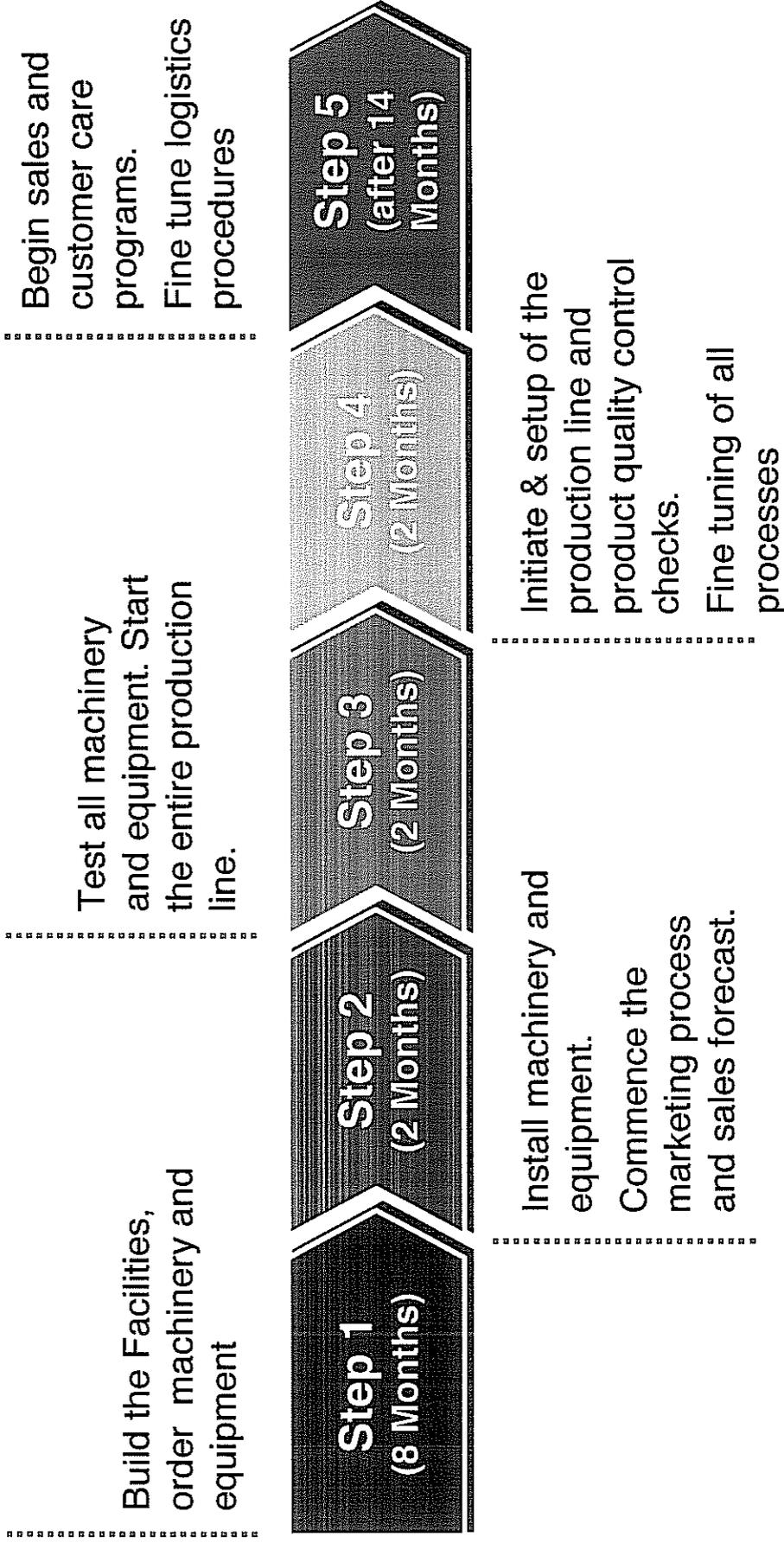
Profit & Loss

Est. Profit and Loss in million (Euro)



Timetable

Timetable of events





Start together from Qatar leading the world in green technology

Our competence:

- unique proprietary technology
- the only product suitable for desert regions

We are looking for a partner:

- with a shared vision of a sustainable future
- with a geographic and strategic position

The common target:

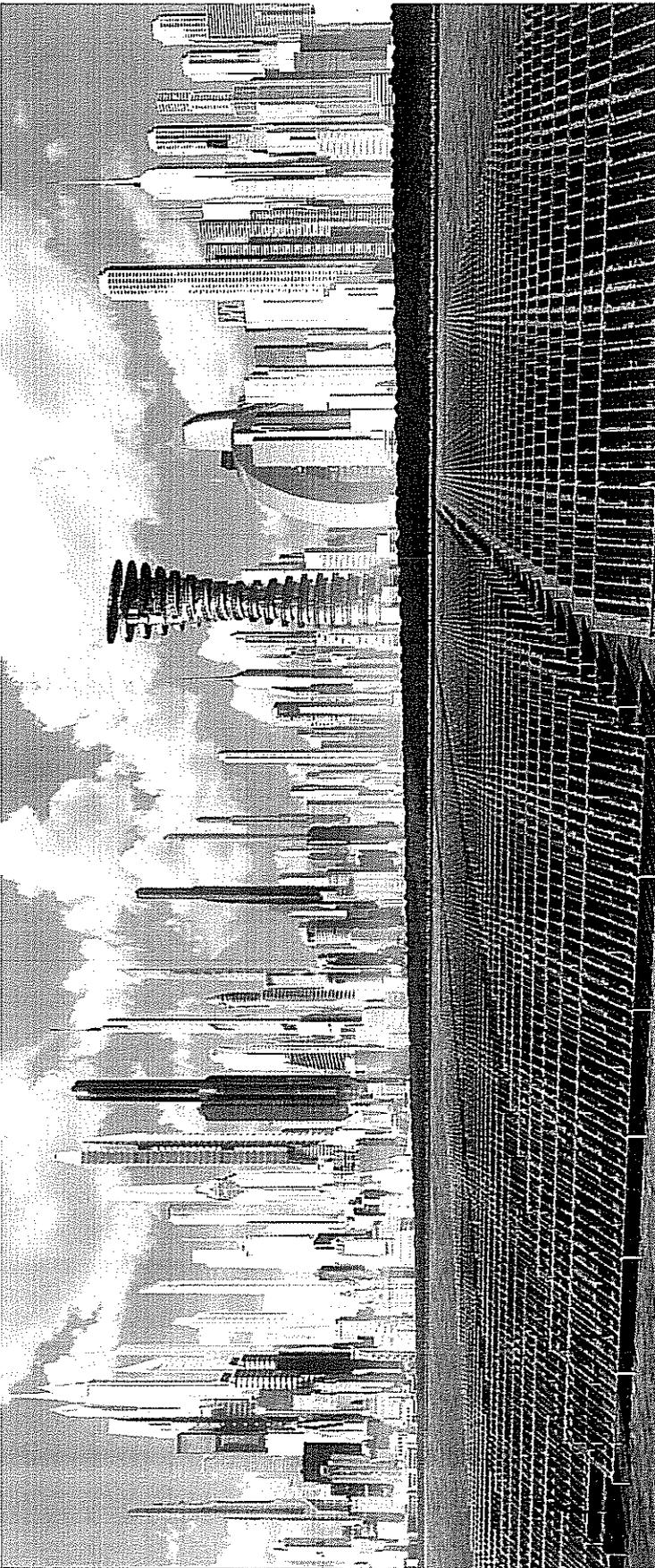
- to empower the investor to distribute the output according to his strategic decision
- to return to the investor an above average return on his investment

Our future starts now



In the desert

Our future starts now



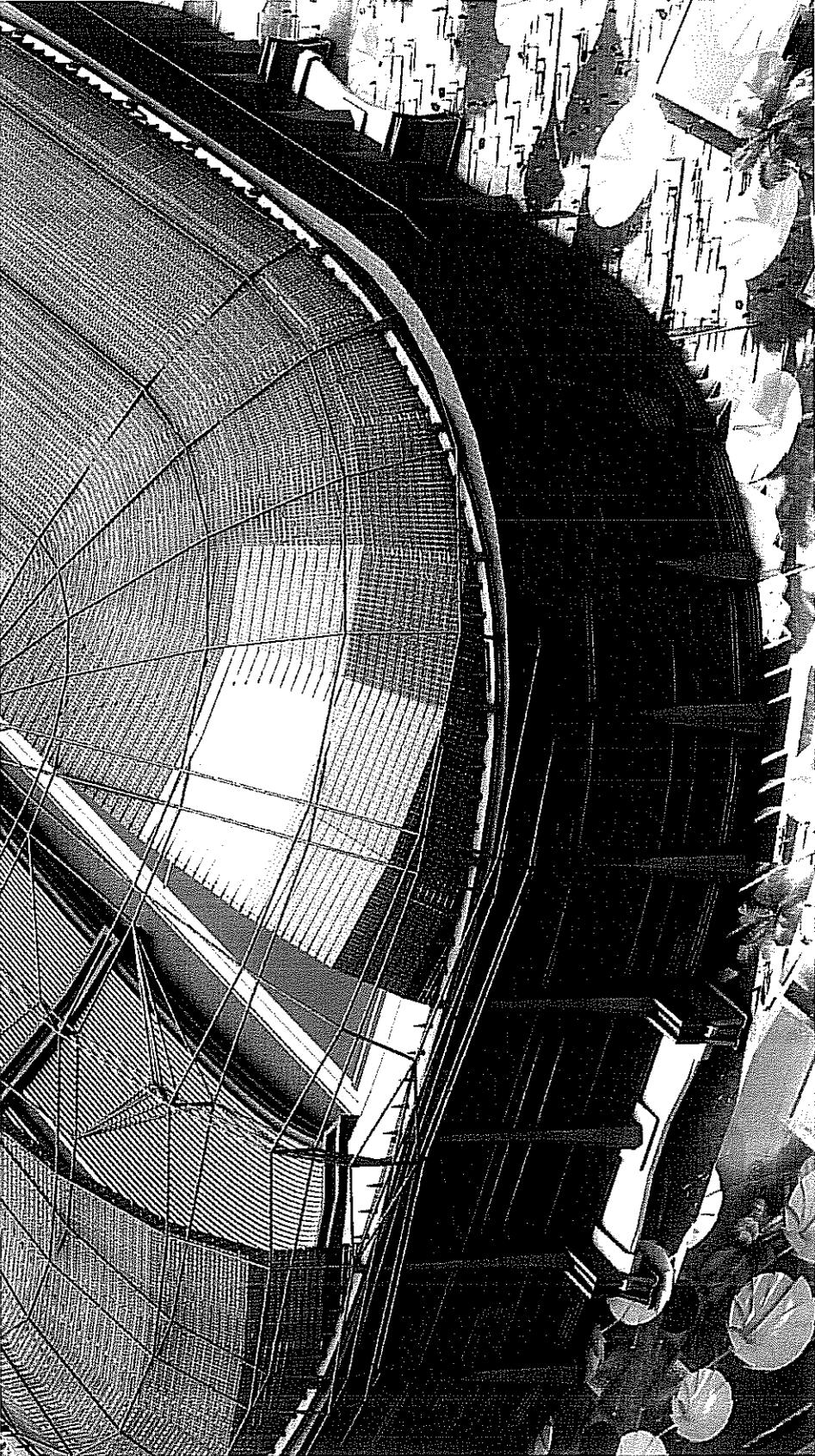
In the city

Our future starts now



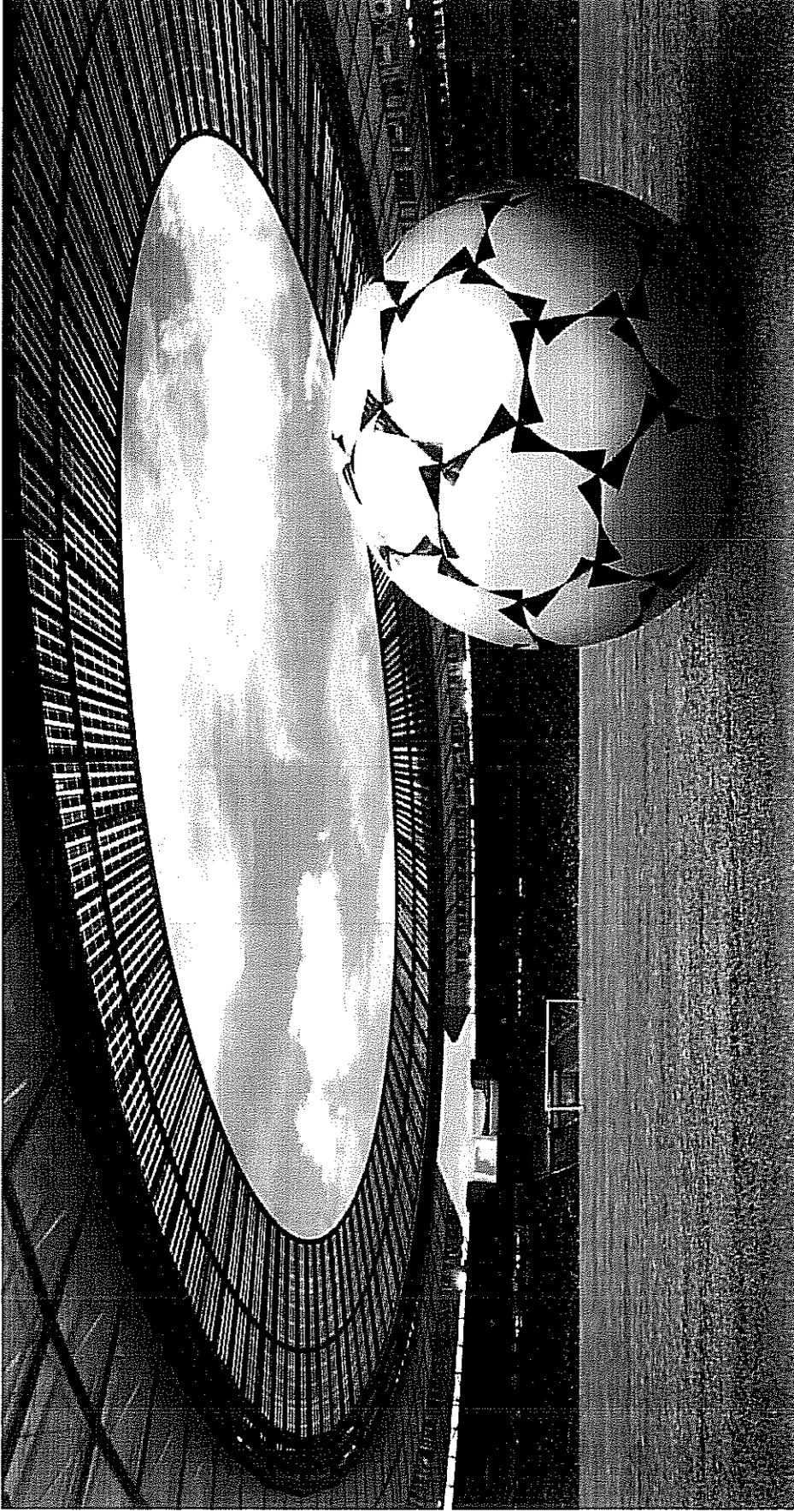
In the agriculture

Our future starts now



In the buildings

Our future starts now



In the stadium

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TRIPLE GREEN
INSPIRATION FOR GREEN TECHNOLOGIES

Amtrode
Holding AG