

Team

Alcrea Solar is a team of experts, with the highest qualifications, working under the leadership of the experts:

Directors and members:

- Daniel García, Director de I+D+i and CTO Alcrea
- José María, Technical Director and CTO Alcrea
- Manuel Ruiz, R&D
- Carlos Sánchez, R&D

SCIG Technology

SCIG Solar Technology (SCIG) is a technology that allows the collection, illumination and insulation of solar energy in a very efficient way.

Number of Panels (m² square):

- 1000 m² square
- 2000 m² square
- 3000 m² square
- 4000 m² square
- 5000 m² square
- 6000 m² square
- 7000 m² square
- 8000 m² square
- 9000 m² square
- 10000 m² square

Thanks for your attention



SCIG Technology
Collection, Illumination and Insulation,
for space heating

Competitors of our allies

Alcrea Solar is a team of experts, with the highest qualifications, working under the leadership of the experts:

- Solar Energy
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Marketing y sales

Alcrea Solar is a team of experts, with the highest qualifications, working under the leadership of the experts:

- Marketing
- Sales
- Marketing
- Sales
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- Marketing
- Sales
- Marketing
- Sales

Potential market in Spain

Spain is a country with a high potential for solar energy. The potential market in Spain is estimated to be around 100,000 MW. This potential is based on the high solar radiation in Spain and the increasing demand for renewable energy.




Advantages of Alcrea Solar

- High efficiency
- Low maintenance
- Long life cycle
- High energy production
- Low cost
- High energy production
- Low cost
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- Low cost
- High energy production
- Low cost

Collection in double and triple

Alcrea Solar technology allows for the collection of solar energy in double and triple. This technology is based on the use of multiple layers of solar collectors, which allows for a higher energy production.



High energy in double and triple

Alcrea Solar technology allows for the collection of solar energy in double and triple. This technology is based on the use of multiple layers of solar collectors, which allows for a higher energy production.



Energy storage tank, storage and for each house and for project

Alcrea Solar technology allows for the collection of solar energy in double and triple. This technology is based on the use of multiple layers of solar collectors, which allows for a higher energy production.




Image generation according to the position of the sun

Alcrea Solar technology allows for the collection of solar energy in double and triple. This technology is based on the use of multiple layers of solar collectors, which allows for a higher energy production.




Also in infrared, visible and ultraviolet

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17 units high resolution development units

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Our Technology

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Space heating in numbers

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SCIG Technology
Collection, Illumination and Insulation,
for space heating



SCIG Technology

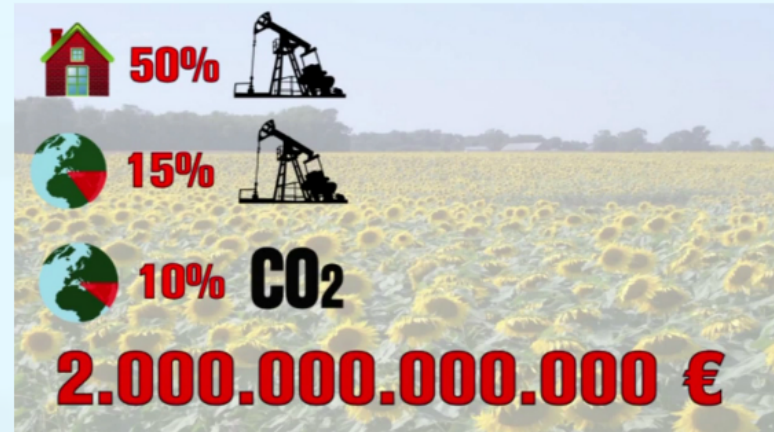
**Collection, Illumination and Insulation,
for space heating**

-Space heating in numbers:

-Energetic poverty

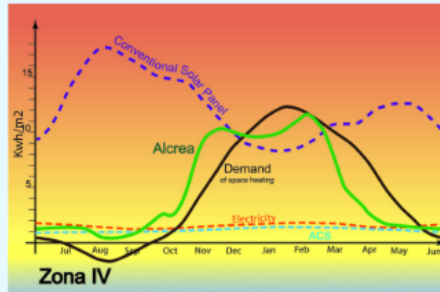
-High and fast energy prices increase.

-Traditional sources, small renewable input and with excesses in summer

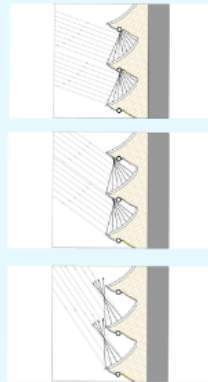


Our Technology

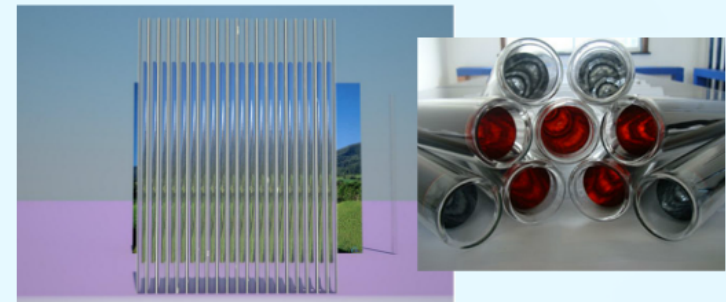
Collection or illumination according to the thermal demand curve



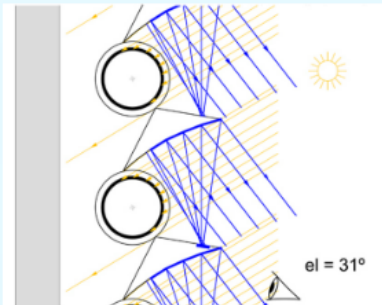
In summer reflects to the sky



High insulated-transparent walls



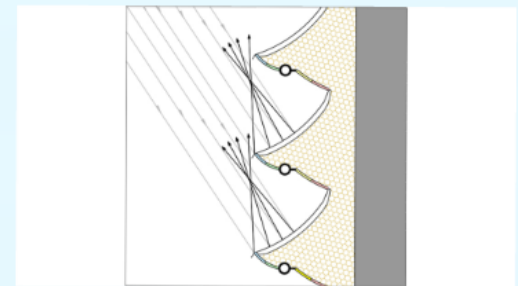
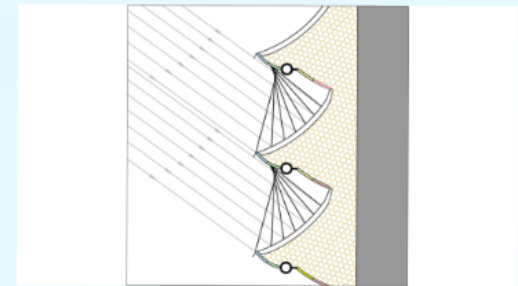
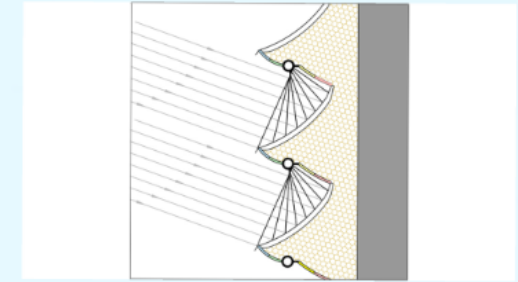
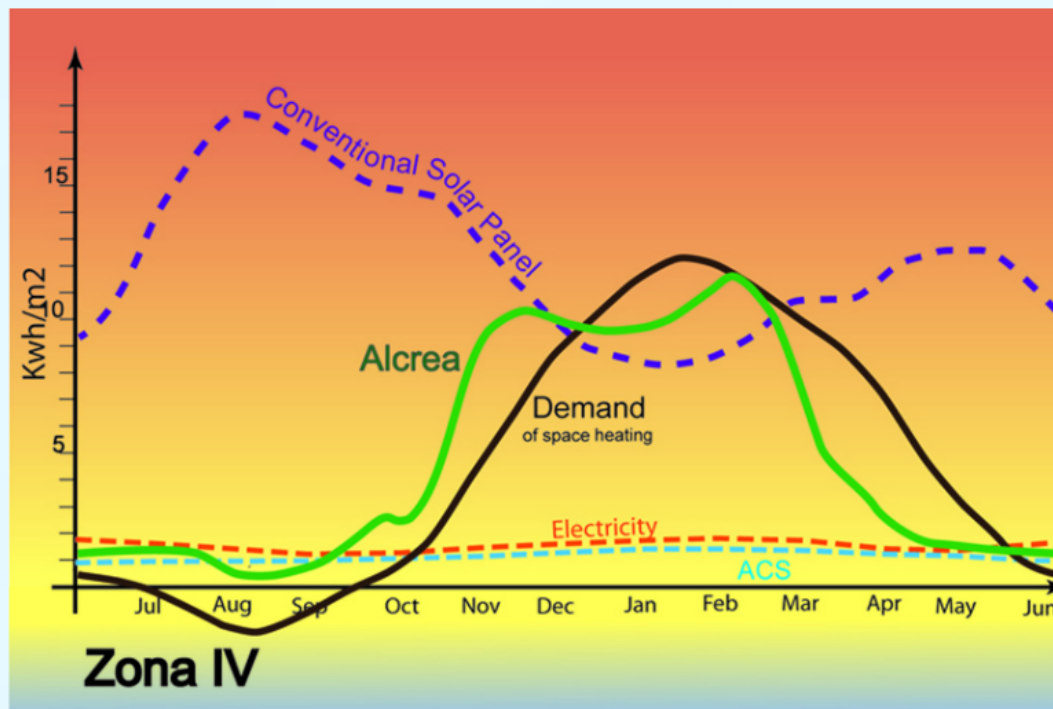
With changing images generation



Refurbishment or new buildings:
in roofs or facades

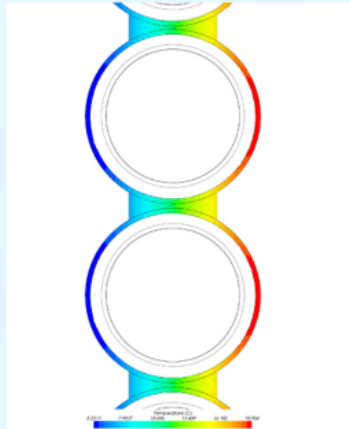


Collection or illumination according to the thermal demand curve

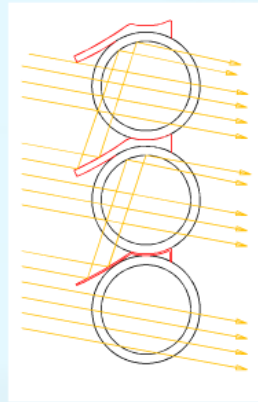


In summer reflects to the sky

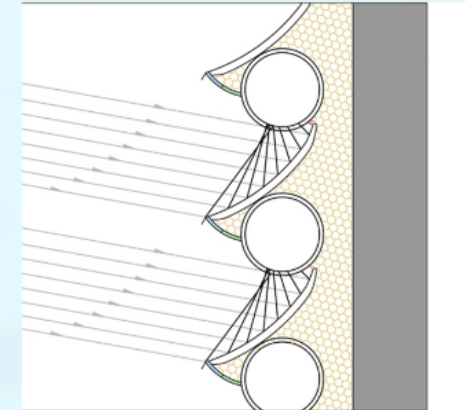
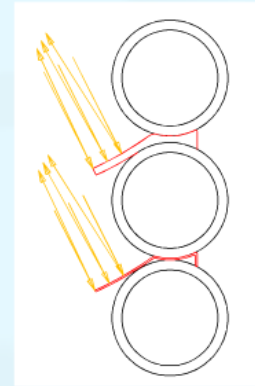
VT walls: high insulation transparent walls



High insulation
($\pm 0.5\text{W/m}^2/\text{°K}$)



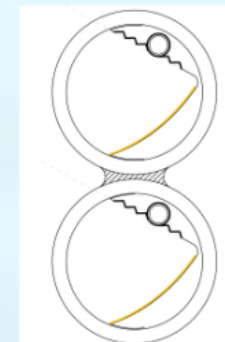
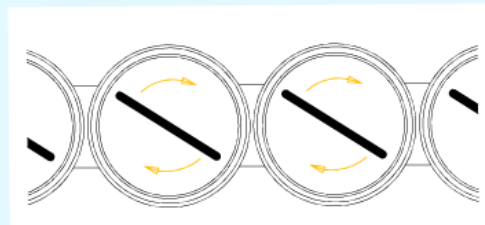
More light in winter than in summer



also with collection

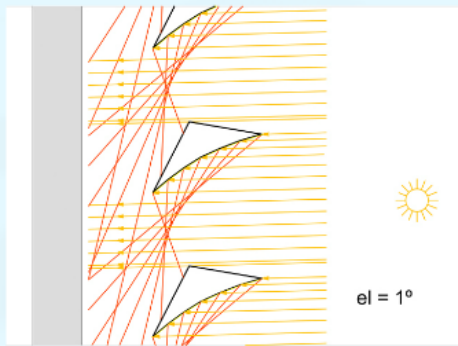


ex.: vertical venetian blind in each tube

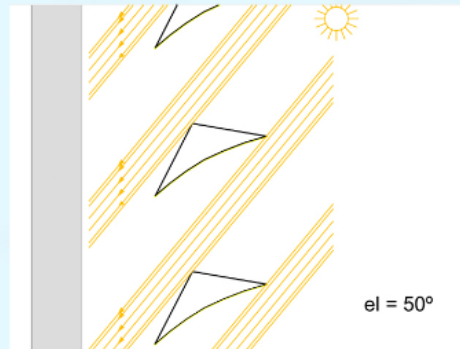


ex.: heat pipe with inner reflector

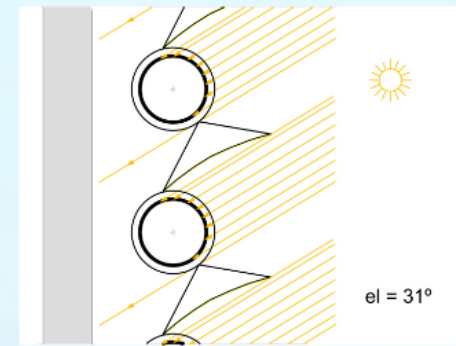
Louvers, venetian blinds, skylights and/or catchment and/or images



High amount of light in winter



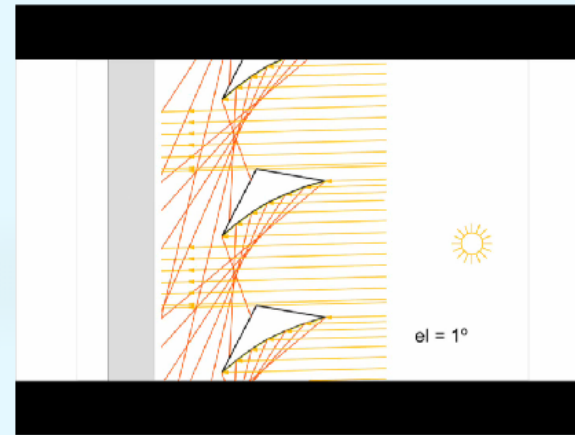
Small amount of light in summer



Also with collection

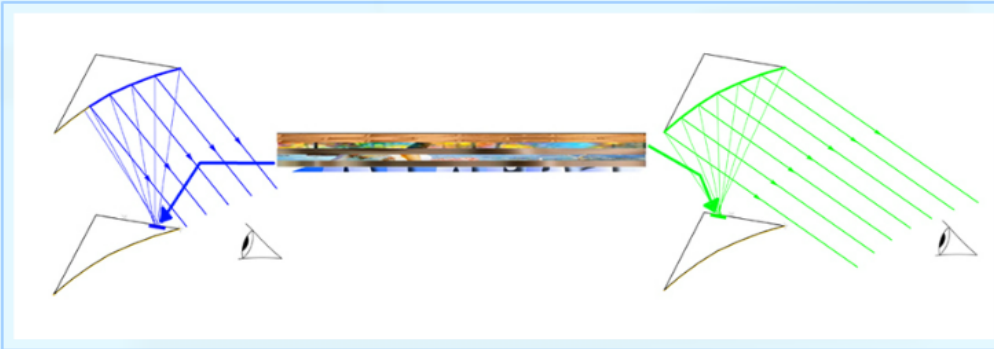


Wide view range



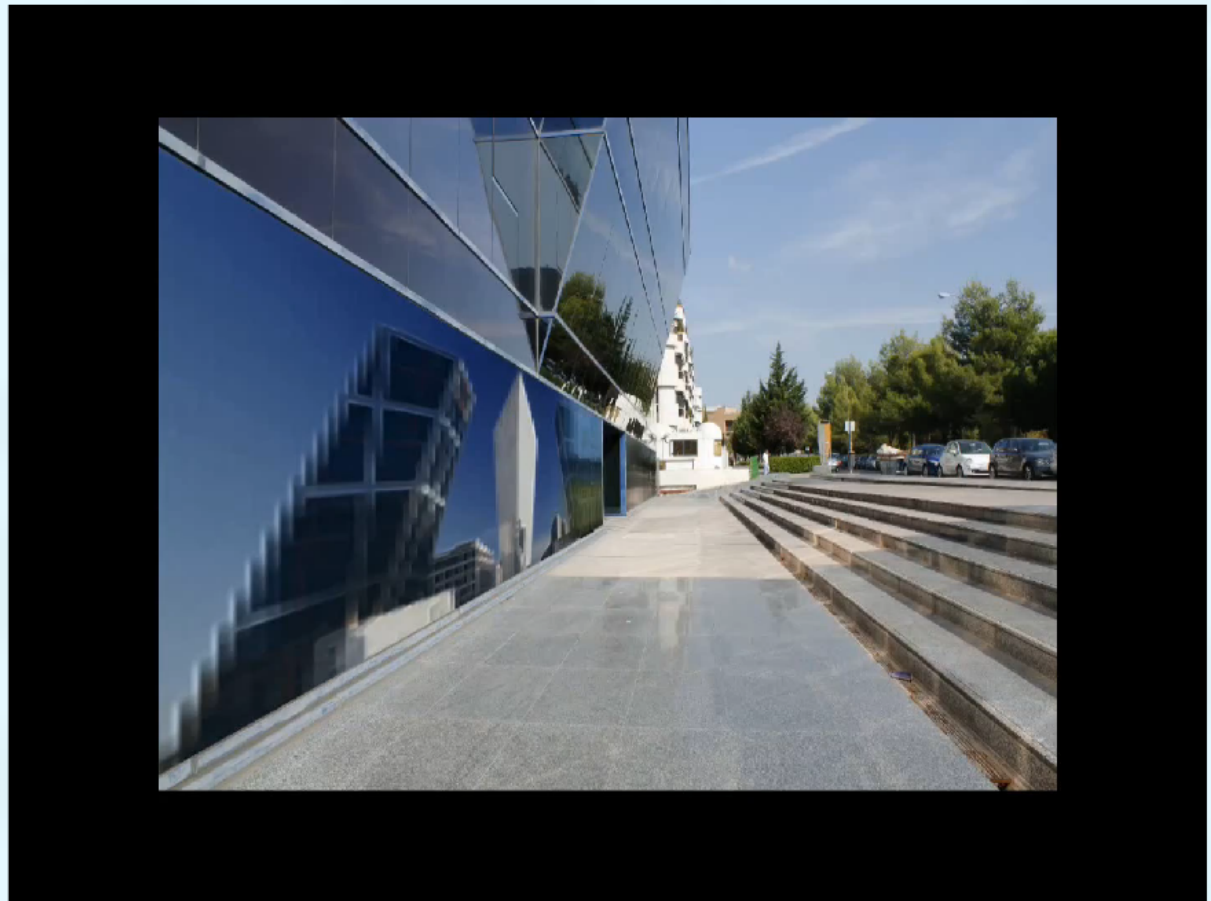
Video: Winter-Summer sequence

Image generation according to the position of spectator



Video: prototype

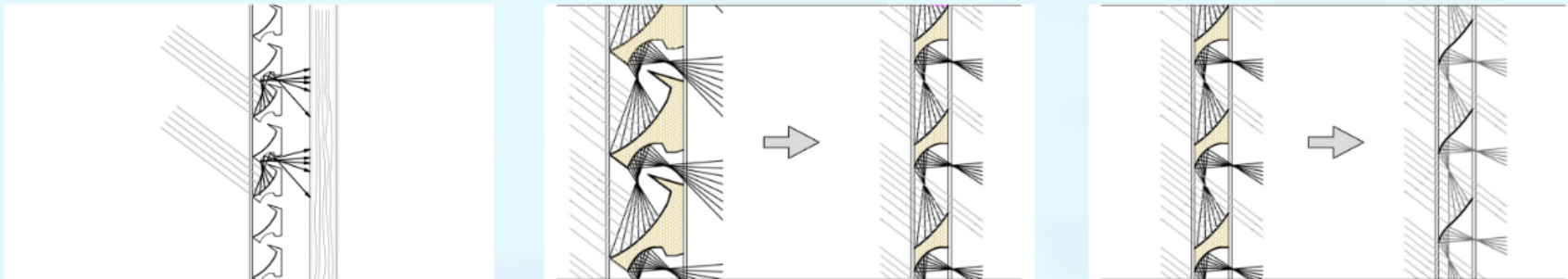
Also in hallways, ceilings and sidewalks



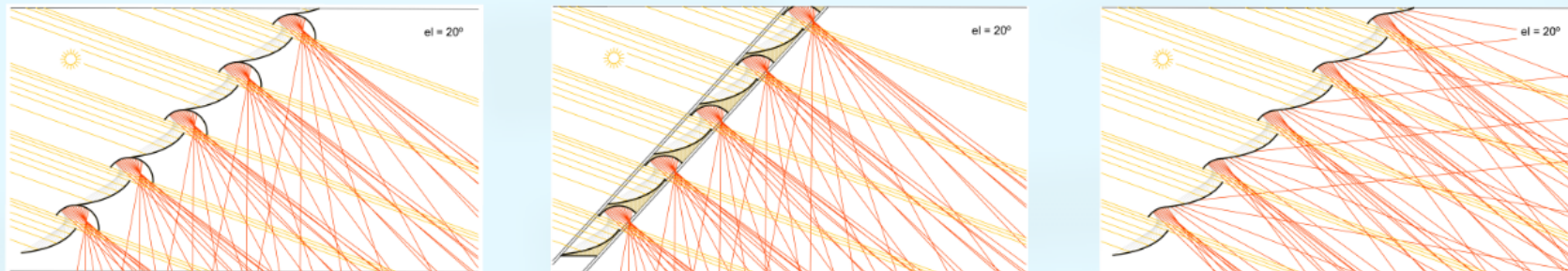
Video

Cup louvers in facades and roofs

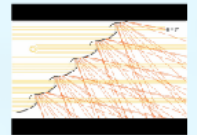
High amount of light in winter and small in summer



Louvers in facades and simplifications



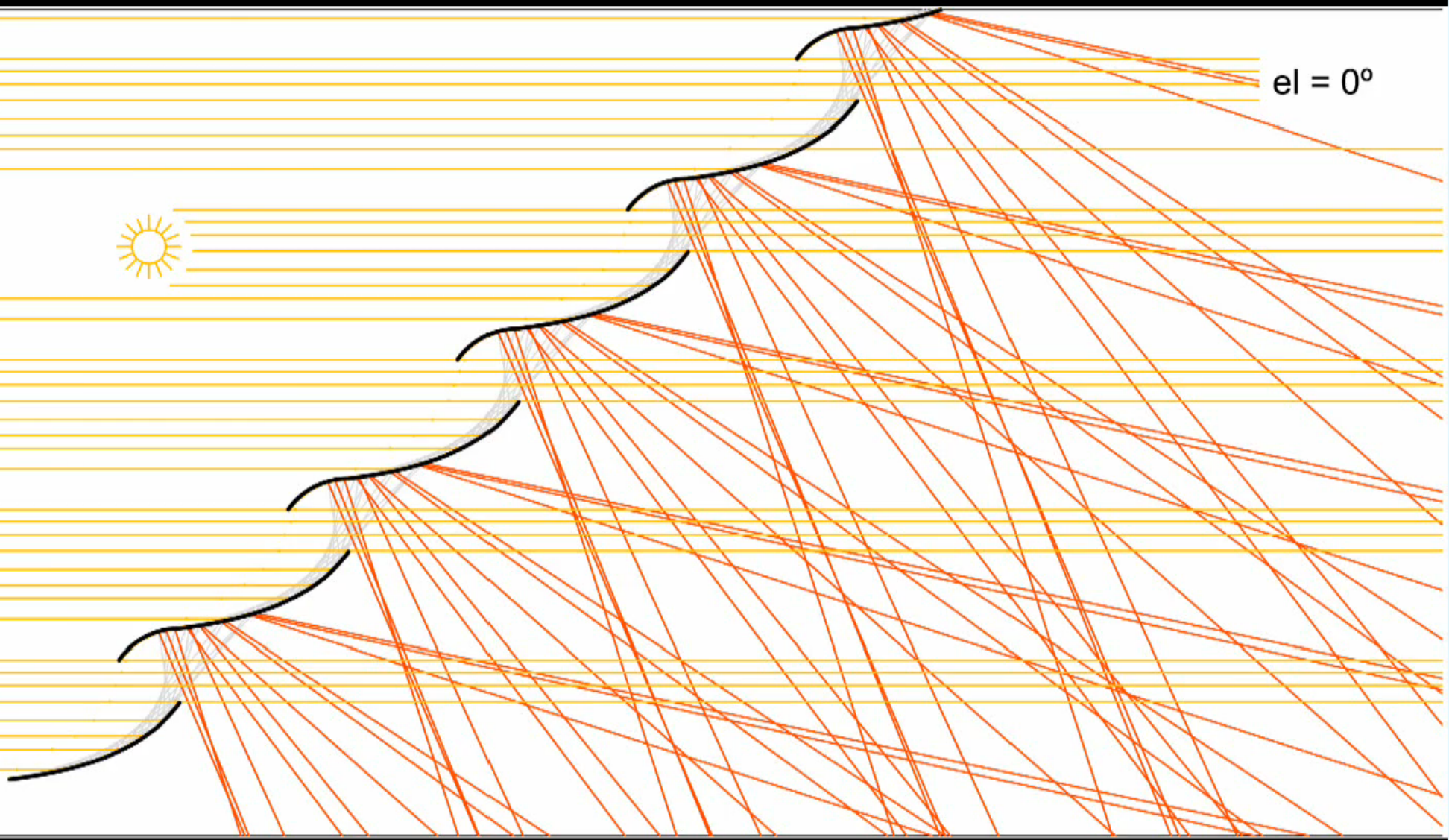
Louvers in roofs and simplifications



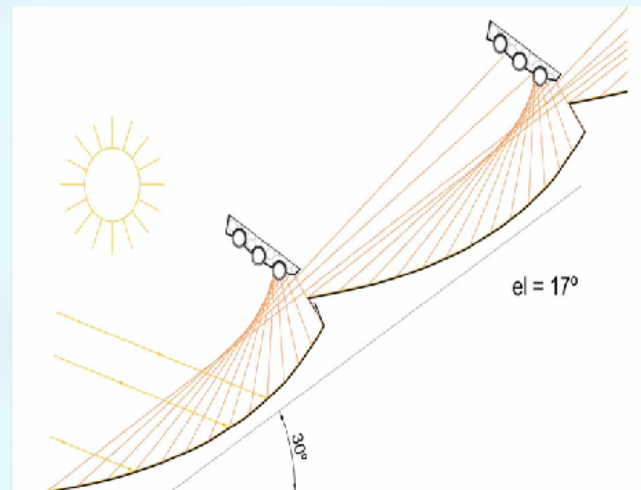
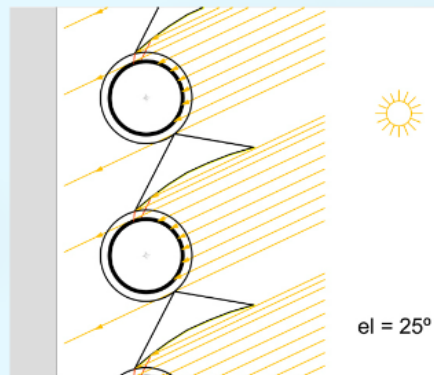
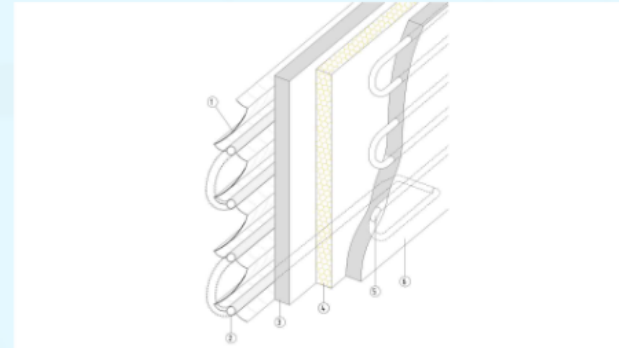
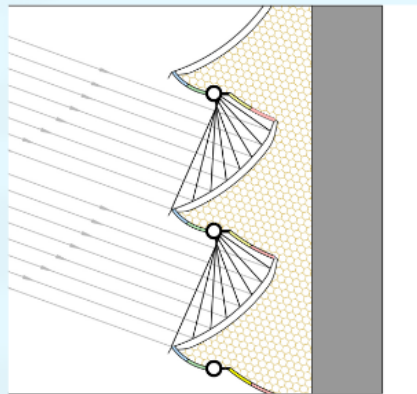
Video



el = 0°



Collection in facades and roofs



Video: sun collection in roofs



- New and innovative product protected by patent



- Reduces space heating consumption even with bad weather



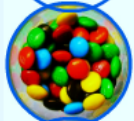
- Provides autonomy and independence of energy prices



- Increases the value of the property



- Reverses also in health, increasing the air exchange and indoor lighting



- Multi-derived products that apply to different sectors



- Synergy with advertising



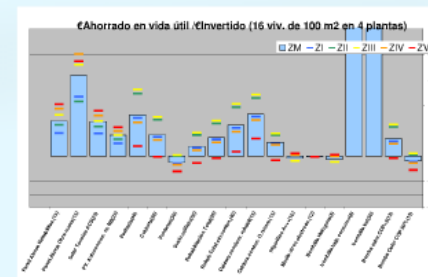
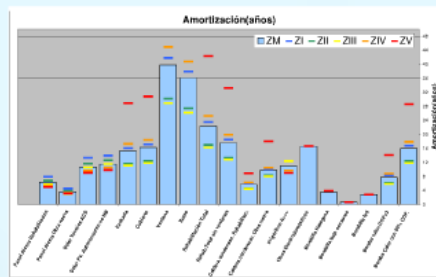
- It takes benefit from the cost of the replaced building components

Potential market in Spain

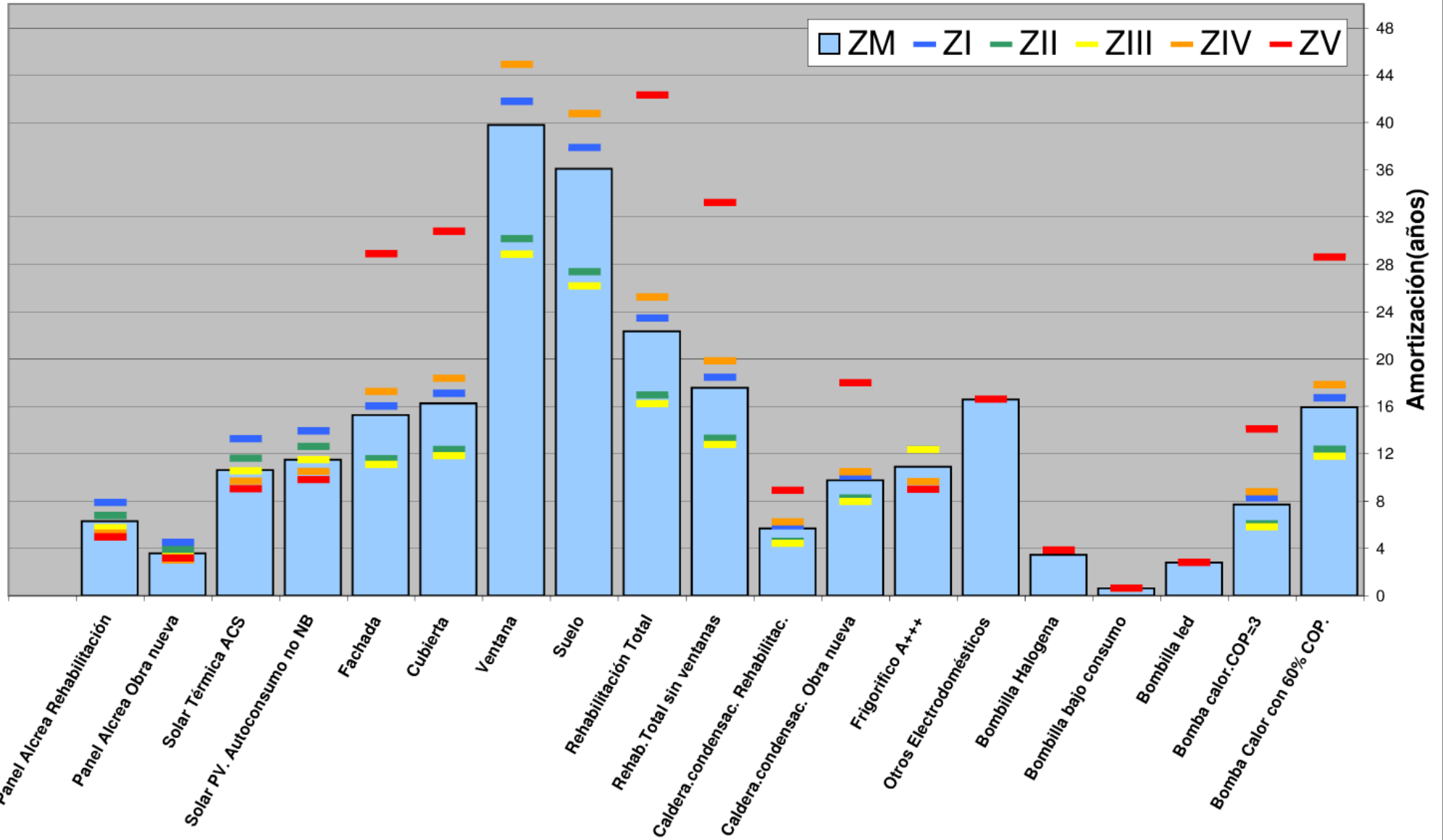
Energy refurbishment of 500.000 homes per year are expected (900 M € / year, with panels). We can grab 5% (45 M € / year).

It corresponds approximately with the 5% of the 1.67 Giga kWh per year, that are the expected reduce of heat demand (5% of 940 M € / year = 47 M € / year)

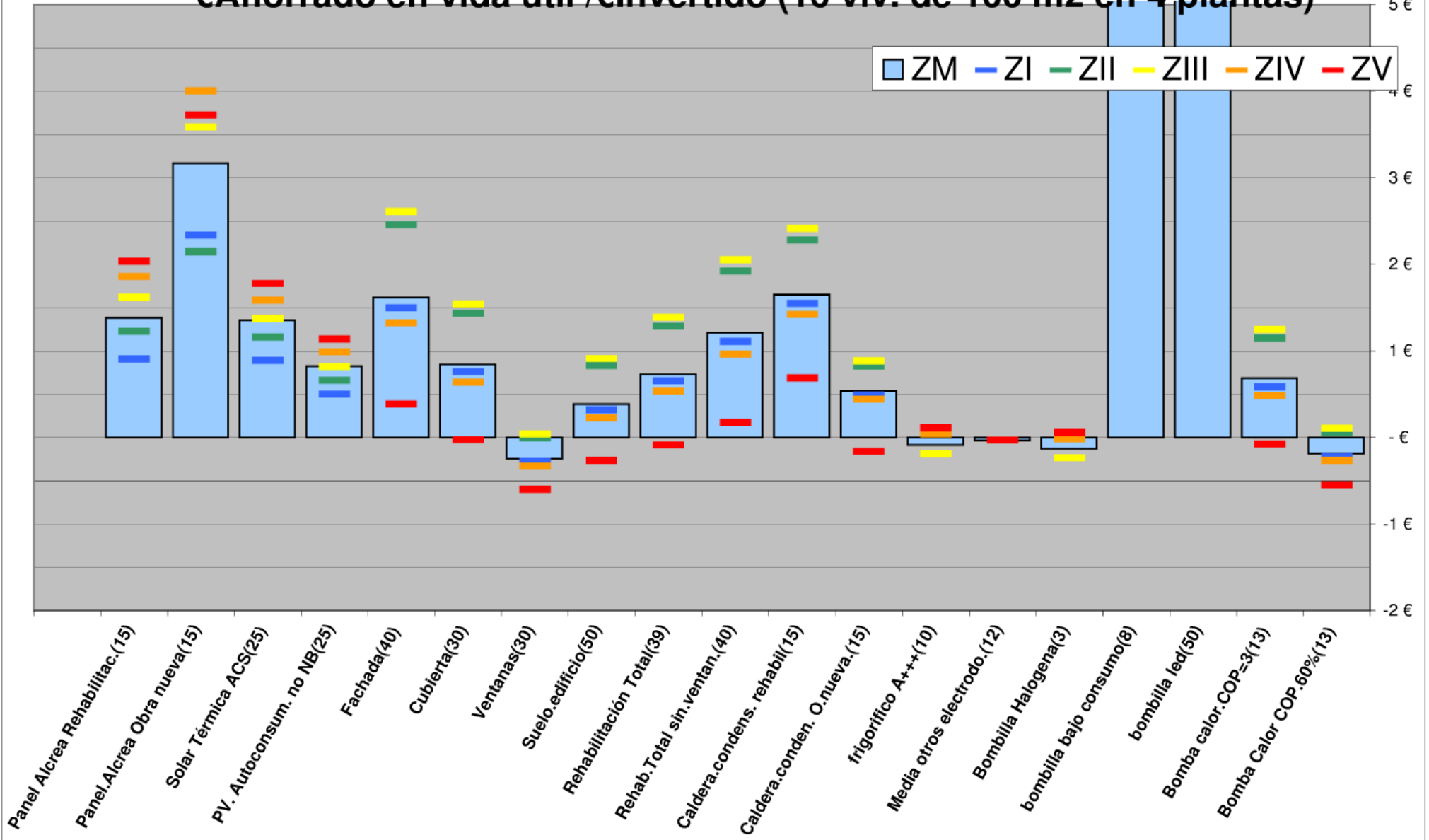
All this is based on comparative advantages over traditional energy sources, other renewable systems and over other methods of energetic rehabilitation or energy efficiency improvement



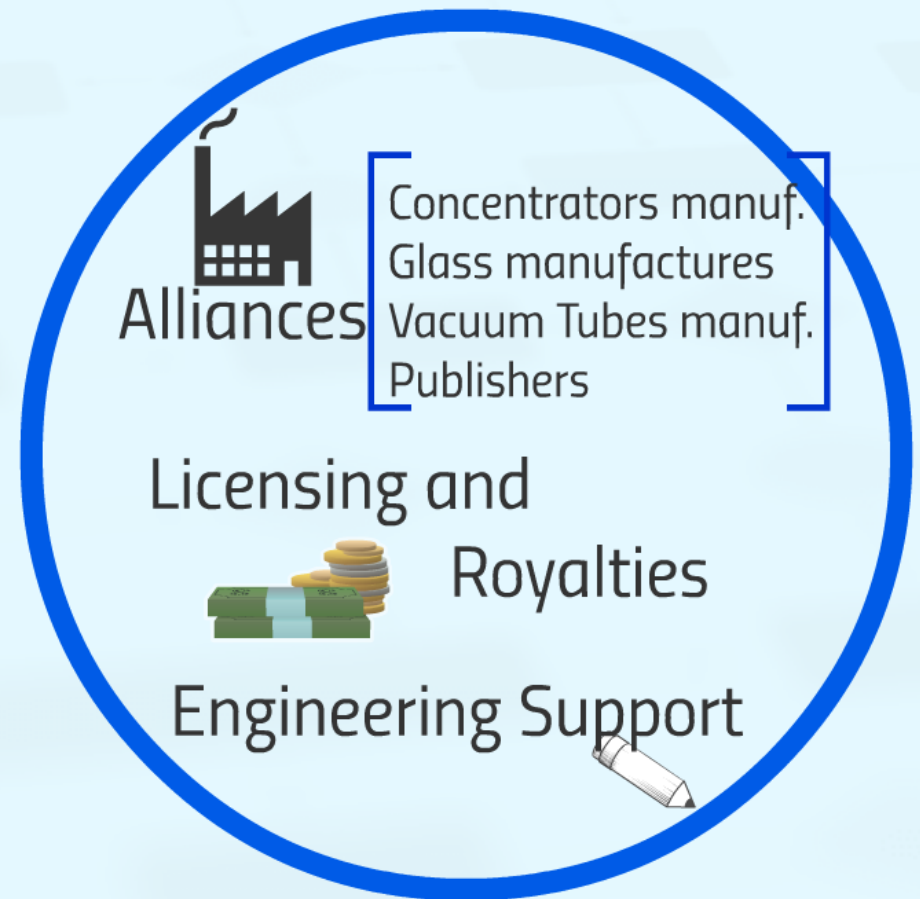
Amortización(años)



€Ahorrado en vida útil /€Invertido (16 viv. de 100 m2 en 4 plantas)



Marketing y sales



Competitors of our allies

Traditional energy

Advertising stands
Sun screening
Rehabilitation comp.
Glass enclosures

Vacuum tubes or flat
panels companies (more
oriented DHW)

Exclusive product

Energy
Construction
Advertising



Team

Arturo Lobo, aeronautical engineer, large technical and management experience, including solar sector. Inventor of the system.

Participants and contributors:

- Erasma Maroto, Technical Architect and Civil Engineer
- Javier Martos, Technical Architect and Civil Engineer
- Amaya Osés, Architect
- Carlos Soriano, Architect

- **2 PCTs with very positive ISR**
- **Over 10,000 accumulated hours of R & D + i**
- **R & D + i Award**
- **Finalist in Everis contest**
- **Recognition of "Energética XXI" magazine**
- **An investor of € 25,000, in exchange of 2.5% share of the patent**
- **Multiple companies interested in the project and / or final products**
- **Guest speakers at: "Pozuelo XXI Century Foundation" and "Construction for all" blog**
- **Software of optical and performance calculation**

Thanks for your attention



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