abora
Advanced Solar Technology

Hybrid Solar Panel

Energising the future: Combined light and heat generated by the sun!

www.abora-solar.com/en/

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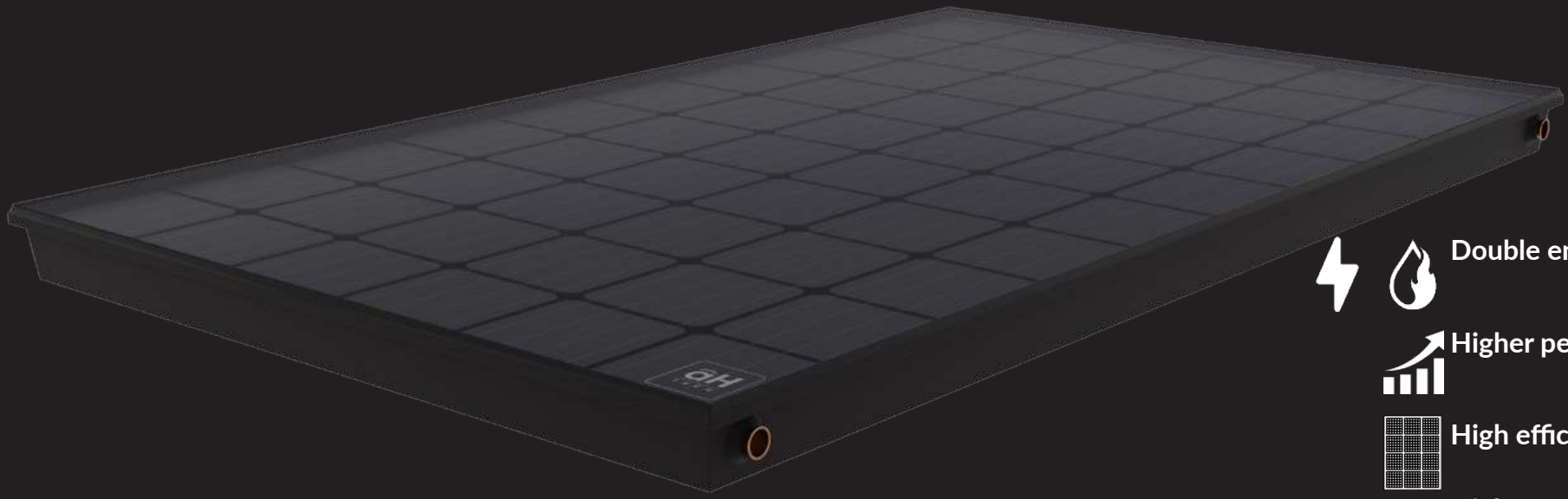
aHTech®, hybrid solar panel

The hybrid solar panel with aHTech® technology sets a new standard in the solar industry.
A 2-in-1 solution for cost-effective, clean energy
for your business.



- Double energy production
- Higher performance
- High efficiency cells
- Highest quality and reliability on the market

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aHTech®

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The world's most efficient and cost-effective solar panel

Maximum energy production

Hybrid solar panels combine the advantages of photovoltaic and thermal technologies. **They produce electricity from sunlight while capturing thermal energy, providing you with a dual energy production system**. This means you can maximise energy production and optimise your solar investment by harnessing both electricity and heat with the same panel.

Higher performance

Hybrid solar panels can achieve higher overall efficiency than traditional solar panels. **By using thermal energy, they can convert more of the sun's energy into usable energy, increasing the overall efficiency of the system and maximising energy savings.** This increased efficiency is especially valuable in locations where weather conditions vary and the space available for solar installations is limited.

Space optimisation

They save space by combining two energy production technologies in a single panel. This is especially advantageous when space on the roof or plot is limited. By installing hybrid panels, **you can optimise the use of space and produce more energy,** making them ideal for urban areas or properties with limited space.

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Reducing energy costs

Hybrid solar panels allow you to significantly reduce your energy costs. By producing both electricity and heat, you can offset a greater proportion of your energy needs, making you less dependent on the grid or other heating sources. This can lead to **substantial long-term savings on electricity bills and heating costs, helping you to achieve energy independence and financial stability.**

Performance in all weather conditions

Unlike traditional photovoltaic solar panels, which rely solely on sunlight to produce electricity, hybrid panels can produce power even in low light or on cloudy days. The thermal component of hybrid panels allows them to capture thermal energy from the environment, enabling them to generate electricity even when sunlight is limited. **This means that you can benefit from constant energy production throughout the day, whatever the weather conditions.**

Durabilidad y longevidad

Abora Solar panels are built to last, using high quality materials and robust construction techniques. They are rigorously tested to ensure they can withstand adverse weather conditions, temperature variations and mechanical stresses. **When you invest in hybrid panels, you benefit from long life and reliable performance, which translates into a solid return on investment.**

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HYBRID SOLAR PANEL

aHTech®

Abora Solar designs, develops and manufactures the world's most cost-effective solar panel with an efficiency of 89%, achieving a certified world record.

The hybrid solar panel with aHTech® technology produces the same energy as 4 photovoltaic panels.

Efficiency

89%

Manufacture

MADE IN SPAIN

Quality

The Solar Keymark
CEN Keymark Scheme

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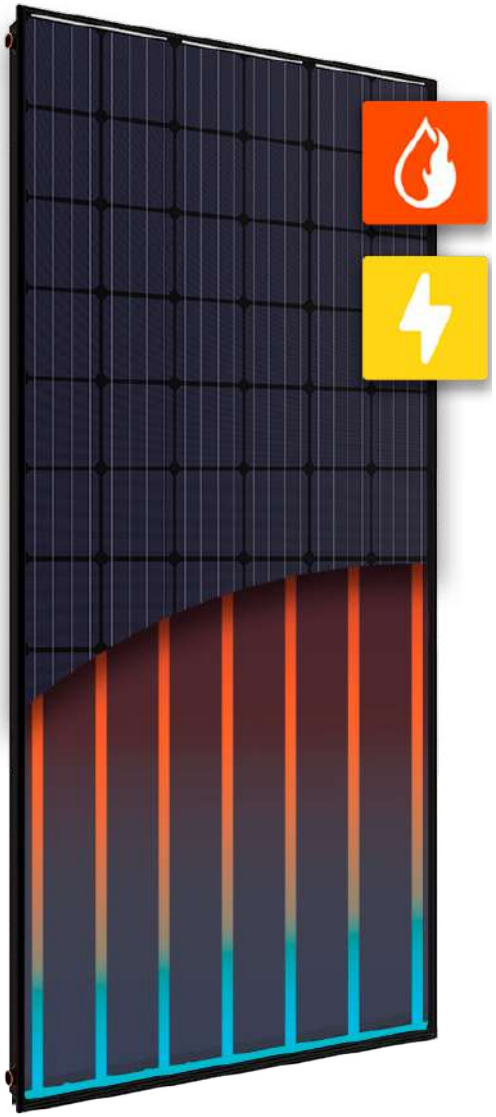

Producto
Hybrid solar panel

Energy
Thermal production
Electricity production

Data
Made in Spain
Solar Keymark Certificate

Application
Industrial sector
Tertiary sector
Residential sector

Benefits
Higher efficiency
Higher savings
Best reduction of CO2 emissions

abora
Advanced Solar Technology

aHtech®

Technical features

Specifications

- Higher energy output per m2
- Higher durability
- Higher market profitability
- Environmental sustainability
- Performance in all weather conditions

MADE IN SPAIN

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Double production

They produce electricity and heat simultaneously. They convert sunlight into usable electricity using photovoltaic cells and, at the same time, capture and use the excess heat generated by the photovoltaic cells.

Higher performance

They are certified and patented as the most efficient solar panel in the world, with an efficiency of 89%. This high efficiency translates directly into profitability, as our panel will produce more energy in a smaller space.

Energy savings

The ability of our hybrid solar panels to capture and utilise heat reduces overall energy demand for space or water heating as well as capturing light to produce electricity, which translates into energy savings and greater cost-effectiveness.

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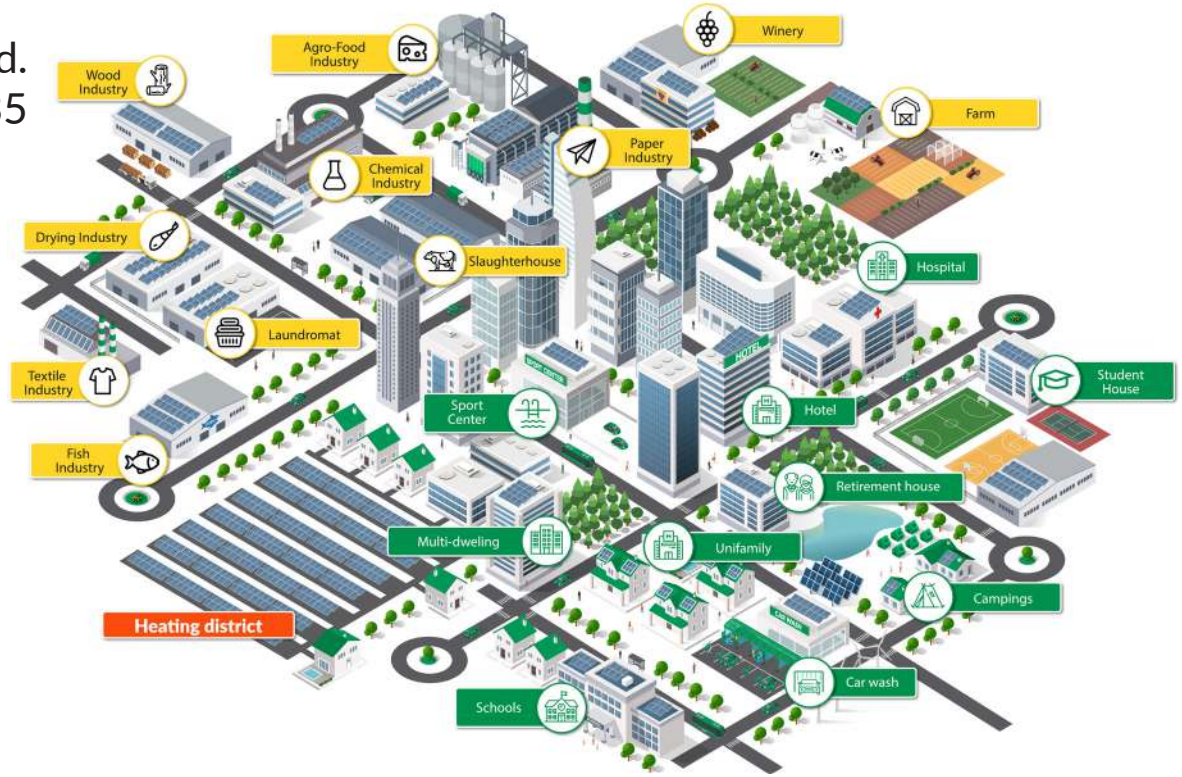
aHtech®

The right solution for your sector.

The most efficient and cost-effective solar panel, 100% made in Spain, in the world. More than 35,000 m2 installed in more than 35 countries.

They already trust Abora.



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HYBRID SOLAR PANELS

SUCCESS CASE STUDIES

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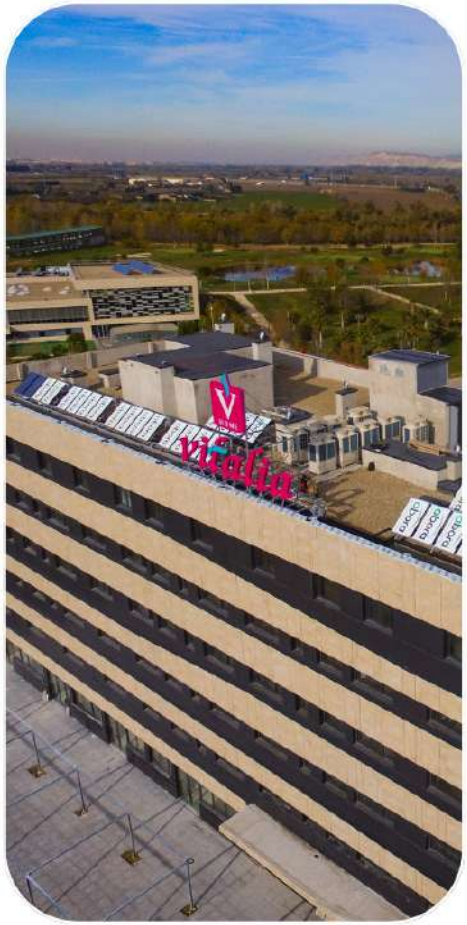
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HYBRID SOLAR PANEL INSTALLATION

Club Natació Barcelona

Sector
Polideportivo

Emissions avoided
774.809 KgCO2/Año

Hybrid solar panels
1041

Years of amortisation
7

Year of installation
2023

Location
Barcelona

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HYBRID SOLAR PANEL INSTALLATION

Hotel Hacienda Na Xamena

Sector
Hotel

Emissions avoided
61.070 KgCO2/Año

Hybrid solar panels
63

Years of amortisation
6

Year of installation
2023

Location
Ibiza

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HYBRID SOLAR PANEL INSTALLATION

Hotel Iberostar Jardín del Sol

Sector
Hotel

Emissions avoided
170.325 KgCO2/Año

Hybrid solar panels
162

Years of amortisation
7

Year of installation
2022

Location
Mallorca

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HYBRID SOLAR PANEL INSTALLATION

Industry Arpa

Sector
Industria

Emissions avoided
59. 360 KgCO2/Año

Hybrid solar panels
112

Years of amortisation
6

Year of installation
2018

Location
Zaragoza

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HYBRID SOLAR PANEL INSTALLATION

Rest Home Vitalia

Sector
Residencia de ancianos

Emissions avoided
33.920 KgCO2/Año

Hybrid solar panels
64

Years of amortisation
5

Year of installation
2018

Location
Málaga

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HYBRID SOLAR PANEL INSTALLATION

Car Wash

Sector
Industria

Emissions avoided
40. 715 KgCO2/Año

Hybrid solar panels
63

Years of amortisation
7

Year of installation
2020

Location
Huesca

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HYBRID SOLAR PANEL INSTALLATION

Rest Home Campotejar

Sector
Residencias de ancianos

Emissions avoided
27.030 KgCO2/Año

Hybrid solar panels
51

Years of amortisation
5

Year of installation
2019

Location
Granada

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HYBRID SOLAR PANEL INSTALLATION

Sport Centre San Cugat

Sector
Polideportivo

Emissions avoided
84.800 KgCO2/Año

Hybrid solar panels
160

Years of amortisation
6

Year of installation
2018

Location
San Cugat

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HYBRID SOLAR PANEL INSTALLATION

Residence Single-family

Sector
Unifamiliar

Emissions avoided
6. 376 KgCO2/Año

Hybrid solar panels
14

Years of amortisation
6

Year of installation
2018

Location
Zaragoza

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HYBRID SOLAR PANEL INSTALLATION

Embassy of Belgium in Spain

Sector
Residencia

Emissions avoided
16.102 KgCO2/Año

Hybrid solar panels
12

Years of amortisation
7

Year of installation
2023

Location
Madrid

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The hybrid to save more with your solar installation.

Thanks to their dual power generation, electricity and heat, our hybrid solar panels silently convert sunlight into energy for decades. Their hybrid technology makes it possible to achieve four times as much energy as photovoltaics in a minimum of space.

Ask for your study at abora-solar.com

www.abora-solar.com/en/