

How it works

Invisible Solar is a new photovoltaic technology that takes the shape of any building material. Every Invisible Solar module is not just a photovoltaic module but - in effect - an active architectural component with multiple functions:

► Photovoltaic module

Produces clean and renewable energy.

► Roofing, flooring and wall-covering

Same functions of reference material.

► Self-cleaning action

Surface does not need to be washed.

The original architectural component is copied with a non-toxic polymeric compound in which are embedded common monocrystalline silicon cells. Cells functioning is allowed by the special surface of Invisible Solar, that is opaque and transparent at the same time, even if their are perfectly hidden:

► Opaque

Surface is opaque to the view, and imitates the typical appearance of reference building material.

► Transparent

Although surface appears opaque, its composition allows solar rays to filter inside it and feed the hidden solar cells.

Benefits

✓ Renewable energy in historic towns

Invisible Solar respects aesthetic of architectural and landscape heritage by integrating itself to the buildings without damages for their cultural values.

✓ Sustainability

Invisible Solar produces clean energy, uses sustainable materials and contributes to purify air from smog.

✓ Energetic independence

Everyone is can produce their own energy everywhere and independently from big suppliers.

✓ Stop to uncontrolled urban development

Invisible Solar promotes reuse of existing buildings and discourages uncontrolled urban development.

Orientation

Invisible Solar modules must be oriented to South to reach the best efficiency. East and West are suitable for installation but with a reduced efficiency. North is strongly discouraged.

Contact Us

www.dyaqua.it/invisiblesolar
invisiblesolar@dyaqua.it

INVISIBLE SOLAR

Photovoltaic modules for heritage assets



Integration

Perfectly blends in the environment where it's installed.



Self-cleaning

Mold, lichen, pollution and dirt do not stick on the surface.



Strength

It resists trampling up to 500 kg, hail of over 1 kg and chemical pollution agents.



Eco-friendly

Made of non-toxic and recyclable materials, also from nature or reuse.



dyaqua
INVISIBLE SOLAR

INSTALLATION
EXAMPLE

Pompeii 2018

Experimental plant of Invisible Solar Rooftiles, installed in 2018 at House of Vettii inside Pompeii Archaeological Park. This installation is part of a wider project named "Smar Archaeological Park" and developed by Italian Ministry of Culture and CNR (National Council of Research).



INSTALLATION
EXAMPLE

Split 2022

Invisible Solar Rooftiles installed on a public building inside the historical town centre of Split (Croatia).

Products

FIND MODULES SUITABLE FOR YOUR PROJECT



IS001
Rooftile

DIMENSIONS: 46 x 19 x 15 x h8 cm
NOMINAL POWER: 11,10 Wp
DIMENSION OF 1KWP: 91 pcs



IS005
Tuscan Roman Tile

DIMENSIONS: 45 x 33 x 29 x h 2,5 cm
NOMINAL POWER: 16,57 Wp
DIMENSION OF 1KWP: 61 pcs

Supplies include the specific connection system to create strings.

Invisible Solar products are entirely artisan-made and manufactured on order.

Manufacturing times change according to requested quantity and production area workload at ordering.

Any possible customization is binded to feasibility evaluation and minimum order.

*For further information, please email us at:
invisible solar@dyaqua.it*



IS006
Beaver Tail Tile

DIMENSIONS: 38 x 18 x h 1,5 cm
NOMINAL POWER: 7,10 Wp
DIMENSION OF 1KWP: 141 pcs



IS007
Rectangular Shingle

DIMENSIONS: 38 x 18 x h 1,5 cm
NOMINAL POWER: 7,10 Wp
DIMENSION OF 1KWP: 141 pcs