SOUND SOLAR PANEL
SSP
Double Evolution

WWW.SOUNDSOLARPANEL.COM

SOUND SOLAR PANEL

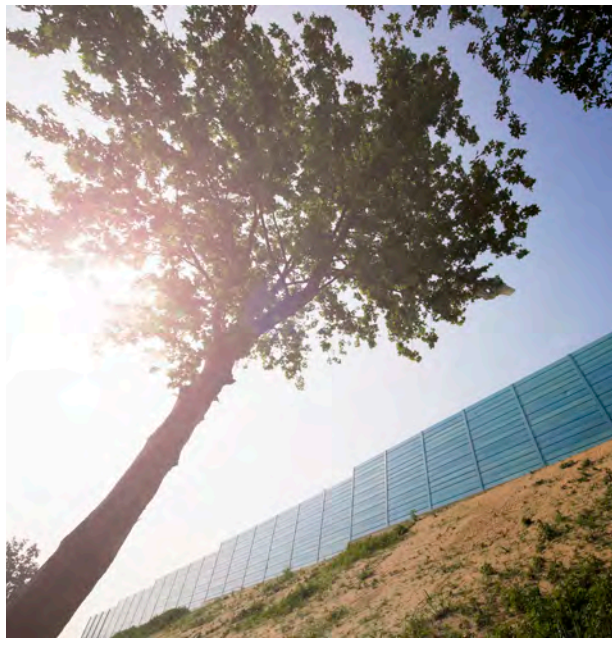
Our goal: solving the noise problem without any cost

POSSIBLE APPLICATIONS

Along transport routes with high noise pollution, such as roads, motorways, railways.

Near sensitive sites, such as schools, hospitals, parks, residential areas.

On industrial sites, to reduce the noise caused by production and manufacturing activities.



BENEFITS OF OUR PROPOSAL

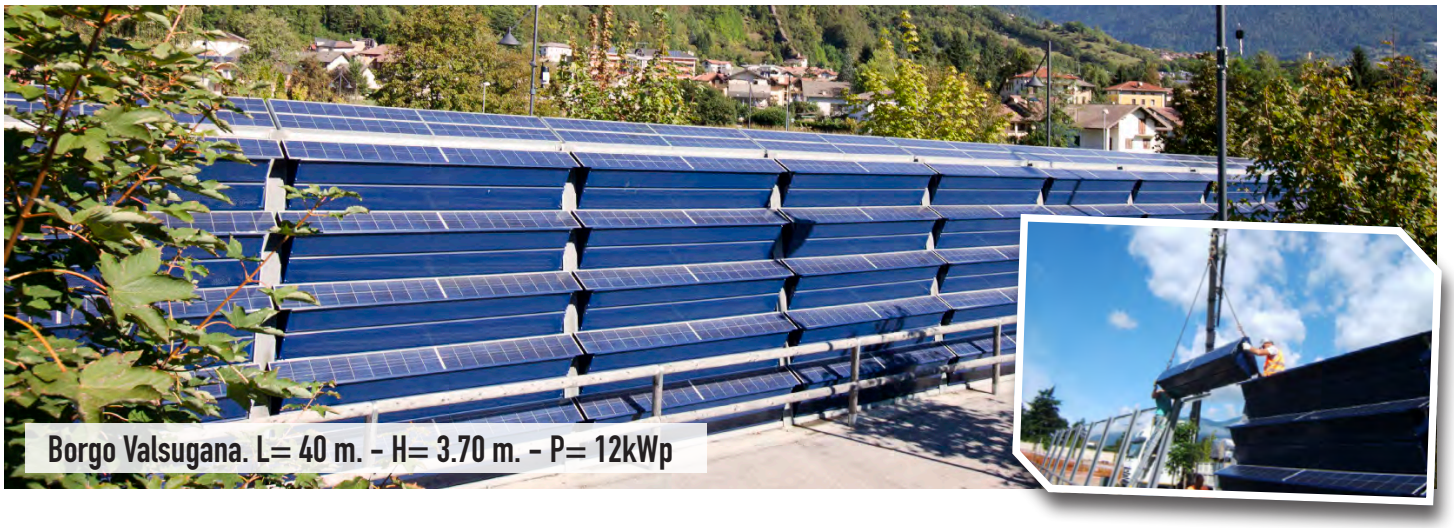
Solves the noise problem

Produces electric energy

Benefits from tax savings

It pays for it self

It is financed by contributions



Borgo Valsugana. L= 40 m. - H= 3.70 m. - P= 12kWp

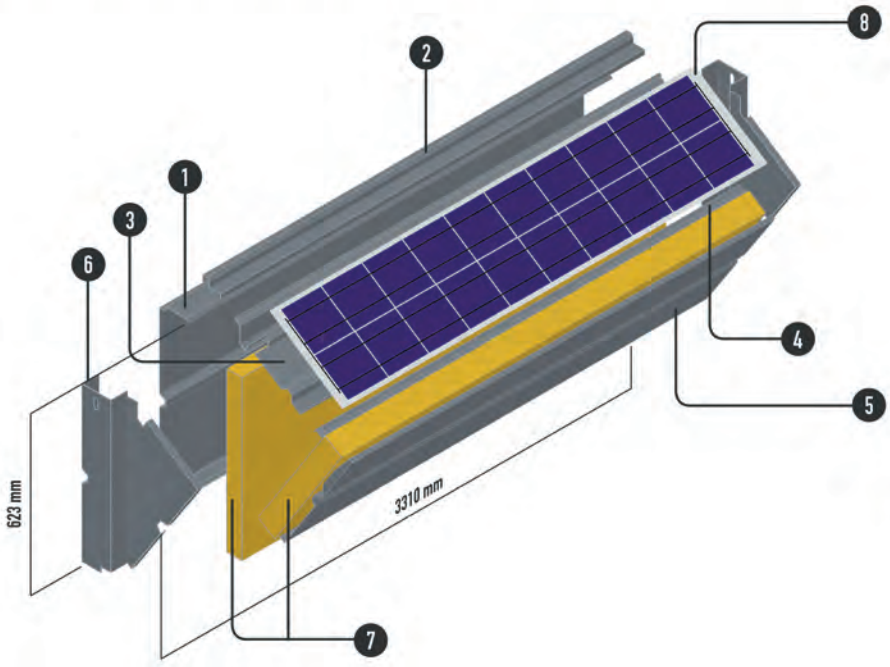
Oppeano. L= 1700 m. - H= 4.60 m. - P= 833 kWp

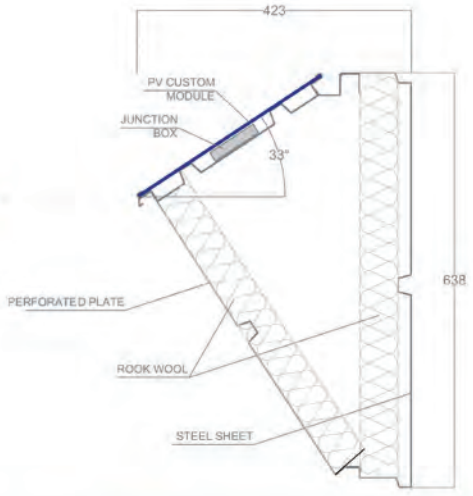
Cittadella, L=123m - H=3.70m - P=41 kWp

Lodi. L= 106 m. - H= 5.00 m.- Designed for P= 42 kWp

SSP (Sound Solar Panel)

SOUND-ABSORBING PANEL INTEGRATED WITH PHOTOVOLTAIC MODULE





GENERAL DESCRIPTION

1. Solid, coated galvanized-steel sheet, sound-proofing element
2. Upper connection element, shaped male-female for laplinking
3. PV module supporting element, shaped for ventilation and cables duct
4. PV module fixing element, for maintenance and substitution
5. Perforated, coated galvanized-steel sheet, with six different diameters from 2.5 to 7mm
6. Lateral cover with EPDM soundproofing and vibration-damping bulb seal
7. Double mineral wool blankets, nominal density 70 kg/m^3, with anti-dust fabric
8. Photovoltaic module

PROPERTIES

SOUND-ABSORPTION	A4 (UNI EN 1793)
SOUND-PROOFING	B3 (UNI EN 1793)
WIND LOAD	2,5 kN/mq (UNI EN 1794)
STONE IMPACT	OK (UNI EN 1794)
PV MODULE POWER (Pmax)	180 Wp
PV TEMP. COEFFICIENT FV (Pmax)	– 0,46 %/°C

STEEL

- S235J0 according to UNI EN 10025
- Thickness 0.8 mm
- Galvanized and painted with polyester-thermosetting powders

ETWAY
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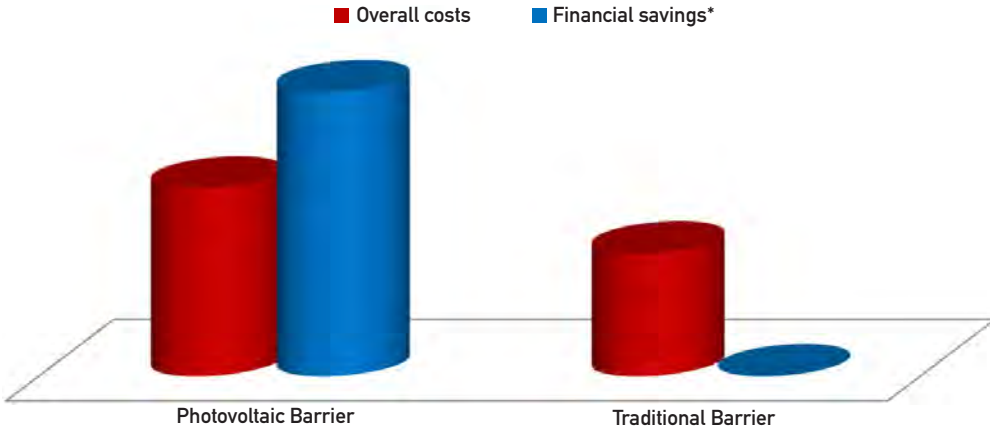
Via Kufstein, 1 - 38121 Trento, Italy
info@etway.it - www.etway.it

TECHNICAL-FINANCIAL SIMULATION

DESCRIPTION	U.M.	VALUE
Length Barrier	meters	300,00
Concrete curb	meters	0,40
Diffractor	input	YES
Tilt Barrier	degrees	0
Vertical Barrier Height	meters	3,52
Total tilt barrier height with diffractor	meters	3,92
Surface Barrier reference (Length x Height top included)	Sqm	1.174,50
Nominal Power	kWp	103,84
PVWatts Calculator – Rome	kWh/kWp/year	1.360
First year energy	kWh	141.222,40
Loss of power in ten years	%	6%
Energy sale/ Net metering / Energy direct consumption	€/kWh	0,180
Return from renewables in the first year	€	25.420,03
Return from renewables after 20 years	€	609.147,46
Return from renewables after 25 years	€	799.127,24
Loss in CO_2 releasing into the atmosphere	kg.	71.546

SOLAR RADIATION IN EUROPE

COMPARATIVE GRAPH 25 th YEAR



* Saving arising from energy production

CERTIFICATIONS


AISICO

ADoP017/2131/CPR/2017

Notified Body 2131 Reg. (UE) n. 305/11

ROAD TRAFFIC NOISE REDUCING DEVICES

REFERENCE STANDARDS: EN 14388: 2005

CERTIFICATION ABOUT

THE DETERMINATION OF PRODUCT PERFORMANCE

N° ADoP017/2131/CPR/2017

COSTUMER: ETWAY S.R.L. VIA KUFSTEIN, 1 – 38121 TRENTO (TN) - ITALIA

MANUFACTURER: ETWAY S.R.L. VIA KUFSTEIN, 1 – 38121 TRENTO (TN) - ITALIA

DEVICE DESCRIPTION: Acoustic panel MODEL: SOUND SOLAR PANEL Dimension: 2950X623X135 mm

Composed by:

- triangular shape wrapper made of galvanized steel, painted with polyester powders, oven cured after all the processing phases, thikness 0.8 mm;
- one side is holed with six differents diameter, from 2.5 to 7.0 mm with drilling percentage 34 %;
- internal mineral wool pad, 50 mm thikness and 70 kg/m³ density, placed close to the full side, mineral wool pad of 80 mm thikness and 70 kg/m³ density close to the holed side;
- painted galvanized steel caps, antivibration and acoustic EPDM baloon seals between the panel and the supporting post;
- guides for the photovoltaic panel insertion.

COMMERCIAL MARK: SOUND SOLAR PANEL

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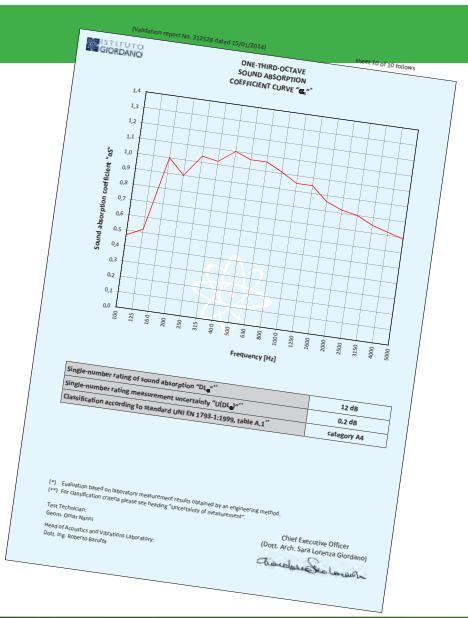
ISTITUTO GIORDANO

ONE-THIRD-OCTAVE SOUND ABSORPTION COEFFICIENT CURVE "α_s"

Sound absorption coefficient "αs"

Frequency [Hz]

Single-number rating of sound absorption "DL_α" (*)	
Single-number rating measurement uncertainty "$U[DL_\alpha]$" (**)	12 dB
Classification according to standard UNI EN 1793-1:1999, table A.1 (**)	0.2 dB
	category A4

(*) Evaluation based on laboratory measurement results obtained by an engineering method.
(**) For classification criteria please see heading "Uncertainty of measurement".

Test Technician: Geom. Omar Nanni

Head of Acoustics and Vibrations Laboratory: Dott. Ing. Roberto Revolfo

Chief Executive Officer (Dott. Arch. Sara Lorenza Giordano)

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etway energy transport way

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