

PHOTOVOLTAIC VENTILATED FAÇADE



Contemporary architecture is showing an increasing interest in the different materials available for use in ventilated façades and roofs.

Inspired by this rise in interest, Onyx Solar has designed a photovoltaic ventilated façade and roof system, a product with undeniable aesthetic value and unbeatable in terms of heat insulation that generates free electricity from the sun.

The generated electricity can be translated directly to the mains supply system, thus being marketed to the large suppliers, or be used for personal consumption (isolated system).

The thermal surrounding methods can result insured by a building.

Depending upon the orientation of the façade, building location, and the photovoltaic technology implemented, the electricity produced by our system in just one square meter can vary between 20-40 kW/h per annum; sufficient energy to supply up to 10,000 hours of light from 20W energy saving light bulbs.

In addition to the obvious environmental benefits, in countries where the sale of electricity is regulated and incentive based, through an obligatory subsidy from the electrical companies, one meter squared of ventilated roof can generate a net benefit in its lifetime (25 years) of more than 1000 Euros.

From a financial point of view, depending upon the type of building and its location, our ventilated façades and roofs can achieve an Internal Return Rate (IRR) greater than 25% and an outstanding payback time.

TEN KEY ADVANTAGES OF THE VENTILATED PHOTOVOLTAIC FAÇADE

1. Electricity production
2. Energy saving due to insulation properties (up to 40%)
3. Greater insulation performance
4. Elimination of thermal bridges
5. Thermal inner comfort
6. Reduction of acoustic pollution
7. Wall and roof protection
8. Greater energy yield under low irradiation conditions
9. Greater energy yield under high temperature conditions
10. Attractive and innovative design

Sera Solar Ltd. Sti.

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