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PHOTOVOLTAIC SOLAR ENERGY
BIPV-BUILDING INTEGRATED
PHOTOVOLTAIC VENTILATED FACADES

The integration of photovoltaic modules in buildings can be carried out in very different ways and gives rise to a wide range of solutions.

The facades provide a first view of the building to the visitor. It is the means that architects and designers usually use to convey the idea of the building and the wishes of the client through a language of shapes and colors. If you are interested in projecting a futuristic, sophisticated and ecological image, photovoltaic materials will greatly help.

The Solar Innova modules of photovoltaic integration technology used in the BIPV installations are multifunctional. That is, in addition to generating electricity, they also meet all the requirements demanded by conventional facades: protection against weather agents, heat and acoustic insulation. On the other hand, they suppose an innovation of aesthetic character with respect to the conventional facades.

The function of the coating of ventilated curtain wall systems is to provide protection against the weather and serve as an architectural design element. This outer cladding is fixed to a rear load bearing wall with a fastening system (staples and / or rails).

An air layer between the load-bearing wall (or the insulation layer attached to it) and the building envelope vents the solar modules from the rear and can be used for the placement of the electrical components and sockets.

Different materials, such as plaster, ceramic tiles, bricks, glass or metals can be used for this type of construction. In this way, facades can be created using a wide variety of material

combinations, together with photovoltaic modules. Above all, the systems of ventilated curtain walls are taken into account in projects for the renovation of energy efficient façades.