



Béjar Market



Operazione co-finanziata dall'Unione Europea, Fondo Europeo di Sviluppo Regionale, dallo Stato Italiano, dalla Confederazione elvetica e dai Cantoni nell'ambito del Programma di Cooperazione Interreg V-A Italia-Svizzera. (Codice progetto 603882)

Introduction

The case study concerns the rehabilitation of the historic Béjar Market in Salamanca (Spain). The BIPV system was integrated into a 176 m² skylight.

Aesthetic integration

The skylight is made up of photovoltaic modules with different colours and degrees of transparency to create a composition inspired by the neoplasticism of Piet Mondrian.

Energy integration

The estimated photovoltaic production is approximately 9,000 kWh per year. The energy produced is partially stored in an electric storage system to be then used by the various systems in the building and partially transferred to the network.

Technology integration

The BIPV system is made up of glass-glass modules (Onyx Solar) in which there is a thin amorphous silicon film in various colours and degrees of transparency.

Lessons learnt

It is estimated that the energy produced can prevent the emission of almost 6 tonnes of CO₂ per year.

PROJECT DATA

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|--|--|
| Project type | renovation |
| Building use | commercial |
| Heritage constraint | listed building |
| Building construction technique | pre-industrial |
| Building address | C. Ronda de Navarra 8, Béjar, Salamanca, Spain |

BIPV systems

BIPV SYSTEM DATA

| | |
|------------------------------------|--|
| Architectural system | skylight |
| Integration year | 2011 |
| Active material | amorphous silicon |
| Module transparency | semi-transparent |
| Module technology | glass-glass, hidden PV, standard modules |
| System power [kWp] | 6.7 |
| System area [m²] | 176 |
| Annual FV production [kWh] | 9000 |

BIPV SYSTEM COSTS

Stakeholders

BIPV system designer

Onyx Solar

BIPV components producer

Onyx Solar

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