

BIPV-Insight

Web services, BIPV, prescription

We are connecting professionals in building information modelling to boost the building-integrated photovoltaics (BIPV) industry

Overview

Building-integrated photovoltaics, or BIPV, are used to replace conventional building materials to generate electrical power. Our innovation, BIPV-Insight, is a 'Software as a Service' platform (SaaS) that provides high-performance computing for BIPV simulations on 3D models. This enables designs with a high cost-performance ratio to be developed, while also connecting stakeholders and ensuring products meet expectations.

The inspiration for the project was born out of a meeting between experts in solar technology (TECNALIA) and high-performance computing experts for solar simulation (HPC-SA) about innovations in building information modelling and expectations from the architectural community (e.g. sustainable design).

We plan to launch the commercial phase of our development in July 2016.

Market potential

Unlike traditional software, BIPV-Insight is a 'FREEMIUM' solution: professionals get the software for free and will be charged for PREMIUM services. Web services focus on connecting experts and making information about BIPV projects and commercial issues shareable.

BIPV-Insight allows crucial information to be obtained from the Building Information Modelling (BIM) and the project's configuration to be set up more quickly and cost-effectively. It also allows the right expert in BIPV implementation to be identified for the requirements of the project.



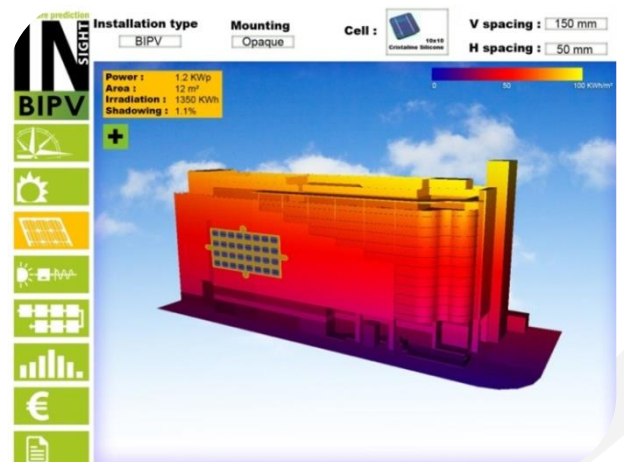
Key facts

Project started: 2013

KIC: KIC InnoEnergy

Theme: Building-integrated photovoltaics

No. of partners: 5



BIPV-Insight interface – module selection

KIC InnoEnergy support

KIC InnoEnergy provided KAVA funding (KIC Added Value Activity funding) and support for pre-commercialisation of the solution. They put their trust in the business model and helped the consortium to take over the project when difficulties arose (the withdrawal of a crucial partner and replacement by a new company).

Societal impact

Our solutions should boost BIPV visibility, therefore encouraging a shift to new energy production and energy use options for any type of building: commercial, residential, and institutional. This includes new constructions and refurbishments. Our solutions also contribute towards reduction of the environmental impact of every citizen and the adoption of better behaviour (micro grids, prosumer status, etc.).

Achievements so far...

- Simulation software completed
- Business plan completed and validated



Simulation technology showing the integration of photovoltaics into a building

Software prediction



Teamwork

Our partners are TECNALIA, Enerbim, TFM (EMTE-COSMA group), BEAR-iD Sustainable Urban Planners + Architects and the University of Bordeaux.

It has been pretty easy to work together and to commit to the innovative business model because we are a small team (five partners). Each partner focuses on their specific tasks and we have adopted an AGILE process to develop the software and the platform for our web services.

More information

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www.kic-innoenergy.com/innovationproject/our-innovation-projects/bipv-insight/product-bipv-insight/



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