



## Photovoltaic Car Shelter & Skylight installed at the premises of Patras Science Park by the Institute AEIPLUS

February 2016

The **Institute for Innovation and Sustainable Development, AEIPLUS**, is a partner in the European Project **“DIDSOLIT-PB: Development and implementation of decentralized, innovative solar energy technologies in public buildings in the Mediterranean countries”**, a strategic project implemented under the European ENPI-CBCMED Program, funded by the European Commission. It is an interdisciplinary program, bringing together 7 partners from the regions of Catalonia (Spain), Crete & Western Greece (Greece), Marsha-Matruh & Al-Iskandanyah (Egypt), Al-Balga & Irbid (Jordan). The overall objective of the DIDSOLIT-PB project is to promote and implement innovative technologies and transfer know-how in the field of **decentralised, small scale, solar energy systems** that may be integrated in **public buildings**. All this to be achieved through cross-border public-private partnership and cooperation among the above mentioned entities.

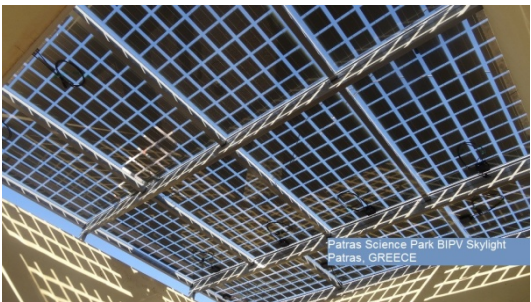
**Patras Science Park**, located at the region of Western Greece, agreed that the project partner **AEIPLUS** constructs and installs innovative solar technology at the public building of Patras Science Park. More specifically, the installation includes a **car shelter** and a **skylight** at the **premises of Patras Science Park**. The solar technology used focuses on the integration of photovoltaic panels into the building (BIPV), with a **total installed capacity of 21 kWp**, connected to the electricity network of the building. The energy produced is used to cover the building's electricity needs.

The Institute of AEIPLUS successfully carried out the aforementioned installation under DIDSOLIT-PB project which consists of the following subsystems:

**BIPV – Car Shelter:** Semi-transparent glass laminated crystalline photovoltaic panels. It consists of 66 frames with output 240 Wp each, size 1850 x 1200 mm (approximately) 30% transparency. These panels were placed on special aluminum frames which were then attached on an appropriate metal construction - shelter.



**BIPV - patio / skylight:** Semi-transparent glass laminated crystalline photovoltaic panels. 22 frames were required with output 240 Wp each, size 1850 x 1200 mm (approximately) 30% transparency. These panels were placed on special aluminum frames which were then attached on an appropriate metal structure above the patio.



These PV panels were connected via suitable converters to the electricity network of Patras Science Park.

In February 24<sup>th</sup> 2016, a **Delivery and Acceptance Contract was signed** between Institute AEIPLIOUS and Patras Science Park. The Photovoltaic Car Shelter and Skylight is innovative and unique in Greece and is expected to become a center of attraction for the scientific and educational community as well as for the local and regional authorities.