

STRATEGIC PROJECT

Fostering the implementation of small-scale innovative solar systems in public buildings



DIDSOLIT-PB

Development and implementation of decentralised solar energy-related innovative technologies for public buildings in the Mediterranean Basin countries



Project
funded by the
EUROPEAN UNION



REGIONE AUTONOMA DE SARDIGNA
REGIONE AUTONOMA DELLA SARDEGNA

The project in brief

The rise in energy demand has aggravated the dependence on fossil fuels imports of most of the Mediterranean countries. With a forecasted increase by 70% in energy consumption over the next 20 years, there is an urgent need to secure alternative energy sources especially for buildings - commercial and residential - which share of total energy used is higher than 40%, i.e. superior to the industrial or transport sector.

Within this complex energy scenario, **DIDSOLIT-PB** aims to implement small-scale solar systems for public premises including innovative solutions such as photovoltaic glass-substitute sheets, solar cooling or photovoltaic coverage of buildings roofs and car parks shady-covers. Technology transfer and design of dedicated financing instruments will also be addressed by the project.

Beneficiary

Autonomous University of Barcelona (Spain, Cataluña)

Partnership

1. Institute for Innovation and Sustainable Development (Greece, Dytiki Ellada)
2. Egyptian Association for Energy and Environment (Egypt, Al Iskandanyah)
3. Al-Balqa' Applied University (Jordan, Al-Balga)
4. University of Alexandria (Egypt, Al Iskandanyah)
5. Incubator of New Enterprises of Chania (Greece, Dytiki Ellada)
6. Eco-System Europa, SL (Spain, Cataluña)

Specific objective

To promote and implement innovative technologies and know-how transfer of small-scale solar energy decentralised systems in public buildings/premises

Expected results

- Improved knowledge of the status of development and market-availability of innovative small-scale solar power technologies for in-buildings applications
- 10 solar power applications implemented in 10 selected public buildings
- Increased solar power created (260 kWp) and produced (380 MWh) in the selected buildings
- Enhanced interest of local private and public stakeholders for decentralised applications of innovative solar energy systems in public buildings and facilities
- Innovative solar technologies, know-how and best practices transferred

Main activities

- Mapping and analysis of existing small-scale solar technologies
- Production of standard “Conceptual Designs” concerning the solar-power applications developed (including thermoelectric dish-stirling and parabolic-trough, photovoltaic glass-substitute sheets and thin-layer/film sheets)
- Drafting of reports addressing the rules and regulations for installing decentralised solar power systems in the regions concerned by the project
- Organization of conferences, workshops and training sessions for promoting the developed solar solutions

Target groups

- Owners and users of pilot public buildings
- SMEs specialized in solar energy
- National and local authorities in charge of renewable energies

Final beneficiaries

- Owners of public buildings
- Technicians and researchers
- Technological centers

Duration

36 months (December 2012 - December 2015)

Budget

- Total budget: € 4.438.553
- Programme contribution: € 3.994.694 (90%)
- Project co-financing: € 443.859 (10%)

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