



This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 609532.



ener2i Innovation Voucher Georgia2015

IV_GE_2015_37 Grid-tie Solar Photovoltaic Systems for Tbilisi Street Lighting

Objectives

- Gaining know-how and enhancing the qualification of Georgian specialists working on Solar PV Systems through the study visit to Czech Republic (in accordance with EU standards)
- Designing a high power grid-tie solar PV system for Tbilisi street lighting (in accordance with European standards); as a next step installation of the system is planned. System's approximate peak power will be around 500kW;

Expected outcomes

- Being the first large grid-tie solar project of a kind to be implemented in Georgia;
- Installation of solar modules in Tbilisi, at the bare, rocky slopes, not ideal for recreational areas and urbanization. Solar modules stretched along the slope will improve the look of the landscape. Reducing soil erosion and rock falling process;
- Expert's newly acquired know-how will be used to design, install and maintain grid-tie solar PV systems. Becoming an important milestone of the project as well as for the implementation of similar projects in the future.

Company description

'Sun House' Ltd was established in November 2011. The company's fields of activity cover research and implementation of renewable energy projects. Since its establishment, the company has implemented up to 400 off-grids solar photovoltaic projects. In recent years Sun House has cooperated with different foreign companies such as Sunny Watt and Glomex from Czech Republic.

Research Partner

Brno University of Technology; the "Photon Energy" Company in Czech Republic;

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