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Entirely plastic solar thermal panels

Objective

The project mission is to promote the use of renewable energy resources by demonstrating their environmental friendliness and significant economic benefits.

The project purpose is to create a prototype of novel solar panels consisting entirely of plastic materials, though including all components: solar energy absorber (collector), glazing, casing, frame, thermal insulation, back covering, and fittings and tubes. This allows to sufficiently reduce the weight and cost of the panel and facilitates the installation operations.

Expected outcomes

- Acquisition or production of necessary tools for production of a solar collector
- Optimal structure of solar systems and optimal automated method of assembling for future large scale production

Company description

"Arevik" is a small company which is engaged in use of solar energy, in particular solar thermal energy. The personnel of the company consists of experts in the fields of engineering, electronics and equipment with experience both in mechanical engineering and innovative solutions in the energy sector and in creating and adapting of effective solar systems for the heating of water and air.

Research Partner

Wroclaw University of Technology, Poland (<http://www.portal.pwr.wroc.pl>)
Institute of Energy Futures (IEF) / Brunel University London, GB,
(<http://www.brunel.ac.uk/energy-futures>)

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