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ener2i Innovation Voucher Competition Belarus – 2. Call Optimizing performance of solar cells and modules based on heterojunction with intrinsic thin layer (HIT) technology

Objective

The goal of the project is to check the idea of improving the performance of solar cell modules by applying wear-resistant, anti-smuggle, transparent coating onto the cover glass of modules. There is no such a solution on the market yet.

Expected outcomes

- Synthesis of organosilicon reagents based on perfluoropolyethers
- Construction of a small device for recording the electricity generated by HIT solar cell with and writing of a software for data collection
- Glass modification by antireflective wear-resistant coating
- Mounting of a set of solar cells on the roof of Izovac building and registering of production of electricity for a 3 month period
- Conducting climate testing at Next Energy EWE Research Centre for Energy Technology and discussing the results and the details of spin-off company organization

Company description

“Izovac” is a group of private engineering companies. The head office and the R&D and design departments are in Minsk. Production sites in Minsk and Taiwan. Izovac has a very strong relationship with the scientific community in Belarus, Germany, Taiwan, etc. Specialisation on development and industrial application of advanced technologies for thin-film and nano-structures preparation. Izovac produces equipment for the formation of thin film structure in the sectors of photovoltaics, display production, optics and electronics.

Research Partner

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