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Solar Powered Biomass Gasifier

Objective

The project focuses on the use of solar energy for heating biomass during gasification, using a near-black cavity absorber for receiving necessary energy from concentrated solar energy sources (know-how). The project purpose is to provide additional theoretical and experimental studies of the developed and patented new technology of "Solar Powered Biomass Gasifier" (**SPBG**), as well as to find the optimum parameters for its implementation.

Expected outcomes

- Creation and testing of a laboratory prototype of SPBG
- The modeling and optimisation of technology
- Draft business plan for the beginning of the commercialisation of SPBG

Company description

"Barva Innovation Center" Ltd. (www.barva.am) was established in 2005 and specializes in the design and manufacturing of different hi-tech products for various industries. The center has established contacts with local and foreign universities and producers. Any innovative process goes through the total product life cycle – from the development of the concept until the introduction on the market. Barva provides the following services: production and installation of hi-tech devices and equipment, such as systems for the suppression of hails, systems for rain stimulations; equipment for production synthesis including the transfer from biomass to gas, solar (photo-electric) cells.

Research Partner

Leibniz Institute for Agricultural Engineering, Potsdam, GERMANY
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