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## ener2i Innovation Voucher Armenia 2015

### Solar Powered Water Generator from Air

#### Objective

This project focuses on the study of a device called "Water from Air Generator" (**WAG**), which extracts water from ambient humid air. It operates entirely on solar energy. For this purpose the "solar cooler" (patented) is used, which again is based on a closed cycle operating in an environment of inorganic salt hydrate with high heat of water evaporation.

The main goal of the project is to carry out further experimental studies on this new technology and to find the optimal parameters for its implementation.

#### Expected outcomes

- To find out the optimal parameters for the implementation of the developed technology
- Creation of the industrial design for the solar powered "WAG"

#### Company description

EcoAtom LLC is a company created in 1991 which is involved in research and development of industrial technologies in various fields, such as renewable energy sources, hydrometallurgy, processing of nuclear waste and recycling of industrial waste. The team of the given project is very active in research on the production, processing and characterisation of water generator and PV systems & components for solving energetic and environmental issues.

#### Research Partner

Institute for Renewable Energy, Warsaw, Poland

Technische Universität München, Germany

Voronezh State University of Engineering Technologies, Russia

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