Israel NewTech
National energy & water program

The Israel Export & International Cooperation Institute

tenoga
Renewable Energy

Category: Renewable energy.
Sub Category: Low Concentration Solar Photovoltaic.

Company profile

Tenoga is an Israeli start up company recently founded in partnership with a French industrial entrepreneur. Its goal is to develop, manufacture and market through its sister French company, Yuma, a new tubular solar photovoltaic system.

Year of establishment: 2011

Number of employees: 2

Background of the company

Start up Company founded by two high background engineers, Prof. Claude Oiknine and Zalman Shwartzman, in partnership with a French entrepreneur, Frederic Navallon, CEO of Navallon Group. Three of them cumulate together hundred years of experience in Aeronautics, Electronics and Civil Engineering; during the last years they were intensely involved in various photovoltaic projects in Israel and France. For its first project, Tenoga uses a new patented concept of tubular photovoltaic module at low sun concentration; this concept has been defined and experimentally proven during years 2009-2010 by Claude and Zalman.

Technologies & products

General description:

The photovoltaic module consists in a glass tube including in its upper part a thin Fresnel lens. The lens concentrates the sun energy ten times along the bottom of the tube where a narrow strip of silicon cells is located. A one axis tracking system enables each tube to rotate and to follow the sun. All the cylindrical modules are easily implemented on a dedicated ready -to- be- used support that includes the exclusive self-cleaning system.

Function of the product(s):

Production of electricity in solar plants connected to the grid or off grid.

Objectives / Target companies

The project is to commercialize worldwide a photovoltaic technology for green energy production, based on a disruptive design, particularly relevant in sandy or dusty environment. The product is today in a prototype stage with one pilot installation located in Arava Solar Center (South Israel). Industrial development requires fund raising to begin in January 2013.