

Entrepreneurial ID «venture leaders» 2007



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“EnAirys PowerTech.”

«Clean Storage Solutions »

→ *Putting Air to Work to provide Clean Energy Autonomy from Renewable Sources*

Industry: «ENERGY»

Biography

As a power electronics engineer, it is a great and enriching experience for me to lead the development of these new energy conversion and storage solutions, that will enhance the use of renewable energies and thus help addressing the environmental and resources issues related to the world energy supply.

My participation to the Venture Challenge program has completely changed my technology-driven approach into a business-driven one, which seems to me a more pragmatic and efficient way to meet the needs of people. *“Give access to clean and free energy, to a maximum number of people around the world”* is my dream and the goal of this venture project. I feel very motivated and determined to tackle this challenge and bring it to success.

Company / project

EnAirys PowerTech is a leading developer of integrated conversion and storage solutions to provide our customers with a clean and sustainable power supply. Our storage concept is based on the natural elasticity of air; thus our solutions are environmentally harmless and therefore particularly suitable to circumvent the intermittency of renewable energy sources such as solar photovoltaic and wind turbines. Our innovative technology combines a new liquid-piston compression/expansion concept with specific power electronics & control units. This smart combination allows achieving a high efficiency together with a flexible and autonomous operation.

EnAirys’ solutions are unique because they are the one that can guarantee a clean and sustainable power supply for decades, only from renewable energy sources. *EnAirys* also aspires to offer customized services and products from the feasibility study to the follow-up services.

Our first targeted customers are off-grid households, fed by photovoltaic panels or small wind turbine, where *EnAirys’* products are the best solutions to perform the necessary day-to-night power shift or power bridging. This is a worldwide market with an important share in remote areas and emerging countries. The European market for off-grid houses, is estimated to about 40 B€ with an annual growth of 20%.

Other possible stationary target applications in the medium power range are sensible and strategic applications such as households, hospitals, telecommunication antennas, and military installations, whether grid-tied or not. *EnAirys’* products can be used as energy backup to provide an uninterruptible power supply. Renewable energy power stations such as wind farms and photovoltaic power stations are other stationary target applications in the high power range. The modular design of our products will ease the transition from low to high power applications.

Another important market segment is that of mobile applications. *EnAirys* aspire to develop a revolutionary concept of urban car: A compressed-air powered, energy autonomous city car. This car will be able to produce its own fuel, compressed air, with on-board photovoltaic panels. This will open a completely new market segment.

A demonstration installation is under construction for technology proof purpose. *EnAirys’* incorporation is planned in 2008 with an initial team of about six persons. A turn-over of about 10 M€ is targeted during the first year with a minimum annual growth of 100%. The break even is expected during the third year.

Join us as industrial or financial partner for this interesting and valuable venture; we will be pleased to welcome you onboard.