



HELBIO

One line pitch:

Helbio builds & sells 5kW potent hydrogen processors that produce off-grid electricity, using biofuels through unique clean technology at 0% pollution

Market Analysis:

Adobe, Apple, AT&T, Coca-Cola, eBay, Google, Honda, Microsoft, Walmart are adopting fuel cell technology. Primary benefits: small footprint, high efficiency, environmental performance. The fuel cell global market size was valued at \$3.21bn in 2014 and is expanded to grow to \$12bn by 2020. It is projected that the systems based on this technology will dominate the market by 2030 in a wide range of applications. The transportation segment is expected to emerge as the fastest growing, owing to increasing demand of hydrogen-powered cars trucks and special purpose vehicles. Applications: Automobiles, buses, trains, boats, ships, submarines and rockets can already run on hydrogen in various forms.

Value proposition:

Helbio has created a unique technology globally, that provides an innovative efficient and low-maintenance way to produce hydrogen as a fuel and electricity feeding and biofuel between natural gas, LPG and biogas. This makes electricity generation cost-effective (systems can reach efficiency levels higher than 80%), reducing greenhouse gas emissions (The outcome of the process of Helbio's reformer is electricity and hot water, 0%emmissions) Advantages of Helbio's product: Very compact High power/volume ratio Lower operating temperatures/ no flames Capacity ranges from <0.5kW up to >250kW. Completely silent Operates independently, for off-grid applications

Business Model:

2017-2018 Delivery of Prometheus 5, Existing Contracts and orders 2019-2020 Prometheus 5 assembly and Initial Sales Revenue 2020-2021 mass production of Prometheus 5 2021-2023 Full range of Operations

IP and Regulatory situation:

Patents: 1. Process of the production of hydrogen and electrical energy from reforming of bio-ethanol, US 6,605,376 B2 Granted 2. High heat integrated fuel processor for hydrogen production, PCT/GR2008/000028-US A1 Granted 3. Highly heat integrated reformer for hydrogen production, PCT/GR2008 /000029-US A1 Granted. 4, Heat integrated Reformer whit Catalytic Combustion for Hydrogen Production, PCT/GR2012/000004- US A1 Granted 5. Heat integrated Compact Fuel Processor with Catalytic Combustion for Fuel Cell Applications, PCT/GR2012/000011 -US A1 Granted



COMPANY PROFILE

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- **Location:**
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- **Founded in:** //11/2001
- **Employees:** 12
- **Financial information (€):**
 - **Company stage:**
Scalabilty phase
 - **Capital raised to date:**
 - **Monthly burn rate:**
 - **Capital seeking and date:**
- **Investors:**