



Pythagoras Solar has developed an innovative, sustainable solution that can easily replace traditional building materials... the solar window.

The Pythagoras Edge

The adoption of renewable energy is accelerating as the effects of climate change and energy security challenges become more apparent. Worldwide efforts are underway to simultaneously reduce energy consumption and generate renewable energy. Pythagoras Solar is uniquely positioned to lead this effort by applying its breakthrough technology to transform the world's largest consumers of energy – the buildings where we work and live. Pythagoras solar has developed an innovative, sustainable solution that can easily replace traditional building materials, help accelerate net zero energy deployment while providing attractive economics and aesthetics.

According to the United States Department of Energy, building operations account for up to 39 percent of the country's total energy consumption, costing \$425B a year, and 70 percent of its power plant-generated electricity. Further, a staggering 34 percent of this energy is lost through poor building efficiency. It also estimates that Building Integrated Photovoltaic (BIPV) technology has the potential to generate up to half of the electricity needed in the country¹ – at the place where it is needed most, the point of consumption.

Pythagoras Solar's innovative approach to solar windows leverages its patent-protected technology that combines energy efficiency and photovoltaic (PV) power generation while also offering optimized daylighting. Together, this makes it the leading "future proof" solution, ready for the real world and well positioned mass adoption.

Questions?

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Turning Facades Into Generating Assets™

The First Solar Window with Optimized Daylighting

Pythagoras Solar's Photovoltaic Glass Unit (PVGU) – or simply, solar window – uses optical technology, high-efficiency crystalline silicon, and advanced materials to provide the industry's highest transparency and highest density PV power generation in a standard double-pane window form factor, known as an insulating glass unit (IGU). This PVGU leverages the modularity and ease of installation of the IGU, is designed to meet advanced building codes and standards, can be optimized for a variety of uses and is eligible for incentives due to its energy and environmental benefits. The first products are designed for curtain wall and skylight applications and can be optimized for elevation, location, and climate zone. The combination of energy savings and energy generation provided by the PVGU allows the product to pay for itself in less than five years. Future products such as colored roof tiles and spandrels will provide a complete façade solution.

¹ "Five Technologies Set to Change The Decade," Forbes.com, Josh Wolfe, January 7, 2009

Currently, Pythagoras Solar is shipping on commercial installations and starting to deliver on a full pipeline of projects across the United States.

The Market Potential

Pythagoras Solar brings to market the first fully integrated PVGU that addresses the \$1B BIPV glass market which has an expected 20 percent compound annual growth rate (CAGR). This PVGU is gaining momentum within the fabricated flat glass for



PVGU Window

commercial buildings market, which is expected to grow to 42 billion square feet in 2012." (Freedonia Research, 2010). Its adoption is being accelerated by government subsidies focused on energy security and climate change. Unlike other BIPV applications the PVGU's triple value makes it quickly and easily adopted by the traditionally conservative construction industry– including architects, engineers, construction firms and building owners – bringing with it valuable economic benefits.

The Customer Buzz

Clients are already endorsing this innovative technology, excited for the opportunity to turn their facades into energy generating assets. As demonstrated with the fast growing pipeline of project leads of over 500,000 square feet, Pythagoras Solar's solar windows enable the top sustainability executives to deliver on their mission - an economically attractive, positive impact on climate changes while also providing the employees in the buildings to benefit from natural daylighting, improved thermal comfort and an environment that is more conducive to high productivity and personal fulfillment.

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The Sales and Channel Strategy

Pythagoras Solar's business model is structured around a partnering strategy, for faster market penetration and growth, and a fables manufacturing model, for capital efficient scalability and quality assurance. Much like the standard IGU, this PVGU is supplied to the market through glazing companies, making a seamless integration process into existing building design and construction practices, as demonstrated in the first installations.

The company's unique offering has attracted the interest of global glass manufacturers in the U.S., France, Germany and Japan, that are looking to embed the PVGU technology into their windows and bring to market a "Powered by Pythagoras" product."

In addition, by leveraging common manufacturing technologies, the company's fables business model is built on relationships with leading, large-scale materials and manufacturing companies. Partnerships with Arkema, China Sunergy, Flextronics, and several others allows Pythagoras to deliver capital efficiency, reliability and high quality through common manufacturing techniques and standard materials, and scale to meet global demand.

The Advisory Board

Pythagoras Solar's advisory board is comprised of world-class technical and business advisors including Pamela Samuels, a Principal at TRIO Partners LLC and President of Corridor Holdings Corporation, Rob Watson, Chairman, CEO and Chief Scientist of EcoTech International and Richard Voreis, CEO of Consulting Collaborative. The board focuses on critical business strategy and bringing Pythagoras'



PVGU Windows

innovative products to the global construction market. The goal is to enhance Pythagoras Solar's mission to accelerate BIPV technology for NZB and address the growing global demand for electricity through renewable energy solutions. In turn, this will broaden the awareness of the mass market potential for BIPV technology to make buildings more sustainable, energy efficient and profitable by revolutionizing the design and construction of buildings.

The Management Team

Pythagoras Solar's management team brings together a unique combination of entrepreneurial and multidisciplinary science backgrounds. The company was co-founded by Gonen Fink (CEO) and Dr. Itay Baruchi (CTO). Prior to founding Pythagoras Solar, Mr. Fink was instrumental in building CheckPoint Software Technologies (CHKP) from an early-stage start-up to a multi-billion dollar global market leader in Internet security. Widely known for his work on neuronal networks, Dr. Baruchi's work on biological memory was named one of the "50 Most Significant Scientific Breakthroughs" by Scientific American in December 2007.

Pythagoras Solar has raised \$21 million in capital from investors including Evergreen Venture Partners, Israel Cleantech Ventures, Pitango Venture Capital and Precede Technologies. Founded in 2007, Pythagoras Solar has offices in Israel, the United States and China.

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