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IDEAL POWER CONVERTERS

A Cleaner Future

The development of clean energy is clearly an important environmental issue and there's scope for ethical investment with a realistic return.

Texas, once synonymous with the excesses of the oil industry, is now leading the way in the advancement of cleaner energy supplies. These are exciting times in the Lone Star State and we're hearing about some world beating technology projects emerging from this part of the world. Ideal Power Converters is a business we've come across more than once and they look like they have a few aces up their sleeve in the race for clean energy.

Electronic power converters provide the infrastructure enabling the clean energy revolution including wind and solar renewable energy production, smart power grids, improved building efficiency, and electric vehicles. Ideal Power Converters (IPC) has patented, and is further developing, a power converter topology with dramatic improvements over conventional converter systems for photovoltaic, wind, battery, motor control and other applications.

"IPC's technology can disrupt several established billion dollar electronic power converter industries and make the United States the worldwide leader for this critical clean-energy industry," said Dr. Hamid Toliyat, Director of the Electric Machines & Power Electronics Laboratory at Texas A&M University.

The company recently entered into a major licensing agreement with Lockheed

Martin and received a contract to develop a next generation power converter system for forward operations of the US Army. This agreement validates and reinforces the strength of IPC's technology and patents. In addition to its initial two US patents, IPC has several additional patents pending in both the US and internationally for its revolutionary power converter technology.

IPC's initial product is a commercial-scale PV inverter system that weighs less than a tenth of conventional best-in-class competitors. It uses similar commodity materials and components, but controls the power flow in an entirely unique and patented method.

IPC's lower weight dramatically reduces cost of materials, manufacturing, shipping, and installation of large-scale PV inverter systems. Moreover, the efficiency and reliability of the inverter system is improved as well. It has successfully installed a pilot system at the Austin Convention Center that verifies its claims for superior weight, size, cost and efficiency. The company is completing development, including industry certification, and will begin volume production in 2011. Due to lower cost of materials IPC will manufacture its inverter products in Texas at less than half of the cost of competing systems, which are primarily manufactured and shipped from China.



"Due to the considerably lower price of materials IPC will manufacture its inverter products in Texas, at less than half of the cost of competing systems, which are primarily manufactured and shipped from China."

IPC is a member of the Austin Technology Incubator and has received over \$1million seed funding from the State of Texas Emerging Technology Fund and Battery Ventures, as well as a small seed-funding round from a top-tier venture capital firm. It also continues to seek government grants and collaborative opportunities at local, state and national levels. The company will manufacture its products in high volume in the US for distribution to both domestic and international markets, while generating much needed manufacturing jobs and exports in the clean energy sector. At this stage there is a requirement to raise addi-

THE INDUSTRY



FIVE YEARS AGO

"Going green" was beginning to interest more than just hippies. The sector emerged based on a new and global environmental awareness movement that caught the eye of investors. A new star in was born – surprisingly enough we didn't see an investment bubble.



PRESENT DAY

Clean energy and everything related to it is recognized as a sector that points to the future, a "sunrise industry" and a "feel good investment". Green investments have become popular through all classes of investors and continues to grow at a strong pace.



FIVE YEARS ON

Assuming the levels of investment in this sector are maintained or even increased, clean energy will have established itself as one of the economic pillars and will slowly make its move on fossil fuels. As investments increase, R&D will also flourish and make clean energy the standard in all fields of consumption.



tional outside funding in order to further develop technology during 2011/2012.

With two US patents granted and many additional US and foreign patents pending, IPC maintains secure intellectual propriety rights to its technology worldwide, which

will be a distinct advantage in securing safe level investment.

A recent IDC study indicates that US market demand for PV inverters is projected to grow by more than 60% annually for at least the next 3-5 years, surpassing one

billion dollars. Many analysts forecast that the US will become the world's largest market for PV products within 5 years.

For further information and up to date news visit their website online at idealpowerconverters.com

A WORD FROM THE EXPERTS



FIRST TIME INVESTOR

If you've been drawn to clean energy as an investment for a while, why not make money and do something great for the planet? Its important, however, to look at the business model and not the buzz of the sector.



ANGEL INVESTOR

Its a tricky field to get into, simply because there are lots of companies out there using the good name of clean energy and buzz words like "go green" and "sustainability" to attract investors.



HIGH RISK INVESTOR

If you like this sector, the best idea is to seek out a number of companies, do your due diligence and then invest a certain amount in all of them. Inevitably some companies will fail, others will succeed to get a piece of the pie so, if your spread is good you're likely to come out ahead.

