

Market Opportunity

The global energy markets generate over \$8 trillion in annual revenue. Theoretically, solar energy could be the largest source of clean energy in most regions. Solar energy has the potential to provide over 1,000 times the energy humans consume, that is over 300 times more than all other potential sources of renewable energy combined¹.

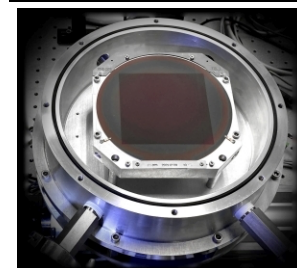
There are opportunities for solar PV that can be competitively produced domestically, using significantly less energy, materials and with lower carbon footprint than current crystalline silicon solar PV. To harness the sun's energy at a large-scale, sustainably and at a low cost, a new and far better solar cell technology is needed. (sources: ; 1. NASA and US DOE).

Technology

PI Energy has developed a novel and proprietary solar cell design to transform the solar PV market, to enable cost competitive clean energy for all regions, without need of subsidies, with materials that can easily be installed on most surfaces and enable new practical applications for solar energy.

The Company's PV materials are designed to be wrapped around any surface, making previously impractical surfaces available for solar PV, including curved surfaces. This breakthrough approach is possible by PI Energy's solar cell technology, which is made of 3 μm (micrometer) thick silicon with an internal light-trapping nanolayer. Most solar modules today are made of traditional c-silicon, with solar cells of 300 to 600 μm in thickness. Using 99 to 99.5% less semiconductor silicon gives PI Energy big advantages in material precursors and fabrication, while resulting a solar cell design that enables multiple module advantages:

✓ 99% less semiconductor	✓ Ultra-flexible	✓ Non-toxic
✓ Excellent high temp. perform.	✓ Stability	✓ Lightweight
✓ <u>Low-cost</u> manufacturing	✓ <u>Low-cost</u> precursors	✓ <u>Low-cost</u> installation



Funding

PI Energy has raised over \$17 million in equity funding, and was awarded grants from the National Science Foundation and the California Energy Comm.



Team

Our team includes over a dozen veterans with decades of experience in clean energy innovation.

Commercialization

PI Energy is working on completing its next milestone: technical development to provide future commercialization partners with hardware for evaluation. There are separate pilot installations planned across market applications including: electric vehicles, infrastructure and industrial buildings. PI Energy's goal is to be a leading provider for next-generation solar PV, for new solar PV markets.



Contact

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