

Sunseeker Energy Holding AG receives verification of solar power system

- Output at 39% of the sun’s energy independently verified by specialist engineering group
- Sunseeker technology superior in terms of cost to produce and area required to generate similar output of other solar solutions

Schindellegi (Switzerland), 27. February 2009 – Sunseeker Energy Holding AG has received independent validation of its technology from Tonkin Engineering and Science, a specialised consulting firm with expertise in energy and electrical engineering services. The technology test observed an efficiency of the Sunseeker solar system of 39%.

“This result exceeded our expectations of system performance. The possibility of converting 39% of the sun’s energy into electricity in a production design could herald a new era of photovoltaics,” states Antony Howard, one of the founders and Director of Sunseeker Energy Holding AG. “The ability to achieve this efficiency level of 39% compares extremely favourably when compared with alternate solar technologies, which on average are achieving efficiency conversion ratios of around 10.5 %, based on currently available information. The efficiency of the Sunseeker Energy system, coupled with our knowledge of producing highly accurate tracking systems at low cost positions us to compete very effectively against flat panel manufacturers in large scale projects.”

“In addition, it allows us to take what has traditionally been a technology deployed as a large and complex capital intensive structure and replace that with low cost pre-manufactured units that can be installed more simply. To have this performance efficiency verified by a firm such as Tonkin is not only extremely pleasing, but allows us to state our outputs with confidence,” Howard adds.

How Sunseeker Energy compares

	Traditional solar panels	Proprietary Sunseeker Energy solar system	Improvement achieved by Sunseeker Energy over average traditional solar panel
Efficiency	Between 4.64% to 16% ¹ depending on cost Average 10.47% ²	39% ³ Typical efficiencies between 32 to 35%	200 to 300%
Area required (per kW)	Between 7.3m ² to 21.5m ² depending on chemistry Average 9.61m ² ⁴	3.125m ² ⁵	230 to 600%

The unique combination created by Sunseeker Energy of performance efficiency and area required, coupled with the low cost of the photovoltaic wafer used in the Sunseeker system, creates a strategic cost advantage for Sunseeker Energy over alternate solar solutions.

¹ Currently in manufacture and freely available cell assemblies

² AERGA testing of commercially available panels, 2008 Document number 160167

³ Peak observed efficiency.

⁴ AERGA testing of commercially available panels, 2008 Document number 160167

⁵ Exclusive of shadow zones to be accounted for with use of tracking

Sunseeker Energy has developed a new concentrated solar energy unit that dramatically reduces the active solar panel area per megawatt. In a stable, production context design, the system developed by Sunseeker's engineering team typically yields 20-22 Watts of electricity from a photovoltaic wafer of approximately 1 square centimetre. This is fed by a 300x300 mm square lens, and managed by an electronic system that increases overall daily performance of the wafers. Sunseeker systems are protected by patent application.

About Sunseeker Energy Holding AG

Sunseeker Energy is a solar energy company committed to developing new generation solar and hybrid power technologies for sustainable energy use throughout the world. Sunseeker Energy has developed a new concentrated solar energy unit that reduces the active solar panel area per megawatt.

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