

**For Immediate Release:**

## ***SunDog Solar receives NYSERDA Grant for Solar Thermal Demonstration Project***

**Chatham, New York – October 1, 2007** – SunDog Solar @ SOLAQUA has been granted a \$22,280 research and development contract by the New York State Energy Research and Development Authority (NYSERDA) for a year-long solar thermal demonstration project installed at SunDog's facility in Chatham, NY.

Under the NYSERDA contract, SunDog Solar will install demonstration models consisting of three configurations of the most efficient solar collectors currently available, flat plate collectors and vacuum-sealed evacuated tube collectors. In addition to the demonstration models, SunDog Solar will launch an interactive *real-time* website, plans to publish a series of reports and journal articles discussing performance, and plans to develop training curriculum and seminars to benefit New York State installers, designers and policy-makers. The published performance evaluations and data comparisons for energy output will generate vital information for engineers, who can apply the information to optimize system designs for commercial sites.

*"We are extremely excited to be working with NYSERDA and Peter Skinner PE, our solar thermal engineer. This project will definitively compare these two kind of collectors and give us real side by side data," said Jody Rael, President and Founder, SunDog Solar.*

The solar thermal arrays will be positioned side-by-side to gain a truly comparative analysis. Flat-plate collectors are currently the most common type of solar collector for domestic hot water systems and residential space heating. These collectors have the ability to heat liquid up to 180°F. In comparison to flat plate collectors, evacuated tube collectors are a newer technology capable of achieving extremely high temperatures (170°F to 350°F). Evacuated tube collectors are frequently used for commercial and industrial hot water needs, or residential space heating.

*"Flat plate and evacuated tube solar collectors are two very different technologies for producing hot water. These technologies have different operating characteristics that can affect which are more effective for a given application. To date, a side-by-side comparison of these solar collector types has not been conducted in New York. SunDog Solar, with support from the New York State Energy Research and Development Authority will conduct a side-by-side evaluation of these solar collector technologies. The project's results will provide useful information to help system designers select the right solar collector technology for different jobs. The solar thermal system that will be installed at Kling Magnetics is projected to save more than \$1,166 annually in propane expenses," said Robert M. Carver, P.E. Senior Project Manager, New York State Energy Research and Development Authority.*

**SunDog Solar @ SOLAQUA** provides solar electric systems, solar hot water systems, bio spray foam insulation, and comprehensive home assessments by BPI-certified professionals. The company recently installed a 12.5 kW solar (Photovoltaic) system and a solar hot water heating system at their facility. The company routinely hosts seminars for building professionals and engineers, and participates in renewable energy forums, conferences, and consumer home shows throughout New York State. For more information please visit [www.sundogsolar.net](http://www.sundogsolar.net) or call 518.392.4000

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