

HYDRO GREEN ENERGY, LLC: MOVING HYDROKINETIC POWER FORWARD



Hydro Green Energy

Hydro Green Energy, LLC (HGE) is a renewable energy company based in Houston, TX that designs, builds, operates and sells hydrokinetic power systems that generate electricity exclusively from moving water without having to first construct dams or impoundments. Hydro Green Energy closed its Series-A funding in April 2008 with a \$2.6 million investment from the Quercus Trust, a prominent investor in alternative energy companies with intellectual property. HGE is presently in discussions for its Series-B round, which it soon expects to close.



Hydro Green Energy's technology platform operates in rivers, tidal areas and oceans. HGE can also deploy its equipment at existing hydropower projects (called Hydro+™), which bolsters the overall clean energy output of the existing project in an environmentally-sound manner. HGE holds U.S. Patent #6,955,049, as well as 43 international patents or pending international patents. There are 87 additional U.S. patents pending on the company's technology.

Only a few years in operation, HGE is moving forward and on a path to be generating power in November 2008 at its first Hydro+™ project in Hastings, MN. That project will serve as the United States' first ever commercially-operational, federally-licensed hydrokinetic power project. The company holds 16 hydrokinetic preliminary permits from FERC. Hydro Green Energy is in various stages of development in Alaska, Louisiana, Maine, Minnesota, Mississippi, New York and Texas. The company is also negotiating nearly a half dozen international developments.

Hydrokinetic energy holds great promise as a new, carbon-free, domestic energy source. A 2007 study by the Electric Power Research Institute (EPRI) found that the U.S. could develop at a minimum 13,000 MW of river (in-stream) and ocean-based (current, tidal, wave) hydrokinetic energy by 2025. Earlier estimates by the Department of Energy (DOE) showed even greater potential. In short, there is a vast American hydrokinetic resource waiting to be tapped, and doing so will bring numerous energy and environmental benefits to America's electricity consumers.

Hydro Green Energy's hydrokinetic energy projects are attractive for the following reasons:

- **Clean and Renewable:** Since flowing, naturally occurring water is its "fuel source," Hydro Green Energy's electricity is pollution-free and renewable.
- **Quickly Deployable:** Depending on the site and project size, Hydro Green Energy is able to construct and commission a hydrokinetic energy system in as little as one year.
- **Powerful and Efficient:** A July 2006 NASA SATOP fluid dynamics study found that HGE's patented turbine design will produce at least 240 percent more power than other hydrokinetic turbines, which are presently in consideration or in use at other projects. These results were independently verified by two entities in 2007. And, the company's first turbine has the highest efficiency rating in the industry, meaning it will convert more potential energy into usable renewable electricity than any other device currently in the industry.
- **Environmentally-Friendly:** Hydrokinetic power technologies to date have demonstrated no impact on water quality and no impact on aquatic life. And, Hydro Green Energy has the slowest spinning turbine in the industry, which will ensure that its technology is the most benign in the industry. These technologies hold tremendous potential as clean, low or no-impact technologies. In order to advance the understanding of hydrokinetic technologies, however, Hydro Green Energy is performing extensive fish, water quality and avian studies at its first project at a cost of \$500,000 and will release the study results to the public.
- **Reliable:** Capturing energy from moving water can provide baseload power – 24 hours a day, 365 days a year. And, Hydro Green's systems are highly scalable, from off-grid small projects to utility-scale power projects.

If you are interested in learning more about Hydro Green Energy, please contact Mark R. Stover, Vice President of Governmental & External Affairs, at 877-556-6566 x-711 or at mark@hgenergy.com