



Hydro Green Energy

HYDRO GREEN ENERGY:

Providing U.S. Green Collar Employment Opportunities

Hydro Green Energy (HGE) is a renewable energy company that designs, builds, operates and sells hydrokinetic power systems that generate electricity from moving water without having to first construct dams or impoundments. Hydro Green's systems operate in rivers, tidal areas and oceans. 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 its technology.

Hydro Green is also able to deploy its equipment downstream from existing hydropower projects (called Hydro+™), which increases the clean energy output within the project footprint. Hydro Green's first Hydro+™ project is expected to begin operations in December 2008 in the City of Hastings, MN. The Hastings project is the United States' first-ever commercially operational, FERC-licensed hydrokinetic power facility. FERC approved the project by a 5-0 vote on December 13, 2008.

The development of the Hastings project has resulted in a number of exciting, high-paying employment opportunities in several states. It has also created work for those who had lost work to overseas competition. The employment activities that resulted from the Hastings project will be replicated on a much larger and more permanent scale as Hydro Green Energy's project portfolio rapidly grows. In other words, despite the great economic and employment uncertainty facing the United States workforce, Hydro Green Energy is providing work for Americans, creating local economic development and presenting exciting new opportunities to America's skilled workforce.

Below are the brief highlights, by company, of the "green collar" employment activities resulting from Hydro Green Energy's historic first project in Minnesota.

- **Aluminum Alloys** (*Sinking Spring, PA*) – Foundry that handled the pouring of the blades for Hydro Green Energy's patented turbine.
- **TC American** (*Waite Park, MN*) – Steel fabricator for the hydrokinetic units' superstructure. Turbine and array assembly.
- **Portable Barge Service** (*Newport, MN*) – Surveys, on-site final assembly and installation of the hydrokinetic power units. O&M service contract.
- **RPS Barge Company** (*Bagdad, KY*) – Barge manufacturing for hydrokinetic turbine array.
- **Manley Brothers** (*Valley Park, MO*) – Marine engineering and installation, with a focus on in-river industrial applications.
- **AA Precision Machine Company** (*Fall River, MA*) – Manufacturing and machining of the turbine shafts and hubs.
- **Normandeau Associates** (*Bedford, NH*) – Environmental consultants to Hydro Green Energy. Performing comprehensive fish mortality studies, mussel control plan, avian studies and water quality monitoring.
- **Concepts NREC** (*White River Junction, VT & Woburn, MA*) – Finalized the design of Hydro Green Energy's patented hydrokinetic system, comprehensive research & development on hydrokinetic systems, performed extensive engineering and modeling work and led the entire fabrication and installation process for the Hastings project.

The jobs for the MN project (61 total), which took approximately two years from design to installation, by phase of project and number, are listed below. These types of jobs will be replicated in much larger scale as future project sizes grow. The company also plans to hire as many as 30 employees in 2009.

- Design Phase (engineers, analysts, draftsmen): **8**
- Procurement Phase (buyers): **2**
- Fabrication Phase (foundry workers, welders, machinists, steel fabricators): **20**
- Installation Phase (construction workers, electricians, transportation, foreman): **14**
- Environmental (modeling, studies, reports, consulting): **15**
- Operations and Maintenance: **2**



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