



Hydro Green Energy
Energy for Humanity™

River, Ocean and Tidal Power from Hydro Green Energy, LLC

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Hydrokinetic Power

- Hydrokinetic power refers to the generation of power from the flow, current or velocity of water, whereas hydropower traditionally refers to power generated using dams.
- Since hydrokinetic power relies simply on water velocities, these power systems can be placed into sources of flowing water with minimal infrastructure or environmental impacts.
- Hydrokinetic power is cutting-edge waterpower.



Hydrokinetic Power Application Points

- Rivers (In-stream) – predictable/known flows and often at demand centers. Baseload power.
- Tidal areas – predictable tidal patterns, high velocity, areas where power is needed. Peak power.
- Oceans – current based projects, utility-scale potential, integration with off-shore wind facilities. Baseload power.
- Global potential .



Hydrokinetic Power's Benefits

- Renewable – water is the “fuel source.”
- Clean – no emissions, climate change friendly.
- Reliable – high capacity factors; peak power value as well.
- Energy Security – abundance of domestic locations.
- Affordable – competitive now with non-wind renewables, moving towards to wind power prices.
- Environmentally friendly – no impacts modeled or shown to date at demonstration projects.
- Creation of “green collar” manufacturing and engineering jobs.



About Hydro Green Energy, LLC

- Houston, TX based renewable energy company.
- Our power systems operate in rivers, tidal areas and oceans.
- HGE can also deploy at existing hydropower projects (Hydro+™) for 5-10% increase in output within existing footprint.
- Owns U.S. Patent # 6,955,049; 87 U.S. and international patents are pending.
- Developing river, tidal and ocean projects in Alaska, Connecticut, Maine, Minnesota, Mississippi, New York and Texas.
- Announced this week a strategic partnership with an offshore wind power developer.
- 1st project is expected to begin operations in October 2008 in Minnesota – will be 1st commercial, licensed project in U.S.

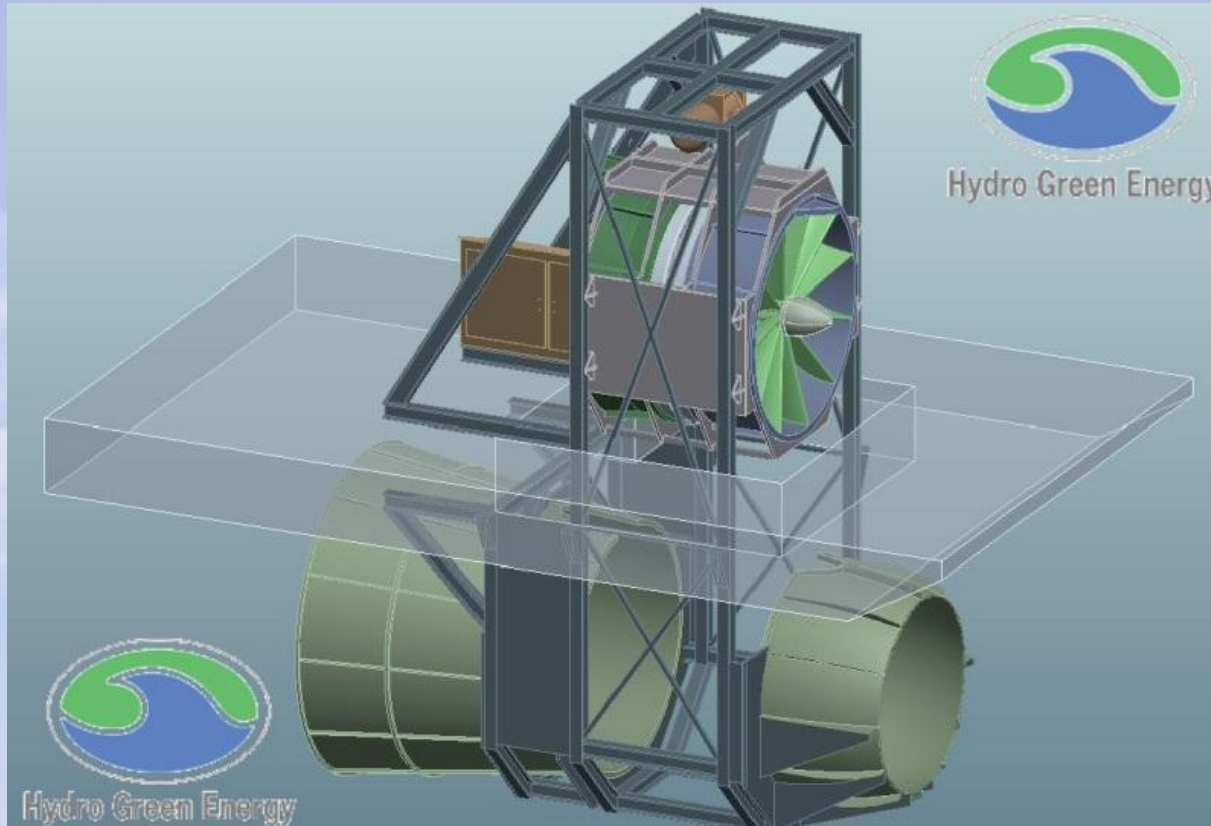


Hydro Green Energy's Partners

- Balch & Bingham – legal (energy)
- Bond & Smyser, LLP – legal (corporate)
- Concepts NREC – turbine design, engineering, R&D
- Hatch Energy – engineering, licensing
- Knight Piesold – project development, engineering
- Mason & Petruzzi – legal (intellectual property)
- Normandeau Associates – environmental
- National Hydropower Association (serve as vice chair of New Technologies Council)
- Texas Renewable Energy Industries Association



Our Patented Turbine in Service Position



Our Patented Turbine in Operational Position (model of actual unit for MN Project)



About Our Patented Turbine

- Turbine design is the most efficient and highest power producing hydrokinetic turbine unit in the industry
- NASA-sponsored independent fluid dynamics study found that HGE's patented turbine design for MN will produce at least 240% more power than pinwheel based turbines in use
- Confirmed in 2007 by:
 - Concepts NREC
 - Hatch Energy
- Three blades
- 21 RPM
- 12 feet in diameter, surface suspended unit

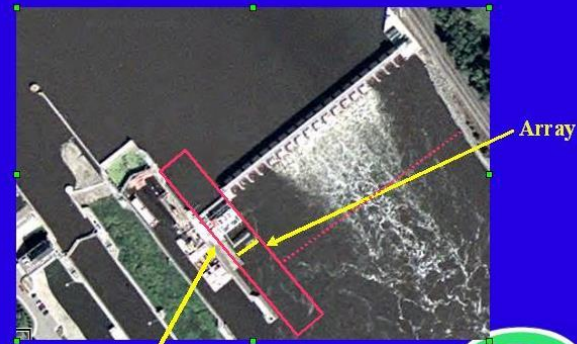


The First Project

- City of Hastings, MN 4.4MW Hydroelectric facility.
- A surface mounted array of hydrokinetic turbines.
- 70-200 KW installed.
- Up to a 5.7% increase in existing plant capacity.
- First commercially-operational, FERC-licensed project in U.S.



City of Hastings Hydro Project - 4.4 MW
Mississippi Lock and Dam #2



Substation, grid connection, metering facility all less than 250 feet from array = LOWER PROJECT COSTS



Hydro Green Energy



Policy Needs

- Certainty and timeliness in licensing/regulatory process.
- Allow technology to prove itself in the water (adaptive management).
- Inclusion of all hydrokinetic technology application points (rivers, tidal, ocean) in renewable energy incentives and policies.
- Large DOE R&D budget for all HK technologies.



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