

3G Energy optimizes wind power generation with industry leading technology suitable for Canada's unique climate and landscape

3G Energy uses non-intrusive, ecologically friendly building techniques to provide solar and wind energy generation for commercial, institutional and at-home use

Fast facts

Corporate profile

Located in Ottawa, 3G Energy builds and operates energy generation facilities on behalf of clients throughout the country. 3G Energy currently provides development and asset management services to three wind farms in Nova Scotia and consults with several First Nations who are proponents of wind farms on Manitoulin Island, Ontario.

Why Ottawa

3G Energy provides project design, construction and asset management functions to clients across Canada, including projects in Saskatchewan, Manitoba, Ontario and Atlantic Canada. The Ottawa International Airport – rated second worldwide in airport customer satisfaction – provides daily flights to all 3G Energy facility locations and allows 3G Energy executives to maintain close client relationships across the country and with its European suppliers.

Business advantage

Wind energy produces no air pollution or greenhouse gas emissions and is a renewable source of energy. In addition to its environmental benefits, the construction of 3G Energy's unique concrete wind turbine tower delivers substantial economic benefits to rural communities – communities that are made accessible for wind farms only through 3G Energy's unique concrete tower building techniques – through investment, lease income for landowners and taxes for municipal governments.

Rising fuel costs and increasing concern for the environment are driving the development of clean, reliable and sustainable energy systems. 3G Energy Corp. is a renewable energy project company that builds and manages environmentally non-intrusive wind and solar farms for commercial, institutional and private use.



Canada's Creative Economy Capital

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3G Energy is the second energy company for its management team. In 2002 the same team founded Vector Energy Inc., a publicly traded wind energy development company (TSXV:VWE). With Vector, the team created a large portfolio of wind development properties across Canada and competed successfully in competitive energy markets in various provinces. Canadian Hydro Developers Inc. purchased Vector in late 2006. 3G Energy was formed shortly after in 2007 and continues to work with Vector's former institutional, municipal and First Nation clients.

While the company's roots are in wind energy, 3G Energy recently began solar energy research and location assessments for various Ontario projects. Solar energy has become a major focus of interest in Ontario because of the Standard Offer Contract. Announced in March 2006 by the Ontario Minister of Energy, the Standard Offer Contract program will help Ontario meet its renewable energy supply targets while addressing pricing, contract terms and conditions

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Using a slip-forming concrete pouring technique for the tower and by building a special gantry system onto the tower to lift turbine parts, 3G Energy's innovative concrete wind turbine tower, along with the Vensys wind generator, can be placed virtually anywhere.

to electricity codes and licensing requirements needed to allow the connection of small generation projects to the electrical grid.

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3G Energy is a member of the Ottawa-based Canadian Wind Energy Association (CanWEA) – a non-profit trade association that promotes the development and application of all aspects of wind energy in Canada. CanWEA represents the wind energy community and its members are Canada's wind energy leaders. CanWEA's Ottawa location means 3G Energy executives can easily attend events, establish business relationships and share resources and information with the wind energy community and interested clients.

Business advantage

The traditional practice of installing wind turbines on steel towers is environmentally destructive and involves the use of massive and intrusive mobile cranes. Often these cranes

are hard to source and expensive to mobilize. These are limiting factors in the deployment of wind farms in remote communities where crane use may not even be possible. Using a slip-forming concrete pouring technique for the tower and by building a special gantry system onto the tower to lift turbine parts, 3G Energy's innovative concrete wind turbine tower, along with the Vensys wind generator, can be placed virtually anywhere. This building technique allows for wind farms to be economic in isolated areas where disturbance is low and wind potential is modest.

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In addition to servicing large clients, 3G Energy also provides renewable energy solutions to homeowners as a supplier for Home Energy, a European supplier of various green energy systems intended for the home user.

Future growth plans

The focus of 3G Energy's research has been to utilize much higher towers for small wind projects. Since wind energy density rises dramatically with height above ground, a turbine on a tall concrete tower can be more economical than the steel equivalent. The company is currently researching techniques to build extra-tall towers that do not compromise safety or quality while capturing high winds. The resulting taller tower building technique, expected by 2010, will create a market niche for 3G Energy that offers worldwide market potential.

Initiatives at the federal and provincial/territorial government levels, both planned and currently underway, are expected to reach a total installed capacity of over 5600 megawatts of wind energy, representing investments of over \$8.4 billion. This commitment to wind energy represents a huge potential and 3G Energy is planning future corporate growth to accommodate this need.

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