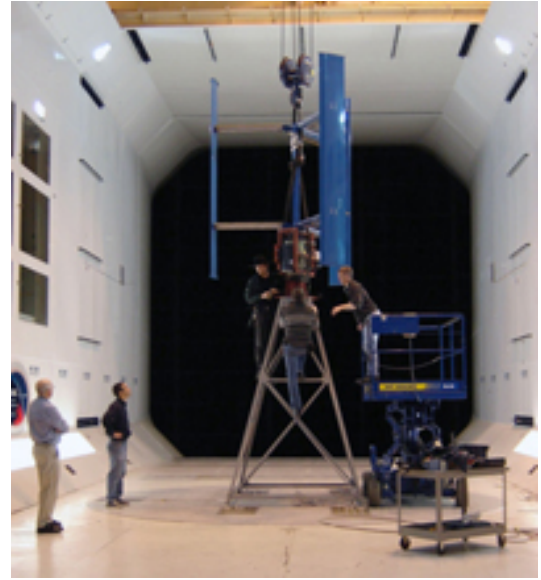


# News in brief

## Wind turbine performance testing

In April, 2006 NRC Aerospace tested the performance of Cleanfield Energy Corporation's vertical axis wind turbine in its 9 m wind tunnel. The Ontario-based firm is developing the turbine in collaboration with McMaster University's Mechanical Engineering Department for an urban wind energy pilot project in Hamilton. They plan to mount 150 of the 3.5-kilowatt units on 20 to 50 municipal buildings to generate electricity to reduce electricity costs and greenhouse gas emissions.

Tests conducted by NRC Aerospace on the 3 metre high by 2.5 metre diameter wind turbine provided Cleanfield with data on performance as well as on the aerodynamic loads that will act on it when attached to a roof. Pleased with the results, Cleanfield will return in mid 2007 for further tests on the turbine when it is connected to a unique generator (currently under development) that will generate electricity at low rotational speeds.



Cleanfield Energy Corporation's vertical axis wind turbine in NRC's 9 m x 9 m wind tunnel