



# Conestoga-Rovers & Associates Project Summary

## KEY PROJECT ELEMENTS

- Wind Energy Pre-Feasibility Assessment
- GIS-Based Constraint Mapping and Analysis
- Wind Energy Simulation Modeling
- Independent Third-Party Review of Proposed Installations
- Policy and Technical Expertise in the Development of Zoning Bylaw Policies

GENERAL INQUIRIES:  
[info@CRAworld.com](mailto:info@CRAworld.com)

WEB SITE:  
[www.CRAworld.com](http://www.CRAworld.com)

## WIND ENERGY SERVICES CORPORATION OF THE CITY OF BARRIE, ONTARIO



CLIENT: THE CITY OF BARRIE  
DURATION: 2007 AND ONGOING  
COST: \$25,000

CRA was retained by the City of Barrie to conduct a wind energy pre-feasibility assessment of several sites within its municipal boundaries. This project involved the generation of a GIS-based constraint map for the entire City, identifying significant features that would limit or restrict wind energy installations.

The constraint analysis included running a wind energy simulation model, assessing utility interconnection requirements with Barrie Hydro, identifying sensitive noise receptors within the study area, and identifying sensitive environmental areas or species that may be impacted by installation of wind turbines. CRA used this information to create a GIS-based constraint map and conduct a financial feasibility analysis. Industry-standard buffers were used in the development of the constraint map. The results were included in a final report, and a presentation was delivered to City Council and staff.

CRA also provided an independent third-party review of a proposed industrial setting installation of a 1.5 MW Vensys wind turbine at Jackson's Toyota in the City. CRA reviewed documents submitted to the City for a zoning bylaw amendment and Site Plan review. As part of this work, CRA reviewed the various studies submitted in support of the application, including noise, visual, shadow flicker, and ice shed impacts, as well as relevant Provincial Policy Statements. CRA prepared a detailed report outlining the findings of this review, including recommendations for further work.

CRA is now assisting the City of Barrie in the development of a draft zoning bylaw policy outlining requirements for wind turbine installations within the municipality. CRA will continue to work with the City throughout the development of the new zoning bylaw.