

# Enbridge Ontario Wind Farm

## CLIENT

Enbridge Ontario Wind  
Power, LP

## LOCATION

Kincardine, Ontario

## Project Description

The Enbridge Ontario Wind Farm is a 199.7 megawatt (MW) wind farm situated over 5,600 hectares of farmland north of Kincardine, Ontario.

## B&M Scope of Work

The AMEC Black & McDonald Joint Venture was contracted to build the following:

- 110 concrete wind turbine foundations
- 110 wind turbines erected
- 44/230 kV substation including all earth and concrete works
- Substation access road
- 65 km of overhead cable
- 52 km of underground trenching
- 48 km of access roads

Additionally, the project called for installation of step-up transformers and connections of the transformers to the substations and interconnection of the entire system to the IESO controlled grid. The project was designed to consist of 110 Vestas V82 wind turbines. A 44 kV connection system that included both underground cable and overhead power lines was installed to connect to the turbines. Additionally, a 44/230 kV substation was built to step-up the generation to 230 kV for connection to the Hydro-One-owned 230 kV circuits.