



All-Energy 2010 Exhibition and Conference
Aberdeen, U.K. – May 19, 2010 – Canada's support for new technology

The Windancer™ Wind Turbine Technology

About Wind Simplicity™ Inc

- Canadian company founded in 2004 by Sharolyn Vettese, B.A., & her father, Dr Alfred Mathieu, a former Director of United Nations
- Wind Simplicity's head office is in Toronto, and manufactures near Waterloo, ON (technology cluster)

I'll be talking about

- Decentralized electricity distribution
- Advantages of Wind Simplicity's modular technology for 3kW, 7kW, and 23kW horizontal wind turbines
- Components of an installed horizontal SWT system for connection to grid
- Local high-quality jobs being created

Decentralized Electricity Generation

- Convenience of a mobile phone
- Less infrastructure required
- Encourages renewable energy generation
- Can be connected in the feed-in-tariff (FIT) or net-metering programs
- Visible environmental leadership
- Independence from power outages

Consumers Want Action

- climate change
- rising electricity rates
- rising government deficits/debt
- aging or no infrastructure

The Windancer™ Advantage

- Simple
- Compact
- Lightweight
- Virtually noise-free and vibration-free
- Installed on a low tower (3m to 15m)
- Adaptable to many types of towers/uses

Innovative Features of the Windancer

- A rotor drum with 2 hubs at 45 degrees to each other (patent-pending)
- 8 balanced blades
- Windblades™ are shorter than conventional
- Distinctive windblade has a greater surface area
- A windtail that responds immediately to the changing wind direction

Innovative Features of the Windancer

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- A permanent lightning rod at highest point
- Alxion alternator:
 - radial flux
 - synchronous permanent magnet brushless
 - Direct drive
- Direct drive system – no gears or transmission
- Installed quickly like IKEA

Innovative Features of the Windancer

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- Highest quality parts and materials
- Designed with low-maintenance in mind
- Safety features for operation and maintenance
- . EN-61400-2 compliant

Innovative Features of the Windancer

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- Low start-up speed
- Maximize electricity generation at low wind speeds
- Designed to reduce turbulence, especially around rotor

Windancer Models & Prices

- 3 kW: CAD\$19,000
- 7 kW: CAD\$28,000
- 23 kW: CAD\$69,000
- Prices for the tower, power electronics, packing, shipping, and installation are extra

Wind Simplicity's Patents-Pending and Awards

- 5 patents-pending
- 3 national and international awards, and 2 finalist recognitions

What are the components to installing a Windancer wind turbine?

1. The wind turbine (the Windancer)
2. The tower
3. The power electronics (AC variable – DC-AC 50 Hz)

The Windancer can be installed on the tower in less than 1 hour

What are the trades and professions involved in installing a Windancer?

- Mechanical engineer
- Structural engineer
- Computer & Electrical engineers
- Electricians
- Riggers

Turn-key installation is available

- Wind Simplicity can provide from Canada:
 - - The Windancer, assembled on-site
 - - The tower, assembled on-site
 - - The power electronics components

What are we doing this for?



Please contact us

- Sharolyn Vettese, President, CEO & Inventor
- Wind Simplicity Inc.
- www.windsimplicity.ca