

## Summerhaven Wind Energy Centre

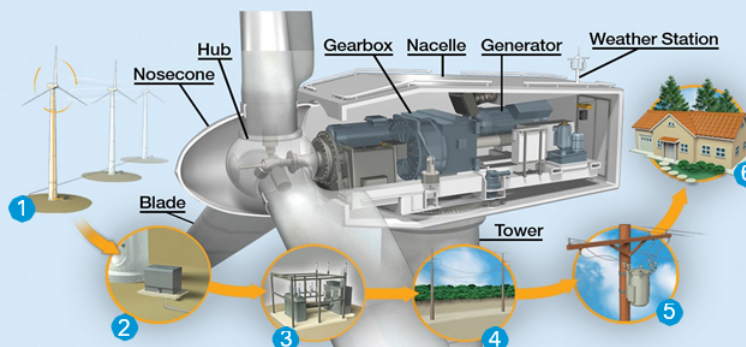


### About Cordelio Power

- Cordelio Power currently operates a portfolio of six projects, including four wind and two solar farms in Ontario
- Headquartered in Toronto, Ontario
- Visit us at: [www.cordeliopower.com](http://www.cordeliopower.com)

### How a wind turbine works

- 1 A computer turns the nacelle and the rotor (which consists of three blades and a hub) to face into the wind. The turbine blades turn a generator to produce electricity. For safety purposes, the turbine shuts down automatically if the wind speed exceeds 55 miles per hour.
- 2 The electricity travels down the inside of the tower through electrical cables to a transformer at the base of the wind tower.
- 3 From the transformer, the electricity flows through an underground collection cable to an on-site substation.
- 4 From the substation, overhead electrical cables take the electricity to an off-site substation and into high-voltage transmission lines.
- 5 The electricity goes from the high-voltage transmission lines into local distribution lines.
- 6 The electricity is then distributed to homes, schools, businesses and other consumers.



### Overview

- A 124.4-megawatt wind generation plant
- Has 56 2.2-megawatt Siemens turbines that are capable of generating enough electricity to power more than 32,000 homes
- Each turbine is approximately 80 meters tall from the ground to the hub in the centre of the blades
- Began commercial operation in Aug. 2013
- Located in Haldimand County, Ontario
- Operated by a subsidiary of NextEra Energy Canada, LP

### Benefits

- Provides employment opportunities
- Makes property tax contributions to the municipality
- Makes payments and contributions to local community
- Creates no air or water pollution
- Uses no water in power generation
- Allows land to remain in agricultural use
- Supports economy through purchases of regional goods and services