

## Mount Copper Wind Energy Center

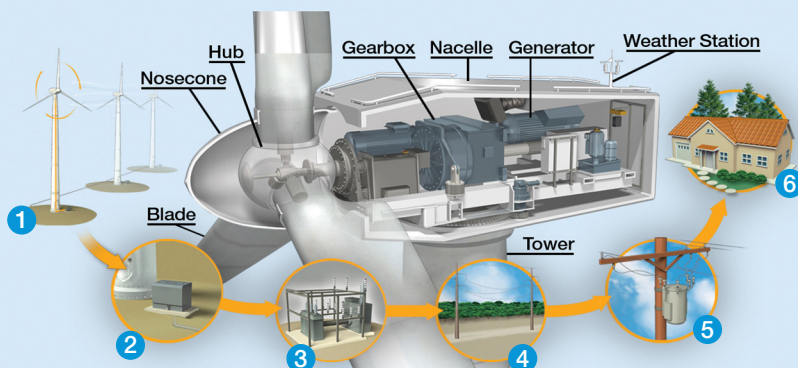


### About NextEra Energy Canada

- » A leading renewable energy developer in Canada
- » A subsidiary of NextEra Energy Resources, LLC, the largest generator of wind energy in North America.
- » Focused on developing electricity derived from clean, renewable sources throughout the provinces.
- » Headquartered in Toronto, Ontario
- » Current operating wind energy centers located in Alberta, Nova Scotia and Quebec
- » Visit us at [www.NextEraEnergyResources.com](http://www.NextEraEnergyResources.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

- » Located in Murdochville, Quebec
- » Operated by a subsidiary of NextEra Energy Canada
- » A 54-megawatt wind generation plant
- » 30 Vestas V-80 turbines that are capable of generating enough electricity to power more than 16,200 homes
- » Each turbine is approximately 67 meters tall from the ground to the hub in the center of the blades
- » Began commercial operation in 2004
- » Acquired by NextEra Energy Canada in 2008

### 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