



Local attractions

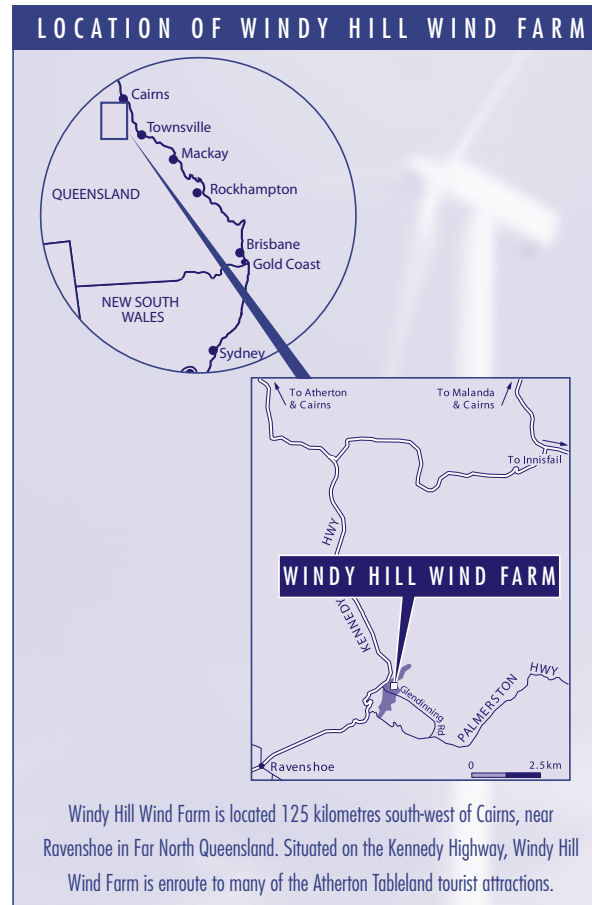
At 913 metres above sea level, Ravenshoe is the highest town in Queensland. This lush region boasts mountain pastures and unspoiled World Heritage rainforest. From Ravenshoe, Tully Falls Road leads 28 kilometres south through upland rainforest to Tully Gorge. Koombooloomba Dam is located a further nine kilometres along the road and is an ideal location for camping, swimming, water skiing, and barramundi fishing. This is also home to Stanwell's Koombooloomba Hydro. Other nearby attractions include the spectacular Millstream Falls, Australia's widest falls; the Millstream Express, a restored steam train; and Innot Hot Springs, natural mineral springs.

Other attractions

The Atherton Tableland hosts a range of unique attractions for tourists, including:

- Fascinating Facets and the Crystal Caves in Atherton, which allow visitors to explore the fantasy world of caves;
- Lake Tinaroo with more than 200 kilometres of shoreline through State Forest, the scenic Danbulla Forest Drive, and bushwalking;
- the famous Curtain Fig, near Yungaburra, which is more than 800 years old and stands 50 metres tall and 39 metres wide;
- Lake Barrine and Lake Eacham, at the top of the Gillies Range, which are crater lakes with crystal clear water and lush tropical rainforest surrounds;

- scenic drives through Malanda that reveal diverse agricultural activities and local wildlife, including species of rare rainforest animals and birds;
- the Millaa Millaa Lookout, which offers sensational panoramic views of the Tableland;
- Mt Hypipamee National Park, including the 61-metre diameter Mt Hypipamee Crater and the breathtaking Dinner Falls; and
- the topaz fields of Mt Garnet and spectacular cave-like lava tubes of Undara Volcanic National Park, which are located further west.



Contact the Ravenshoe Information Centre on (07) 4097 7700 for more information on these and other historic attractions on the Atherton Tableland.



ENVIRONMENTALLY SUSTAINABLE WIND POWER
LOCATED IN FAR NORTH QUEENSLAND

WINDY HILL WIND FARM

WINDY HILL WIND FARM

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BLADE

Three 22m long glass fibre reinforced epoxy blades attached to the rotor. The blades turn clockwise to a maximum of 38 revolutions a minute.

WIND SENSOR

Senses the speed and direction of the wind. A yaw mechanism turns the rotor to face into the wind.

GENERATOR

The generator is directly driven by the blades (see turbine cut-away diagram opposite).

TOWER

44m tapered tubular steel tower.

FOOTINGS

Each footing contains up to eight tonne of steel and 130m³ of concrete – 1.5m deep and up to 13.4m in diameter.

STATISTICS

Capacity	12 MW
Greenhouse Gas Savings	25,000 tonnes per year
Homes Powered	3,500 per year
Commissioned	2000

ABOUT STANWELL

Stanwell is one of Australia's leading generators of environmentally responsible electricity, with a portfolio comprising coal, wind, hydro, and bioenergy facilities. Every day, we are supplying reliable, low cost electricity to help meet the power needs of industrial and residential customers in Queensland and other Australian states served by the National Electricity Market.

About the project

Located on the aptly named Windy Hill on the Atherton Tableland, Windy Hill Wind Farm is capable of generating 12 MW of green electricity for distribution to customers.

Commissioned in 2000, Windy Hill is ideally positioned with good exposure to prevailing winds and in close vicinity to existing electricity transmission infrastructure that supplies the Atherton Tableland customer load centres.

There are 20 wind turbines at the site, located on top of tubular steel towers. Each turbine has three blades that are 22 metres long. The centre of the blades is 46 metres above the ground and the blades turn at a maximum speed of 38 revolutions a minute.

Environment

Wind energy is an environmentally sustainable source of electricity. Wind power produces no waste products and displaces the emission of greenhouse gases that would otherwise be released into the atmosphere from non-renewable electricity generation.

Windy Hill Wind Farm is accredited under the Federal Government Renewable Energy (Electricity) Act 2000 and as a Green Power Generator by the Sustainable Energy Development Authority.

In line with Stanwell's commitment to sustainable development, an extensive feasibility study was undertaken to investigate impacts of the development proposal. This study included wind monitoring, as well as external studies and consultation to investigate the impacts on aesthetics, noise and wildlife, and compatibility with the regional telecommunications system.



Converting wind energy into electricity

The sun heats the earth's surface unevenly, creating differences in air temperature and subsequent differences in air pressure. The result is what we experience as wind. The force of the wind increases as the difference in air pressure increases. The wind slowly turns the turbine blades, which drive a generator to produce electricity. This electricity travels through a transformer and into the local electricity network through transmission lines that distribute electricity to homes.

