What is a Wind Farm Photomontage?

A computerized simulation based on superimposing wind turbine images which are accurately located and scaled as to size onto a photograph for the purpose of creating a realistic representation of a proposed wind farm from a specific view.

In this instance superimposing Vestas V90 wind turbines on 80 m towers into photographs from various viewpoints within 30km of the Kent Hills Wind Farm.

“Pictures speak louder than words”
The addition of animation adds the realism of the blades rotating.

The human eye detects motion and focuses on movement.

Blade motion is only detectable within 7 – 10 km depending on sky colour. Beyond that, only the tower is usually detectable.
In April 2007, photos were taken from various viewpoints to create photomontage simulations for the initial phase of the wind farm.

In this presentation, the photomontage process has been repeated for some of these viewpoints. The proposed expansion turbines have been simulated alongside existing turbines in the new photos.
Simulation vs. Actual - Berryton

Pre-Construction (simulation)

April 4, 2007 5:30 pm

Post-Construction (actual)

March 5, 2009 10:20 am
Kent Hills Wind Farm Expansion

Photomontage Viewpoints

1. Hwy 910 near Caledonia Mountain Rd
2. Caledonia Mountain Road
3. Hillside Road
4. Prosser Brook Road
5. Prosser Brook – Second Elgin Church
6. Magnetic Hill – Moncton
7. Blackwood Lake Boat Launch
Viewpoint #1 – Present Day

Highway 910 Near Caledonia Mountain Rd - 4 km Northeast of Wind Farm

Photograph Taken: March 5, 2009 1:30 pm
Viewpoint # 1 - Showing Expansion Turbines
The new turbines are shown in orange for emphasis

Highway 910 Near Caledonia Mountain Rd - 4 km Northeast of Wind Farm

Photograph Taken: March 5, 2009 1:30 pm
Viewpoint # 2 – Present Day

Caledonia Mountain Rd – Forestry Access Trail - 7 km East of Wind Farm

Photograph Taken: March 5, 2009 2:00 pm
Viewpoint # 2 - Showing Expansion Turbines

Caledonia Mountain Rd – Forestry Access Trail - 7 km East of Wind Farm

Photograph Taken: March 5, 2009 2:00 pm
Viewpoint # 3 – Present Day

Hillside Rd Between Meadow and Hillside - 5 km West of Wind Farm

Existing Wind Turbines

Photograph Taken: March 5, 2009 11:30 am
Viewpoint # 3 - Showing Expansion Turbines

Expansion turbines are animated

Hillside Rd Between Meadow and Hillside - 5 km West of Wind Farm

Photograph Taken: March 5, 2009 11:30 am
Viewpoint #4 – Present Day

Prosser Brook Road - 3 km North of Wind Farm

Existing Wind Turbine

Existing Wind Turbine Blades

Photograph Taken: March 5, 2009 11:00 am
Viewpoint #4 - Showing Expansion Turbines
Expansion turbines are animated

Prosser Brook Road - 3 km North of Wind Farm

Photograph Taken: March 5, 2009 11:00 am
Viewpoint #5 — Present Day

**Prosser Brook Second Elgin Church** — 4 km Northwest of Wind Farm

Existing Wind Turbines

Existing Wind Turbine Blade

Photograph Taken: March 5, 2009 11:10 am
Viewpoint #5 - Showing Expansion Turbines

Expansion turbines are animated

Prosser Brook Second Elgin Church – 4 km Northwest of Wind Farm

Photograph Taken: March 5, 2009 11:10 am
Viewpoint # 6 – Present Day

Magnetic Hill – Front Mountain Rd – 30 km North of Wind Farm

Photograph Taken: March 5, 2009 5:20 pm
Viewpoint # 6 - Showing Expansion Turbines

Magnetic Hill – Front Mountain Rd – 30 km North of Wind Farm

Photograph Taken: March 5, 2009 5:20 pm
Viewpoint # 7 – Present Day

Blackwood Lake Boat Launch – 1 km West of Wind Farm

Photograph Taken: April 4, 2007 1:00 pm
Viewpoint #7 - Showing Expansion Turbines

Blackwood Lake Boat Launch – 1 km West of Wind Farm

Photograph Taken: April 4, 2007 1:00 pm
Contact TransAlta Wind

Toll Free: 877-547-3365
Email: wind@transalta.com
Website: www.transalta.com/wind