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# Appendix I

## *Photomontage and Visual Impact Executive Summary*

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## Ardenville Wind Farm Executive Summary of Photomontage Analysis

### Executive Summary

Photomontage visualizations have been prepared for seven vantage points in the area surrounding the proposed Ardenville wind farm. The modeling was performed using 27 Vestas Model V90 3MW wind turbines on 80 metre towers with 45 metre blades.

The project has been designed with consideration to the existing natural environment assuring that there will be no undue adverse effect on existing uses, scenic character, and natural and historic resources in the area.

The photomontage visualizations are the result of 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. They are used to illustrate the anticipated change to characteristic landscapes within the study area resulting from the installation of the Ardenville Wind Farm. The objective is to create images that are highly accurate and representative of the landscape that will be created by the wind farm. Photographs were selected to provide the reviewer with characteristic views of the existing landscape and the scenic resources adjacent to the project.

The photomontage simulations were produced using industry standard WindPro version 2.6 software. The simulations (most with animation) were shown at the wind farm public consultation meeting on December 11<sup>th</sup>, 2008 at the Ardenville School. A PowerPoint presentation was projected onto a large screen for public viewing. The following is a list of the photomontage viewpoints:

1. Ardenville Community Center – Hwy 2
2. Intersection of Rge Rd 261 and Twp Rd 70
3. Intersection of Hwy 810 and Twp Rd 70
4. Ardenville School – Hwy 810
5. Hwy 810 East of McBride Lake
6. Intersection of Hwy 810 and Twp Rd 74
7. Hwy 810 – 700 metres north of Twp Rd 80

A non-animated version of the presentation has been included with this application. In some simulations where the off-white colour of the wind turbines did not contrast adequately with the sky, the turbines have been rendered in colour in order to make them more visible to the reader.

# TransAlta

## Photomontage



Ardenville Wind Farm

Alberta

# What is 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 10km of the Ardenville Wind Farm.

“Pictures speak louder than words”

# Animation adds realism

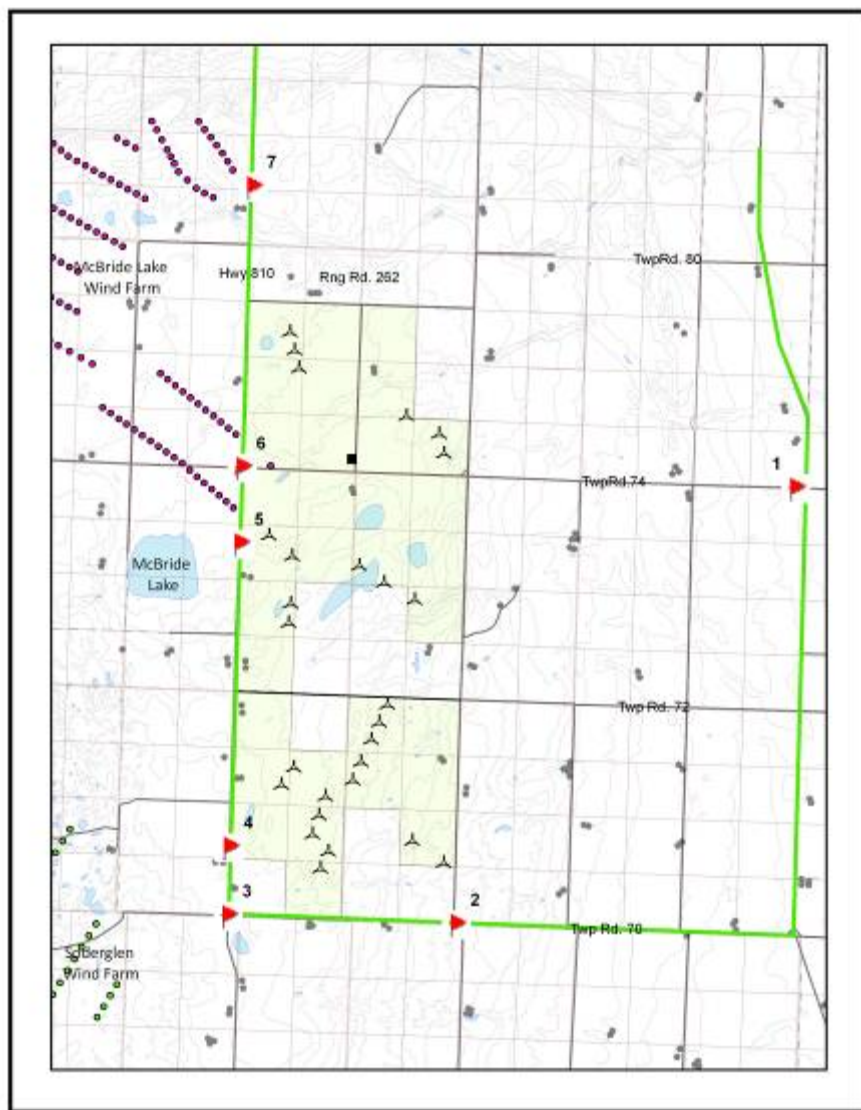
The addition of animation adds the realism of the blades rotating.

The human eye detects motion and focuses on movement.

Blade motion is only detectable within 7 – 10 km depending on sky colour. Beyond that the tower only is usually detectable.



# Ardenville Wind Farm Viewpoints



1. Ardenville Community Center – Hwy 2
2. Rge Rd 261 - Twp Rd 70
3. Hwy 810 - Twp Rd 70
4. Ardenville School – Hwy 810
5. Hwy 810 East of McBride Lake
6. Hwy 810 - Twp Rd 74
7. Hwy 810 – North of Twp Rd 80

# Viewpoint # 1

Ardenville Community Center - Highway 2 Approx. 5 km East of Wind Farm looking West



Photograph Taken: November 28, 2008; 10:54 am

# Viewpoint # 1 - Showing New Turbines

Ardenville Turbines (Red) & Existing Turbines (Blue)

Ardenville Community Center - Highway 2 Approx. 5 km East of Wind Farm looking West



Photograph Taken: November 28, 2008; 10:54 am

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## Viewpoint # 2

Rge Rd 261 – Twp Rd 70

Southeast Corner of Windfarm looking Northwest



Photograph Taken: November 28, 2008; 11:09 am

# Viewpoint # 2 - Showing New Turbines

Ardenville Turbines (Red) & Existing Turbines (Blue)

Rge Rd 261 – Twp Rd 70

Southeast Corner of Windfarm looking Northwest



Photograph Taken: November 28, 2008; 11:09 am

## Viewpoint # 3

Highway 810 – Twp Rd 70

Southwest Corner of Wind Farm looking Northeast



Photograph Taken: November 28, 2008; 11:19 am

# Viewpoint # 3 - Showing New Turbines

Highway 810 – Twp Rd 70

Southwest Corner of Wind Farm looking Northeast



Photograph Taken: November 28, 2008; 11:19 am

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# Viewpoint # 4

**Ardenville School - Highway 810**

West Boundary of Farm Looking East



Photograph Taken: November 28, 2008; 11:27 am

# Viewpoint # 4 - Showing New Turbines

**Ardenville School - Highway 810**

**West Boundary of Farm Looking East**



Photograph Taken: November 28, 2008; 11:27 am

## Viewpoint # 5

Highway 810 East of McBride Lake West Boundary of Wind Farm looking Northeast



Photograph Taken: November 28, 2008; 11:40 am

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# Viewpoint # 5 - Showing New Turbines

Highway 810 East of McBride Lake West Boundary of Wind Farm looking Northeast



Photograph Taken: November 28, 2008; 11:40 am

## Viewpoint # 6

Highway 810 – Twp Rd 74

West Boundary of Wind Farm looking Southeast



Photograph Taken: November 28, 2008; 11:49 am

# Viewpoint # 6 - Showing New Turbines

Highway 810 – Twp Rd 74

West Boundary of Wind Farm looking Southeast



Photograph Taken: November 28, 2008; 11:49 am

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# Viewpoint # 7

Highway 810 – North of Twp Rd 80 Approximately 1.5km North of Wind Farm looking South



Photograph Taken: November 28, 2008; 12:16 pm

# Viewpoint # 7 - Showing New Turbines

Highway 810 – North of Twp Rd 80 Approximately 1.5km North of Wind Farm looking South



Photograph Taken: November 28, 2008; 12:16 pm

# Contact TransAlta Wind



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