



Forty Mile Granlea Wind Limited Partnership  
 c/o Forty Mile Granlea Wind GP Inc.  
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 Calgary, AB T2P 3E3

August 7, 2019

**RE: Suncor’s Proposed Forty Mile Wind Power Project**

Dear community member:

On May 16, 2019, the Suncor Forty Mile Wind Power Project (project) achieved a significant milestone of receiving power plant approval from the Alberta Utilities Commission (AUC).

In response to the competitive dynamics of the wind energy industry in Alberta, Forty Mile Granlea Wind GP Inc. (FMGW) is proposing to make minor amendments to ensure the project remains competitive. The minor amendments include:

- changing turbines from Vestas V150-4.2MW to Siemens Gamesa SG 4.5-145;
- removing seven turbines, while maintaining the same, 400 megawatt (MW), output capability to the transmission system;
- removing roads and underground electrical collector cables related to the removed turbines; and,
- updating the project schedule as a result of switching turbines.

**Summary of Project Changes**

The newly proposed turbine has an increased generating capacity, producing 4.5 MW compared to the previously proposed 4.2 MW turbine. The dimensions of the two turbine models are similar and have the same total height (180 meters). See Table 1 for a comparison of the turbines.

**Table 1: Turbine Specification Comparison**

Turbine Model	Vestas V150-4.2MW (Previous Turbine)	Siemens Gamesa SG 4.5-145 (Newly Proposed Turbine)
Manufacturer	Vestas	Siemens Gamesa
Turbine Capacity (MW)	4.2	4.5
Tower/Hub Height (m)	105	107.5
Blade Length (m)	75	72.5
Total Height (m)	180	180
Number of Blades	3	3

Fewer turbines are required due to the greater power output of the newly selected turbine model. The amended layout reduces the number of turbine locations from the previously contemplated 96 turbines to 89 turbines. In correspondence to the reduction in turbine locations, there has been a reduction in access roads and underground electrical collector cables. The new layout does not require any new turbine locations.

The map titled “Suncor Forty Mile Wind Power Project – Project Footprint” dated June 7, 2019 identifies the layout changes.

### **Updated Turbine Labels**

In order to balance the power production from both project phases, turbines M78, M79 and M80 have been transferred from the Maleb phase to the Granlea phase and have been renamed G78, G79 and G80. The turbine locations have remained the same.

### **Updated Sound and Shadow Flicker Analysis**

As a result of the changes identified above, we have provided updated information on the sound and shadow flicker impacts from the project. The map titled “Suncor Forty Mile Wind Power Project – Shadow Flicker and Noise Information” dated June 7, 2019, provides the anticipated sound contours and shadow flicker effects from the final project layout.

The sound contours shown on the map reflect expected nighttime sound levels and were completed in accordance with direction provided by the AUC. The predicted sound contours include the combined sound prediction from adjacent proposed wind power projects in the area.

The sound levels remain compliant with the AUC’s Rule 12, Noise Control.

Shadow flicker categories identify how many hours per year a residence may experience a shadow flicker effect without the reduced effect due to existing trees or structures. In the new layout, the number of shadow flicker hours will be similar to the previous layout – no new turbine locations are added and the turbine height remains the same.

### **Updated Visual Simulations**

The visual simulations included in this package reflect the project changes from the same viewpoint locations previously provided. Additional visualizations will be available on the Forty Mile Wind Power Project’s website after August 21, 2019 at <http://www.suncor.com/fortymilewind>.

### **Updated Schedule**

The project will continue to be constructed in two phases with approximately 200 MW connected to each the Granlea and Maleb substations. Our schedule is as follows:

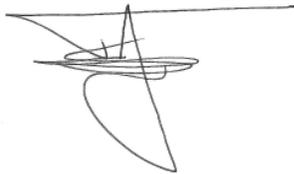
<b>Activity</b>	<b>Date</b>
AUC amendment submission	September 2019
Anticipated AUC approval	December 2019
Site mobilization (construction start)	March 2020
Scheduled Granlea commercial operations	December 2021
Scheduled Maleb commercial operations	December 2022

The connection to the existing provincial grid from our Granlea and Maleb substations will be completed by AltaLink Management Ltd. and is subject to a separate consultation and permitting process.

The enclosed package also includes the most recent version of the AUC's *Public involvement in a proposed utility development* brochure, which describes your rights and options for participating in a development project such as ours.

Thank you for taking the time to review this information. We look forward to continuing to advance the Suncor Forty Mile Wind Power Project in your community. If you have any questions or concerns, please contact us at [fortymile@suncor.com](mailto:fortymile@suncor.com) or via phone at 1-866-344-0178 (extension 2).

Yours truly,  
Forty Mile Granlea Wind GP Inc.  
On behalf of Forty Mile Granlea Wind Limited Partnership

A handwritten signature in black ink, appearing to read 'Todd Andersen', written over a horizontal line.

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