

# INTRODUCTION

Jenner Wind Limited Partnership (JWLP), a subsidiary of Potentia Renewables Inc. (PRI), would like to thank you for your continued support and interest in the proposed Jenner Wind Power Project (JWPP) and the Jenner Wind Power Project Expansion (JWPPE). We greatly value our relationship with the local community, and we are committed to engaging and consulting with stakeholders.

You are receiving this newsletter because you live on or own land near the proposed 122.4 megawatt (MW) JWPP or the 180.2 MW JWPPE, and we want to provide an update on the projects.

# **QUICK UPDATES**

The JWPP has received all the required Alberta Utility Commission (AUC) approvals for the power plant, substation, and transmission line route. The JWPP has received a Special Areas Board (SAB) Development Permit, also.

# IN THIS NEWSLETTER, YOU WILL FIND INFORMATION ON:

- COMMUNITY FUND & INVOLVEMENT
- PROJECT UPDATES
- AESO RENEWABLE ELECTRICITY PROGRAM
- TURBINE MODEL CHANGES
- HALSBURY SUBSTATION CHANGES
- UPDATED SCHEDULES
- UPDATED MAPS WITH NOISE & SHADOW FLICKER
- VIEWSCAPES

We've submitted the application for the JWPPE to the AUC (Proceeding // ID Number 22866). We'll submit the SAB Development Permit application for the JWPPE as per the schedule on Page 3.

Although we did not receive a contract for Round One of the Alberta Electric System Operator (AESO) Renewable Electricity Program (REP), we are targeting to complete construction of JWPP by the end of Q3 2019 (see the schedule on Page 3).



# **COMMUNITY FUND AND INVOLVEMENT**

We're pleased to announce that for a second consecutive year, we sponsored the Buffalo Rodeo and the Jenner Rodeo. We're always interested in supporting other local events and activities in the community. Please email your sponsorship and donation requests to: **info@jennerwind.com** for consideration.

## **PROJECT UPDATES** WHAT'S THE SAME?

The layouts for the JWPP and the JWPPE projects are largely unchanged from the previous newsletter. The JWPP contains 36 wind turbines, and the JWPPE contains 53 wind turbines. The number of turbines, project layout, road layout, and collector system type are all largely unchanged from the previous newsletter, except as noted to the right.

#### WHAT'S DIFFERENT?

Based on stakeholder feedback, we've moved the location of turbine T80 in JWPP by 45 metres in SE12 21-09 W4M (see Figure 1 on page 3). Movement of less than 50 metres is allowed under the existing AUC approval. We decided to use a different turbine than was previously communicated. As a result, we need to add some equipment to the Halsbury substation. Details are provided in the following sections. Organizationally we intend to move all related approvals and assets for JWPP (power plant, substation and transmission line) to a new entity called Jenner 1 Inc. a wholly-owned subsidiary of JWLP in Q1 2018. JWPPE will remain under JWLP.

# **AESO RENEWABLE ELECTRICITY PROGRAM**

We were unsuccessful in the 2017 AESO REP; however, the Projects will be considered for future rounds of REP or for other contracting opportunities. The Schedule (Page 3) of this newsletter shows the targeted timeline for JWPP and JWPPE. For more information on the REP please visit: www.aeso.ca/market/renewable-electricity-program.

# **TURBINE MODEL CHANGES**

We've changed the turbine model to improve the overall competitiveness of JWPP and JWPPE. The new turbine is a Goldwind 3.4 MW turbine with similar characteristics to the previous Senvion 3.4 MW turbine. This turbine can operate up to 3.57 MW under specific conditions. The wind farm complies with the noise requirements when the turbines are operating at 3.57 MW. The maximum output of the wind farm does not change. A comparison table is below.

COMPONENT	PREVIOUS	NEW	CHANGES
	SENVION 3.4M140	GOLDWIND 3WS	
Nameplate Capacity	3,400 kW	3,400 kW	None
Tower Height	110 m	100 – 110 m	None
Rotor Diameter	140 m	137 m	Reduced rotor diameter
Rotor Swept Area	15,390 m²	15,175 m²	Reduced swept area
Number of Blades	3	3	None
Rotational Speed	5.2 – 9.6 rpm	5.2 – 13.2 rpm	Larger range of rotational speed
Wind Class	IEC IIIA	IEC IIIA	None
Cut-In Wind Speed*	3.0 m/s	2.5 m/s	The Goldwind turbine can start producing power at lower wind speeds
Cut-Out Wind Speed*	22.0 m/s	22.0 m/s	None
Transformer	External transformer	External transformer	None

Table 1: Comparison of Turbine Specifications

The Goldwind turbine has higher sound emissions than the Senvion turbine. We've completed additional noise modelling, and we've identified that the new turbine meets all sound requirements under AUC Rule 12: Noise Rule. Figure 1 on the following page shows the updated sound contours using Goldwind 3WS 3.4 MW turbines with a hub height of 110m and a rotor diameter of 137m. The turbine has the same noise characteristics operating at 3.4 MW and 3.57 MW. Additional details for each residence within 1.5 kilometres of the wind farm are available upon request. Shadow flicker results are also shown on the same figure.

\* Cut-in wind speed is the minimum wind speed where the turbine blades begin to rotate. Cut-out speed is the speed that the turbine blades are brought to rest to avoid damage from high winds.

# HALSBURY SUBSTATION CHANGES

The change from the Senvion turbine to the Goldwind turbine requires additional equipment to be installed at the Halsbury substation. The additional equipment includes two new 40 MVar capacitor banks. The noise impact assessment integrates the two new capacitor banks. The fenceline will also be expanded to accommodate this change. The substation area will increase from 100 metres x 100 metres to 100 metres x 130 metres.

#### TIMELINE

**JWPP SCHEDULE** \* Schedules subject to change. The JWPP may be installed and commissioned in two phases.

### **PROJECT MILESTONE**

- Q1 2018 • Detailed engineering and procurement
- Q1 2018 • AUC submission for amendment to the existing approval
- Q2 2018 • Expected AUC approval
- **Q2 2018** • -Site mobilization and construction start
- Q1-Q3 2019 • In-service date

# JWPPE SCHEDULE

- Q3 2018 • AUC application amendment
- Q4 2018 • SAB Development Permit Application
- Q2 2019 • Expected AUC approval
- Q3 2020 • In-service date

# JWPP & JWPPE UPDATED MAPS

Figure 1: Updated Maps

The noise contour in these maps includes all existing and approved energy related facilities such as oil and gas, and solar.





Viewscape Location and Field of View

# PUBLIC CONSULTATION & PROVIDING YOUR INPUT

Our objective for both the JWPP and JWPPE is to minimize potential impacts on the environment and the community. JWLP will continue discussions with local landowners and stakeholders to develop the project in a way that respects community members' needs and accounts for important environmental considerations.

JWLP will continue to contact occupants, residents, and landowners within 800 metres of the proposed JWPPE project to gather input through one-on-one consultations. During the one-on-one process, JWLP will document the information you provide and attempt to address any questions or concerns that you may have about JWPP or JWPPE. If you would like a personal consultation, contact us using the information provided in the box below.







# **CONTACT US**

For more information about Potentia Renewables Inc. and the projects, please visit: <u>www.jennerwind.com</u>

**Jenner Wind Limited Partnership,** by its general partner Jenner Wind GP Inc. (subsidiary of Potentia Renewables Inc.)

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**P:** 1-833-536-6371 **E:** info@jennerwind.com For additional information about the projects or to arrange a personal consultation, please contact our consultation agent, Scott Land Ltd, at:

Jason Pigeon Senior Consultation Agent

P: 403-473-6661 E: jpigeon@scottland.ca



**Privacy Commitment:** JWLP is committed to protecting your privacy. Collected personal information will be protected under the provincial Personal Information Protection Act. As part of the regulatory process for new generation projects, JWLP may be required to provide your personal information to Alberta Utilities Commission (AUC). For more information about how JWLP protects your personal information, visit our website at www.jennerwind.com or contact us directly via phone toll-free at 1-833-536-6371.

# **LOCATION 1: TOWN OF JENNER LOOKING NORTHEAST**

# **VIEWSCAPES**

120 MW



We've provided updated viewscapes for this newsletter. These viewscapes show what the new turbine will look like. These viewscapes are taken from four locations around the proposed wind farm. Each location shows the JWPP and the JWPPE viewscape. Higher resolution images are available upon request.



# LOCATION 2: HIGHWAY 555 LOOKING WEST NEAR TOWNSHIP ROAD 21-2







# **LOCATION 3: JENNER COLONY LOOKING EAST**





# **LOCATION 4: JENNER CAMPGROUND LOOKING SOUTH**





