

# TransAlta™



# WINDRISE WIND PROJECT

## 2020 CONSTRUCTION UPDATE

Total Safety at TransAlta™

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## PROJECT UPDATE

In 2019, TransAlta Corporation (TransAlta), through its wholly owned subsidiary Windrise Wind LP introduced the proposed Windrise Wind Project (the Project), a 206.4-megawatt (MW) wind development located in the heart of TransAlta's wind operations in the Municipal District of Willow Creek.

Throughout 2019 TransAlta advanced the Project through the Alberta Utilities Commission (AUC) application process seeking a permit to construct and license to operate the Project. TransAlta received **AUC approval** for the Windrise Wind Project and the Windrise Wind Project Substation in October 2019.

With the remaining approvals, permits and consents in-hand for the Project, TransAlta **will begin construction in Mid-April 2020.**

This update provides stakeholders with an overview of the construction activities and information regarding safety responsibilities during construction.

Total Safety at TransAlta is a safety management system that provides tools and a framework to protect our people, the public, environment, and the company's infrastructure. This commitment is a corporate responsibility for TransAlta and the personal responsibility of each and every employee and contractor who work on TransAlta's behalf.

The Project will employ staff whose sole focus is to monitor safety performance and compliance on-site during construction. TransAlta views safety as a critical element in construction planning for the Project, with TransAlta's Total Safety governance system embodied in the construction work plan.

The Project will create approximately **300 jobs** during the construction phase.



# CONSTRUCTION ACTIVITIES

## Access Roads and Road Improvements

Existing road improvements might include a mix of widening, surface or base upgrades, intersection widening and culvert replacements. New access roads to turbine locations will include clearing, grading and necessary earth/gravel works.

## Equipment Laydown Areas

Equipment laydown areas will be constructed at several locations within the Project site with the main laydown area located at the site office and main equipment yard.

## Turbine Foundation Preparation

This will involve excavation and preparing foundation forms, followed by concrete pouring. You can expect gravel and cement truck activity based on pouring schedules, under appropriate weather and temperature conditions.

## Equipment Delivery

Delivery of the main turbine components including turbine towers, blades and nacelles is planned to take place throughout the months of September and October. We expect other construction equipment deliveries to arrive late Spring through August which will include the large cranes required for turbine installation.

## Transportation Routes

Highway 810 will act as the main transportation route during construction of the Project. The site office and main equipment yard will be located 2km south of the Ardenville Community Hall. The public can expect increased traffic on municipal roads within the Project area, between: Rge. Rd 261 and Rge. Rd 272 and Twp. Rd 70 and Twp. Rd 62.

## Turbine Assembly

Assembly and erection of the 43 turbines will occur at each turbine location where components will be staged upon arrival. Preparation of laydown areas at each of the turbine sites will include stripping, grading, earthworks and surface preparation. Turbine assembly and erection is scheduled to take place from September to December.

## Collection System Installation

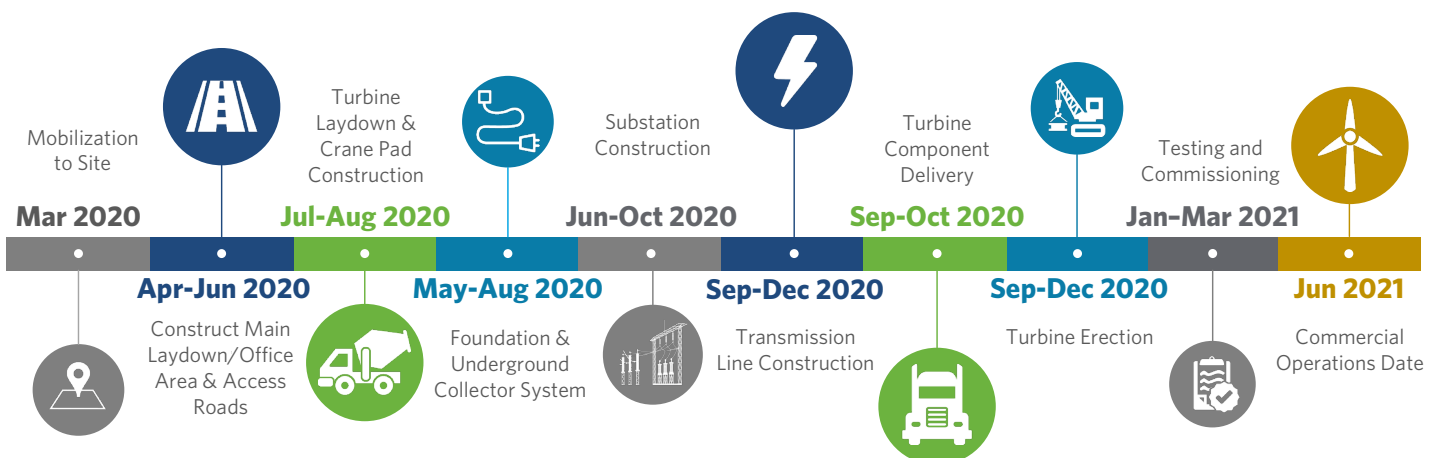
Installation of underground electrical collector cables connecting each turbine 'string' to the Project substation will be required and is scheduled from May to August.

## Turbine Energization and Commissioning

Energization and commissioning of the turbines involves testing and inspecting electrical, mechanical, and turbine communications and controls. These activities are scheduled to begin in January 2020 with a target operations date of June 2021.

## Site Cleanup and Rehabilitation

After major construction work is completed, disturbed areas around the foundations of each turbine will be graded and graveled. Heavy equipment used in the installation of turbines will be transported off-site. Debris will be removed from site, and areas that are not required for operations will be rehabilitated.



# ENGINEER AND CONSTRUCTION MANAGER

## Canadian Projects Limited (CPL)

will manage construction of the Project and the on-site contractors who are responsible for construction of access roads, foundation and collector line installation, substation construction and erection of the Project's forty-three turbines. CPL specializes in project-planning, engineering, design, and project management services for the wind energy sector. Their commitment to safety, the environment, quality assurance and control, is encompassed in their own set of values and meet's TransAlta's Total Safety management protocols.

CPL recently partnered with TransAlta as engineer and construction manager for the successful completion of the Kent Hills 3 Wind project in New Brunswick and the Big Level and Antrim Wind projects completed

# SAFETY RESPONSIBILITIES

**Obey Signs and Safety Personnel** - Signage to delineate work areas and safety zones will be in place. During the transportation of equipment, flag personnel may be used to direct and control traffic in the area. Please obey all signage and be respectful of safety personnel.

**Reduce Your Speed** - Reduced speed limits in areas where construction is occurring will be posted. Please observe reduced speed limit signs for both your protection and the safety of our workers.

**No Unauthorized Entry** - Entry to restricted areas for construction, including equipment storage areas, site office, and an area within 200m of any turbine will be strictly prohibited and enforced.

**Observe Safety Setbacks** - Please maintain a safe distance from equipment being transported, wide loads, long loads (blades), equipment being lifted, construction workers and other construction areas as marked.

**Openings and Excavations** - Excavations and trenches will be appropriately fenced. Please stay away from marked excavation areas and observe signage in these areas.

**Risk of Falling Objects** - Working at heights presents a risk for falling objects. Safeguards to protect workers and the public will be in place. We ask for your awareness about this risk and your cooperation in observing safety setback zones for your protection.

**Vehicle Traffic Impacts** - Some road closures, increased vehicle traffic, wide loads, long loads, and road construction including gravel trucks and graders will be encountered through the course of this construction. We would ask for your patience and assistance is ensuring that you are driving safely and observing signage, flag personnel in the construction and transportation zones.

If you have any questions about construction of the Project, or if you would like to report an unsafe work condition, please contact us.

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