

Whitla Wind Project Update



Whitla Wind 3 Receives Regulatory Approval, Construction is set to begin, and Turbine Lighting Mitigation Plan Moves Ahead

We're excited to report that the Alberta Utilities Commission (AUC) approved the Whitla Wind 3 Project on March 18, 2021 (Decision 25909-D01-2021). With all approvals now in place, construction of Whitla Wind 3 will occur along with Whitla Wind 2.

Construction activities for Whitla Wind 2 and 3 are expected to begin in April and are targeted to be complete by late December 2021. Once all three phases of the Whitla Wind facility are completed, it will be Alberta's largest wind facility with 353 megawatts of generation capacity.

As well, we committed to install obstruction light mitigation equipment on all three phases of the Whitla Wind Project to reduce the effects of turbine lighting on the community. With Whitla Wind 3 now approved, we'll be installing light obstruction equipment for the entire project.

Obstruction Lighting Plan Confirmed

On March 8, 2021, NAV Canada approved our lighting plan, which is designed to minimize the number of turbines requiring obstruction lights. Once the Whitla Wind Project is fully constructed in December 2021, the overall project will have a total of 98 wind turbines with obstruction lights installed on 30 turbines and one meteorological tower. Enclosed is a map of the entire Project that indicates which turbines will have obstruction lights.

Transport Canada requires that wind facilities have navigation obstruction lights for the safe operation of aircraft near a wind facility. The requirements are set in Canadian Aviation Regulation Standard 621 – Obstruction Marking and Lighting.



Wind Turbine Lighting Requirements

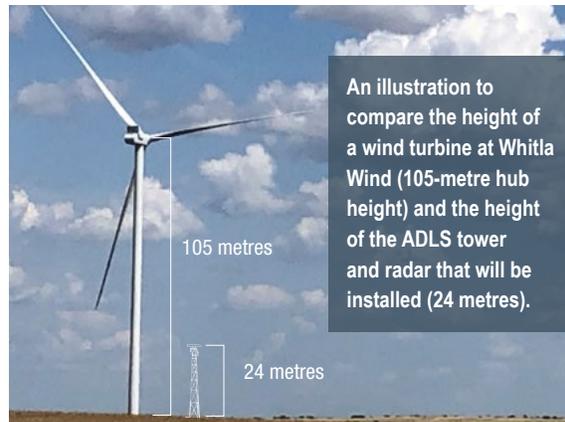
Wind turbines over 150 metres in height require:

Two CL-864 lights installed on the nacelle. Only one light operates at a time; the second light serves as backup in case of failure of the operating light.

At least three CL-810 lights installed at half the nacelle height (± 10 m) and configured to flash at the same rate as the CL-864 light on the nacelle.



The ADLS tower for Whitla Wind will be like the one pictured at Capital Power's Cardinal Point Wind project, located in Western Illinois. The radar is mounted on top of a 68-foot (21-metre) high lattice tower and platform.



An illustration to compare the height of a wind turbine at Whitla Wind (105-metre hub height) and the height of the ADLS tower and radar that will be installed (24 metres).

Aircraft Detection Lighting System Selected

Following extensive research and considering stakeholder feedback, we have decided to install an Aircraft Detection Lighting System (ADLS) to mitigate the impact of the obstruction lights. This technology uses one radar unit for the entire facility to detect aircraft in the vicinity of the Whitla Wind Project and turns on the navigation obstruction lights only when necessary (if an aircraft is nearby). Most of the time, when there are no aircraft within the vicinity of the project, the navigation obstruction lights are off.

The ADLS technology will eliminate the continuous flashing of the red lights located on the top of the wind turbine's nacelle and half-way up the towers, and only illuminate them when necessary.

We currently utilize this technology at our Cardinal Point Wind Project in Illinois and New Frontier Wind Project in North Dakota.

ADLS Location and Infrastructure

The ADLS will be located next to the Project's Operations & Maintenance building near the Shamrock Substation (NW-15-8-10-W4M). This was identified as the optimal location to ensure coverage of the entire Whitla Wind Project.

The radar unit will be mounted on top of a 22.8 metre high lattice tower and platform that does not require any guy wires or lights. There will be a small cabinet located at the base of the tower for electrical and communications equipment, and the tower will be surrounded by a security fence.

The obstruction light mitigation equipment is targeted to be installed for the entire project by the end of 2021.

Community input is important

If you have any questions, comments or concerns, please contact us at **1-855-703-5005** or **canadadevelopment@capitalpower.com**