

Bloom Wind Newsletter



Hello everyone,

I'm Billy Phelan, site manager for the 178 megawatt (MW) Bloom Wind Energy facility. I'm happy to be reaching out to you with this newsletter about the facility and Capital Power.

This spring marked the fifth anniversary of the start of commercial operations of

Bloom Wind, which officially began on June 1, 2017. Many of you may recall the event that we held at the site office and dinner at Prime on the Nine in September 2017.

Since that time, the facility has been operating smoothly. However, we are constantly looking for ways to improve the efficiency and production of each turbine. These improvements have occurred in a range of ways, such as making changes to allow for better equipment cooling in the nacelle to making minor calibration changes to the turbine blades. Every little bit helps.

As this newsletter is being prepared, we are planning our fifth annual production outage as well as a maintenance outage for the substation. Normally, the production outage is just a single day. This year we will be doing this over three days to allow for

more advanced maintenance on the substation, electrical work within our collector and transmission systems, and even clean-up work.

I am relieved that the concern with COVID-19 has diminished. During the two years of the pandemic, we instituted rigorous health and safety protocols. I'm very happy to report that we were able to remain fully operational over the height of the pandemic.

Capital Power's commitment to the community also continued over the last few years. We've contributed to the Minneola Wellness Center, Minneola After Prom, and the fire departments in both Minneola and Ford County, and others.

Please see inside this newsletter for more information.

It's been wonderful getting to know many of the landowners and their tenants over the last few years. Personally, my wife, Amanda, and two children, Ethan and Elysees, continue to make friends and get to know the broader community. We very much call this area home.

Thank you for taking the time to learn about our work at Bloom Wind. I want to wish you and your family health and safety.

Billy Phelan Site Manager, Bloom Wind

Capital Power – Powering a sustainable future for people and planet

Headquartered in Edmonton, Alberta, Canada Capital Power's 780 employees are working to grow the company to deliver long term value, protect the environment and help communities thrive. The company has 27 facilities throughout North America generating approximately 6,600 MW. We have expertise in both thermal and renewable assets.

Our wind energy fleet includes 10 facilities located in the United States and Canada. Combined, these projects generate over 1,360 MW of renewable energy. Solar energy has become a growing focus for us, with recently acquired development projects in the eastern United States.

We're laying the groundwork to meet our goal of being net carbon neutral by 2050. Our power generation facilities are a hub of innovation and we are continuously learning, adapting, and developing to create clean, reliable and affordable electricity. We report on our actions and performance and continue to evaluate and evolve our climate related reporting to clearly demonstrate our vision, purpose, strategy, and value creation.



For the 2021/22 school year, Capital Power's support to Dodge City Public Schools gave students hands-on learning opportunities with renewable energy through KidWind challenges.

Supporting the community

Capital Power has been actively supporting community organizations in Ford and Clark Counties well before the start of operations at the Bloom Wind Energy Facility. The groups and activities we've recently provided funding to include:

- Minneola Wellness Center
- Dodge City Public Schools
- Kansas Food Bank Warehouse
- FOCO Suicide Prevention Coalition
- Ford County Fire & EMS
- Minneola Fire Department
- Minneola Youth Hunt
- Wounded Warrior Project
- The Salvation Army

Request a donation

Capital Power provides support in the areas of Equity & Culture, Wellbeing and Climate Action. If you are a part of a community organization that has events or initiatives that supports one or more of these focus areas, please consider requesting support through our online system on our website: www.capitalpower.com/sustainability/community/request-for-support

Call before you dig

A friendly reminder to everyone to contact Kansas 811 if you're planning any sort of major excavation.



Lightning strikes

As we all know, lightning is common in this part of the world. Our 54 turbines will see one to three strikes in a typical year. There is a lightning protection system in each of the three blades of a turbine, which typically work well. The single metallic cable runs the length of the blade, allowing for the lightning to find an easy path to ground when there's a strike, particularly if that strike occurs at the tip or the root of the blade. When a strike occurs near the centre of the blade, there can be damage to the blade itself and this often means the 187 ft (57 meter) blade needs to be replaced. That's a big job, as it requires a massive crane, with a boom length of typically over 295 ft tall (90 meters).

The seasons!

So much of our maintenance is conducted in the warmer months as the wind speeds are normally lower at this time of year. This is typically July to September. The windy months are from October to April.

A Growing Generation Fleet



Midland Cogeneration Facility

In July 2022, we announced the acquisition of a cogeneration facility located in Midland, Michigan. The 1,633 MW plant is fueled by natural gas, producing both electricity and steam, which is sold under contract to nearby industrial sites. The Midland facility is the largest gas-fired cogeneration facility in the United States. The acquisition was made in partnership with Manulife Infrastructure Fund.



Whitla Wind

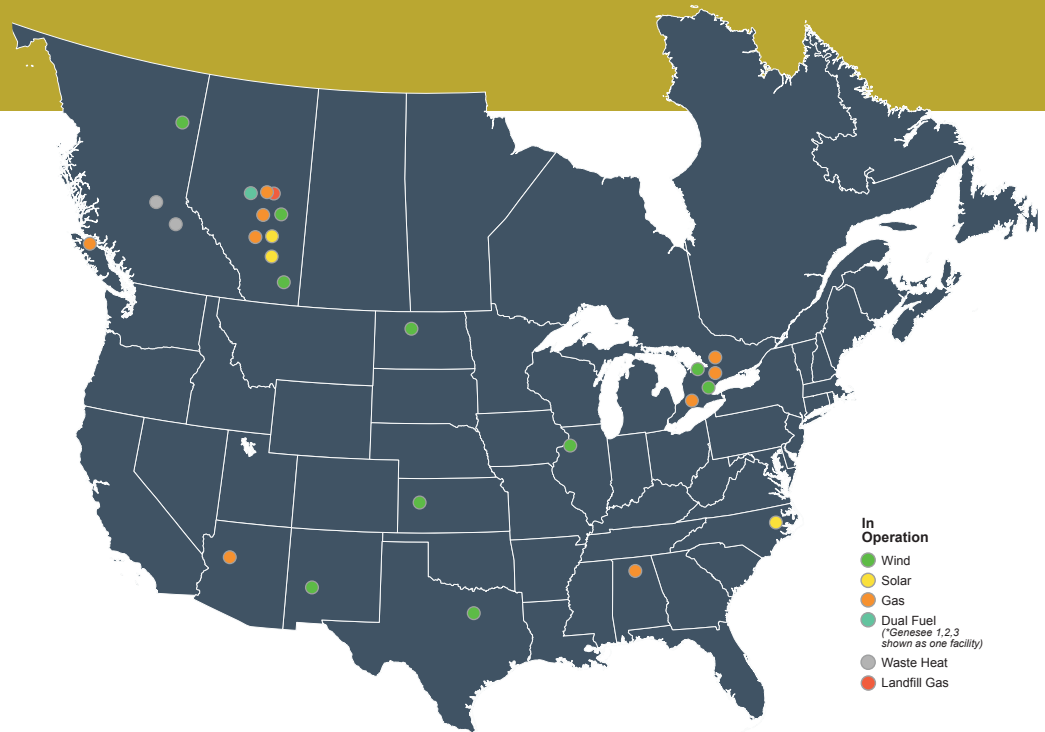
Whitla Wind is the largest wind facility in Alberta at 353 MW. Located in the south east of the province, the Whitla Wind facility was completed on December 1, 2021, when the Phases 2 and 3 expansions achieved commercial operations (Phase 1 began commercial operations on December 1, 2019). Construction of all three phases of the facility were completed on-schedule and on-budget.

Strathmore Solar

On March 17, 2022, Strathmore Solar, our first solar project in Canada, a 41 MW facility in Strathmore Alberta, began commercial operations.

Advancing to Net Carbon Neutral by 2050

At Capital Power, we create dependable, cost-effective and innovative electricity solutions to power a sustainable future for generations to come.



Capital Power by the Numbers

Approximately

6,600MW

Renewables in Advanced Development

385MW

In Alberta and North Carolina

Facilities

27*



Employees

780



ESG Performance Reporting

We are committed to sharing transparent, accurate and detailed reports on our financial, environmental, social and governance performance. You can view our Integrated Annual Report, Climate Change Disclosure Reports and sustainability reports on our website: capitalpower.com/sustainability/sustainability-reports

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