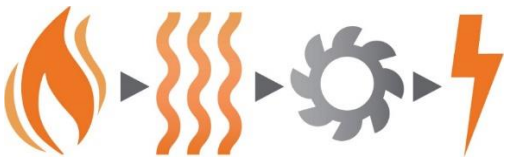
ASPEN POWER STATION

Overview

Aspen Power Station is a 370-megawatt (MW) combined cycle facility currently under construction about 20 kilometres (km) east of Lanigan, Saskatchewan. Its name reflects its location within the Aspen Parkland ecoregion.

Combined cycle power stations use a gas turbine to generate electricity and heat, which is then used to produce steam. That steam powers its own turbine for additional electricity. Combined cycle facilities use the most efficient technology available and are held to stricter emissions standards.



We selected Burns & McDonnell as our Engineer, Procurement and Construction partner to design and build Aspen Power Station.

Quick facts

- Generation capacity: **370 MW, equivalent to power up to 370,000 Saskatchewan homes**
- Anticipated lifecycle: **25 years**
- Start of construction: **April 2024**
- Planned in-service date: **December 2027**
- Cumulative # of workers to date: **1,600**
- Peak # of workers during construction: **750+**
- Worker hours to date: **1.4 million**
- Value of spend commitments as of April 1, 2026:
  - Local (Saskatchewan) businesses: **$576 million**
  - Indigenous businesses: **$266 million**
  - Women-owned businesses: **$42 million**
- Number of on-site employees for operation: **27**
- Size of facility footprint: **73 acres**
- Height of stack: **52 metres (170 feet)**
- Materials used: **10,500 cubic metres of concrete, 3,262 tonnes of steel, >62 km of pipe**

ASPEN POWER STATION

Why did SaskPower build another natural gas facility?

Aspen is a vital part of our power future. In Saskatchewan, we have a large geographic area, diverse climate and different needs than other provinces. We know that one power supply option can't do it all; we need to consider all options to provide reliable and affordable power for our customers and the communities we serve.

Natural gas power stations provide several key benefits:

- We can count on them for reliable 24/7 power as needed.
- They can also provide flexible, dispatchable power, which means they can be quickly ramped up or down when intermittent sources like wind or solar are generating more power for the grid.
- While not a renewable source of power, modern natural gas technology has become more efficient at reducing greenhouse gas emissions.

What makes Aspen Power Station unique?

Like Chinook and Great Plains Power Stations, Aspen is a combined cycle natural gas facility. Combined cycle power stations are about 15 per cent more efficient than simple cycle gas turbines.

What makes Aspen unique is its bypass stack. By adding this to the design of the facility, we'll have extra flexibility to run Aspen as a simple cycle power station when needed. This is useful when we need to increase power output more quickly during a sudden spike in electricity demand. It's also helpful when the steam turbine needs maintenance because we can continue to provide some power output while it's being worked on.

In short, we've designed Aspen to have the maximum flexibility needed to help meet and balance the needs for power around the province.