

# Chinook Power Station Project

October 2016

## Project need and description

As Saskatchewan continues to grow, there is a need for additional generation to:

- meet the growing demand for power in the province of Saskatchewan;
- support the integration of intermittent renewable generation (wind & solar); and
- provide replacement power for the retirement and/or refurbishment of conventional coal-fired generating units.

The Chinook Power Station is a 350 megawatt (MW) combined cycle gas turbine facility (CCGT) to be constructed in the RM of Swift Current adjacent to the Swift Current industrial landfill. The location was selected due to proximity to existing transmission infrastructure and natural gas supply, as well as the growing demand for power in the region. The plant will be capable of powering a city the size of Saskatoon.

Construction will include supporting infrastructure such as a site access road, administration building, and evaporation pond. SaskPower will also need to construct an overhead transmission line to connect the facility to the Swift Current Switching Station and an underground waterline for plant processes and domestic use. A natural gas supply to the facility will be required and TransGas will be responsible for routing, constructing and operating the gas pipeline infrastructure.

## Advantages of a CCGT facility

- Lower greenhouse gas (GHG) emissions and nitrogen oxide (NOx) emissions per MW output compared to less efficient single cycle gas turbines.

- Natural gas is used more efficiently when used in a combined cycle application.
- Provides reliable power in the area and expansion of renewables.
- Serves growing industry need within the area.
- Decreases line losses on the transmission system benefitting customers and the environment.

## Environmental approvals

Development of this project requires review and approval from the Saskatchewan Ministry of Environment (MOE) and the Canadian Environmental Assessment Agency (CEAA). A Project Description has been submitted to both MOE and to CEAA for review and is currently at the environmental screening stage. The Project Description will be posted to the CEAA website for public review in the near future.

## Project schedule

### Power plant

Design: Summer 2016 – End 2017  
Procurement: Summer 2016 to Fall 2017  
Construction: Fall 2016 to Winter 2019  
Commissioning: Fall 2018 to Fall 2019  
Chinook Power Station In Service: Fall 2019

### Waterline

Design: Fall 2016/Winter 2017  
Construction: Spring/Summer/Fall 2017  
South Hill Facility Commissioning:  
Fall 2017/Winter 2018  
Water Available to Site: Spring 2018

### Transmission line

Construction: Nov 2017 – Feb 2018  
Energization: March 2018

For additional information on this project, please contact SaskPower's Stakeholder Engagement department by email at [publicconsultation@saskpower.com](mailto:publicconsultation@saskpower.com) or by telephone at 1-855-566-1008.

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## General site location



## Site layout

