

November 21, 2017

# Strathcona Refinery

Strathcona County Council

Presented by: Bill Lawrysyn - Imperial

# Strathcona Refinery Location



# Quick Facts

Imperial has owned and operated the refinery in Strathcona County since 1948

Land-locked refinery with connectivity to conventional and synthetic crudes

Strathcona refinery can process ~ 200,000 barrels of crude oil per day

Manufactures a full range of gasoline, diesel and aviation fuels, asphalts, and liquid petroleum gases

Recently announced closure of the lubricant manufacturing and packaging operations

Product supply area from Northern Ontario to British Columbia; NWT to Northern United States

Employment:

- ~ 430 employees

- ~ 290 contractors

Additional contractors for projects and turnarounds





# Safety and Environment

## Strong Safety Culture - “No One Gets Hurt”

LPS Inc. system in use; specializing in a behavioral based approach to loss prevention - annual assessment conducted

- Injury rates below provincial averages
- Safety performance recognized both externally and within the company



## Environmental Performance - “Protect Tomorrow. Today.”

- New rainwater impounding basin project completed 2014 – increased wastewater treatment capability
- No recordable spills or releases over the last five years
- Excellent compliance record against operating approval, no water contraventions, single air contravention over the last five years



# Part of the Community

**Areas of focus guide our giving and community engagement – Education, Environment, Indigenous, and projects focused in communities where Imperial operates.**

**United Way** – Imperial and Unifor local 21A run an award winning workplace campaign that includes a year round days of caring program

**Strathcona County Library** – 2017 marked the 21st year of support for the summer reading and youth volunteer programs.

**RiverWatch Science Program** – supporting the floating science classroom program on the North Saskatchewan River.

**Skills Canada Alberta** – promoting and encouraging Alberta youth to explore careers in trades and technology. Imperial is a founding partner of Skills Canada Alberta.

**National Volunteer Week** – Strathcona County – supporting NVW activities through the Information and Volunteer Centre for Strathcona County.

**Linking Generations** – supporting caring communities through the development of positive intergenerational relationships.



# Accessible by the Community

**Imperial – Strathcona refinery shares information with the community in several ways**

- **24 hour telephone line 780-449-3776**
- **Community relations office – 780-449-8571**
- **Community email address – [imperial.strathcona@esso.ca](mailto:imperial.strathcona@esso.ca)**
- **Website – [www.imperialoil.ca](http://www.imperialoil.ca)**
- **Facebook page – ImperialStrathcona**
- **As members of the Strathcona Industrial Association, Imperial posts messages for neighbours on the UPDATEline – 1-866-653-9959**
- **Community outreach - the site's extended leadership team participates in community outreach activities in the region**



# Strathcona Refinery

Co-Generation Project

# Project overview

- Significant energy efficiency project with the added opportunity of reducing greenhouse gas emissions within Alberta
- Technology will allow the capture of heat generated from the production of electricity to produce steam
- Project expected to produce 41 megawatts of power per year or approximately 75-80% of the refinery demand
- Regulatory approval process underway with Alberta Environment, Alberta Utility Commission and Strathcona County
- Startup is planned for 2020

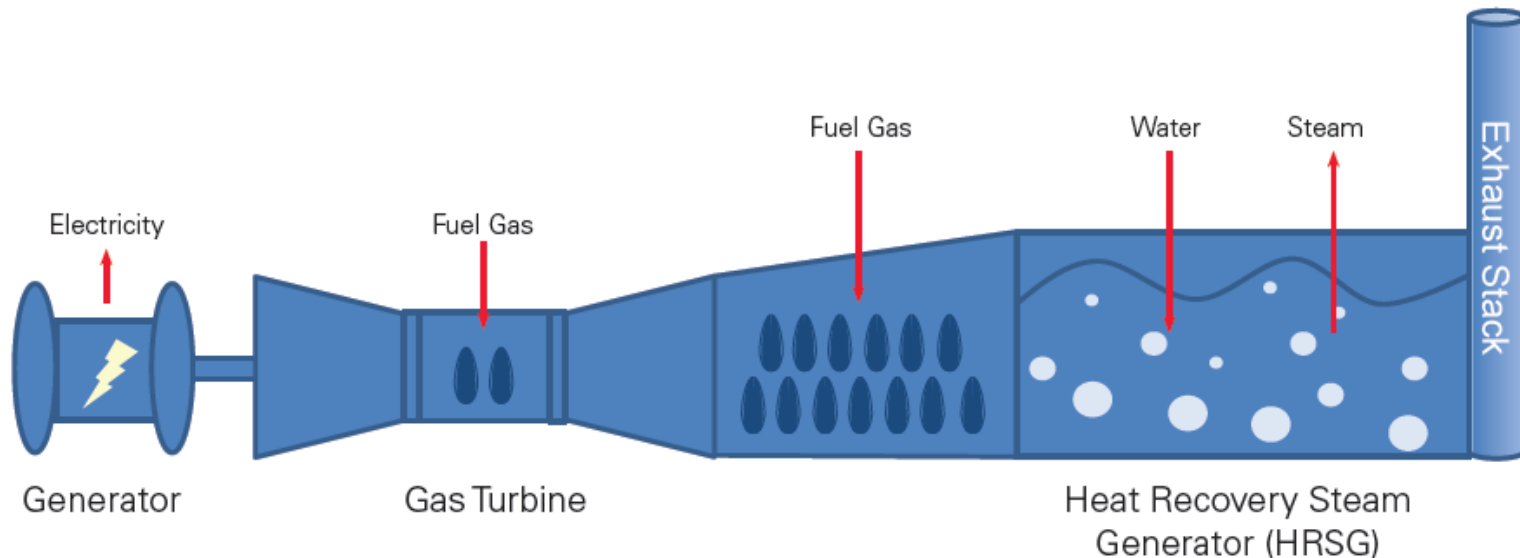




## Cogen Overview

# What is Cogeneration?

1. Fuel gas is fed into the gas turbine generator to produce electric power.
2. The exhaust gas from the gas turbine is piped into the Heat Recovery Steam Generator (HRSG) to produce steam.
3. Fuel gas is used by the HRSG duct burners to increase steam production.



# Environment

## Air

- Emissions from the project and associated facilities are expected to meet current and future Alberta limits and federal air quality standards

## Water

- Project will meet requirements of Alberta Environmental Protection Act and Water Act
- The project is not expected to adversely affect surface water, groundwater, soil, vegetation, fish or wildlife.

## Noise

- Noise levels will be managed to maintain current levels in nearby neighbourhoods through a combination of low noise technology employed in the design, and noise reduction initiatives implemented elsewhere in the refinery.

## Risk

- Updated risk assessment completed for the project
- No identified traffic concerns, project similar to maintenance turnaround



# Questions

