



June 14, 2016

Strathcona Refinery

Strathcona County Council

Presented by: Bill Lawrysyn - Imperial

Strathcona Refinery location



Edmonton Rail Terminal aerial view



Quick facts

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

Strathcona refinery can process ~ 189,000 barrels of crude oil per day

Land-locked refinery with connectivity to conventional and synthetic crudes

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

Supplies products to an area from Northern Ontario to British Columbia; NWT to Northern US

Employment

- ~ 430 full time employees

- ~ 290 long term contractors

- Additional contractors for projects and turnarounds



Safety and environment

Strong Safety Culture – LPS Inc. system in use for several years

- LPS Inc. is a internationally recognized company 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

Outstanding Environmental Performance

“Protect Tomorrow. Today.”

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



Part of the community

Areas of focus guide our giving and community engagement – Education, Environment, Aboriginal, and projects in communities where Imperial operates

United Way – Imperial and Unifor local 21A run an award winning workplace campaign, \$580,000 in 2015

Strathcona County Library – 2016 marks the 20th year of support for the summer reading and youth volunteer programs

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

Skills Canada Alberta – promoting and encouraging Alberta youth to explore careers in trades and technology

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

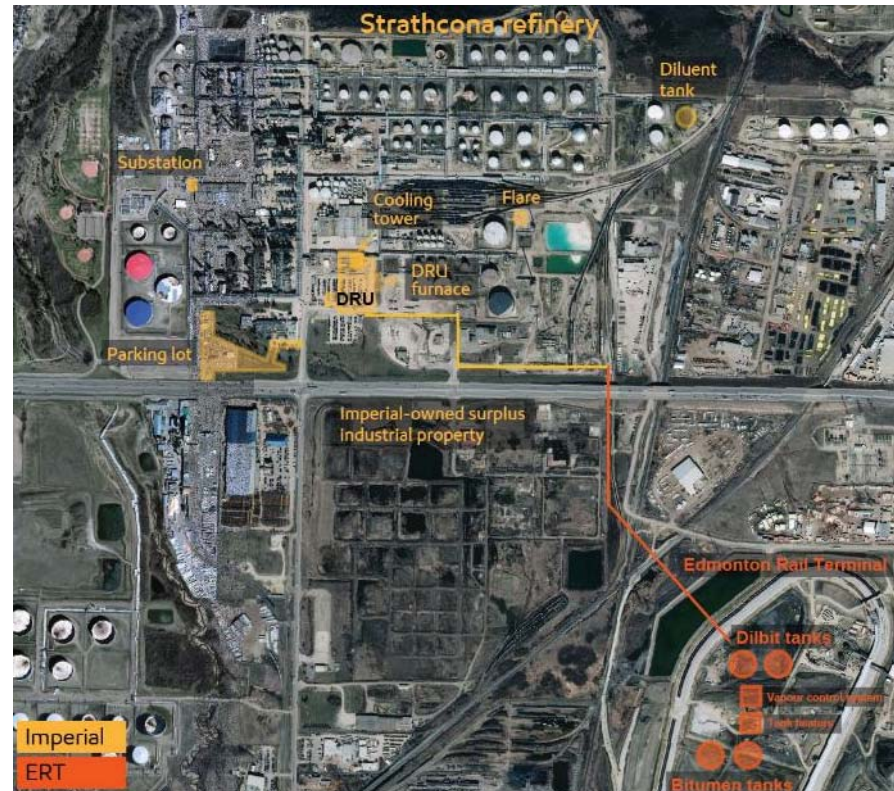
Linking Generations – supporting caring communities through the development of positive intergenerational relationships



Strathcona Refinery

Diluent Recovery Project

Project overview

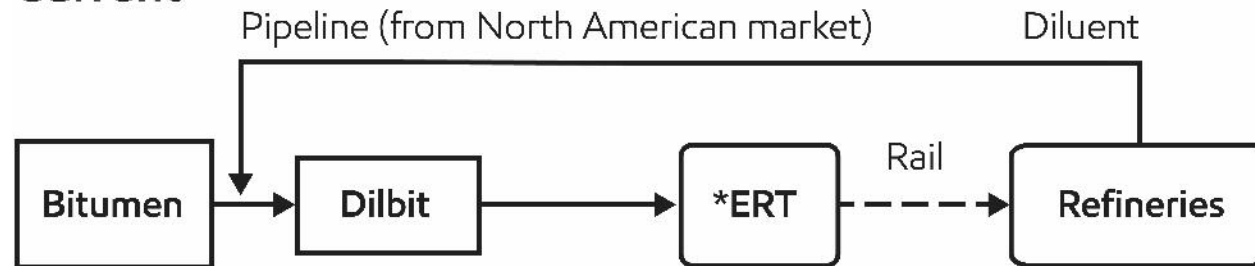


- The diluent recovery unit (DRU) would be built within the existing Strathcona refinery site, located at 3400 Baseline Road, near Edmonton, Alberta
- Diluted bitumen and bitumen handling facilities will be built at the Edmonton Rail Terminal (ERT)
- The proposed unit would have the capacity to process up to 200,000 barrels of diluted bitumen per day

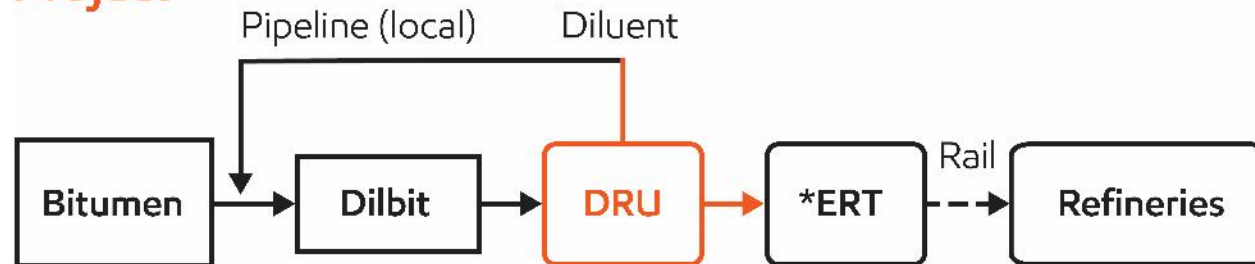
Project overview

- Through a process known as fractionation, the DRU would remove diluent from diluted bitumen and reduce the volume of fluid prior to shipping
- It would consist of a fractionation tower, furnace, heat exchangers and stabilizer tower
- Construction of a DRU at Strathcona refinery would result in greater transport efficiencies and improve market access
- Removing diluent at the refinery avoids unnecessary transportation over a distance of thousands of kilometres

Current



Project



*Edmonton Rail Terminal

Environment

Air

- Emissions from the proposed diluent recovery unit (DRU) and associated facilities are expected to meet current and future Alberta limits and federal air quality standards:
- The current back-up flare used for maintenance activities will be replaced with a new flare stack
 - The new flare stack will be of a similar height to the existing one and incorporate a low noise design and steam-assisted smokeless flare tip

Water

- Project will meet requirements of Alberta Water Act, and Code of Practice for Watercourse Crossings
- Fish Habitat Assessment completed by a qualified aquatic environmental specialist
- The DRU project is not expected to adversely affect surface water, groundwater, soil, vegetation, fish or wildlife

Noise

- Noise levels would 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



Traffic strategy

- During construction, traffic volume to and from the refinery would be similar to the level seen during a typical maintenance project
- A traffic management plan would be reviewed with local affected municipalities and controls put in place as required (light timing, special constables, signage, etc.)



Proposed project timeline

- Public consultations are currently underway to support the regulatory applications
- Stakeholders will have the opportunity to engage with Imperial and provide feedback on the proposed changes and identify concerns
- Imperial is committed to addressing questions and concerns throughout the regulatory process
- Construction of the Strathcona diluent recovery unit (DRU) could begin as early as 2018
- Startup of the facilities could occur as early as 2020

