

PETROCHEMICAL INVESTMENT OPPORTUNITIES



Alberta HUB
Where opportunity comes to life

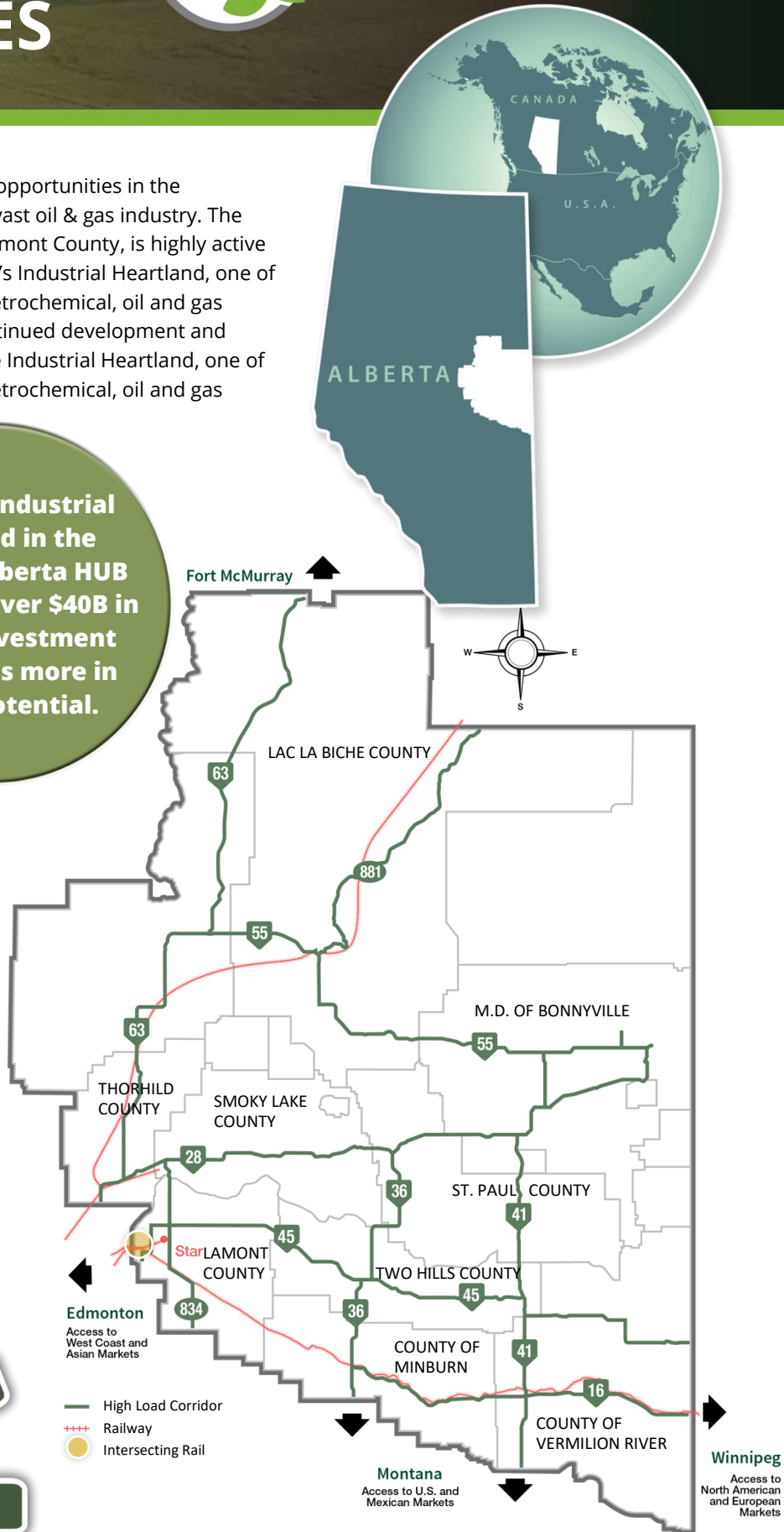
The Alberta HUB region offers excellent investment opportunities in the petrochemical sector, which is a natural fit with the vast oil & gas industry. The western side of the Alberta HUB region, featuring Lamont County, is highly active in petrochemicals. As a municipal partner in Alberta's Industrial Heartland, one of the world's most attractive locations for chemical, petrochemical, oil and gas investment, Lamont County is committed to the continued development and diversification of petrochemical industries within the Industrial Heartland, one of the world's most attractive locations for chemical, petrochemical, oil and gas investment.

Situated northeast of Edmonton, the Capital City of Alberta, Lamont County's Industrial Heartland area includes approximately 60 sq. km of land zoned for industrial & commercial development.

Lamont County is uniquely situated between the Alberta HUB region in the east and Alberta's Industrial Heartland in the west, and is an ideal transportation hub for industry to connect with World markets. Lamont County's heavy haul routes are a part of the Ports to Plains highway system and provide access to the Edmonton Capital Region and Alberta's Oil Sands. Rail access provides east-west regional service for industries within Alberta's Industrial Heartland to Edmonton and Calgary, and direct access to the U.S. through Chicago, to the Gulf of Mexico, Prince Rupert and the Port of Vancouver.

Alberta's Industrial Heartland in the Western Alberta HUB region has over \$40B in current investment and billions more in future potential.

Lamont County, on the west side of the Alberta Hub region, is one of the few areas in Canada where the Canadian National and Canadian Pacific Railways intersect.



Industry Partners / Investments in the Western side of Alberta HUB Region

Investment in Alberta’s Industrial Heartland currently exceeds \$40 billion. Given the region’s locational advantage, diverse range of feedstock, access to global markets, and strong R&D sector, investment potential is limitless. Recognizing these benefits, several companies within Lamont County have plans for multi-billion-dollar facilities and upgrades.

Cenovus Energy Inc.	Proposed DRU Upgrade announced	Cenovus announced plans for a DRU at the Bruderheim Energy Terminal in Fall 2019.
Alberta Midland Railway Terminal	Current operation completed 2017 Expansion plans for 2020	In December 2019 AMRT made a Development application to Lamont County to expand its site and will be connecting to the CP railway on it’s “Beaverhill” property.
Graymont	Current operations completed 2014	
Sil Industrial Minerals	Sil Industrial Minerals has been operating in Lamont County since the 1970s.	

Through partnerships with Alberta HUB, Alberta’s Industrial Heartland Association and Edmonton Global, Lamont County has developed relationships with key stakeholders in the petrochemical industry, and is poised to increase development in a variety of sectors, including producing and processing oil, gas, and petrochemicals, transportation, and advanced manufacturing.

Important Industry Partners in Lamont County

Cenovus Energy Inc. (Bruderheim Energy Terminal)

Cenovus Energy Inc. is a Canadian integrated oil company. Operations include oil sands projects in northern Alberta, and established natural gas and oil production in Alberta and Saskatchewan. The Bruderheim Energy Terminal is part of their strategy to create additional transportation options for our products and is designed to help us capture global prices for our oil.

Alberta Midland Railway Terminal Ltd. (AMRT)

AMRT is a rail logistics centre strategically located in the Eastern Alberta HUB region. They provide 3rd party rail logistics services to world-class energy and agricultural customers. The terminal is located west of the Town of Lamont and off CN’s Secondary Mainline between Edmonton and Winnipeg. AMRT offers scheduled switching and consistent local CN service. The terminal is designed for the efficient exchange of traffic between CN and AMRT.

Graymont

A family-owned company focused on high calcium and dolomitic lime. An emerging global leader in the supply of lime and limestone products, Graymont serves major markets throughout the United States and Canada and has extended its reach into the Asia-Pacific region.

Sil Industrial Minerals

Sil Industrial Minerals is the longest-running industry in Lamont County, having been operating since the 1970s. Whether it’s fracturing sand, silica flour, sandblasting or sand bunkers on the ninth hole, Sil Industrial Minerals can meet industry requirements. Despite a recent tough economic climate, Sil continues to support and create local jobs within Lamont County and supports numerous indirect and induced jobs throughout their operations.

ALBERTA HUB REGION PETROCHEMICAL OPPORTUNITIES

Lamont County offers a unique advantage gained from the historic existence of a Devonian era lake; salt caverns exist throughout the County.

Lamont County strives to work with industry partners to:

- Promote and facilitate industrial development proactively and efficiently
- Collaborate on facilitating services and infrastructure plan for the heavy Industrial area's use while maximizing efficient, environmentally friendly, industrial development

Alberta's Industrial Heartland on the west side of the Alberta HUB Region is Canada's largest hydrocarbon processing center. The region offers world-class facilities and is responsible for 43% of Canada's basic chemical manufacturing industry.

Petrochemical Investment Opportunities

- Electrical co-generation
- Phenol production for resin in composite board products
- Ethyl hexyl nitrate as phenol formaldehyde diesel cetane enhancer
- Hydrogen transfer, hydrogen fuel cells
- Ethanol Amines
- Spent hydrocracking catalyst recovery - nickel and vanadium
- Waste heat recovery, conversion, and utilization
- CO2 capture, aggregation, and sequestration
- Warehousing and packaging
- Natural gas and natural gas liquids fractionation
- Polypropylene/propylene
- Ethylene/polyethylene
- Fertilizer
- Electricity
- Logistics and infrastructure
- Industrial services

* Opportunities taken from Alberta's Industrial Heartland at www.industrialheartland.com



Lamont County

Lamont County, which is at the centre of the petrochemical sector in the western part of the Alberta HUB Region has an area of 2,474 sq. km (955 sq. miles) and is home to three towns, two villages, and the hamlets of Star, Hilliard, St. Michael, and Wostock. It has a rural population of approximately 4,000 people.

ALBERTA HUB REGION PETROCHEMICAL KEY SECTOR ADVANTAGE

The Alberta Industrial Heartland on the west side of the Alberta HUB Region is a multi-sectoral industrial region located North East of Edmonton, including refining, petrochemicals and other heavy industrial uses:



- The Alberta HUB region offers investors diversification possibilities from their existing service offerings or for new start up support businesses. Currently, the Alberta HUB region oil and gas sector represents an estimated 16 billion in GDP.
- Petrochemicals capacity includes ethane cracking, producing polyethylene plastic, styrene monomer and nitrogen fertilizers.
- Two rail access service options to reach export markets.
- There is a growing petrochemicals cluster in North West Alberta.
- We are seeking downstream investment opportunities in all spaces, with emphasis on development potential of methane-based petrochemicals capacity.
- Established oil, gas and other hydrocarbons sectors.

THE ALBERTA HUB INVESTMENT ADVANTAGE

Access to Markets

- Highways 41 and 36 are main North/South corridors connecting to U.S. and Mexican markets.
- Highway 16 (The Yellowhead) connects the region east-west to the strategic ports in BC.
- Lamont County rail access provides east-west regional service for industries within Alberta's Industrial Heartland to Edmonton and Calgary, and direct access to the U.S. through Chicago and to the Gulf of Mexico.
- Nine regional airports, daily air service from Lloydminster Airport and access to the Edmonton International Airport.

Land

- Highly accessible and reasonably priced retail, commercial and industrial land available. Typical cost starts at \$10,000/Acre (Unserviced) and \$90,000/Acre (Serviced).

Demographics

- A regional population of approx. 135,000 providing excellent labour access and immediate market access to the Edmonton market with a population of well over 1.4 million.

Applied Research

- InnoTech Alberta, which conducts most of the alternative crop research in Alberta including industrial Hemp and home of the industrial fibre decortication research facility.
- 'Advanced innovation-based applied research programs' at Lakeland College in Crop Research, Energy Research and Business Development.

Education

- Skilled labour is available regionally through postsecondary education at two Colleges: Lakeland and Portage as well as the University at Blue Quills.
- Over 38,000 have a post-secondary certificate, diploma or degree in the region.
- Lakeland College offers partnership and learning opportunities through their combined heavy oil and power engineering programs. The College's Energy Centre is one of the best equipped and modern steam labs in Canada with the only once through steam generator (OTSG) at a postsecondary institution.
- Portage College is home to Canada's first Pipeline Training Centre.



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Northeast Alberta
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