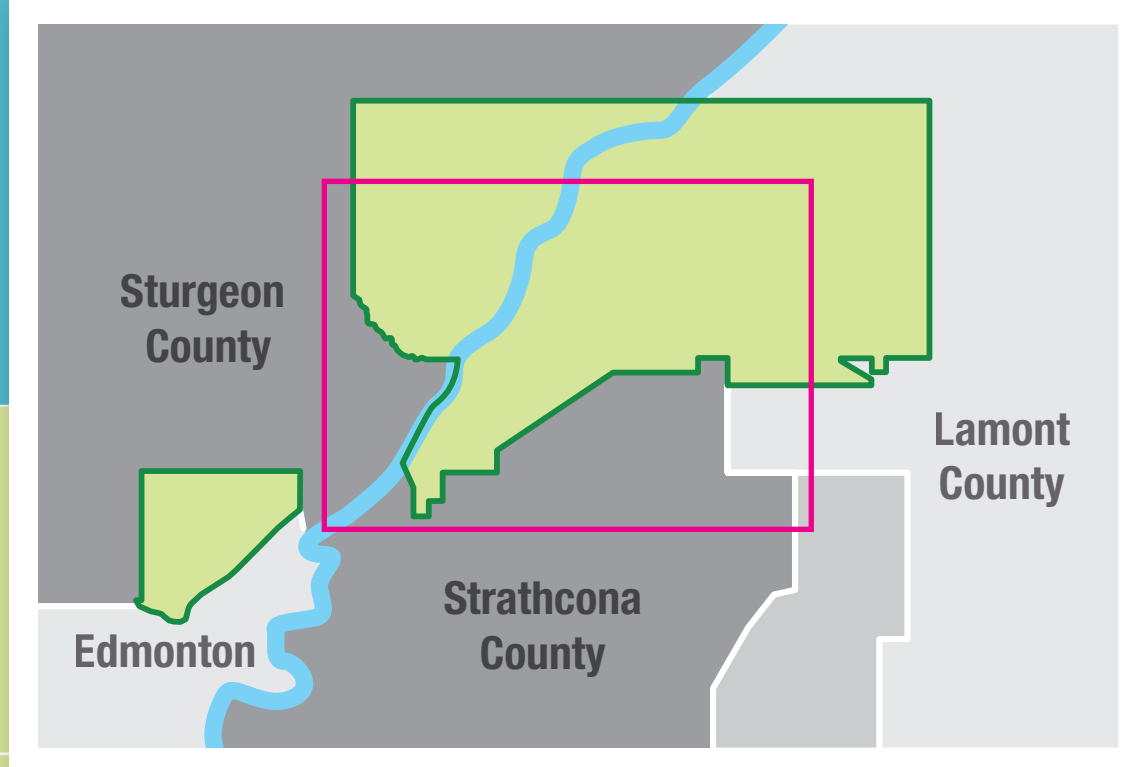
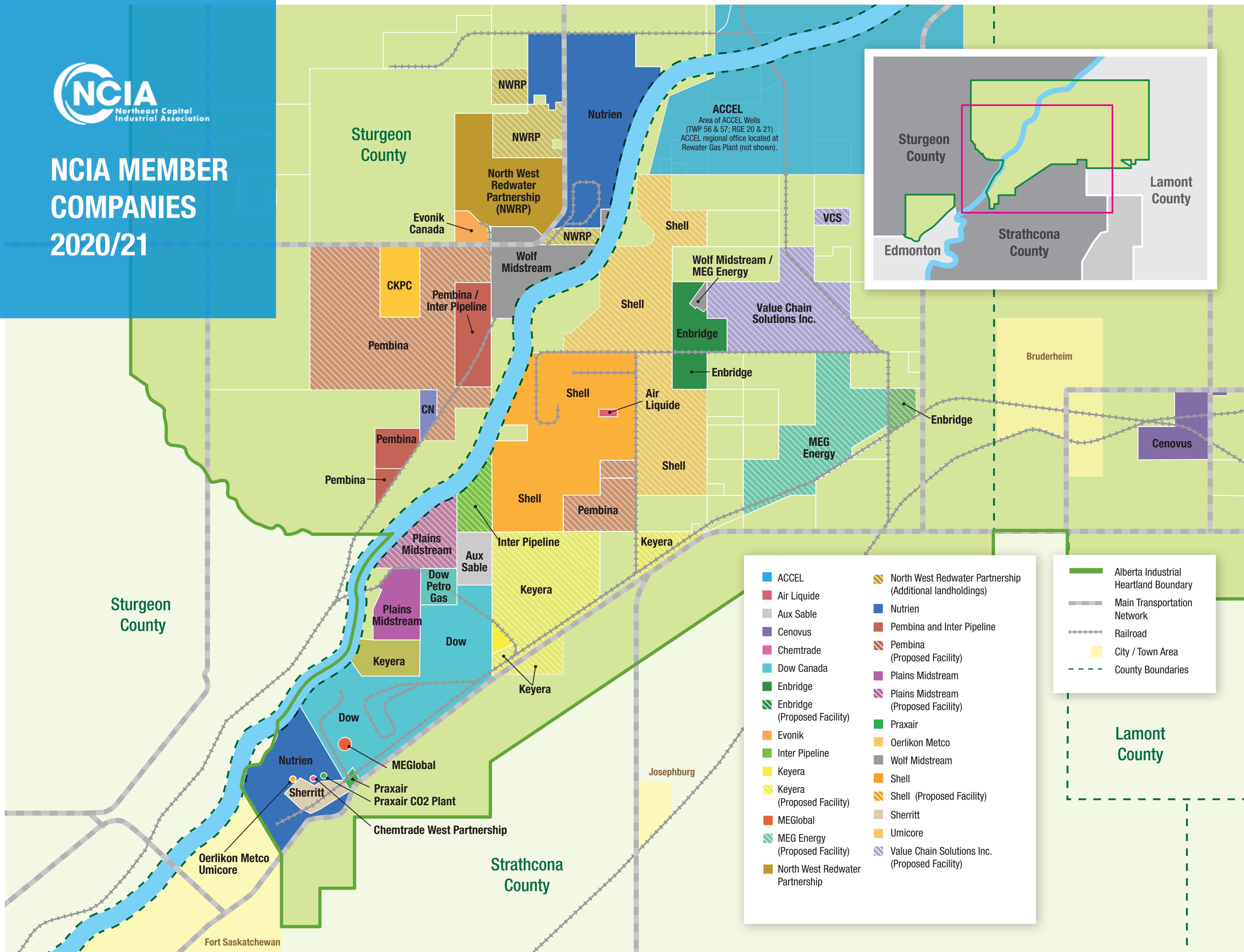




NCIA MEMBER COMPANIES 2020/21



ACCEL	North West Redwater Partnership (Additional landholdings)	Alberta Industrial Heartland Boundary
Air Liquide	Nutrien	Main Transportation Network
Aux Sable	Pembina and Inter Pipeline	Railroad
Cenovus	Pembina (Proposed Facility)	City / Town Area
Chemtrade	Plains Midstream (Proposed Facility)	County Boundaries
Dow Canada	Plains Midstream	
Enbridge	Plains Midstream (Proposed Facility)	
Enbridge (Proposed Facility)	Praxair	
Evonik	Oerlikon Metco	
Inter Pipeline	Wolf Midstream	
Keyera	Shell	
Keyera (Proposed Facility)	Shell (Proposed Facility)	
MEGlobal	Sherritt	
MEG Energy (Proposed Facility)	Umicore	
North West Redwater Partnership	Value Chain Solutions Inc. (Proposed Facility)	



NCIA MEMBER COMPANIES 2020/21

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ACCEL ENERGY

www.accelenergyltd.com

ACCEL's current production in Redwater is more than 2,500 barrels of oil per day of high netback light oil. Production is through 45 satellites directed to the Redwater Gas Conservation Plant (RGCP). The Redwater oil field was one of Canada's largest and most prolific oil discoveries in 1948. By 1955, it was drilled up to 40-acre spacing. In 2005, ARC Resources purchased its initial working interest in the area. ACCEL acquired ARC in 2018.



AIR LIQUIDE CANADA

www.ca.airliquide.com

At the Scotford complex, oxygen and nitrogen gases are produced for local industry along with liquid oxygen, nitrogen and argon for broader distribution throughout Alberta, Canada and the United States. A cogeneration plant produces electricity and steam for Shell Chemicals and Air Liquide's internal uses, while supplying any surplus power to the Alberta grid. A CO2 plant recovers and purifies by-product carbon dioxide from Shell's plant for enhanced recovery of oil and gas, and food-grade applications.



AUX SABLE CANADA

www.auxsable.com

Aux Sable Canada is a midstream gas processing company headquartered in Calgary. The company is a partnership between Pembina and Enbridge with each holding a 50% ownership. The Aux Sable Heartland Offgas Plant (HOP) in Fort Saskatchewan is operated by Pembina.

HOP is the first processing plant in Alberta to produce valuable products including hydrogen, ethane, and other natural gas liquids from a refinery offgas stream supplied from Shell's Scotford Complex. The products are returned to Shell via pipeline. Removing these products from the offgas and using natural gas as an industrial fuel reduces the environmental footprint of refinery and upgrader operations in the area.



CENOVUS

www.cenovus.com

Cenovus Energy Inc. is a Canadian integrated oil and natural gas company headquartered in Calgary that is committed to maximizing value by sustainably developing its assets in a safe, innovative and cost-efficient manner. Operations include oil sands projects in northern Alberta as well as established natural gas and oil production in Alberta and British Columbia. The company also owns the Bruderheim Energy Terminal near Edmonton, which has a crude oil loading capacity of approximately 100,000 barrels per day. The rail terminal is part of Cenovus' strategy to create additional transportation options to help capture global prices for its oil. Cenovus also has 50% ownership in two U.S. refineries.



CHEMTRADE

www.chemtradelogistics.com

At two plants in Fort Saskatchewan, Chemtrade produces and supplies sulphur-enhanced chemicals to most of the pulp and paper as well as oil and gas manufacturers in western Canada. Chemtrade also supplies water treatment chemicals to municipalities and industries throughout Alberta, British Columbia and Saskatchewan.



DOW CANADA

ca.dow.com

Dow's Fort Saskatchewan manufacturing site is one of the largest petrochemical facilities in Canada. The more than 2,000-acre Fort Saskatchewan site (The Fort) opened in 1961 and is home to three world-scale facilities:

- A fractionator plant that separates natural gas liquids received by pipelines from various gas plants to supply ethane to the cracker.
- An ethane cracker, FS-1, converts ethane supplied by the fractionator into ethylene. Ethylene is an important component in the manufacturing of plastics, consumer materials, and other petrochemical products.
- A solution polyethylene plant that manufactures plastic pellets that are used by Dow's customers in everyday products, such as food packaging that prolongs shelf-life.

The Fort also has power and utilities operations to supply power, water, condensate, and steam to the site. On site hydrocarbon storage facilities include a cavern for ethane storage, a cavern for C2+ (ethane-rich stream of natural gas liquids) storage, and a cavern for ethylene storage.



ENBRIDGE

www.enbridge.com

Enbridge is a North American energy infrastructure company headquartered in Calgary. The 447 km Norlite Pipeline was completed and in-service as of June 2017. The 24-inch pipeline ships 218,000 barrels per day of diluent from the Enbridge Stonefell site in the Industrial Heartland to the Suncor East Tank farm near Fort McMurray and has the potential to be expanded up to 418,000 barrels per day with the addition of pump stations.



EVONIK

https://corporate.evonik.us/region/north_america/en/

The Evonik Gibbons site is a key part of Evonik's Active Oxygens business line, a leading supplier of hydrogen peroxide, peracetic acid, and persulfates with 18 production sites around the globe. The chemicals are widely used in the pulp and oil and gas industry as well as many other applications, such as food safety, electronics, and environmental applications.



INTER PIPELINE

www.interpipeline.com

Inter Pipeline is a world-scale energy infrastructure business engaged in the transportation, processing and storage of energy products across Western Canada and Europe. Inter Pipeline is the owner of the Redwater Olefinic Fractionator in Strathcona County. Approximately 40,000 b/d of an ethane-plus mixture from upgrader offgas, a by-product of bitumen upgrading operations, is fractionated at this facility and turned into marketable products sold across North America. This facility is operated by Pembina Pipelines.

In addition, Inter Pipeline is actively constructing the world-scale Heartland Petrochemical Complex. Scheduled for completion in early 2022, the Complex is designed to convert locally sourced, low-cost propane into 525,000 tonnes per year of polypropylene, a high value, easy to transport plastic used in the manufacturing of a wide range of finished products. Consisting of a propane dehydrogenation (PDH) and a polypropylene (PP) facility, the Heartland Petrochemical Complex is situated near Inter Pipeline's Redwater Olefinic Fractionator.



KEYERA

www.keyera.com

Keyera operates an integrated Canadian-based energy infrastructure business with extensive interconnected assets and depth of expertise in delivering energy solutions. Keyera's Fort Saskatchewan fractionation and storage facility includes a natural gas liquids processing plant, underground storage caverns, and a series of pipeline connections to Keyera truck and rail terminals. Keyera also operates an industry-leading condensate system in the Edmonton/Fort Saskatchewan area.



MEGlobal Canada

www.meglobal.biz

MEGlobal is a world leader in the manufacture and marketing of monoethylene glycol and diethylene glycol (EG). The company manufactures more than 2.09 million metric tons annually of EG at its plants in Alberta, including a nameplate capacity of 450,000 metric tons annually in Fort Saskatchewan. EG is used as a raw material in the manufacture of polyester fibers, polyethylene terephthalate resins (PET), antifreeze formulations and other industrial products.



MEG Energy

www.megenergy.com

MEG is an energy company focused on sustainable in situ thermal oil production in the southern Athabasca region. MEG Energy owns a 1,200 acre parcel of land in Strathcona County and has disclosed plans to develop commercial facilities including a Diluent Recovery Unit and partial upgrading facilities. MEG also owns a smaller parcel of land in the industrial development area of Lamont County adjacent to the Bruderheim Energy Rail Terminal. MEG is the lessee and operator of the 900,000-barrel Stonefell Terminal which connects to the Access Pipeline.



NWR North West Redwater Partnership (Sturgeon Refinery)

www.nwrsturgeonrefinery.com

North West Redwater Partnership (NWR), an Alberta-based Partnership, owns and operates the Sturgeon Refinery located in Sturgeon County. The Sturgeon Refinery is the first refinery built in Canada in over 30 years and the only one designed from the outset with a carbon capture solution. The refinery processes diluted bitumen from Alberta's oil sands into ultra low sulphur diesel and other value-added products using gasification to make hydrogen from the heaviest liquid components. This maximizes the production of high value components, minimizing waste products, and enabling the capture and sequestration of pure carbon dioxide, which is used by others for enhanced oil recovery in central Alberta.



NUTRIEN

www.nutrien.com

Nutrien is the world's largest provider of crop inputs and services, playing a critical role in helping growers increase food production in a sustainable manner. Nutrien produces and distributes over 25 million tonnes of potash, nitrogen and phosphate products for agricultural, industrial and feed customers world-wide. Combined with their leading agriculture retail network that services over 500,000 grower accounts, they are well positioned to meet the needs of a growing world and create value for their stakeholders.

The Nutrien Redwater fertilizer manufacturing plant produces Anhydrous Ammonia, Granular Urea, Ammonium Nitrate Liquor, Ammonium Nitrate Industrial Prill, Urea Ammonium Nitrate, Sulphuric Acid and Ammonium Sulphate. The Nutrien Fort Saskatchewan fertilizer manufacturing plant produces three products: anhydrous ammonia, aqua ammonia and granular urea. These products are used primarily for agriculture in Canada and the United States.



OERLIKON METCO CANADA

www.oerlikon.com

Oerlikon Metco (Canada) operations in Fort Saskatchewan include manufacturing, research and development, analytical services, engineering, sales and marketing, and administration for all of Oerlikon Metco's operations in Canada. They produce a range of nickel-based composite powders for aerospace, power generation and electronics applications, as well as other specialty materials.



PEMBINA

www.pembina.com

Headquartered in Calgary, Pembina is a midstream service provider with infrastructure that connects oil and gas production to markets that need it. Their Redwater operations focus on NGL fractionation and storage with 210,000 bbl/day of processing capacity for NGLs such as ethane, propane, butane and condensate, in addition to large transportation and logistics infrastructure including truck terminals, rail facilities and pipeline connectivity to markets. The facility also includes 22 underground storage caverns, the largest in Western Canada. Pembina operates the IPL fractionation facility as well as the TransCanada Cogen.



PLAINS MIDSTREAM CANADA

www.plainsmidstream.com

The Plains Midstream Fort Saskatchewan site is a fractionation and underground storage facility that brings in a stream of natural gas liquids (NGLs) to be treated or fractionated then stored for future shipments. The facility consists of three fractionation plants, a Carbonal Sulphur (COS) removal plant, five molecular sieve units, ten storage caverns, unmanned propane truck loading and a control centre for the pipelines and the facility plants. Storage for NGL products occurs in solution mined salt caverns 1,800 metres below the facility. The facility also marks the termination point to the Alberta Ethane Gathering System (AEGS). Ethane storage and the ability to redeliver as ethane demand warrants is key to the success of Alberta's petrochemical business.



Praxair Canada Inc. (a Linde Company)

www.praxair.com

Praxair Inc. is the largest industrial gases company in North and South America, and one of the largest worldwide. The company produces, sells and distributes atmospheric, process and specialty gases, and high-performance surface coatings. Praxair's Fort Saskatchewan personnel oversee two large air separation units, carbon dioxide purification facilities and oxygen and nitrogen pipelines.



SHELL SCOTFORD

www.shell.ca

The Shell Scotford complex near Fort Saskatchewan consists of a bitumen upgrader, oil refinery, chemicals plants and a carbon capture and storage (CCS) facility. It is one of North America's most efficient, modern and integrated hydrocarbon processing sites, converting oil sands bitumen into fuels for Canadians and building blocks for many household chemical products.

Shell's Quest Carbon Capture and Storage (CCS) facility is a joint venture of Shell, Canadian Natural, and Chevron. Since starting up in 2015, the Quest facility has safely captured, transported and stored (permanently underground) over 1 million tonnes of CO2 per year from the Scotford Upgrader in Strathcona County – the equivalent to taking the emissions of 250,000 cars off the road each year.



SHERRITT INTERNATIONAL CORPORATION

www.sherritt.com

Sherritt International Corporation is a world leader in the mining and refining of nickel from lateritic ores with operations in Canada, Cuba and Madagascar. Sherritt's Fort Saskatchewan facilities are a part of its integrated nickel business, producing high-purity nickel and cobalt for international markets. The site produces ammonia-based fertilizers and sulphuric acid for internal use and sale into local and domestic markets. Fort Saskatchewan is also home to Sherritt's global metallurgical technologies consulting business.



UMICORE CANADA

www.umicore.com

Umicore Canada is part of Umicore's Energy Materials business group and produces micron and sub-micron sized spherical fine cobalt powder for use as a binder in cutting tools. Umicore Canada makes its powder through a proprietary hydrometallurgical process that provides unique processing advantages for the end customer and improved tool properties.



VALUE CHAIN SOLUTIONS

https://www.vcsb2co.com/

Value Chain Solutions Inc. (VCS) is a subsidiary of Value Creation Inc. (VCI). VCS is implementing merchant upgrading and specialty refining facilities with licensed technology from VCI. The first commercial complex, located in Alberta's Industrial Heartland, is a "shovel ready" project, called Value Chain Solutions – Heartland Complex (VCS-H). VCS-H will provide a cost-effective means to convert bitumen into high value products in an environmentally responsible manner.



WOLF MIDSTREAM

www.wolfmidstream.com

Wolf Midstream is a private, Calgary-based company that owns and operates energy assets in Alberta. Wolf owns and operates the Access Pipeline System which consists of two distinct pipeline networks. One of these networks transports oil products from Edmonton to the Wood Buffalo area while the second transports oil products from Wood Buffalo to Edmonton for delivery to markets. Wolf also owns and operates the Sturgeon Terminal and the Stonefell Terminal tank farm located in Strathcona county.

In partnership with Enhance Energy Inc., Wolf began construction of the Alberta Carbon Trunk Line (ACTL) in October 2018. The ACTL is the world's largest carbon capture, utilization and storage project that exclusively addresses greenhouse gas emissions originating from human activity. The ACTL infrastructure includes two compression facilities and a 240-kilometre pipeline that collects CO2 from industrial sources in Alberta's Industrial Heartland and transports it to aging reservoirs throughout central and southern Alberta for secure storage and enhanced oil recovery projects. Project completion is scheduled for Q2 2020.