



# Joffre Site

An overview of our operations

Our petrochemical manufacturing facilities at the Joffre Site are among the world's largest. Our site is located on just over 405 hectares (1,000 acres) in Central Alberta.

## NOVA Chemicals' mission:

To be the leader in innovation that enables our customers to deliver plastic products that make everyday life healthier, easier and safer.



NOVA Chemicals is a trusted supplier to the world's leading plastic converters. Our employees develop and manufacture materials in collaboration with our customers worldwide who produce consumer, industrial and packaging products.

As a leader in Responsible Care®, we have an unwavering commitment to sustainability, health, safety, and the environment — including stewardship of our products throughout their life cycles.

NOVA Chemicals and our employees practise a culture of dignity, respect, openness and honesty with one another and in the communities where we live and work.

**In our community, we take care to be a neighbour that promotes dialogue, understanding and involvement.**



*Through our community outreach we inform neighbours and other stakeholders about our facilities, operations and products. We make concerted efforts to understand and respond to concerns and seek input about our plans and operations through a community advisory panel, open houses, personal visits, a community-focused website and community newsletter.*

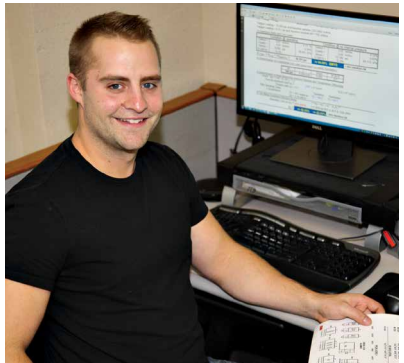
# We're proud of our start in Alberta

An ethylene plant in Joffre, Alberta, commissioned in 1979, was the foundation for what today is one of the largest ethylene and polyethylene production complexes in the world. We employ over 1,300 people as well as hundreds of contract personnel in Alberta.

Today, NOVA Chemicals has production facilities located in Canada and the United States, and we license proprietary technologies to leading petrochemical manufacturers around the world. We are primarily an ethylene / polyethylene producer.

NOVA Chemicals, headquartered in Calgary, Alberta, Canada, is wholly-owned ultimately by Mubadala Investment Company of the Emirate of Abu Dhabi, United Arab Emirates.

Our Research & Development Centres located in Calgary support our manufacturing facilities, our technology licensees and our customers.



## We are committed to re-investment into our facilities.



*We have invested more than \$2 billion over the last 10 years to maintain and grow our Alberta manufacturing facilities, while ensuring ongoing safe and reliable operations that will remain competitive in global markets.*

*The Joffre Site annually puts about \$288 million directly into Central Alberta's economy in the form of salaries, goods and services and municipal taxes.*

# What do we produce?



**At our Joffre Site we primarily produce ethylene and polyethylene — lots of it!**

**Ethylene is a vital building block for the plastics and petrochemical industries.** We make ethylene from ethane which is extracted from natural gas and transported to our site by pipeline. Each year our three ethylene plants can produce over six billion pounds\* of the product that is used by our customers to create products such as automobile components, shampoos, synthetic fibers and even cosmetics.

\*includes Dow Chemicals 50% position in Ethylene 3

**Polyethylene is a common plastic shipped worldwide from our site in pellet form.** Our two plants produce over 3.4 billion pounds each year for our customers to produce anything from protective food packaging, trash and merchandise bags, consumer and industrial product packaging, and shrink and stretch films.



**Co-products result from the production of our primary products.**

Excess hydrogen from ethylene production is sold locally for agricultural fertilizer production. Other products are sold to manufacturers of consumer products such as nylon rope, rubber, household plumbing and specialty chemical applications.

**On-site infrastructure** includes cooling and water treatment systems, pipelines and rail and truck handling for product distribution, and a cogeneration power plant owned with other partners.

**The Linear Alpha Olefins (LAO) facility** is owned and operated by INEOS. This facility uses ethylene from our plants to produce LAOs, some of which we in turn purchase to manufacture polyethylene.



# We are a Responsible Care company

## **NOVA Chemicals' culture is built on the ethics and standards of Responsible Care.**

Responsible Care, launched in 1985 by the Chemistry Industry Association of Canada (CIAC), is the chemistry industry's approach to addressing stakeholder concerns about the potential effects of chemicals and chemical facilities on human health and the environment.

Taking Care is our particular approach to putting Responsible Care and sustainability into practice.

## **Taking Care**



We are committed to minimizing our impact on the environment because it is the right thing to do and is key to the sustainability of our business.

**For more information on Responsible Care, please visit [www.canadianchemistry.ca](http://www.canadianchemistry.ca).**

## **Safety is a priority In our operations.**



*We take care to attract and develop talented people committed to the safety and well-being of themselves and others. We foster relationships such as with the Lacombe County Mutual Aid Organization for effective emergency response preparedness.*

We invest more than \$1 million annually in the well-being of our communities through financial support, “gifts-in-kind”, employee volunteer hours and our annual employee / corporate United Way Central Alberta campaign.



Our partnerships with community organizations dedicated to improving the overall quality of life in Central Alberta reflect our goal of being a socially responsible neighbour and operating within the ethical framework and principles of Responsible Care.



*The 89-hectare NOVA Chemicals Community Nature Trail located just north of the Joffre Site was opened in 2015. This environmental legacy project related to our recent Polyethylene 1 Expansion is a wonderful resource for the community and our employees. The Community Nature Trail is open year-round to the public. Interpretive signage along the five-kilometre trail system highlights the theme Taking Care with Our Land.*

**Connect with us!**



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**[www.novachemicals.com/Joffre](http://www.novachemicals.com/Joffre)**



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