

# ABOUT THE SARNIA-LAMBTON PETROCHEMICAL & REFINING COMPLEX

The birthplace of Canada’s petrochemical industry, as the site of North America’s first commercial oil well in 1857. The **Sarnia-Lambton Petrochemical and Refining Complex** has grown to be Canada’s most concentrated and integrated chemicals cluster, including three refineries and more than thirty-five interrelated chemical facilities with processes ranging across the hydrocarbon value chain.

The region’s excellent location, access to raw materials and transportation routes to the markets of the world, and supply of experienced labour ensures a vibrant future for the diversified oil and petrochemical complex.















## LOCATION & TRANSPORTATION

Located on the Canada/USA border in the heart of the Great Lakes Basin, Sarnia-Lambton provides access to major road, rail water, air and pipeline corridors to ensure a smooth flow of inputs and end-products through your facilities value-chain.

## Rail

The regional rail infrastructure is supported by mainline Class I railroad service from Canadian National (CN) and CSX Transportation, and boasts the largest flat switching yard in the Great Lakes District.

The St. Clair Runnel allows movement of goods to the US Midwest, US Gulf Coast, or eastern US ports.

## Road

Linked to the Ontario 400-series highway system via Highway 402, and with access to the U.S. Interstates I-69 and I-94 by the twin-span Blue Water Bridge border crossing, Sarnia-Lambton is located within a one-day drive to 65% of the US market, and major Ontario & Quebec markets.

## Pipeline

Over 1,500 kilometres of pipeline service the Sarnia-Lambton area, supplying substantial volumes of gas and liquid utilities and hydrocarbon raw materials.

## Water

Located on the St. Clair River, ships can access the Atlantic Ocean via the St. Lawrence Seaway System.

The chemical industry has direct access to several 700+ foot liquid loading docks, while Sarnia Harbour can accommodate the movement of over-sized process modules in and out of the Sarnia-Lambton.

## Air

Three international airports are within 130 km (80 miles) of Sarnia-Lambton. Detroit Metropolitan Wayne County Airport, London International Airport, and Flint Bishop International Airport all provide air freight and logistics services. Sarnia’s Chris Hadfield Airport provides connections to Toronto Pearson International Airport, itself only 225 km from Sarnia-Lambton.

# INDUSTRIAL INFRASTRUCTURE & UTILITIES

Sarnia-Lambton has the infrastructure, utilities and industrial base to support all forms of industrial activity, including the capital-intensive manufacturing of oil-based fuels and chemicals, energy technologies, and bio-based technologies.

- **Savings of 35-40% of electricity cost through access to “behind-the-fence” energy pricing.**
- 2,800 MW of natural gas, solar, & wind generated power.
- Pipeline supply of abundant and affordable natural gas from the Enbridge Gas Dawn Hub – Canada’s largest natural gas trading hub.
- The St. Clair River provides billions of litres per day of cooling and process water supply, and wastewater capacity exists.
- 73 deep-well storage salt caverns store 3.5 million cubic metres of hydrocarbons and liquefied petrochemicals.

THE UTILIZATION OF EXISTING AND SHARED INFRASTRUCTURE CAN RESULT IN A CAPITAL COST SAVINGS OF UP TO 20 PERCENT.

## CONTACT US

### SARNIA-LAMBTON ECONOMIC PARTNERSHIP

1086 Modeland Road  
Building 1050, Suite 100  
Sarnia, ON, Canada N7S 6L2

519-332-1820  
contact@sarnialambton.on.ca  
sarnialambton.on.ca  
SLEconomicDev  
sarnialambtonecpart





EDUCATION & TRAINING

- **Lambton College** works cooperatively with petrochemical and refining companies to provide technology and trades programs that meet industry demand for skilled employees.
- **Sarnia-Lambton Industrial Education Co-operative** offers training; educational programs and services, to 20 industrial members.

INNOVATION, RESEARCH, & DEVELOPMENT

**Lambton College Research and Innovation** is a global leader for collaborative applied research, development, innovation, education, entrepreneurship and commercialization.

**Ranked as one of Canada's TOP 3 RESEARCH COLLEGES for three consecutive years**

The **Western Sarnia-Lambton Research Park's** Commercialization Centre provides companies access to office, laboratory and pilot plant infrastructure for research and commercialization.

**2016 – Outstanding Research Park Award**





WORKFORCE

Sarnia-Lambton has a labour force of 64,500, with over 21,700 people employed in manufacturing and service industries in Lambton County. The total labour force within a 100km radius is almost 550,000.

- Sarnia-Lambton offers a dependable and abundant supply of skilled labour. The region's skill pool is exceptionally strong in the areas of science, engineering, process operations, instrumentation, metal fabrication and managerial ability.
- Labour rates are competitive with the US Gulf Coast and other regions of similar industrial clusters.
- High quality of work, education, and safety result in low employee turnover and absenteeism rates.

EMPLOYMENT BY INDUSTRY

Manufacturing .....	6,700
Construction.....	5,600
Mining, Oil, Gas, and Agriculture.....	3,600
Professional, Scientific, & Technical.....	3,100
Transportation and Warehousing .....	2,800



INDUSTRIAL SUPPORT

Sarnia-Lambton has the industrial support services infrastructure to support the petrochemical and refining industry from site selection to operation. This is accommodated by the 1,200 industrial related companies in the sectors of manufacturing, construction, utilities and communications, industrial services and warehousing and transportation.

The **Sarnia-Lambton Industrial Alliance** is a coalition of 35 companies specializing in design, engineering, environmental permitting, manufacturing of machinery and equipment modules, construction, installation, and plant commissioning.

The **Sarnia-Lambton Environmental Association** monitors environmental conditions to assess the impact of local industry on air, water, and soil.



SITE OPPORTUNITIES

Greenfield and brownfield sites are available for the development of new petrochemical and refining facility that require heavy industrial zoning and have large utility requirements.

The **Bluewater Energy Park** and **Bio-Industrial Park Sarnia** are fully serviced industrial parks ideal for pilot, demonstration, and full-scale chemical facilities, with direct connections to extensive shared infrastructure. Services at both sites include:

- “Behind-the-fence” energy pricing with potential savings of 35-40% on energy costs.
- Potential to save up to 20% on capital costs through shared infrastructure.
- Electrical distribution throughout sites.
- CSX and CN rail access with spur lines throughout site.
- Access to natural gas, hydrogen, nitrogen and compressed air via pipeline.
- Steam at multiple pressures.
- Service water, fire water and wastewater lines throughout the sites.
- 700+ foot marine terminals for ocean and lake freighter service.



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