

## Plant Overview

### Products and markets

The Becancour, Quebec plant produces primarily 35%, 50% and 70% hydrogen peroxide solutions. These products are manufactured with leading-edge technology and are used as bleaching or antiseptic agents in a wide variety of industries such as pulp and paper, textile, food processing, mining and metallurgy, as well as the environmental sector.

- In the pulp and paper industry, hydrogen peroxide acts as an effective bleaching agent. Bleached chemical pulps may reach brightness levels as high as 90-92%.
- In the chemical industry, hydrogen peroxide is an outstanding reagent for various syntheses.
- In the textile industry, it is a desirable bleaching agent for natural fibers as well as synthetic fibers. Because of its compatibility with various fabric and textile dyes, it achieves permanent whiteness without damaging the fibers.
- In the pharmaceutical or medical fields, it is used as a disinfectant.
- In the food processing industry, it is widely used for disinfecting and cleaning. It is also used as a sterilizing agent for the aseptic filling and packaging of milk and fruit juices.
- Hydrogen peroxide is used for the purification of drinking water.
- In the environmental sector, it is used in the desulphurization and deodorization of wastewater as well as the decontamination of industrial effluents, soil and water.
- In metallurgy, hydrogen peroxide in combination with sulfuric or hydrofluoric acid is used for stainless steel and aluminum surface finishing.
- In the mining industry, we have already gained entry to the gold mining market. Our next target is the fishing and farming industry.



### Community Involvement

- **Citizen Committee** – Although the plant is in an industrial park, we keep in close contact with the community. The Citizen Committee is managed by the citizens, and they set their own agenda. It allows us – along with two other companies in our industrial park – the opportunity to interact with the community so they are aware of our plant activities. They have the opportunity to visit us and ask questions. The Committee holds several meetings per year, which are open to the public.
- **Industrial Safety Group** – We are one of 15 participating companies that make up Quebec's mutual community panel. The panel shares industry concerns and works toward best practices for the industry. The purpose of the committee is to group together industrial companies, share experiences and improve safety for all.
- **CRAIM** – We participate in the CRAIM meetings (Industrial Risks Communication Association) at the provincial level.
- **CMMI** – We participate in the CMMI meetings (Municipal, Industrial and Community Committee) at the municipal level.

## Local Associations / Events We Sponsor

- Member of Chamber of Commerce
- Member of Chemistry Industry Association of Canada (CIAC)
- Member of CEOP (Committee for Enterprises and Organizations in Industrial Park)
- Sponsor of United Way/Centraide
- Internships for students
- Laboratory equipment donations for local schools
- Community College internship program



## Key Figures for 2017\*

<b>Number of employees</b>	<b>64</b>
<b>Local economic impact (payroll/utility/property taxes annually)</b>	<b>\$8.7 CAD Million a year</b>
<b>Investment in Health, Environment and Safety</b>	<p><b>Over \$750 000 CAD per year in approved capital investments for health, safety, and environmental projects</b></p> <ul style="list-style-type: none"> <li>• At Becancour, Arkema produces hydrogen peroxide solutions that are pure and generally stable. The company ensures that any innovations applied to its process comply completely with research and development codes.</li> <li>• The manufacturing code stipulates that measures must be taken to protect employees, the community and the environment against the potentially harmful effects of its manufacturing activities.</li> <li>• The company has developed a health, safety and environmental guide for employees and contractors, with a charter for "Health-Safety-Environment-Quality". Effective prevention measures have been implemented and regular inspections are made.</li> <li>• Arkema has implemented measures to ensure that its products are transported as safely as possible and with minimal risk to the public.</li> <li>• Compliance with the distribution code is constantly monitored. This means that if a supplier or a distributor fails to respect the code, their services are no longer used.</li> <li>• The hazardous waste management code encourages member companies to find ways to reduce, reuse, recycle or recover hazardous products before considering their disposal.</li> <li>• Arkema evaluates the causes of all malfunctions in order to establish preventive measures and avoid repetition.</li> <li>• Arkema challenges our partners through regular evaluations of their progress.</li> <li>• As a member of the Chemistry Industry Association of Canada (CIAC), Arkema is committed to Responsible Care®. This program of initiatives, adopted by all CIAC member companies, seeks to protect the health and safety of employees, as well as the environment and the surrounding communities. Based on three codes of good conduct, Responsible Care® ensures the safe management of chemical products throughout their manufacture,</li> </ul>

	<p>storage, handling and transportation. At Arkema, we view Responsible Care® as a part of our Total Quality Management Pledge.</p> <ul style="list-style-type: none"> <li>• Installation of an electrical outlet for electrical vehicles for our employees and visitors.</li> </ul>
<b>Safety record</b>	<ul style="list-style-type: none"> <li>• No recordable in last 4 years; <b>no lost time recordable in 28 years</b></li> </ul>
<b>Awards/certifications for safety, environmental, and quality</b>	<ul style="list-style-type: none"> <li>• Arkema's Becancour plant is the world's first manufacturer of hydrogen peroxide to be ISO 9002:1994 certified.</li> <li>• The Becancour facility is certified ISO 9001:2008 (quality) and ISO 14001:2004 (environment) and OSHA 18001:2005 (safety)</li> <li>• Becancour is also registered in the Responsible Care® program from the Chemistry Industry Association of Canada.</li> <li>• Registered with the FDA for manufacturing food grade hydrogen peroxide.</li> </ul>

## About Arkema

*A designer of materials and innovative solutions, Arkema shapes materials and creates new uses that accelerate customer performance. Our balanced business portfolio spans High Performance Materials, Industrial Specialties and Coating Solutions. Our globally recognized brands are ranked among the leaders in the markets we serve. Reporting annual sales of €8.3 billion in 2017, we employ around 20,000 people worldwide and operate in some 55 countries. We are committed to active engagement with all our stakeholders. Our research centers in North America, France and Asia concentrate on advances in bio-based products, new energies, water management, electronic solutions, lightweight materials and design, home efficiency and insulation. [www.arkema.com](http://www.arkema.com)*

*Responsible Care is a registered trademark of the American Chemistry Council and the Chemistry Industry Association of Canada.*

*Last Updated: June 2018*

*\*includes both Becancour and Burlington sites figures*