# Our Company

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# Our Products and Markets

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# Corporate Information

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From the CEO

At PeroxyChem we are focused on peroxxygen chemistry and the adjacent technologies that support it. We’ve worked hard to position our company at the forefront of innovation. As a leader we are committed to discovering new uses for our chemistries and exploring applications in which to utilize them. Through this dedication to growth, we are able to find ways to serve new markets while continuing to add value for our customers in existing ones.

Our three principal chemistries—hydrogen peroxide, peracetic acid and persulfates—deliver compliance, productivity, efficiency and sustainability to food and beverage processing, energy exploration and production, environmental protection, electronics component manufacturing, consumer products and other industrial markets.

While the chemistries we offer reinforce our expertise, we consider our people to be our greatest resource, which engenders a sense of community and commitment to a mission-driven business. With a people-first approach, our team ensures exemplary customer service, product integrity, responsible stewardship of the environment and the highest standards for business ethics and safety in everything we do.
Recently, we’ve made some notable strides as an organization. We continued to execute on our strategy in 2015 by simplifying our global footprint and investing for growth. Significant events included refining our portfolio through the divestiture of our Spanish silicates business and industrial peroxide plant in Delfzijl, Netherlands. The proceeds from these sales were redirected into growth markets, funding the construction of our Saratoga Springs ultra-pure electronics grade peroxide plant and the acquisition of Synergy Technologies Inc., a food safety company, in early 2016.

Innovation has also been robust. Aseptic beverage packaging technology, based on improved liquid sterilants and groundbreaking new products, offers the opportunity to revolutionize this market for manufacturers to lower consumption and cost while improving environmental sustainability. Our wastewater disinfection team has expanded their many services, including delivery and monitoring systems and patented control algorithms to ensure compliance. The environmental solutions team has added new remediation products, including the recently launched customized heavy metals treatment reagents and slow release oxidation technologies, to their portfolio.

These advancements, along with the day-to-day execution across the commercial, corporate and manufacturing organizations, strengthen our position in the market. PeroxyChem’s vision of being the leading global supplier of oxidative solutions is steadily becoming a reality thanks to the commitment of our people, performance of our products and trust from our customers.

Bruce Lerner
President and CEO
PeroxyChem is a global producer of specialty chemicals. Starting in the early 1900s with Foret in Spain and Buffalo Electro-Chemical Company (BECCO) in New York, PeroxyChem is built on over 115 years of experience with high-quality peroxygen products and innovative applications across diverse industries.

- **07**
  - Started developing a specialized sales force knowledgeable in poultry processing and on-site chemical delivery systems for poultry and aseptic packaging customers

- **09**
  - Built dedicated microbiology and environmental lab in Tonawanda, New York

- **11**
  - Acquired RheinPerChemie, establishing a market position for persulfates in Europe

- **12**
  - Acquired Adventus, LLC to broaden soil and groundwater portfolio

- **2011/2012**: Launched new aseptic packaging products Durox® LRA and Durox LRD

- Started developing a specialized sales force for aseptic packaging customers

- Expanded the electronics hydrogen peroxide purification facility in Bayport, Texas and established a new plant in Thailand

- Established Chinese joint venture for soil remediation initiatives
Within the last decade we’ve refined our strategy as we diversify our portfolio, growing in new specialty businesses while maintaining our historically strong consumer and industrial core. R&D has been critical in this strategy as we innovate new technologies, processes and delivery systems across markets.

Growth in specialty markets also requires knowledgeable professionals to service and deliver value. Today PeroxyChem sells 85% of its products through direct channels using a mixture of product-focused specialists and technical market experts.

- Completed expansion of specialty persulfate capacity at Tonawanda
- Launched wastewater disinfection business
- Launched the oil field biocide business with our team based in Pocola, Oklahoma
- Announced plans for a new hydrogen peroxide purification facility in Saratoga Springs, New York and started supplying Grade 5 hydrogen peroxide to the electronics industry
- Introduced a new metals treatment product, MetaFix® Reagent
- Groundbreaking commenced on the new hydrogen peroxide purification facility in Saratoga Springs, New York
- Divested the silicates business in Bilbao, Spain, and the hydrogen peroxide facility in Delfzijl, Netherlands
- Acquired assets from Synergy Technologies, a food safety company serving the poultry and beef industries
- Introduced a new slow-release persulfate product, Klozur® KP
Our Approach

At PeroxyChem, we live our Core Values and are dedicated to performing business at the highest standards - honestly, ethically and in compliance with all applicable laws. We are members of the American Chemistry Council and the Chemistry Industry Association of Canada. We are proud to participate in the Responsible Care® initiative and operate our business according to its guiding principles.
Core Values

Our company is founded on strong core values that emphasize safety, our people, innovation, teamwork, accountability and passion for growth and improvement.

**Safety**
We prioritize the well-being of our people, the community and the environment.

**Our People**
We believe that our people are our greatest resource and strive to establish an open environment that fosters respect and the sharing of ideas.

**Innovation**
We use innovation to excite the customer and outdo the competition.

**Passion for Focus & Growth**
We are committed to the type of growth—in ourselves and our business—that creates enterprise sustainability.

**Continuous Improvement**
We encourage each other to find better, more efficient and more productive ways of performing our work.

**One Team**
We work as teammates to leverage the power of the group.

**Act Like Owners**
We think and do as if we are owners, making the right choices and investing wisely.
Tomorrow’s products start here

Our nearly 30 unique patent titles across 62 countries are a testament to our successful track record of developing and manufacturing unique products, technologies and delivery systems for our end markets.
Sustainable Products

As an industry leader with a global reach, we are able to positively impact the world through the use of our technologies and innovations. PeroxyChem’s products and services help reclaim compromised ecologies, benefit natural resources and improve food safety.

Our environmental platform addresses disinfection and remediation of water and soil. Our wastewater treatment team works with local municipalities to replace chlorination with VigorOx® WWT II wastewater disinfection technology, minimizing safety and environmental impact concerns and reducing toxicity to aquatic life without generating harmful disinfection byproducts, and our soil and groundwater team offers a portfolio of remediation technologies for treating a wide spectrum of contaminants.

With environmentally friendly sanitizers and disinfectants for effectively reducing pathogens in food processing, our customized solutions help set new benchmarks for efficiency and productivity in delivering compliance. PeroxyChem’s proven next-generation antimicrobial solutions multiply the benefits of effective and reliable bacterial control for poultry, beef, pork, seafood, fruit and vegetable applications.

Global demand for consumer beverages packaged for convenience, shelf life and portability continues to grow and to ensure freshness and safety, many beverages must be packaged aseptically to eliminate the presence and growth of microbes and bacteria. Our groundbreaking technologies have set the standard for aseptic packaging processors worldwide and continue to revolutionize this market segment.

PeroxyChem provides peracetic acid to support the responsible development of shale resources in the oil and gas industry. VigorOx® Oil and Gas is an oxidizing biocide that rapidly destroys aerobic and sulfate reducing bacteria while decomposing into environmentally benign byproducts. Yields are enhanced, costs reduced and the environment is better protected. It doesn’t get much better than that.
Our Global Presence

Supporting our portfolio of hydrogen peroxide, peracetic acid, persulfate and adjacent technologies are more than 550 employees and two joint venture companies operating at locations in the Americas, Europe and Asia. As our greatest resource, our team complements our chemistry with the know-how, service and innovation necessary to make customers successful and confident.

Americas
80% of revenue
400 Employees

1. Bayport, Texas
Manufacturing Facility, Research Facility
Bayport has been producing multiple grades of hydrogen peroxide since 1979. The plant is home to a strong quality control department to support the production of high-purity products, and the Process Technology Group, which provides technical expertise to all PeroxyChem sites.

2. Mexico City, Mexico
Distribution Center, Regional Office

3. Philadelphia, Pennsylvania
Headquarters

4. Pocola, Oklahoma
Distribution Center, Regional Office

5. Prince George, British Columbia
Manufacturing Facility
Strategically positioned, the Prince George plant has been manufacturing industrial-grade hydrogen peroxide for over 25 years.

6. São Paulo, Brazil
Regional Office

7. Saratoga Springs, New York
Manufacturing Facility
Expected to be operational in 2016, this plant is focused on production of ultra-high purity hydrogen peroxide utilized in the electronics semiconductor chip manufacturing market and helps PeroxyChem ensure a reliable supply to our customers.

8. Tonawanda, New York
Manufacturing Facility, Research Facility
Producing peracetic acid since 1938 and persulfates since 1959, Tonawanda is one of the world’s largest persulfate salt manufacturing sites. The plant maintains ISO 9001 certification to ensure quality and uses environmentally sustainable hydropower obtained from Niagara Falls.
Europe, Middle East and Africa
20% of Revenue
165 Employees

1. Barcelona, Spain
   Regional Office

2. Hamburg, Germany
   Regional Office

3. La Zaida, Spain
   Manufacturing Facility
   Strategically located in Southern Europe, in close proximity to important industrial areas and ports, La Zaida produces hydrogen peroxide and peracetic acid mainly for the Iberian peninsula and Mediterranean rim countries.

4. Rheinfelden, Germany
   Manufacturing Facility
   Our European manufacturing facility for persulfates. This peroxygens plant utilizes clean, renewable hydroelectric power generated by nearby facilities.

Asia Pacific
Two Joint Ventures with Thai Peroxide Co., Ltd. and Beijing Enviro-Chem

1. Beijing, China
   Joint Venture
   Beijing Enviro-Chem is focused on providing the needed technologies and products to help advance China’s commitment to environmental remediation and is well positioned to bring our soil and groundwater products to that market.

2. Manila, Philippines
   Regional Office

3. Saraburi, Thailand
   Joint Venture, Manufacturing Facility
   Thai Peroxide Limited (TPL), is a joint venture between PeroxyChem and the Aditya Birla Group. Serving most Asian countries for over 25 years, the plant manufactures a wide range of hydrogen peroxide and peracetic acid, from industrial to ultra-high purity grades.
Our Chemistries

Hydrogen Peroxide

One of the world’s most versatile and environmentally compatible oxidizing agents, hydrogen peroxide plays an important role in some of the most vital industries from semiconductor manufacturing to pulp and paper bleaching. As a leading manufacturer and supplier of hydrogen peroxide, PeroxyChem offers perhaps the broadest range of concentrations and purities for various end-use applications.

Persulfates

PeroxyChem is one of the largest global manufacturers of persulfates, a powerful active oxygen containing salt. Persulfates are efficient oxidants, making them useful in a variety of applications including environmental remediation, oil and gas production, polymer initiation and consumer cosmetic formulations. Our high-quality ammonium, sodium and potassium persulfates, measured for thermal stability as a product safety and quality metric, are among the most stable available in the world.

Peracetic Acid

Peracetic acid is a versatile oxidizing agent that dissolves easily in water and decomposes into non-toxic byproducts. Peracetic acid formulations are registered for use as sanitizers, disinfectants and sterilizers by the U.S. Environmental Protection Agency and EU Biocidal Products Directive as well as food contact substances by the U.S. Food and Drug Administration and the U.S. Department of Agriculture. PeroxyChem is one of the largest producers of peracetic acid in North America, offering high-quality products in a range of concentrations for use in multiple markets.
Our Markets

PeroxyChem is focused on the production and innovation of peroxygen and related chemistries critical to meeting global demands for emerging specialty applications, as well as our strong foundation in industrial and consumer markets.
Specialty Markets

Electronics

From research and development to distribution and delivery, PeroxyChem is a leading supplier of ultra-pure hydrogen peroxide to the global electronics industry for a variety of needs, including semiconductor wafer cleaning.

We’re investing to meet the growing demand due to the global proliferation of smartphones and other electronic devices. In 2015 we broke ground on a new purification facility in Saratoga Springs, New York, our third such site, to better serve our customers and increase reliability of supply chains in this critical industry.
Energy

PeroxyChem is a valued partner in the production of oil and natural gas. Our persulfates, hydrogen peroxide and peracetic acid are used to help stimulate oil and gas wells, treat water in fracturing applications, allow for the reuse of water at fracturing sites and control hydrogen sulphide for increased efficiency, productivity, sustainability and environmental responsibility.

In 2014 we expanded our market by offering our rapid-acting, dynamic VigorOx® Oil and Gas product as a biocide for down-hole applications, reuse water treatment and saltwater disposal wells.
Environmental

With years of experience, impressive technology and a proven portfolio of products, PeroxyChem is well equipped to help clients address environmental concerns. No matter the challenge, we always remember collaboration is key. Our wastewater disinfection team works with local municipalities nationwide to disinfect wastewater with VigorOx® WWT II, a peracetic acid-based formulation. Treating wastewater with an efficient alternative to chlorine is not simply a matter of substitution, but a complete solution that includes technology, equipment and service. Our soil and groundwater team of scientists and technical experts work side by side with companies, governments and other parties to address unique remediation challenges and find suitable solutions. We treat contaminated soil and groundwater on private, corporate and government sites across the globe.
Food & Beverage Safety

We take pride in overcoming the great challenges of safely feeding an ever-expanding global population with efficiency and environmental responsibility. Our focus is on antimicrobial interventions in proteins, produce and packaging; improving food safety and reducing spoilage and waste. We work with poultry, red meat, and fruit and vegetable processors to target a variety of pathogens, including *E.coli*, *Salmonella* and *Campylobacter*, that cause food-borne illness. We supply beverage manufacturers with proven, easy-to-use and cost-effective sterilants and sanitizers to treat harmful microorganisms encountered during the packaging process. Our chemistries meet the evolving global demands of aseptic and extended shelf-life applications. We work diligently to support the industry to make our food and beverage supply safer and of higher quality.
Consumer & Industrial Markets

Pharmaceutical & Personal Care

PeroxyChem supplies high-quality pharmaceutical and cosmetic grade chemistries that are used widely for medical and hygienic purposes. From hair bleach to contact lens solution to first aid antiseptics—our chemistries are used in bulk pharmaceutical manufacturing as well as everyday drug store products.

Polymers & Chemical Synthesis

Our persulfates are preferred solutions for initiating a wide range of chemical reactions, especially emulsion polymerization reactions for latex and acrylics used in paints, coatings and other end products. Our hydrogen peroxide is also used as an oxidizer and free radical generator in the synthesis of chemicals such as epoxides, organic peroxides and amine oxides.
Pulp & Paper

Our hydrogen peroxide is a key, environmentally friendly bleaching chemical used in pulp and paper manufacturing to provide brightness as well as improve water quality during the process.

Mining

PeroxyChem’s hydrogen peroxide is utilized in gold and uranium mining, performing important chemistry in the mining process with the added benefits of simplified management and improved process control.

Distribution

Our sales and marketing team collaborates with channel distributors to ensure the highest level of service, product stewardship and technical expertise, expanding the reach of our products and meeting the demands of our customers over a range of markets.
Our Leadership Team
Bruce Lerner, President & Chief Executive Officer
Mark Valentino, Executive Vice President & Chief Financial Officer
Thomas Ball, Executive Vice President, Sales & Marketing
Alberto Garibi, Vice President, Business Development
Eva Gomez, Vice President, EMEA Operations
Walter Kramer, Vice President, North American Operations
John Rovison, Vice President, Research & Development
Pete Zografakis, Vice President, General Counsel & Chief Compliance Officer

Board of Directors & Advisors
David Han, Senior Managing Director, One Equity Partners Capital Advisors
Joseph Huffsmith, Managing Director, One Equity Partners Capital Advisors
Kevin Boyle, COO, Aditya Birla Carbon
Harold Nidetz, Former Vice Chairman of Ernst & Young
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