

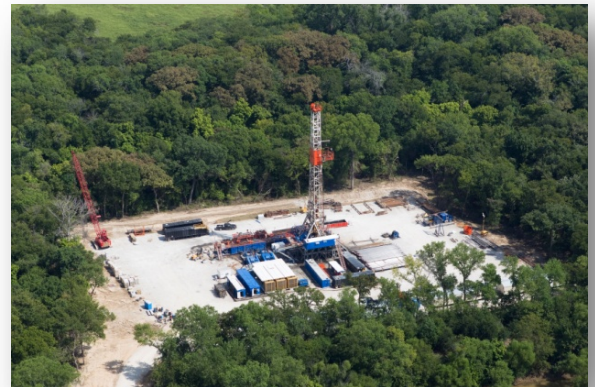


MIOX® and the Oil & Gas Industry

MIOX® Corporation designs and manufactures on-site chemical generation systems that safely and cost effectively generate disinfection products for oil and gas drilling and produced water treatment and distribution. Optional mobile units generate chemicals on site, on demand using simple reagents, increasing worker and community safety by replacing delivered chemicals at the well or production site. Our U.S.-based team develops custom solutions for flowback and produced water treatment with a reliable and effective chemistry that has been used for decades in drinking water applications around the world and is inherently much safer than industry standard biocides.

Key benefits for the Oil & Gas Industry

- ▶ **Reduced cost over traditional chemicals**
- ▶ **Improved performance**
- ▶ **Improved safety**
- ▶ **Easy mobilization and integration**
- ▶ **Enhanced environmental stewardship**



Reduced costs over traditional chemicals.

Cost-effectively provide oxidant on site to maintain performance. The MIOX system uses salt and electricity to generate a chlorine-based solution that contains other, more powerful, oxidants as well. The superior mixed oxidant chemistry makes it equally effective at higher pH. Since oxidants have superior algae-killing properties, additional savings may be realized.

Two main consumables are used to compare costs for generating chemical - salt and electricity. As a result, the estimated operational costs - and savings - is a combination of the salt cost, electrical cost, and cell replacement costs. Many of our customers have been seeing steady, and in some cases, dramatically increasing cost increases, up to 10% or more per year, for bleach over the past two years. Drivers include rising transportation costs and increasing security costs. In contrast, salt and electrical costs have been very stable over the past 5 years, offering a higher degree of confidence in future costs of operating the system; return on Investment is typically 18 – 36 months or less.

Improved performance.

MIOX systems produce drinking-water quality chemical that inactivates a wide range of microorganisms and is able to penetrate biofilm to address Sulphate Reducing Bacteria (SRB). Chemical is generated at a dilute concentration (less than 1%), resulting in safer handling and chemical operations, stable chemistry, and a more neutral pH.



The SAFEST WATER In The World

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Safe on-site storage and handling.

MIOX systems require only ordinary food grade salt, eliminating the transportation, handling, and storing of hazardous chemical. Employees do not need to wear protective gear, and there are no storage compatibility issues. Since the solution is stored and injected into flowback and produced water at less than one percent concentrations, the oxidant solution is not considered a hazardous material, but rather an environmentally benign yet highly effective chemical.

Truck traffic is reduced in the plant yard as well as in the surrounding community. For every four to five truckloads of industrial grade bleach (12.5% NaOCl), only one truckload of salt is required. A more benign solution, safer source chemicals and reduced truck traffic improves safety for both employees and the community.

Easy mobilization and integration.

MIOX systems have a small footprint and are easily mobilized for quick transport to and from different well sites. MIOX self-diagnosing systems can be monitored or controlled remotely and automatically adjust to changes in daily operating conditions. Available as a stand-alone packaged unit or easily integrated with other water treatment skids and equipment.



Enhanced environmental stewardship.

Take care of the environment while taking care of your operations. The use of salt and electrolysis replaces the use of hazardous chemicals for water treatment, where there is a 3-to-1 carbon emission reduction when compared to 12.5% sodium hypochlorite. The mixed oxidant solution, stored and applied at less than 1% concentrations, is environmentally benign and not classified as hazardous. Experience the benefits of:

- **Reduced man-hours** for safety training, operations, and compliance
- **Improved worker safety**
- **Improved community relations** - no need to communicate an emergency response plan
- **Simplified RMP or PSM program**



For more information, contact Craig Beckman at 505-224-1044 or craig.beckman@miox.com.



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