

**GASES AND
EQUIPMENT
FOR POWER-
GENERATING
UTILITIES AND
COGENERATION
FACILITIES**





EPA Protocol gases from BOC provide +/- 1% NIST certified traceability for worry-free CEMS calibration.

Just tell us what you need. We'll take it from there.

BOC Gases focuses on meeting the particular needs of each customer. We tailor our services to integrate seamlessly with your requirements. This allows us to provide customized service across all areas of your operation, whether it's with your CEMS management team, purchasing department, I&C / O&M personnel, or environmental engineers.

We provide comprehensive product documentation. And your BOC Gases account manager will arrange documentation and supply procedures to suit your requirements.

Helping you meet today's tough emission limits

To satisfy minimum guidelines established in 40 CFR Parts 60 and 75, you have to monitor and control emissions of criteria pollutants. BOC Gases can help you meet federal permit levels while complying with additional state and local regulations.

We help utilities and cogeneration facilities interpret the regulations and determine the best course of action for compliance monitoring and CEMS calibration.

Documented success in satisfying EPA requirements

Our EPA Protocol gas standards offer you unparalleled accuracy and reliability. Documentation exceeds the EPA's published requirements.

We maintain the most extensive inventory of NIST Traceable Reference Materials (NTRM) — ensuring you continued availability of directly traceable Protocol mixtures. All certifications are guaranteed as interference-free using advanced analytical techniques.

EPA Protocol gases are analyzed and statistically certified at better than +/- 1% relative accuracy versus the National Institute of Standards and Technology (NIST). This high level of accuracy permits optimum trade-off between power output and emissions levels. It also enables accurate determination of applicable marketable allowances and provides added security during audits.

For facilities using Protocol gases during certifications, quarterly testing, and RATAs, BOC has available Primary Standards and CEMS calibrating standards which fully meet EPA requirements for accuracy and documentation. Zero Ambient Air and Nitrogen fully satisfy CFR requirements for zero calibration of CEMS and are accompanied with individual certificates of conformance.

BOC supplies Zero Ambient Air and Nitrogen with a certificate of conformance for accurate, documented CEM zero calibration.



A nationwide resource for reliable local supply ... no matter where your plant is located

BOC's network of production facilities includes four Protocol gas and emission standards plants and seven additional specialty gas plants located nationwide. Bulk gases are produced and distributed at over 60 locations in North America.

With more than 700 company-owned stores and independent distributors, BOC can supply gas, technical support, local cylinder delivery, and customer service to power plants in virtually every zip code in the United States.

Service plans customized to your business requirements

Your BOC account manager can customize an order entry program to suit your needs, set up a stock-and-release plan, or establish an automated delivery plan.

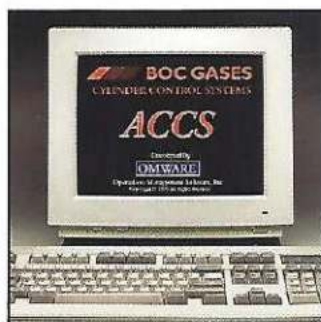
BOC Gases currently stocks an extensive variety of Protocol mixtures at locations across the country. We can provide emergency cylinders on a rush basis whenever needed.

Comprehensive cylinder management

BOC offers a comprehensive program designed to help you track cylinders throughout your facility, from receipt to pickup.

Our cylinder management services eliminate frustration and reduce the time spent keeping track of cylinders. Cylinder management also reduces monthly rental fees and lost cylinders, and makes it easier to properly allocate cylinder costs to the right division or department. Inventories and emergency shipments are significantly reduced.

BOC's Advanced Cylinder Control System (ACCS) combines bar coding with a sophisticated but easy-to-operate software program. This IBM PC software precisely tracks cylinder movement into and out of each use point and identifies cylinders in use. Look-up tables and reports simplify reordering and identify usage patterns by site and product.



BOC Gases' Advanced Cylinder Control System (ACCS) software is a comprehensive PC-based software solution that tracks cylinder movement throughout a customer's facility, from receipt to pickup.



With four EPA Protocol gas and emission gas producing plants (indicated in black boxes) and seven additional specialty gas locations across the United States, BOC stands ready to serve its customers' demands.

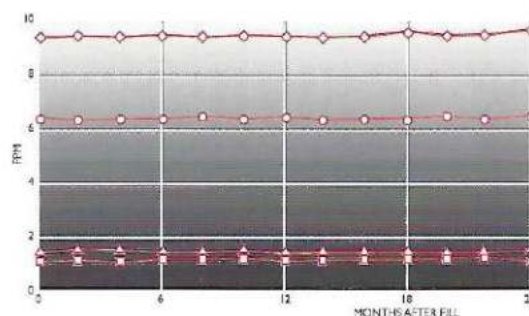
Customers can opt to outsource all order entry, cylinder management, and distribution to BOC through our site services program.

Advanced cylinder technology

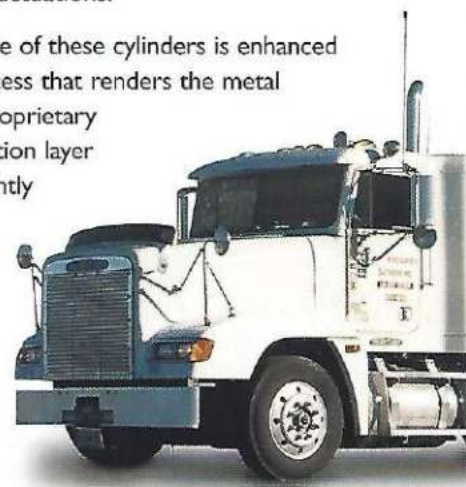
More than two decades ago, BOC developed — at the request of the EPA and NIST (then NBS) — the *Spectra-Seal* passivated aluminum cylinder. The result was the first cylinder capable of guaranteeing the stability of low-level reactive gas mixtures for multi-year periods.

Concentration remains unchanged even when contents are depleted down to 150 psig, and the cylinders are insensitive to temperature fluctuations.

The interior aluminum surface of these cylinders is enhanced using a special anodizing process that renders the metal chemically inert. A second proprietary process converts this passivation layer into a smooth, unreactive, tightly adherent surface, with negligible adsorptive properties.



Stability of low ppm reactive calibration mixtures contained in BOC



BOC Gases products for utilities and cogeneration facilities at a glance

- CEMS Calibration Standards
- EPA Protocol Gases
- Primary Standards
- Certified +/- 2% mixtures
- CEMS Zero Gases
 - Zero Ambient Air
 - Zero Ambient Nitrogen
 - Zero Air Material
- Bulk Liquid Oxygen, Nitrogen, Argon, and Carbon Dioxide
- Tube trailer quantities of Hydrogen and Helium
- On-site generation of Oxygen, Nitrogen, and Hydrogen
- SF6 - Insulator Grade, purified and dried
- A full line of laboratory gases and gas handling equipment
- Proprietary processes
- VITOX sidestream oxygen injection system for effluent water treatment
- Kryoclean vapor recovery system for VOC abatement
- Ozone and VSA oxygen supply schemes for water treatment
- New technologies to economically reduce NOx emissions

No gas supplier knows your business better than we do

BOC Gases has been a world leader in production and distribution of gases for over three quarters of a century.

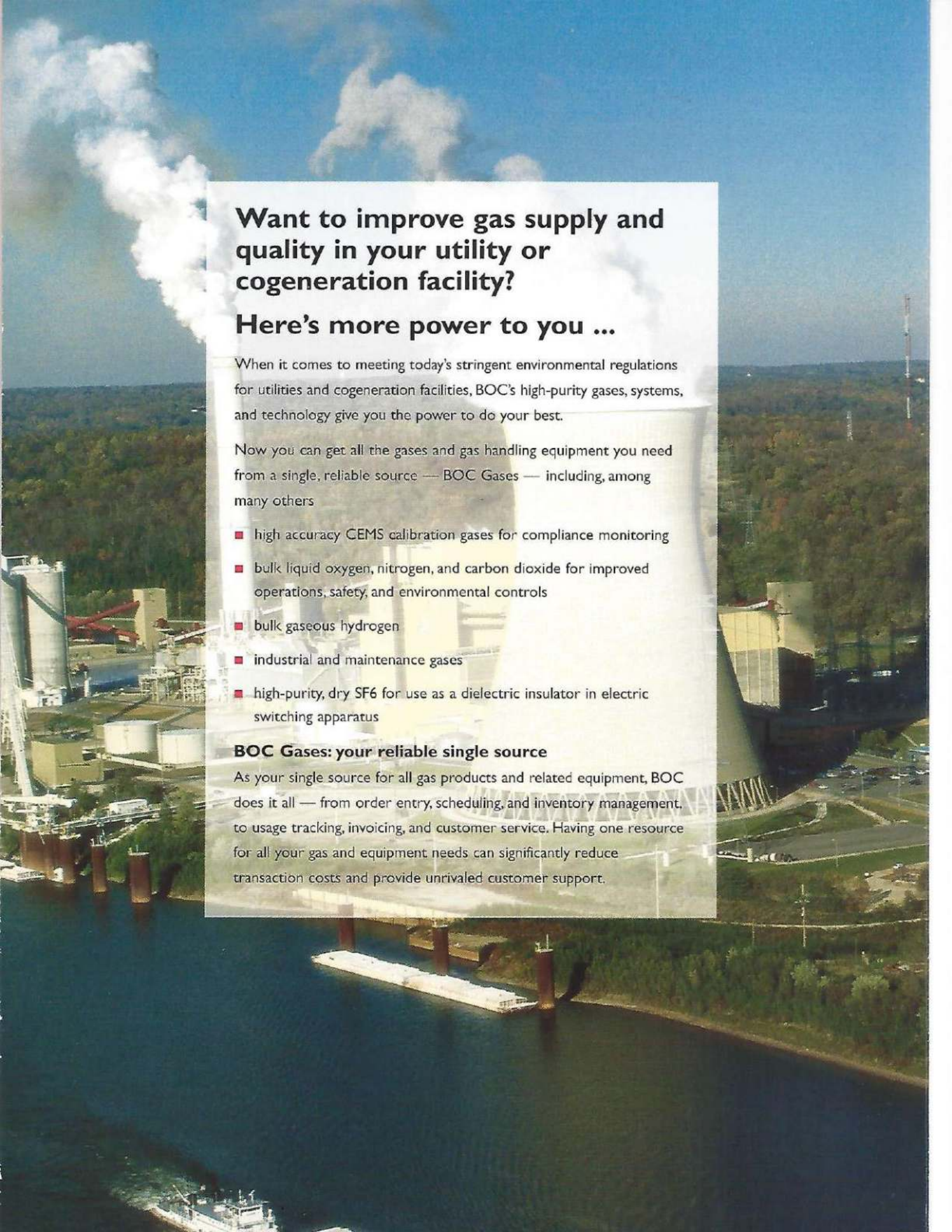
With extensive experience in pollution monitoring and knowledge of EPA and state agency requirements, BOC Gases has been servicing the emissions monitoring market for over 20 years.

Our high accuracy mixtures ensure worry-free calibration of your CEMS so you can concentrate on monitoring and controlling emissions. Flexible rental plans are available. And our Technical Hotline — 1-800-892-7706 — stands ready to provide technical support whenever you need it. For more information, call or write us today.



Seal aluminum cylinder



An aerial photograph of an industrial facility, likely a power plant or refinery, situated along a river. Large smokestacks are visible, with thick white plumes of smoke rising into a clear blue sky. The facility includes various industrial structures, pipes, and storage tanks. In the foreground, a barge is docked at a pier in the river. The surrounding area is lush with green trees.

Want to improve gas supply and quality in your utility or cogeneration facility?

Here's more power to you ...

When it comes to meeting today's stringent environmental regulations for utilities and cogeneration facilities, BOC's high-purity gases, systems, and technology give you the power to do your best.

Now you can get all the gases and gas handling equipment you need from a single, reliable source — BOC Gases — including, among many others

- high accuracy CEMS calibration gases for compliance monitoring
- bulk liquid oxygen, nitrogen, and carbon dioxide for improved operations, safety, and environmental controls
- bulk gaseous hydrogen
- industrial and maintenance gases
- high-purity, dry SF₆ for use as a dielectric insulator in electric switching apparatus

BOC Gases: your reliable single source

As your single source for all gas products and related equipment, BOC does it all — from order entry, scheduling, and inventory management, to usage tracking, invoicing, and customer service. Having one resource for all your gas and equipment needs can significantly reduce transaction costs and provide unrivaled customer support.



BOC Gases is a trading name used by operating companies within
The BOC Group, the parent company of which is The BOC Group plc

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