



PIONEERING **GAS** SOLUTIONS

**GENERON**<sup>®</sup>

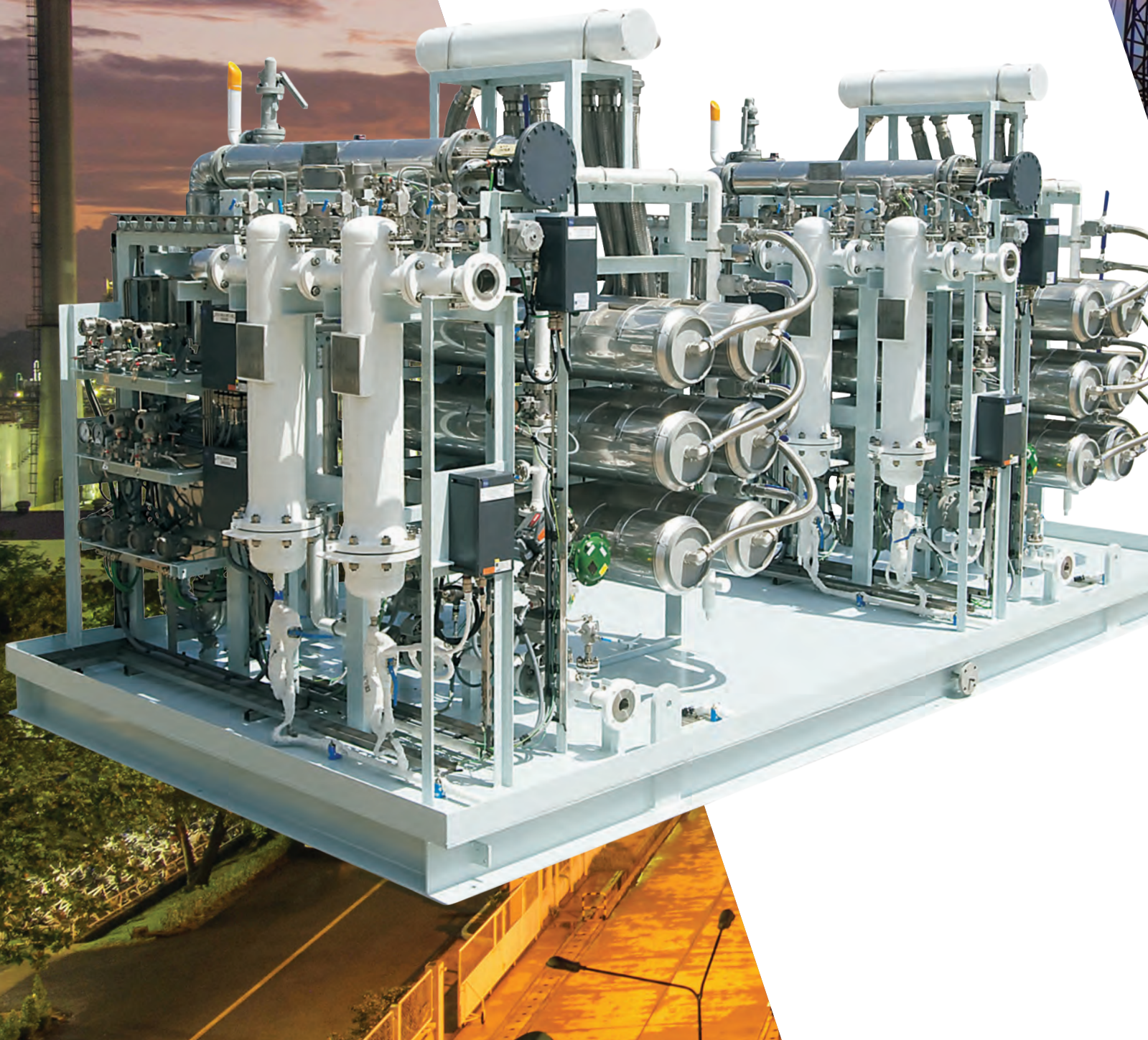




# WHO ARE WE?

GENERON® is one of the only single source providers of gas solutions in the world.

An industry-leading provider, we have the capabilities and customized solutions to meet all your gas separation and compression needs.





# WHAT DO WE DO?

GENERON® is one of the only companies in the world that manufactures its own membranes and packages them into state-of-the-art gas separation systems.

**We specialize in designing, manufacturing, and servicing systems that produce industrial gases, including:**

- ♦ Nitrogen Membrane Generators
- ♦ High Purity Nitrogen PSA Generators
- ♦ Membrane Dryers and Dehydration Systems
- ♦ Process Gas Systems
  - CO<sub>2</sub>, H<sub>2</sub>S, CH<sub>4</sub>, Hydrogen Purification, NG Dehydration, NGL/LPG and Helium
  - Gas Processing Separation Systems
  - Custom Fabrication of Process Equipment
- ♦ Custom-Engineered Solutions
  - Instrument and Utility Air Packages
  - Air, Nitrogen, and Gas Compression Systems
- Gas Compression Packaging including Primary and Post Compression
- ♦ Full-service rental fleet is available for Nitrogen, Primary Compression, and Booster Compression
- ♦ GENERON® operates a fully equipped manufacturing facility with:
  - ASME Pressure Vessel Manufacturing
  - UL Electrical Panel Shop
  - Stainless and Carbon Steel Fabrication
  - CSA, ATEX, DNV-GL Certified Manufacturer
  - Instrumentation and Controls Design & Installation
  - Pipe Fitting, Fabrication, and Installation



# WHO DO WE SERVE?

GENERON® provides comprehensive services to the following industries:

- ♦ Oil & Gas
- ♦ Chemical Processing
- ♦ Marine
- ♦ Food & Beverage
- ♦ Electronics
- ♦ Mining
- ♦ Metallurgical & Heat Treating
- ♦ Pharmaceutical
- ♦ Biotechnology
- ♦ Aerospace
- ♦ Materials Handling







## WHERE DO WE SERVE?

GENERON® operates three manufacturing facilities located in Houston, Texas; Pittsburg, California; and Chengdu, China. Our service centers are located in the United States, Europe, the United Arab Emirates, Korea, China, Malaysia, and South America.

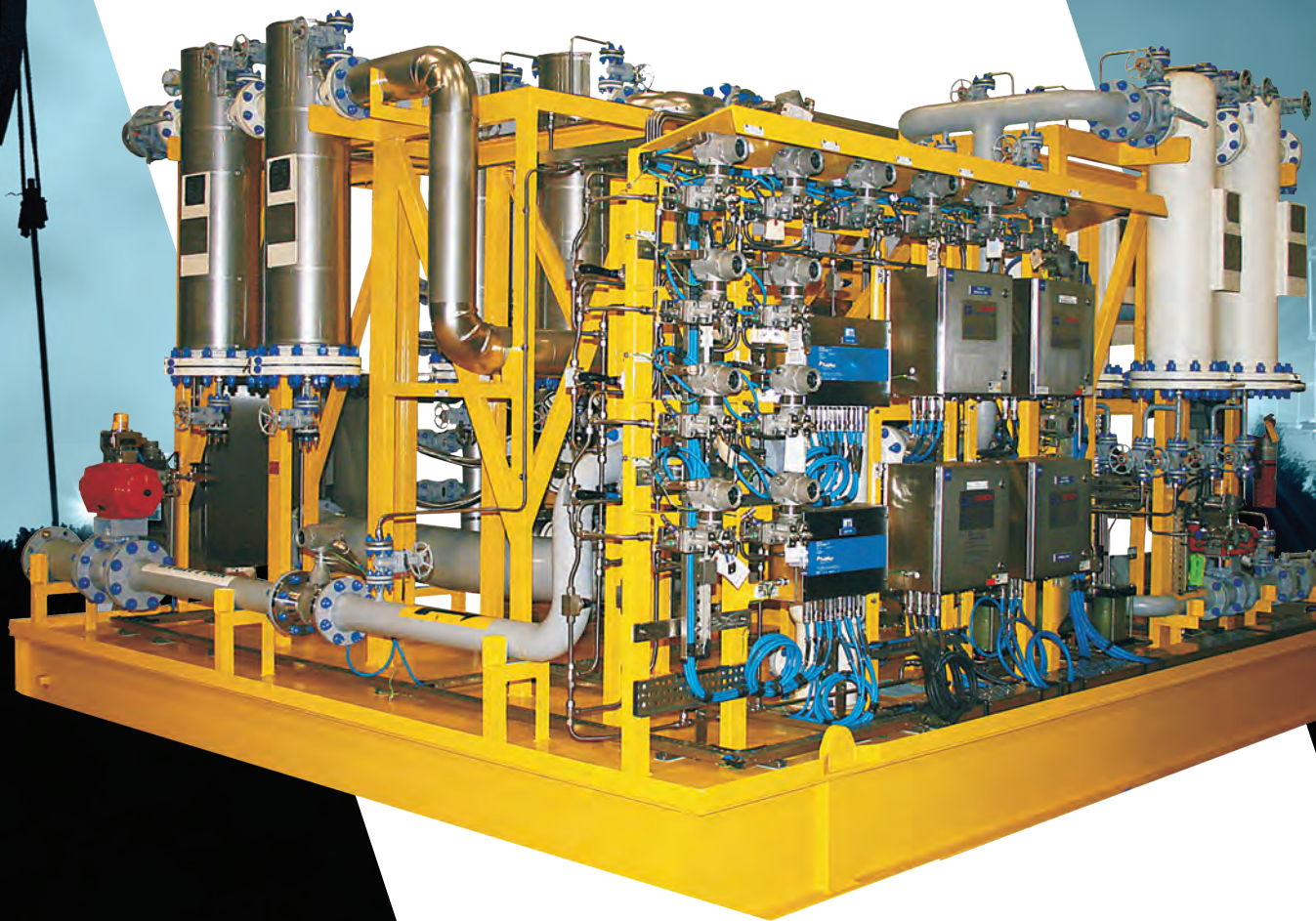
**Our systems are installed around the world, both onshore and offshore.**

# WHY CHOOSE GENERON®?

## TOTAL SOLUTIONS PROVIDER

We offer a full-spectrum of capabilities; from research and development, to engineering and manufacturing, to sales and service.

- ♦ Fully equipped ISO 9001 certified engineering and manufacturing facilities
- ♦ ASME, PED, UL, CSA, DNV-GL, and GOST accredited and certified
- ♦ Custom-fabricated process equipment
- ♦ Full line of services from start-up and commissioning, to on location training and service, to spare parts delivery
- ♦ On-staff technicians fully trained in operating and trouble-shooting
- ♦ Global research and development facilities





## CUSTOM-ENGINEERED SOLUTIONS

Our systems are engineered and designed to customer specifications. Our experienced engineering staff is highly skilled at meeting approval of drawings and Vendor Document Requirement List (VDRL). 3-D CAD systems are utilized with automatic Bill of Material links, allowing us to design and record custom solutions for any industry or application.

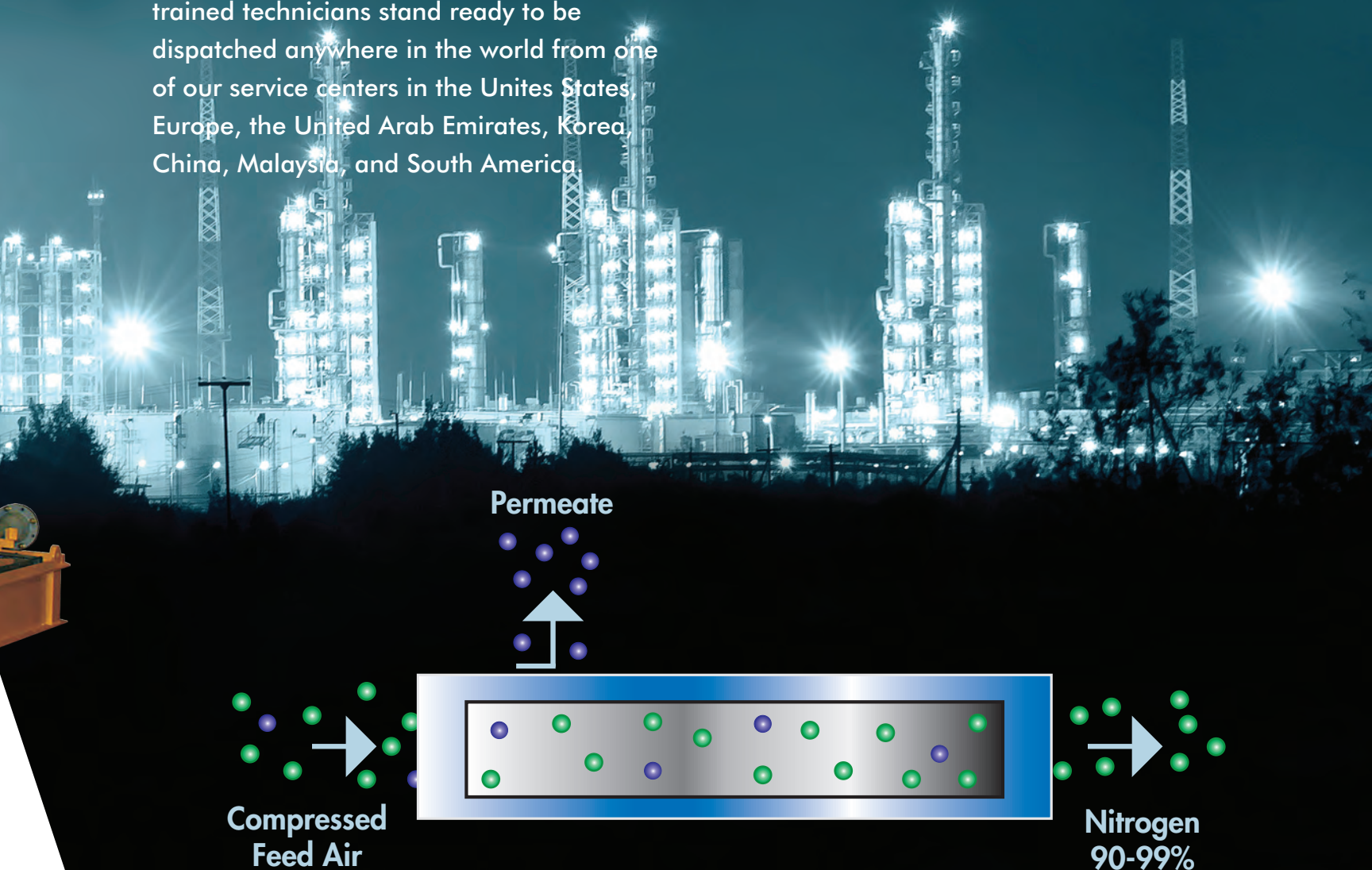
## GLOBAL PARTS AVAILABILITY

To keep operations running smoothly, GENERON® offers a full line of services, from start-up and commissioning, to on-location training and service, to spare parts delivery.

To ensure maximum uptime, our fully trained technicians stand ready to be dispatched anywhere in the world from one of our service centers in the United States, Europe, the United Arab Emirates, Korea, China, Malaysia, and South America.

## PATENTED TECHNOLOGY

At GENERON® we pride ourselves on highly efficient, cutting-edge technologies that provide our markets with some of the most cost-efficient gas separation and compression solutions available. Our patented GENERON® membrane technology is capable of producing nitrogen purities up to 99%. Our extensive PSA expertise gives us the capability of producing nitrogen purities up to 99.9995%. From air separation technology to process gas systems, GENERON® engineers have a broad range of expertise in designing systems that meet our customers' needs.



A large industrial facility, possibly a refinery or chemical plant, is shown at night. The scene is illuminated by warm yellow lights from the facility itself, contrasting with the dark sky and surrounding greenery. Tall distillation columns and complex piping are visible, with some structures emitting a bright glow. In the foreground, there are dark, silhouetted trees and a fence line.

## NITROGEN GENERATORS

Whether customers need a small compact system, a large high flow, high pressure system, or anything in between, GENERON® has a solution. We are in the unique position to offer two options for virtually any environment or need. Our nitrogen generators are designed for the oil & gas, marine, industrial, and materials handling industries, among others.

### PSA GENERATORS

- ♦ Capable of purities up to 99.9995%
- ♦ Available in single or multiple twin-tower bed configurations
- ♦ Designed for heavy-duty operation
- ♦ Meets a wide range of flows, purities, and pressures

### MEMBRANE MODULES

- ♦ Capable of purities up to 99%
- ♦ Available in a variety of sizes and combinations
- ♦ Can be used to create solutions from small compact cabinets to large, high flow, high pressure systems

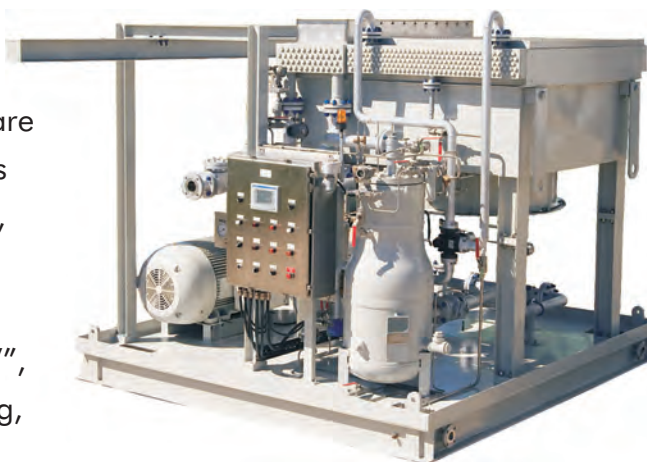




## COMPRESSION SYSTEMS

Specialized compression systems are designed to meet the requirements of the oil & gas, chemical, marine, and military industries.

- ♦ Wide range of compressor types available (horizontal, vertical, "V", rotary compressors, reciprocating, oil free, oil lubricated)
- ♦ Custom-built to meet your specific requirements



## INSTRUMENT AIR SYSTEMS

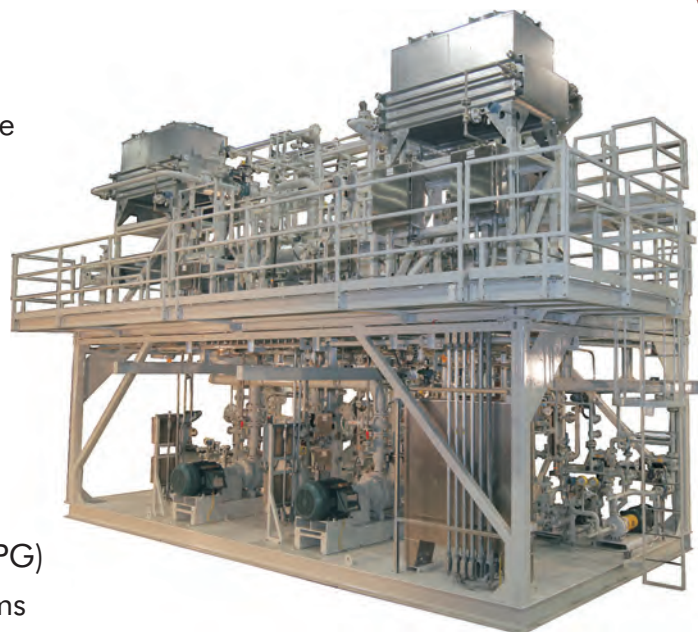
GENERON® fabricates custom-designed dryers with unique, hollow fiber membrane and desiccant drying technologies for dew point suppression.

- ♦ Membrane air dryers
- ♦ Desiccant air dryers
- ♦ Refrigerated air dryers

## PROCESS GAS SYSTEMS

The GENERON® process gas division specializes in the separation of numerous process gases. Our team of engineers work closely with customers to ensure designs meet client specifications. Our expertise in the oil & gas, chemical, and petroleum industries allows us to provide complete and reliable solutions to the client. Our gas processing systems are skid-mounted or containerized, and are easily installed in the field.

- |                                   |  |
|-----------------------------------|--|
| ♦ CO <sub>2</sub>                 | ♦ Natural gas (NGL, LPG) liquid recovery systems |
| ♦ H <sub>2</sub> S                | ♦ Heavy hydrocarbon removal systems              |
| ♦ Hydrogen                        | ♦ SF <sub>6</sub>                                |
| ♦ Helium                          | ♦ Fuel gas                                       |
| ♦ Natural gas dehydration systems | ♦ Biogas   |
|                                   | ♦ Flue gas                                       |





A large industrial facility, likely a refinery or chemical plant, is shown at night. The scene is dominated by tall, cylindrical distillation columns and a complex network of pipes, walkways, and structural steel. Numerous bright lights are visible throughout the facility, creating a high-contrast scene against the dark sky. The lights appear to be from the facility itself, illuminating the various levels and components. The overall color palette is a mix of deep blues, greys, and bright whites/yellows from the lights. A diagonal white line runs from the top left towards the bottom right, separating the text area on the left from the image on the right.

# GENERON<sup>®</sup>

Call GENERON<sup>®</sup> today  
for more details about  
Turnkey systems and  
Custom-Engineered Solutions!

***Flexible Lease or  
Purchase Financing Solutions***

*We understand that business needs  
and budgets can vary from location  
to location and project to project.*

*Generon<sup>®</sup> is one of the only solution  
providers offering lease or purchase  
options through third party lenders.*









Contact GENERON® today for more details about Turnkey Systems and Custom-Engineered Solutions.

## MANUFACTURING AND SALES

GENERON® manufacturing facilities are ISO 9001 certified. We manufacture to the following codes and standards:

ASME • PED • Baseefa • API • IEC •  
NEC • NFPA • RINA • ATEX • CENELEC  
• Class I Div II • Class I Div I • Zone  
2 • DNV-GL • Lloyds Register • GOST  
• CSA • NK • Bureau Veritas • ABS •  
NEMA • IP

### GENERON®

16250 Tomball Parkway  
Houston, Texas 77086  
Phone: +1.713.937.5200  
Fax: +1.713.937.5250  
igssales@igs-global.com  
www.generon.com

### SMC Asian Gas Systems Co. Ltd.

Shunfeng Rd., Shuangliu Aviation  
Zone Chengdu, Sichuan, P.R. China  
610225  
Phone: +86 28 8588 2034  
Fax: +86 28 8588 2037  
Cell: +86 1390 8180 491  
hubo@smc-igs.com  
www.smc-igs.com

## SALES, RESEARCH & DEVELOPMENT

### GENERON® CA

992 Arcy Ln  
Building 992  
Pittsburg, California 94565  
Phone: +1.925.431.1030  
Fax: +1.925.439.3811  
sales@generon.com  
Sales

### GENERON® Europe

c/o WWBC Business Center. Koen  
alle 14  
D-40212 Duesseldorf / Germany  
Phone: +49 211 13 866 293  
Fax: +49 211 13 866 294 Cell:  
+49 172 25 04 759  
rgester@generon.com  
www.igs-global.de

### GENERON® Middle East

Dinesh Nambiar  
Cell: +971 56 7146074  
dnambiar@generon.com

### GENERON® Korea

Represented by:  
PMG Corporation Ltd.  
James Jung  
Phone: +82 70 4320 7441  
Fax: +82 51 702 5911  
Cell: +82 10 9550 7441  
pmg@pmgkorea.net

### GENERON® MEXICO

Sergio Gonzalez  
sgonzalez@generon.com  
Cell: +1.832.444.6275

To learn more about GENERON® visit us at **www.generon.com**, contact our global sales office at **igssales@igs-global.com** or contact one of our global locations.