

A legacy of innovation in gas technologies



Lummus Technology
a CB&I company

Experts in natural gas



For more than 30 years, Randall Gas Technologies has excelled in creating innovative solutions for the natural gas industry. Now, as part of the Lummus Process Technology Division, we join more than 500 professionals providing a large portfolio of processing technologies to the hydrocarbon industries.

Today our technology is present in more than 220 plants around the world. Our experience has taken us through all the phases of natural gas processing, including:

Field Development **Gas Conditioning and Treating**
Sulfur Removal **Fractionation** **Nitrogen Rejection**
Deep Ethane Extraction and LPG Recovery **LNG**
Liquid Product Treating **Upgrading of Low Value Gas**

We provide complete solutions

- Patented processes and proprietary know-how
- Conceptual studies
- Basic engineering packages
- Front-end engineering designs
- Continued support through all phases of the project
- Initial operations and training
- Operational optimization

Superior gas technology



"More than 18 bscf are processed daily using our technology"

Since our inception, we have pioneered technical developments and design innovations that contributed to establishing the cryogenic turboexpander process as the technology of choice for deep ethane and LPG recovery from natural gas.

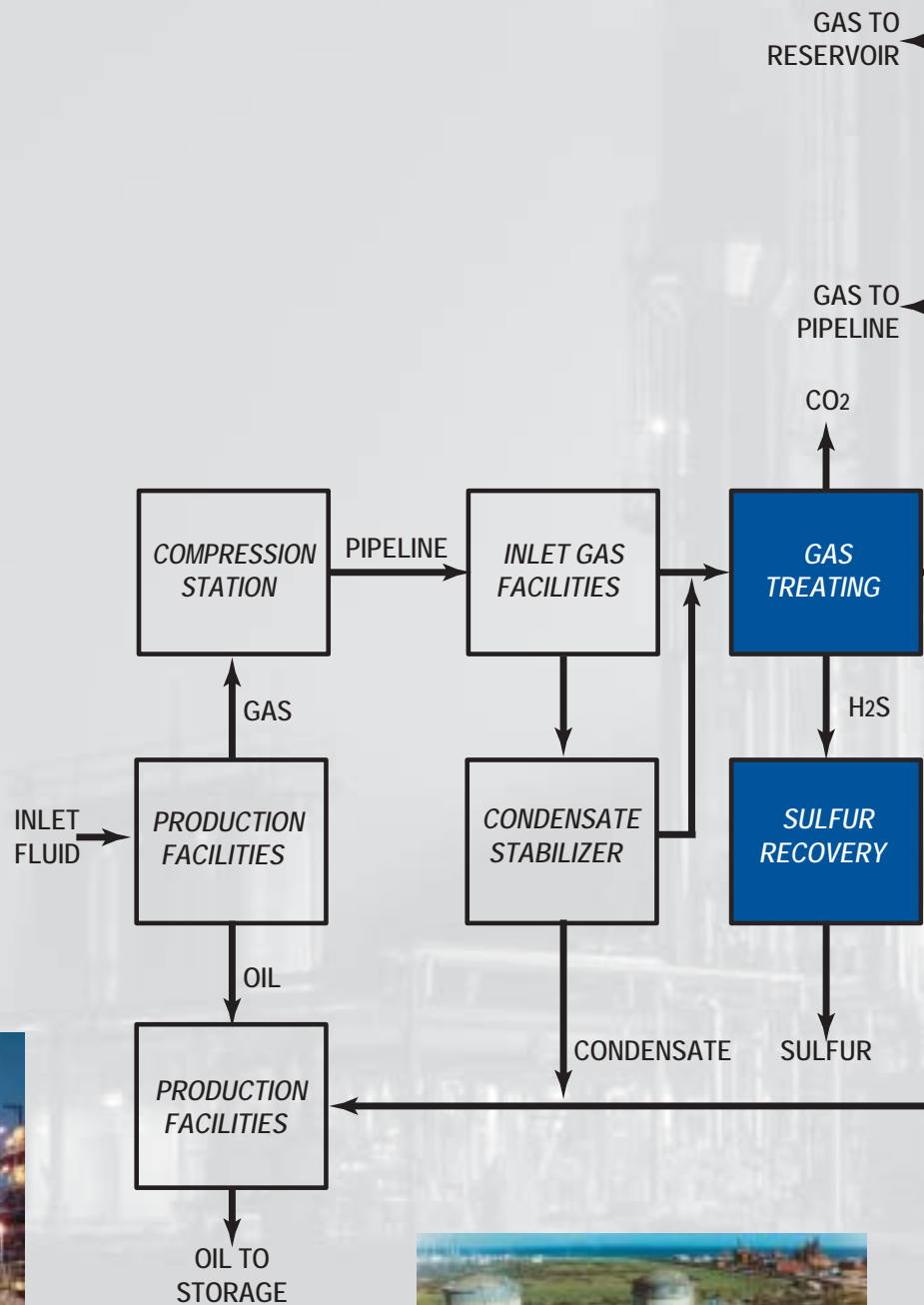
Our commitment in maintaining our technology has resulted in a continuing reduction of the energy utilization of cryogenic processes.

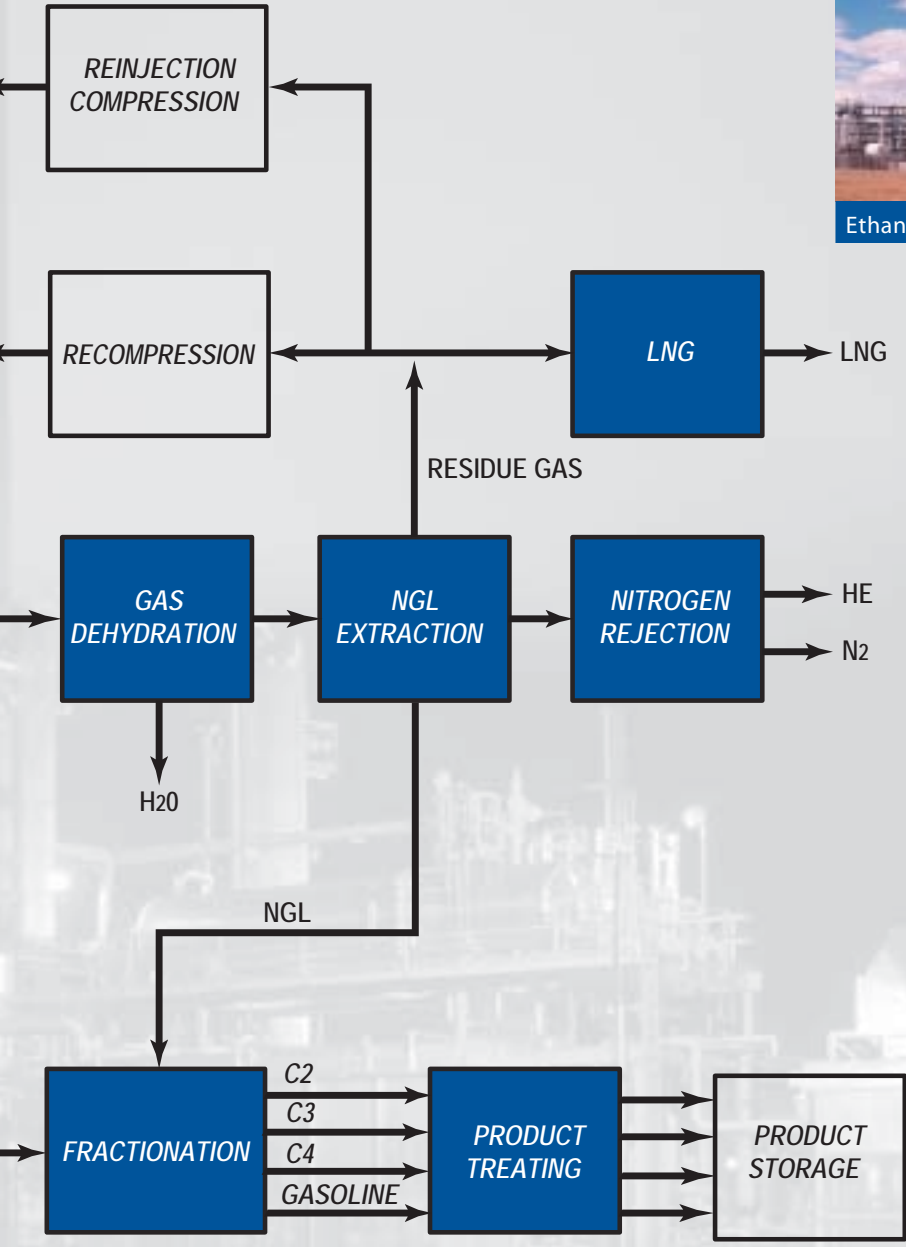
Many of these innovations, like the use of plate-fin exchangers and packing in cryogenic columns, remain today as standard designs in the industry. We have engineered challenging treating solutions and dealt with the widest variety of contaminants.

Today, we have a wide portfolio of patented designs such as deep ethane and propane recovery, LNG, mitigation of CO₂ recovery in NGL processes, and recovery of hydrocarbons from refinery streams. These designs allow us to expand our technology positions through the natural gas value chain.



Lummus Technology's portal for gas processing solutions





PATENTED AND PROPRIETARY TECHNOLOGY AND KNOW-HOW

EXPERIENCE

Successful projects start at inception



Harnessing our capabilities at the earliest stages of a project provides you the best opportunity for achieving your project goals and objectives. Lummus has the technology that lets you start smart and complete successfully.



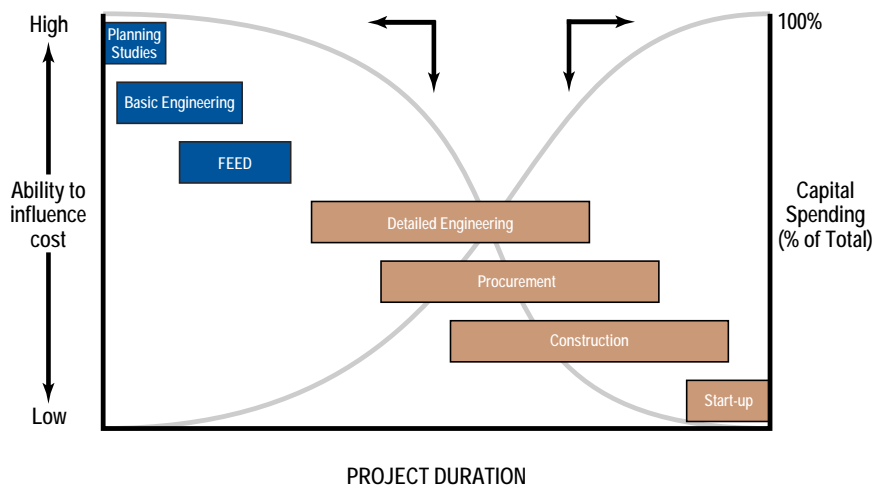
We offer a complete front-end capability

Process/economic planning studies, basic engineering packages, and front-end engineering designs.



Our technology and know-how will impact your project with:

Lower capital investment; enhanced process efficiency; improved reliability, operability, and safety; functional plant layouts; and successful start-ups.

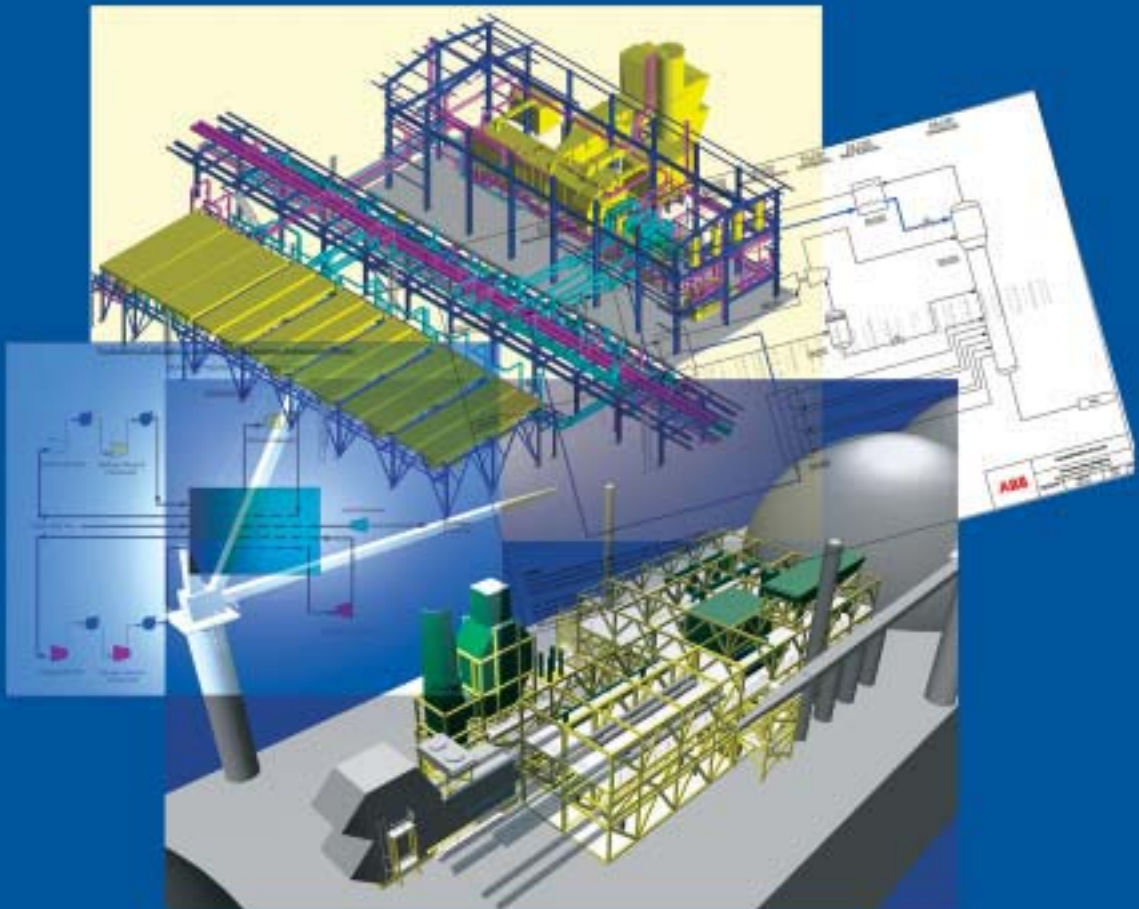


Investing in the future



We consistently invest in developing and expanding our technological capabilities, so that we are better for you tomorrow than we are today. Our position within the Lummus Process Technology Division provides access to pilot testing facilities with experienced engineering to develop, prove and improve processing and treating technologies.

We are expanding our technology horizon and are seeking to contribute new solutions for the natural gas value chain. Examples are our recent LNG process developments for stranded gas reserves, and our development of gas processing facilities on floating structures.



We have also placed great interest in new alternative technologies to bring gas to markets cost effectively.

Our commitment is embedded in our roots, as our vision for the future is to continue our **Legacy of Innovation.**



Lummus Technology
a CB&I company

**Randall Gas Technologies
Lummus Process Technology Division**

3010 Briarpark Drive
Houston, TX 77042
USA
P.O. Box 42833
Houston, TX 77242-2833
USA
Tel: +1 713 821 4199
Fax: +1 713 821 3538
www.lummus.cbi.com