

# A Legacy of Innovation and Project Execution in Gas Processing



*Engineering Solutions . . . Delivering Results*

# Experts in Natural Gas



**For more than 30 years**, Randall Gas Technologies and CB&I have excelled in creating innovative solutions for the natural gas industry. At CB&I we provide a large portfolio of execution capabilities and processing technologies to the hydrocarbon industries.

Today our technology is present in more than 220 plants around the world.

Drawing upon our full service T+EPFC execution experience, CB&I has installed more than 600 gas processing related projects 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
- Detailed engineering
- Modular fabrication
- Direct hire construction
- Precommissioning and commissioning
- Initial operations and training
- Operational optimization

# Superior Gas Technology



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

**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 and installed costs for 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 CO<sub>2</sub> recovery in NGL processes, and recovery of hydrocarbons from refinery streams.



# CB&I's Full Service Execution Portfolio for Gas Processing Solutions



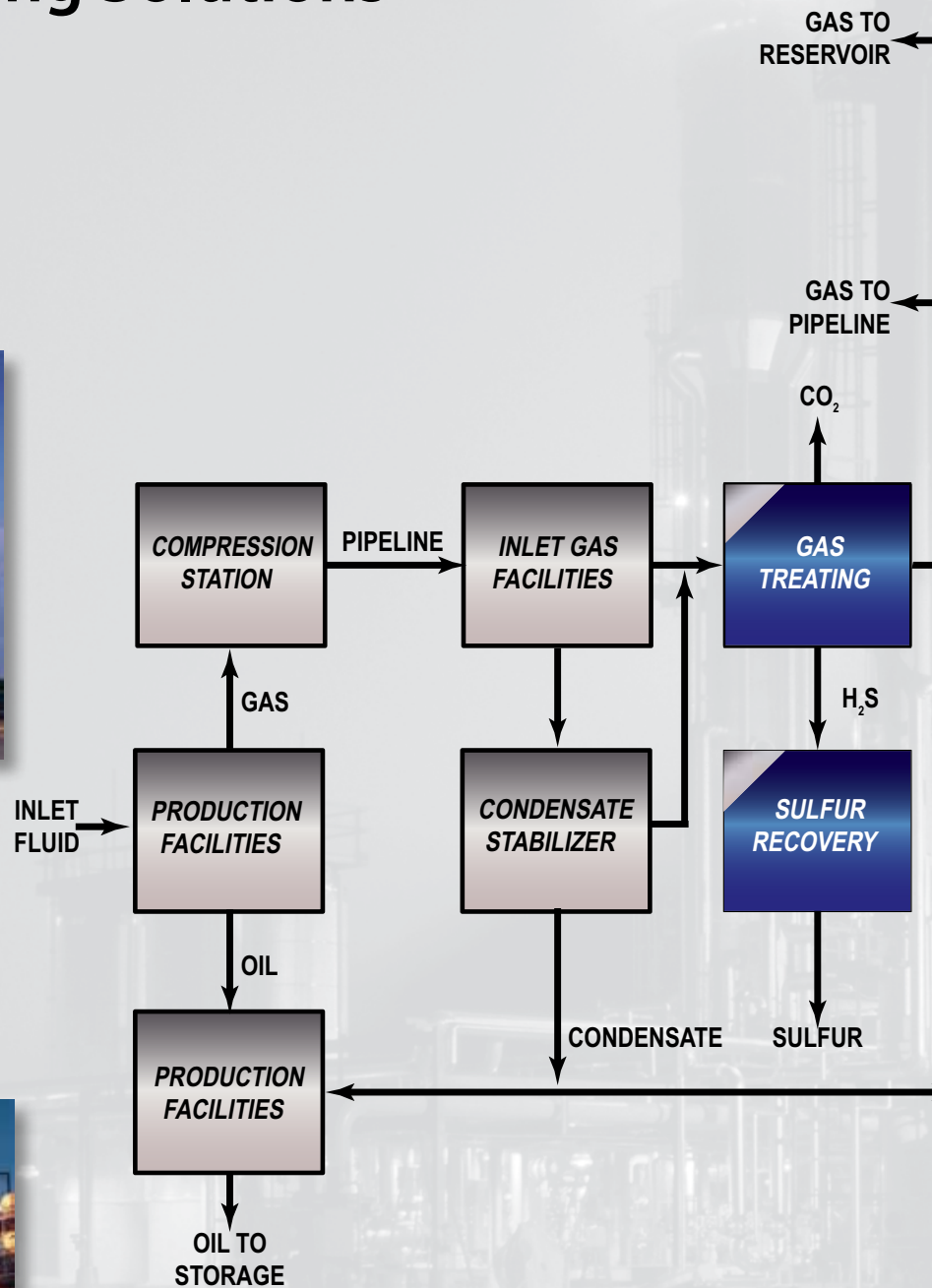
NGL Fractionation

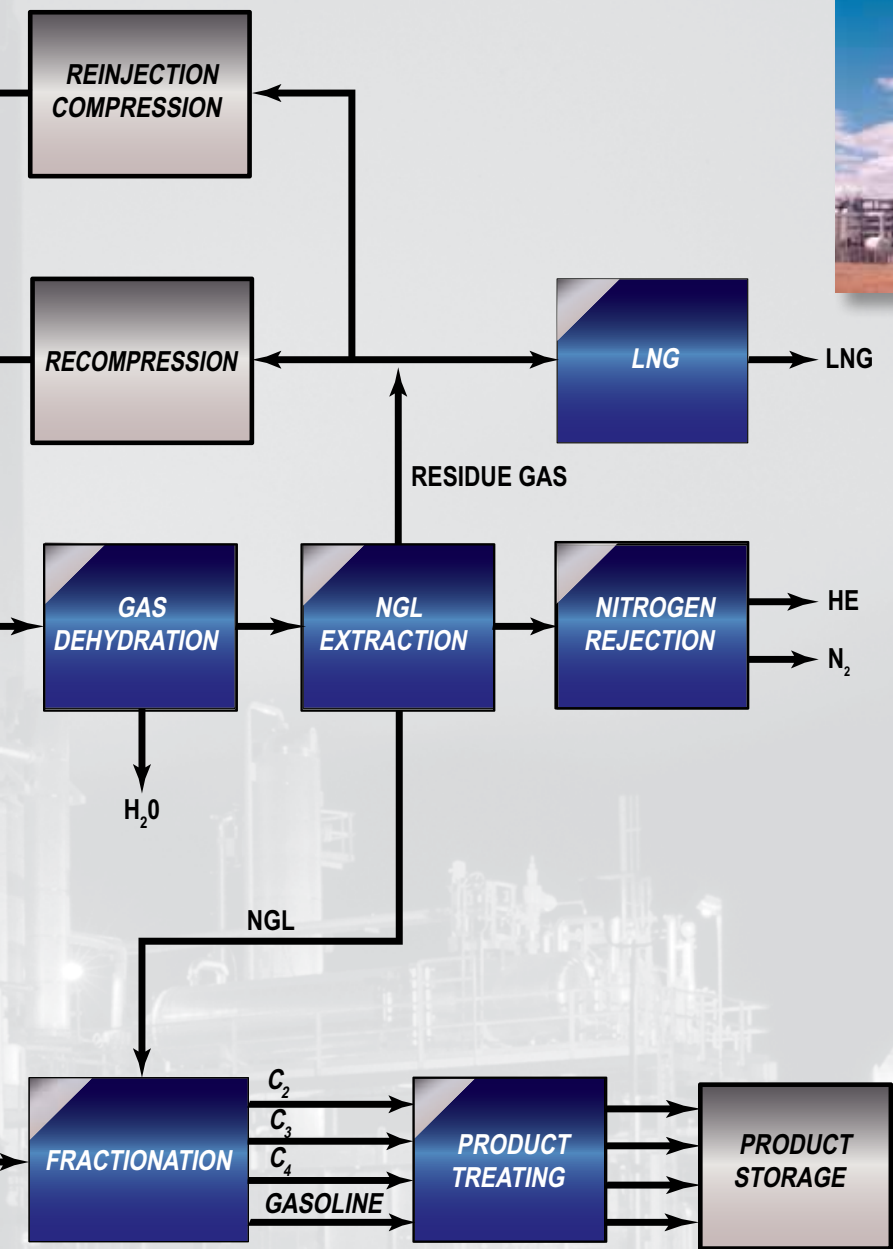


Gas Treating



Propane Extraction





 Technology Solutions

 EPFC Capabilities



Ethane Extraction



NGL Extraction



Nitrogen Rejection

# Successful Projects Start at Inception



Harnessing our full service capabilities at the earliest stages of a project provides you the best opportunity for achieving your project goals and objectives. CB&I has the technology and execution capabilities that let you start smart and complete successfully.

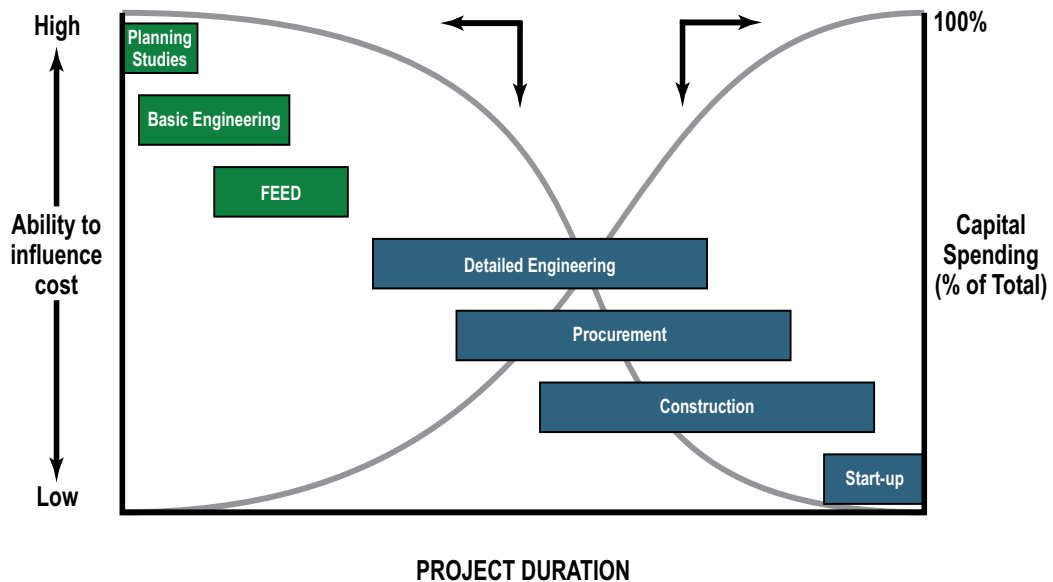
## We offer a complete front-end capability

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



## Our technology and EPFC execution 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.

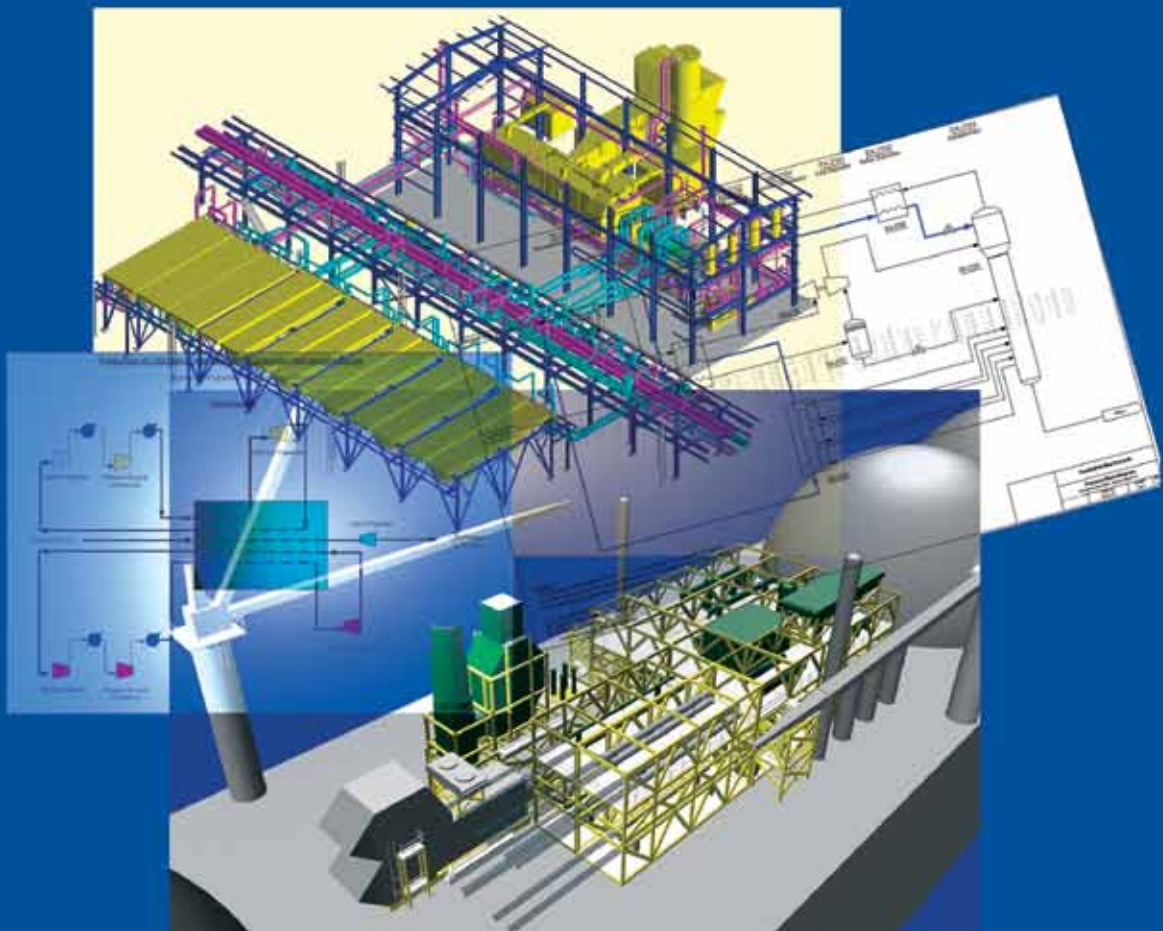


# Investing in the Future



We consistently invest in developing and expanding our technological capabilities, so we can meet your current and future needs. We have access to pilot testing facilities with experienced engineering to develop, prove and improve processing and treating technologies.

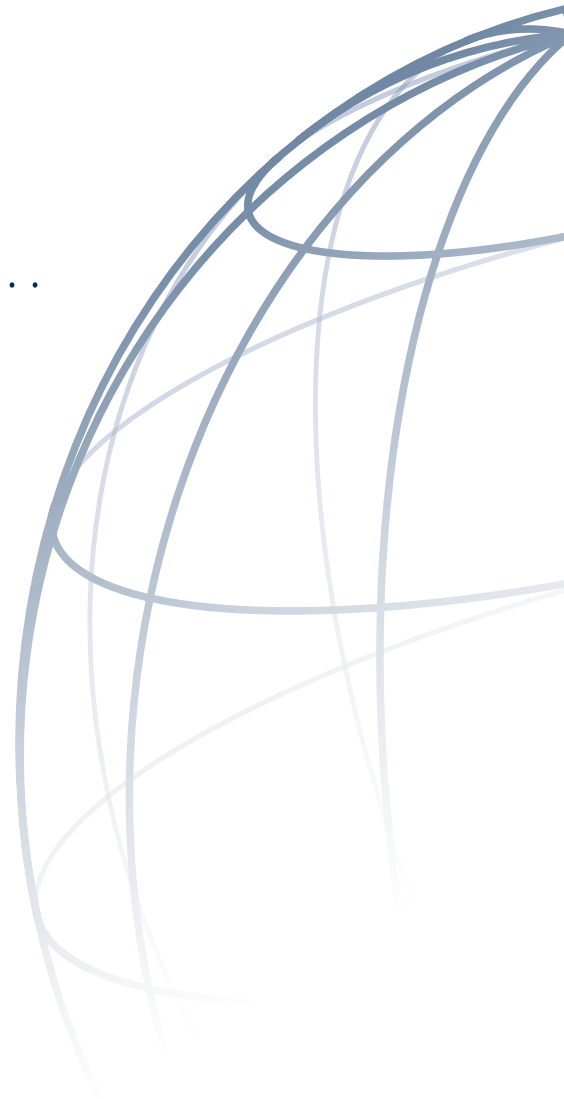
We are expanding our technology and execution horizons to provide new solutions for the natural gas value chain. Examples are our recent LNG process developments for stranded gas reserves, and our development of gas processing facilities on floating structures.



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

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

# Engineering Solutions . . . Delivering Results



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