



Refined Efficiencies, Extensive Solutions

GULF CRYO OIL & GAS BROCHURE





EFFICIENT



RELIABLE



INNOVATIVE



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SERVING THE INDUSTRY SINCE 1953

For over half a century, Gulf Cryo has been supplying gases and developing new applications for the oil, gas and petrochemical industries. Originally founded as Kuwait Oxygen and Acetylene co. in 1953, Gulf Cryo was the first gas manufacturer in the region to provide industrial gases such as Oxygen and Nitrogen to the booming local petroleum industry.



A NEED FOR EFFICIENCY

The Middle East is abundantly endowed with oil and gas resources. However, the drive to improve efficiency, cost effectiveness and environmental stewardship has become a key driver in decision making.

HOW WE WORK WITH YOU

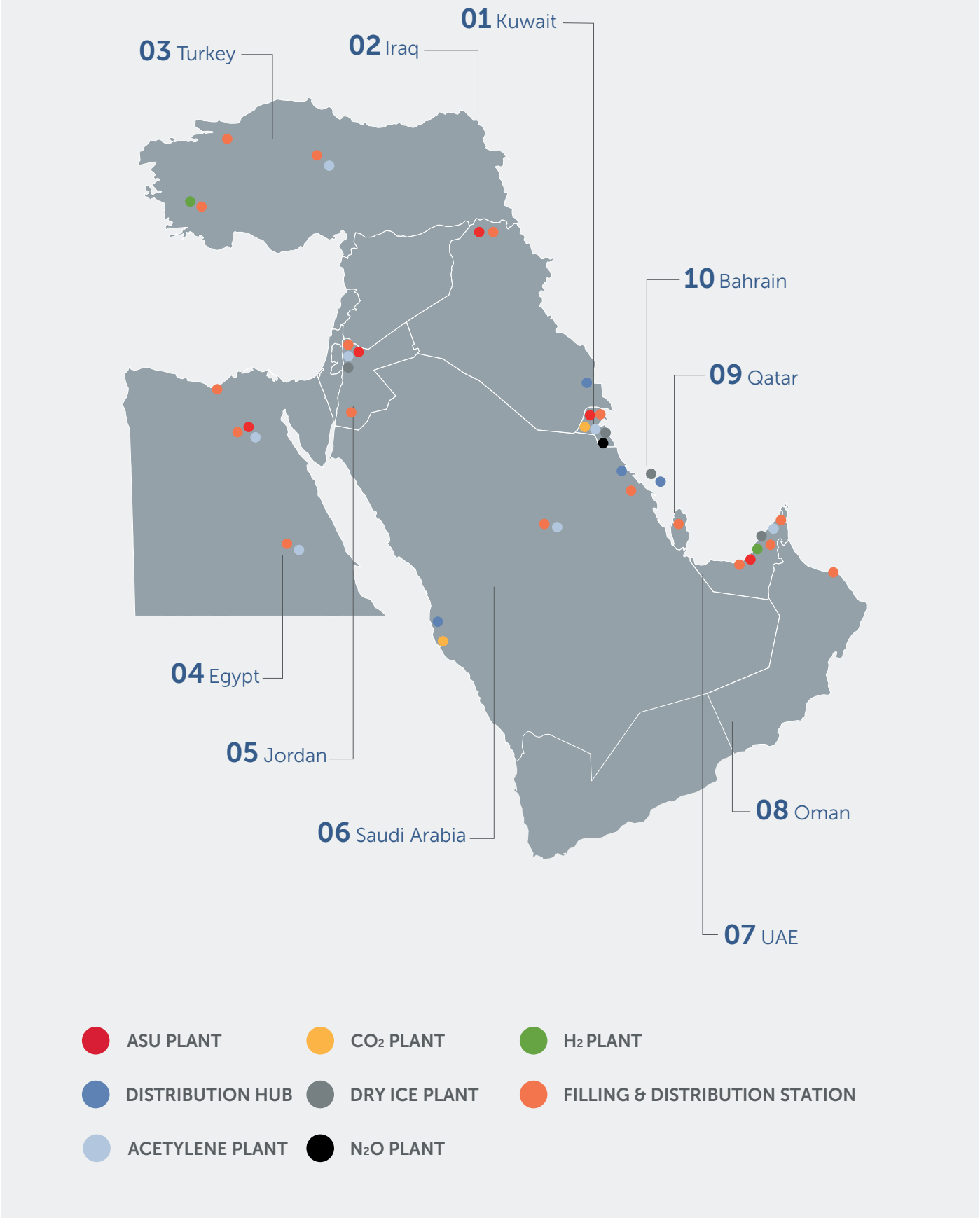
Gulf Cryo’s dedicated technical team understands that finding an industrial gas partner willing and able to invest in plant, equipment and human resources is a must for any oil and gas company.

Gulf Cryo provides a full portfolio of products and services including on-site supply of gases as process feedstock, EOR solutions, on-site carbon capture, bulk gases for safety and maintenance, and packaged gases for analytical use and welding applications.























Our engineers can implement a total gas management service handling the operation and maintenance of gas plants, assuring a 100% guaranteed source of high-quality gases in the pipeline with an additional back-up bulk gas service.



REGIONAL LEADERSHIP IN PRODUCTION & SUPPLY CHAIN




OUR GAS SOLUTIONS

Applications	Our products	Our services
Upstream Oil well pressurisation Enhanced oil recovery (EOR) Oil well stimulation	 Nitrogen	 Production and supply of pure and mixed gases
	 Hydrogen	
Downstream Blanketing of tanks Preventing the release of hydrocarbon emissions Preventing Oxygen ingress into vacuum units Purging Supply of Oxygen, Nitrogen and Hydrogen as process feed stock Calm chemical reactions Safely shutdown or start up refinery units Lowering Sulphur content in hydrocrackers and hydro-treaters Sulphur recovery applications Pipeline pigging Combustion efficiency at the furnace Break down of heavy hydrocarbons during the catalytic cracking process Fire extinction Valve sealing Dry ice blasting Explosimetry Leak testing	 Oxygen	 Analysis of customer requirements
	 Carbon dioxide	
	 Argon	 Pipeline installation
	 Welding gas	 Bulk installation
	 Acetylene	 Technical support
	 Mixed gases	 Cylinder maintenance
	 Specialty gases	
	 Dry ice	 On-site equipment maintenance
	 Helium	
		 Air separation unit installation
		 Equipment supply
		 Design, engineering and installation
		 'Over the fence' gas supply

OUR GASES

At Gulf Cryo, gases and gas mixtures are prepared under controlled conditions following strict international standards ensuring tolerances are clearly defined.

Pure gases (Liquid and compressed)	Purity
Acetylene	98.5%
Argon	99.999%
Carbon Dioxide	99.9%
Hydrogen	99.999%
Nitrogen	99.999%
Helium	99.999%
Oxygen	99.5%
Argon/Helium mixture	-
Argon/Hydrogen mixture	
Argon/Carbon Dioxide mixture	-

OUR SUPPLY AND PACKAGING OPTIONS

Operating in ten countries in the Middle East, Gulf Cryo covers a vast territory offering the supply of gases and the installation of equipment. We will provide you with the best available supply package to suit your business requirements.

Options	
Air separation unit installation ISO tanks and road tankers Tube trailers Cylinder racks Gas cylinders SMR PSA and membranes VPSA	Full gas supply distribution network Spot requirements for bulk products High volumes Medium volumes Low volumes For on-site Hydrogen supply For on-site Nitrogen supply For on-site Oxygen supply

Talk to our applications engineers to identify the right solution for you.

DECARBONIZING THE REGION

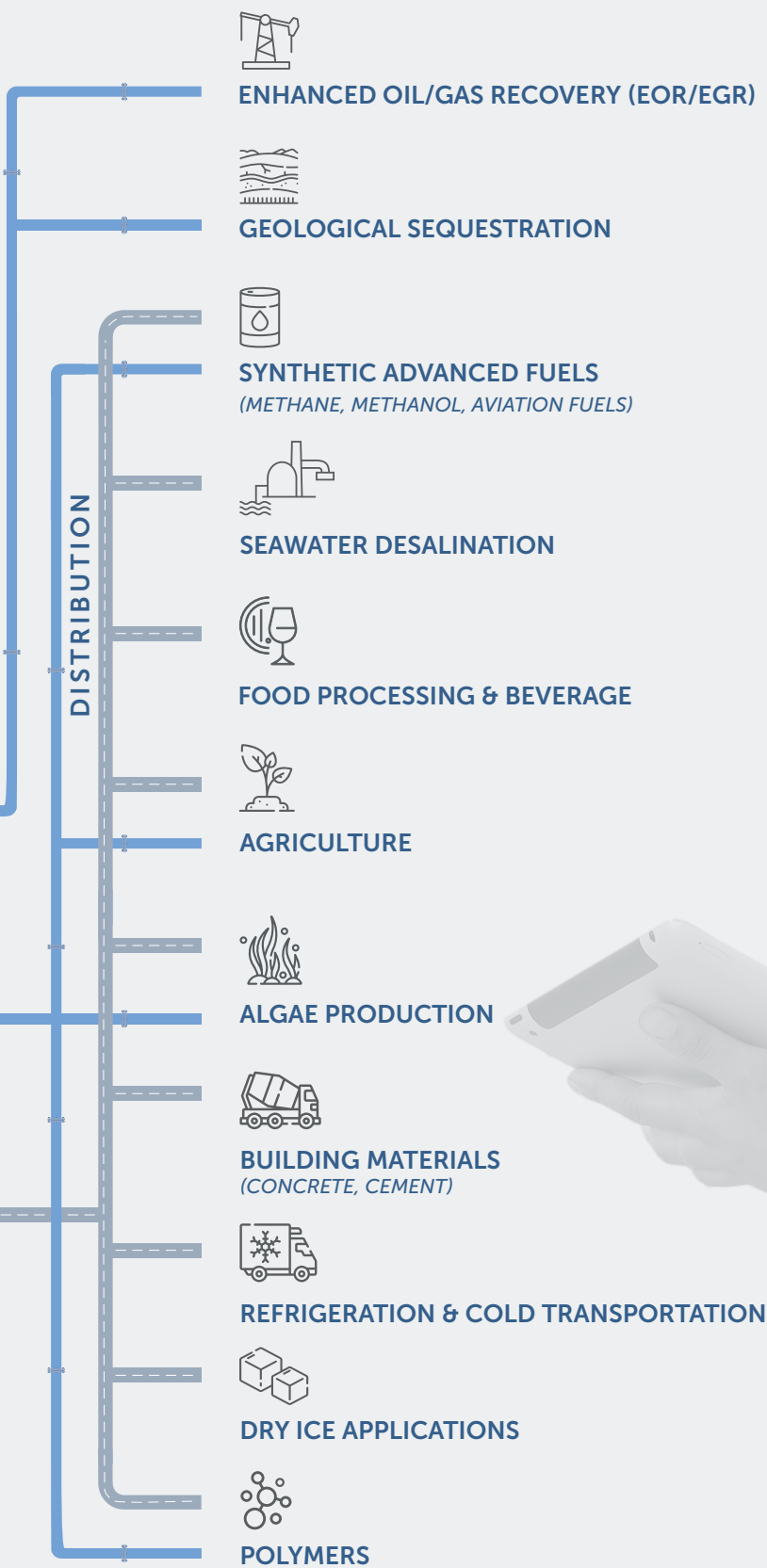
CCUS

Gulf Cryo was among the first pioneers in carbon capture and have started its first project in 2014, capturing the carbon emissions of Equate in Kuwait. This partnership paved the way for our current position in CCUS solutions. Today, we manage the CO2 full value chain from capture to utilization and sequestration, creating a circular carbon economy.

CARBON CAPTURE



UTILIZATION & SEQUESTRATION

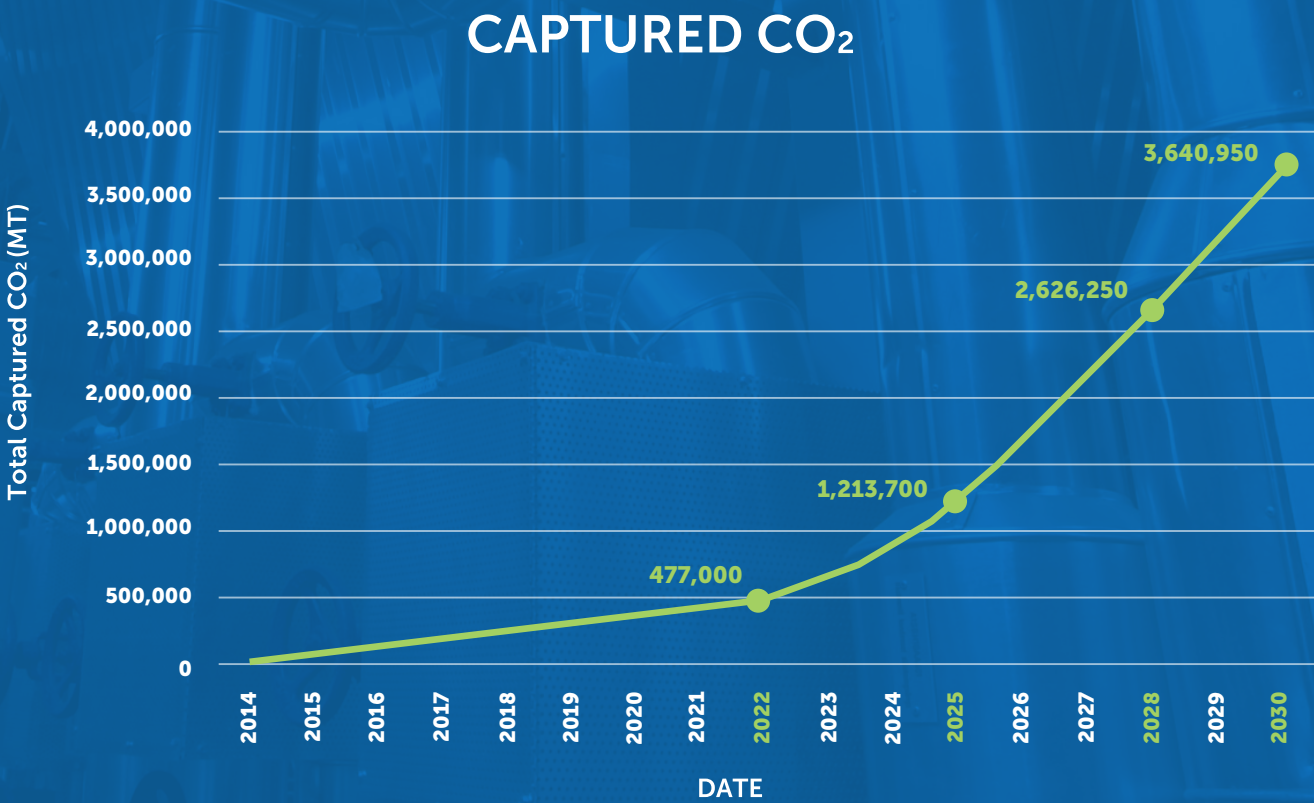


CCUS

Gulf Cryo possesses the expertise to engineer state-of-the-art carbon capture solutions and to innovate utilization & sequestration applications in various industries.

- ❑ We continuously invest in carbon capture from heavy industries
- ❑ We provide engineering solutions to capture CO₂
- ❑ We evaluate new technologies to capture CO₂ more efficiently
- ❑ We develop new applications to utilize and sequester CO₂ in various industries
- ❑ We decarbonize industries through innovative CO₂ applications (building materials and water remineralization to name a few)
- ❑ We possess an extensive supply chain infrastructure servicing the whole region
- ❑ We provide assistance with market understanding

Currently capturing 100,000 MTPA of CO₂, Gulf Cryo is increasing its carbon capture rate exponentially within the next 10 years.



HYDROGEN

Hydrogen plays a key role in energy transition enabling a sustainable energy mix. As an industrial gas company, Gulf Cryo is an expert in producing Hydrogen through electrolysis and is soon turning its plants into green Hydrogen facilities. We continuously evaluate different technologies and solutions to help develop the green hydrogen economy.

WE
INVEST
IN LOW-CARBON H₂
PRODUCTION & DISTRIBUTION

WE
DEVELOP
STRONG PARTNERSHIPS THAT
ENABLE THE DEVELOPMENT OF
H₂-RELATED PROJECTS

WE
DEPLOY
H₂ INTEGRATED & INNOVATIVE
SOLUTIONS FOR DECARBONIZING
ENERGY, INDUSTRIES & MOBILITY

Gulf Cryo is committed to providing gases with an unrivalled technical innovation offered through a reliable and consistent supply of high-purity oxygen, nitrogen, carbon dioxide and other gases for the Oil & Gas industry.

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