



Solving the world's most challenging water problems

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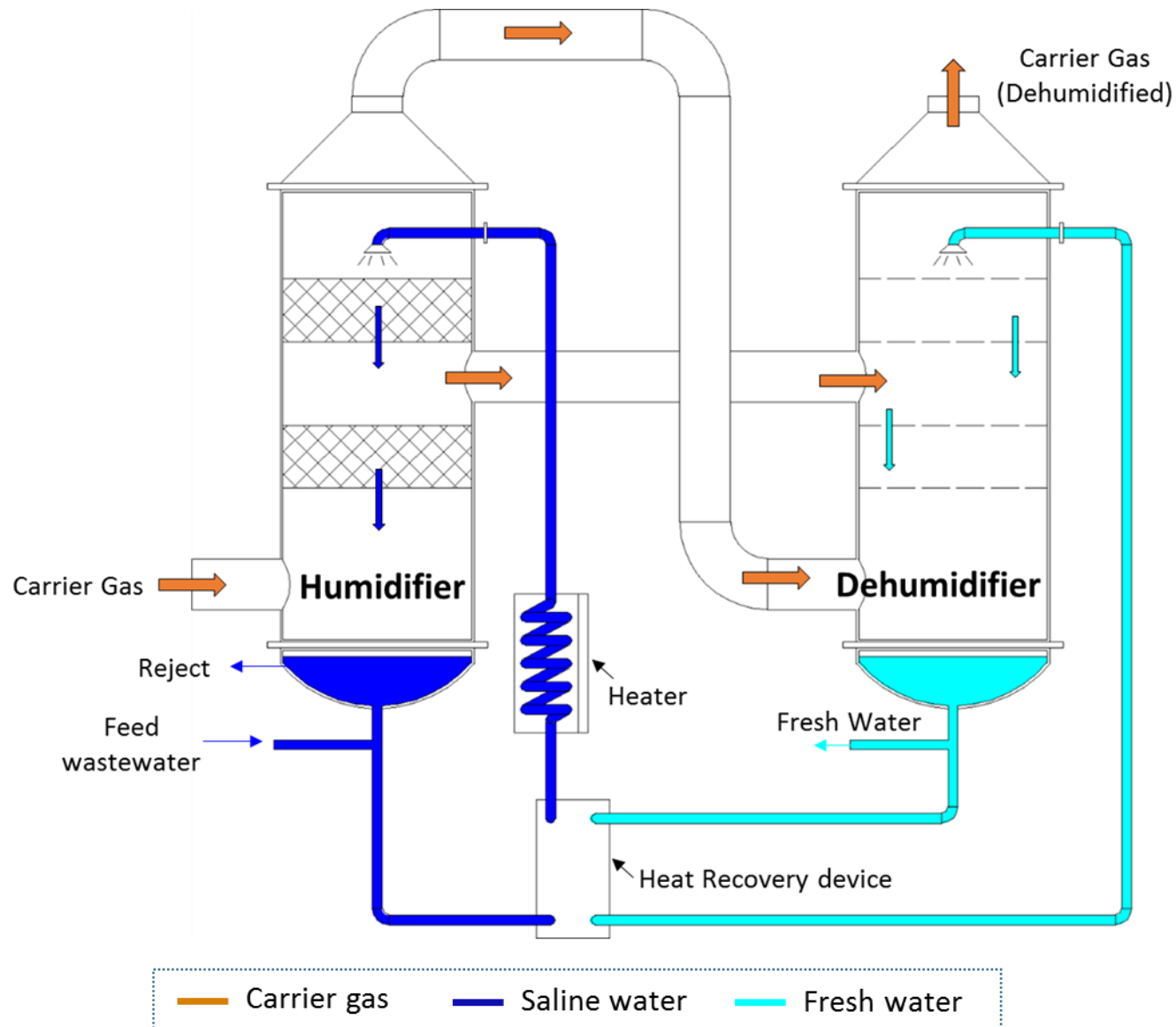


Solving the world's most challenging water problems

- **Industrial wastewater is much more contaminated** than municipal wastewater; water intensive industries (oil & gas, power) **rely on continuous water supply** and **pay to dispose of waste/ buy fresh water**
- Gradiant's treatment and recycling solutions **reduce customers' water cost by 30-50%**, **minimize water related risk** to business disruption, and **reduce their environmental footprint**
- Founded upon technologies invented at **MIT**, today, a **portfolio of innovations** headlined by proprietary **CGE™**, **SCE™**, and **FRD™** products serve as platform for the company's **commercially operating industrial water treatment solutions**
- Gradiant has executed **five commercial projects** enabling 100% liquid recycling; deploying **5 new commercial contracts** in 2017
- Strong IP portfolio of **60+ US patents** (150+ including international filings)
- 70+ employees in Boston, Colorado, Texas and New Mexico



Flagship technology: Carrier Gas Extraction (CGE™)



- Novel bubble column device enhances heat transfer rates and **reduces surface area requirements**
- Elimination of metallic evaporator and condenser allows for **simpler materials**
- Decoupling of valuable heat transfer surface from sacrificial separation surface leads to **reduced pretreatment requirements**
- Thermodynamic balancing **reduces energy consumption**
- Low temperature operation allows for **use of waste heat**



GRADIANT

Carrier Gas Extraction Technology
Permian Basin Zero Discharge Project



Global Water Intelligence

2013 WATER TECHNOLOGY IDOL

2014 INDUSTRIAL WATER PROJECT
OF THE YEAR

- Eliminated deep well disposal of 12,000 bbl./ day of water
- Eliminated 10,000 bbl./ day of fresh water extraction; ensured constant water supply in desert environment
- Eliminated production and transport of 2000 bbl./ day of 10lb brine
- Reduced customers' overall water cost by ~40%

Gradiant builds, owns, operates plants across US O&G operations



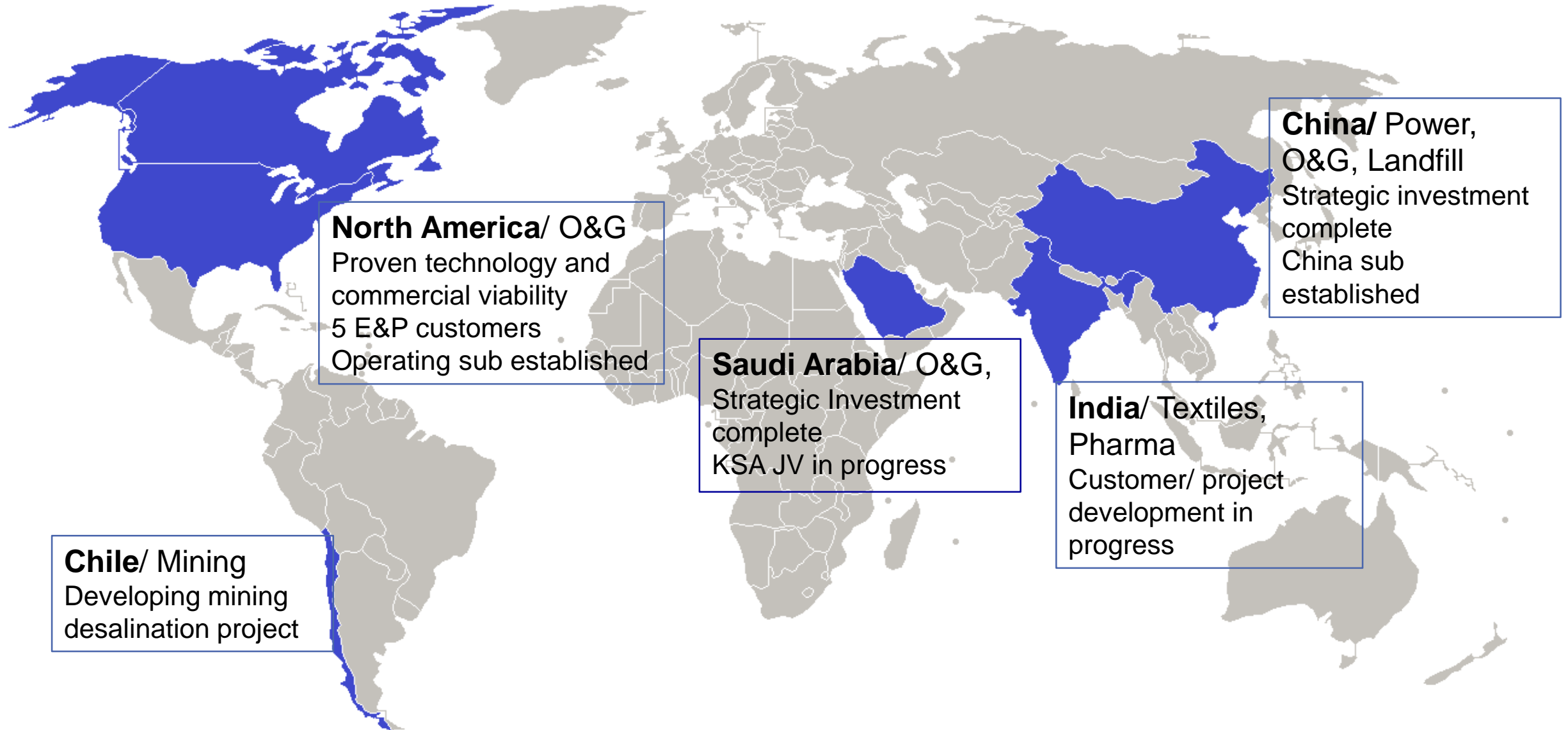


GRADIANT ENERGY SERVICES



Gradiant Energy Services is an oilfield services company addressing industry's toughest water challenges through custom-engineered solutions and game-changing technologies. We serve oil and gas operators seeking safe, reliable, economic, environmental and efficient treatment, reuse and recycling of flowback and produced water.

Ongoing diversification to global markets and new industries





Treated water ready for re-use

Gradient Plant

