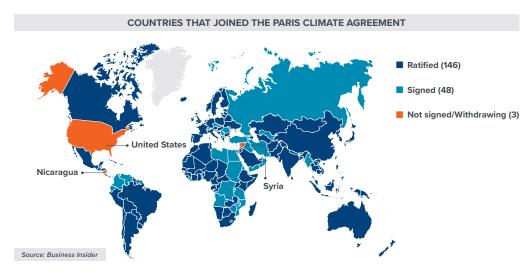
Supporting the Hydrogen Fuel Economy

Paris Agreement

In December 2015, the world united in Paris at the United Nations Framework Convention on Climate Change to agree a way forward to reduce global greenhouse gas emissions.

With Europe leading the way, the concept of Carbon Capture, Utilization and Storage (CCUS) and Hydrogen Fuel for the transport sector, both industrial and domestic, has become a reality. Leading providers throughout Europe are testing industrial applications and completing studies to aid in the reduction or repurpose of waste gases from existing processes.



Broad Range of Experiences

In commercialising hydrogen technologies and applications, all aspects of safety will be critical. Compliance with current regulations will apply across many aspects of the hydrogen production, storage, and distribution systems. ABS Group has vast experience in supporting the Oil, Gas and Chemical Sector in ensuring safety is at the forefront, by providing a full-service experience from Concept Design Support and Assessment, to Inspections and Testing, to Safety Culture and Training.







Petrochemical



Upstream/ Midstream Oil and Gas



Downstream Oil and Gas



Utilities



CULTURE AND HUMAN FACTORS

- Safety Culture Evaluation
- Training and Organisational Change
- Human Factors Assessment



RISK MANAGEMENT

- HAZID, HAZOP, HAZAN, SIMOPS
- Quantitative Risk Analysis
- Pipeline Hazard and Risk Analysis
- Emergency Preparedness
- PSM GAP Assessment / Audit
- Bow Tie Risk Management



40+ Years of

Process Safety

Leadership

ENGINEERING SUBSTANTIATION

- Building Analysis and Assessment including CFD and FEA
- Pipework Analysis and Assessment



- Regulatory Report Support ALARP Assessments
- Verification of Safety Justifications
- Quantitative Risk Assessment



MECHANICAL INTEGRITY

- Development of MI Programmes
- Inspection and Testing
- Risk Based Inspection (RBI)



CONSEQUENCE MODELLING

- Fire and Explosion Modelling
- Toxic Dispersion and Ingress Assessments
- Blast/Toxic Resistant Design

