

CARBON CAPTURE AND STORAGE - NEXT GENERATION CAPTURE TECHNOLOGY



» CAPTURING CO₂ – MORE EFFICIENTLY AND AT LESS COST

DESCRIPTION

- Costain has built on its patented approach to industrial gas processing to develop a means for removing CO₂ from power plants, at lower capital cost, lower operating cost and improved efficiency than equivalent conventional schemes.

KEY INDUSTRY CHALLENGES

- The current generation of technology for capturing CO₂ from power plant is very expensive
- Our challenge is to reduce the cost of capturing CO₂ and to increase the efficiency of capture

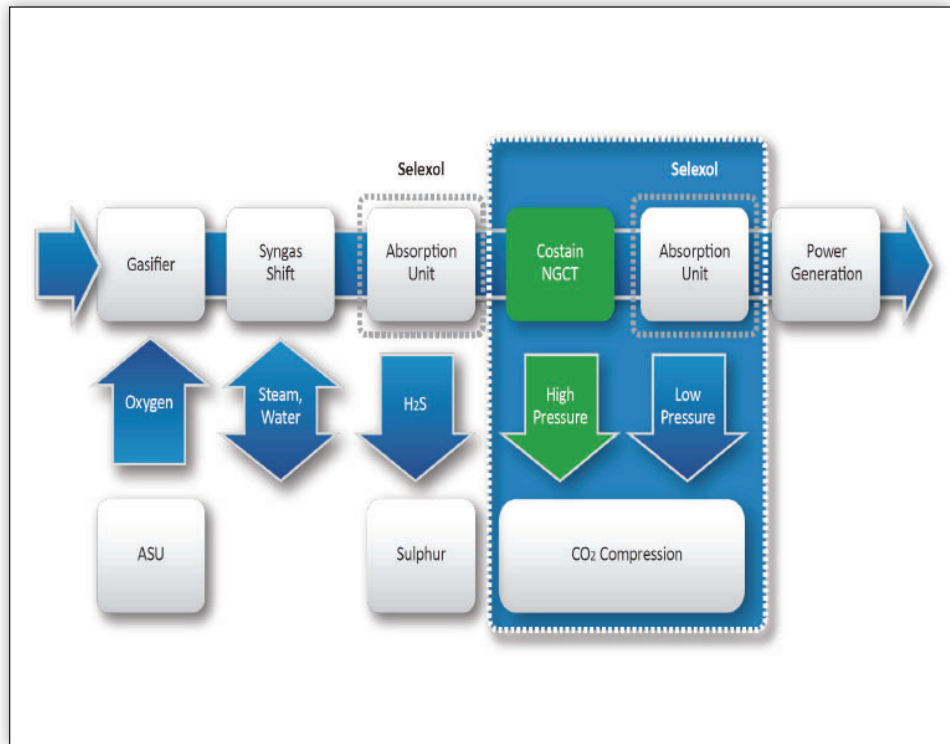
CUSTOMER BENEFITS

- Delivers a high carbon capture rate (>95%) whilst lowering the capital cost of the equipment
- Independent review of process confirmed savings in energy consumption of over a third, compared with an equivalent capture scheme

CURRENT STAGE OF

DEVELOPMENT

- Contract to develop the concept design complete
- Design for pilot plant installation complete
- Development supported by the Energy Technologies Institute
- Ready to build
- Looking for a suitable host site



CATERPILLAR

BIS Department for Business Innovation & Skills



Department of ENERGY & CLIMATE CHANGE

Rolls-Royce

EPSRC Engineering and Physical Sciences Research Council

Technology Strategy Board Driving Innovation

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