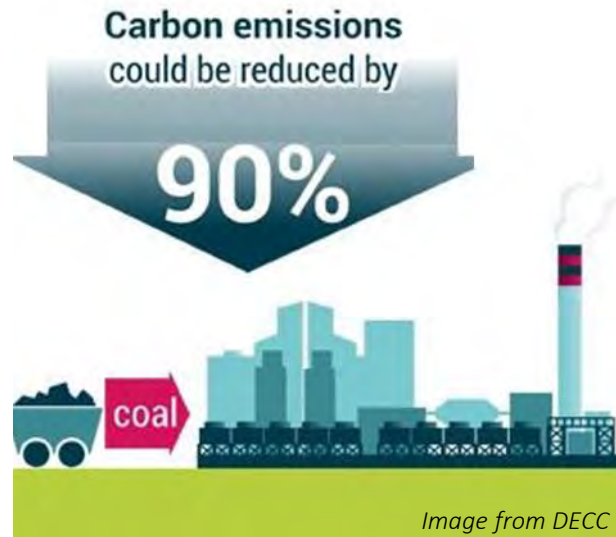


# White Rose CCS - Project Snapshot



- A full-chain integrated CCS project incorporating a new ultrasupercritical Oxy Power Plant, up to 448 MWe (gross)
- Located Drax, North Yorkshire providing equivalent power need to that of 630,000 homes
- 100% of flue-gas treated, 90% CO<sub>2</sub> capture rate → 2 MTPA

- CO<sub>2</sub> transported c.a. 100 miles by pipeline to off-shore storage
- CO<sub>2</sub> to be permanently stored in a deep saline formation
- Anchor project for regional Transport & Storage infrastructure → sized for 17 MTPA CO<sub>2</sub>



# The White Rose Developers



**ALSTOM**

- A global leader in the world of power generation, power transmission and rail infrastructure
- A pioneer in large-scale and efficient CCS technologies



- Owner & operator of the UK's largest, cleanest, most efficient coal-fired power station; 7% of the UK's electricity needs
- Produces more renewable power than any other UK facility
- Committed to reducing Drax & UK power generation carbon footprint



- The largest provider of industrial gases in UK
- A member of The Linde Group, a world leading gases and engineering company

**nationalgrid**

- An international electricity and gas company and one of the largest investor-owned energy companies in the world
- Expert in running high pressure natural gas system in a safe, reliable and efficient manner

# Project Status

- Preferred Bidder in the UK's £1Billion CCS Commercialisation Programme
- FEED Contract awarded - signed by the UK Government on 20th December 2013
- FEED underway: detailed risk reduction and planning programme leading to financial close, FID and construction commencement.
- Continuing work with the UK Government (DECC) towards Project Contract and Contract for Difference (CfD)
- NER 300 Award Decision: On 8 July 2014, White Rose project secured award decision on funding up to €300M, sponsored by UK Government; only CCS project in the NER competition
- Engaging with funding community after strong interest shown during the pre-FEED phase

**White Rose on track for a Final Investment Decision end 2015**

## Key experiences and knowledge

- Commercial positioning of CCS – Financing realities and strategic setting with other technologies
- Acceptable/unacceptable risks in technology development
- Access to and awareness of knowledge base
- Importance of transferable skills
- You know more than you think!