

Understanding the CCS Supply Chain
CCS Project – Supply Chain Workshop
31st July, 2007

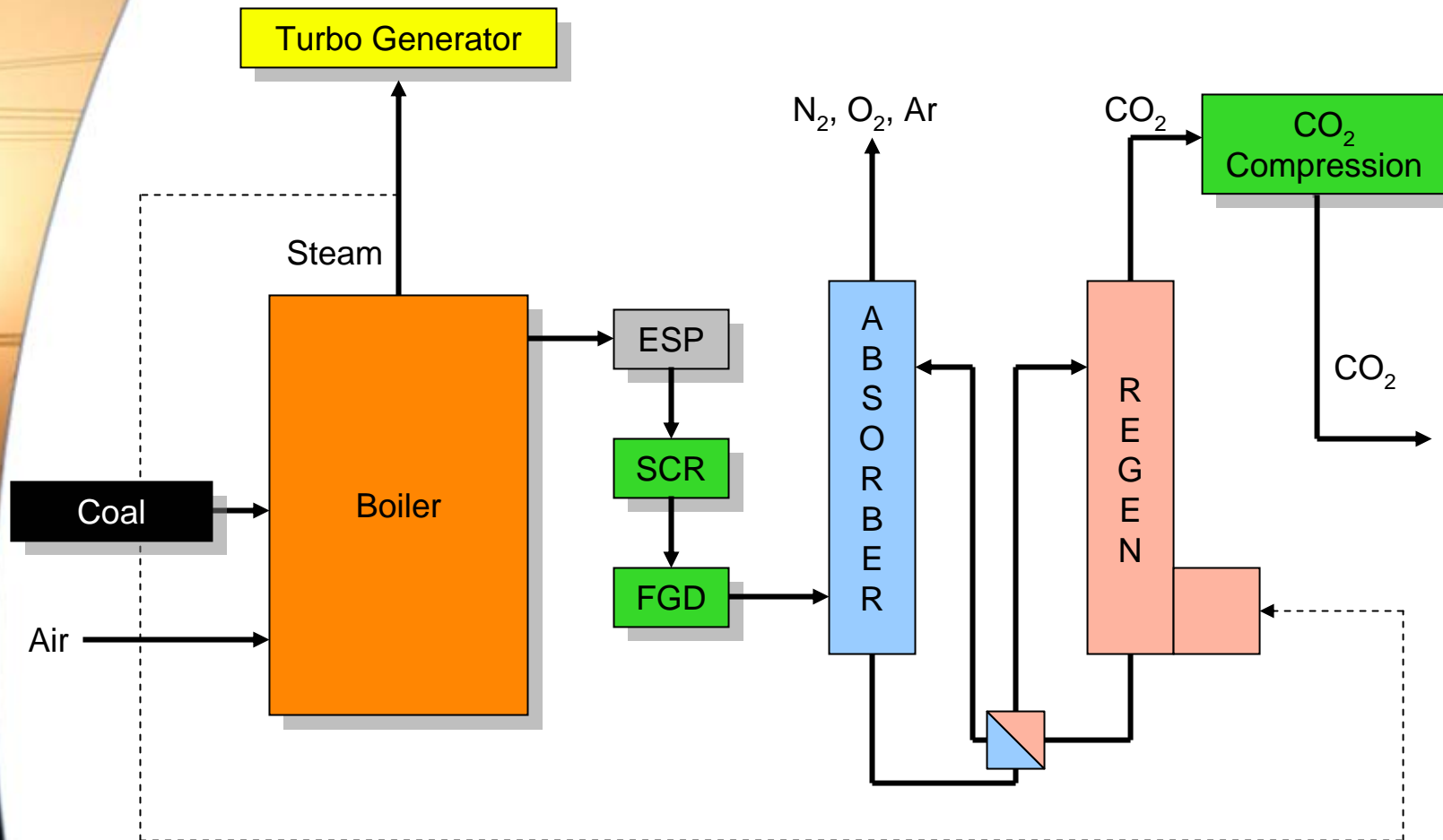


Understanding the CCS Supply Chain

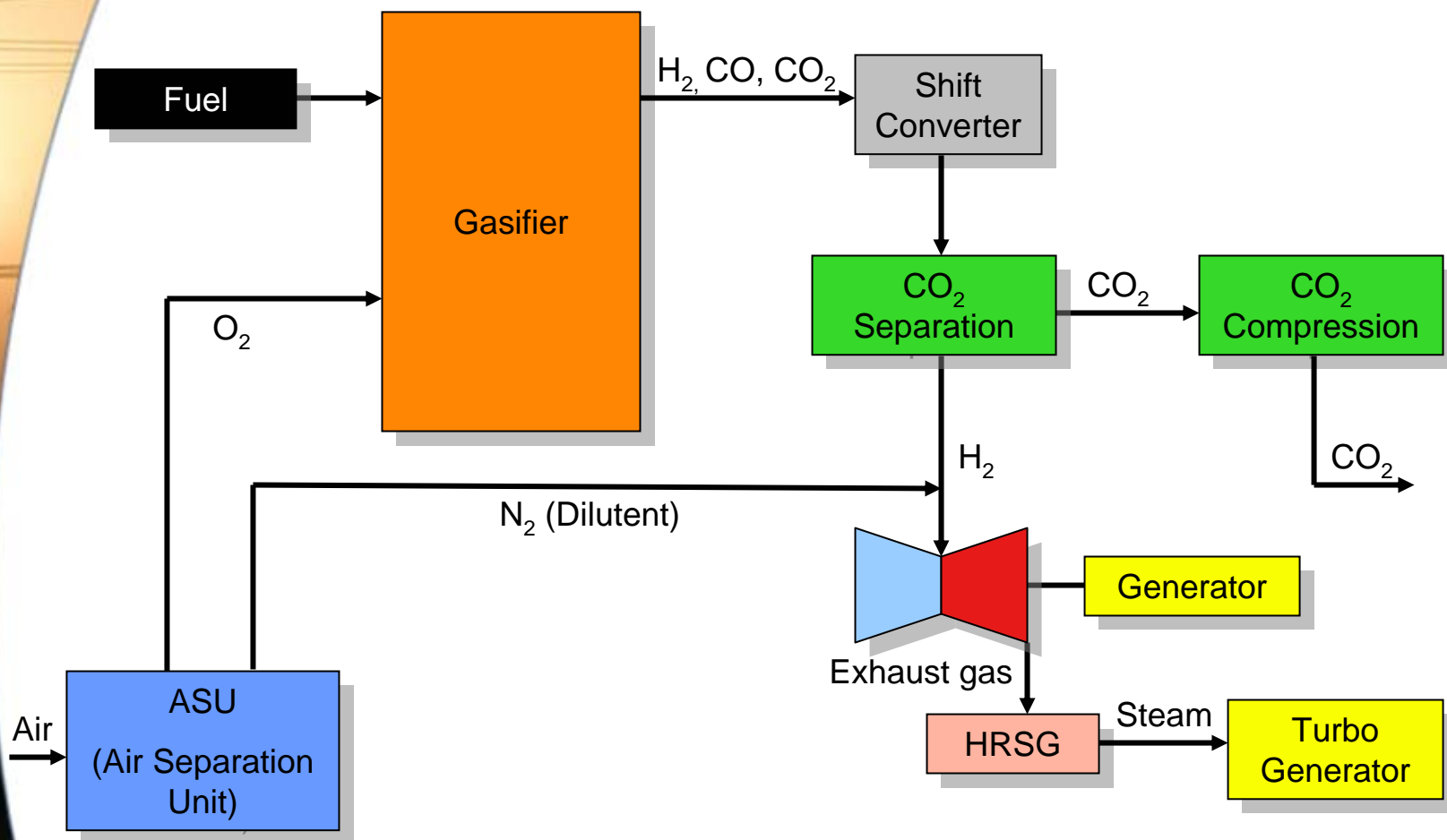
Supply chain will vary with different capture technologies:

- Post Combustion Capture
- Pre Combustion Capture (IGCC)
- Oxyfuel Combustion

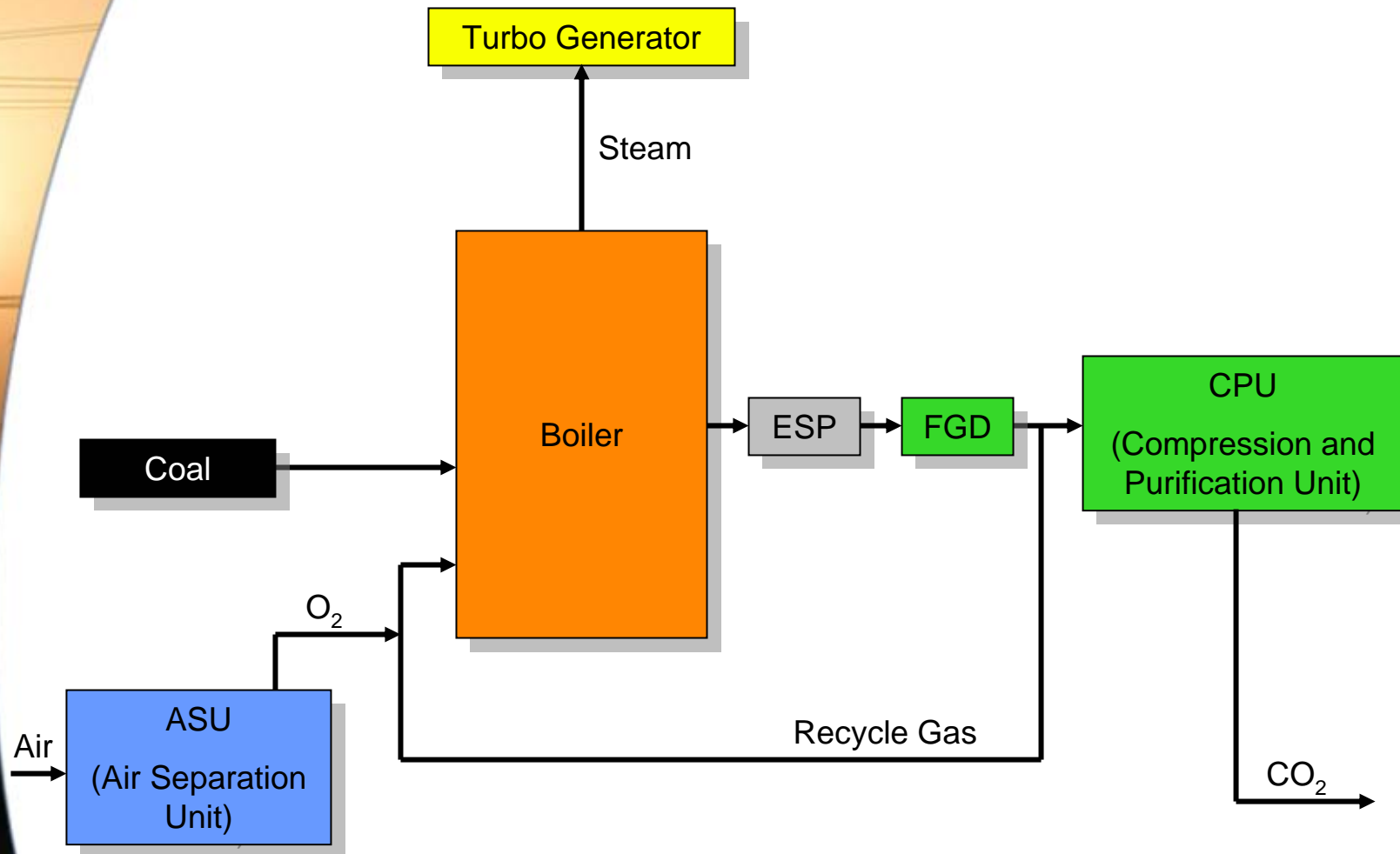
Post Combustion with CO₂ Capture



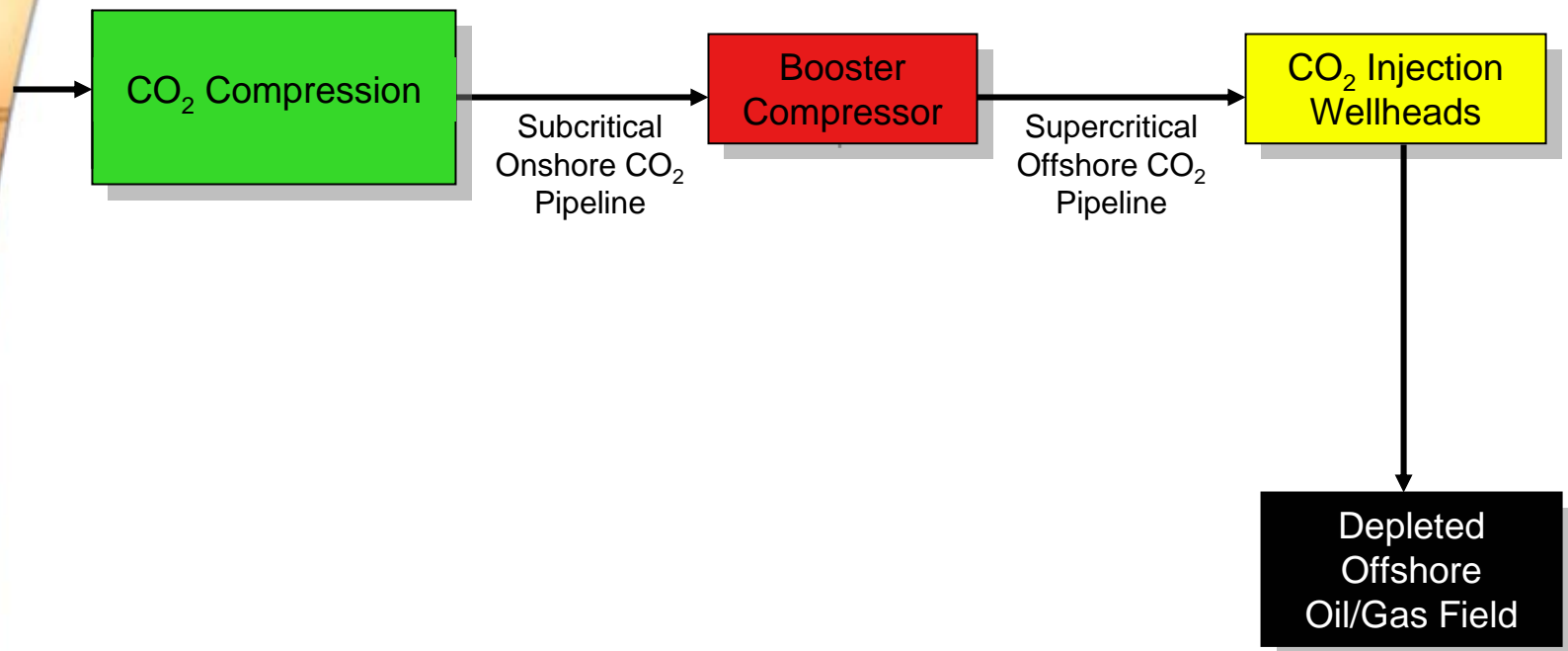
IGCC with CO₂ Capture



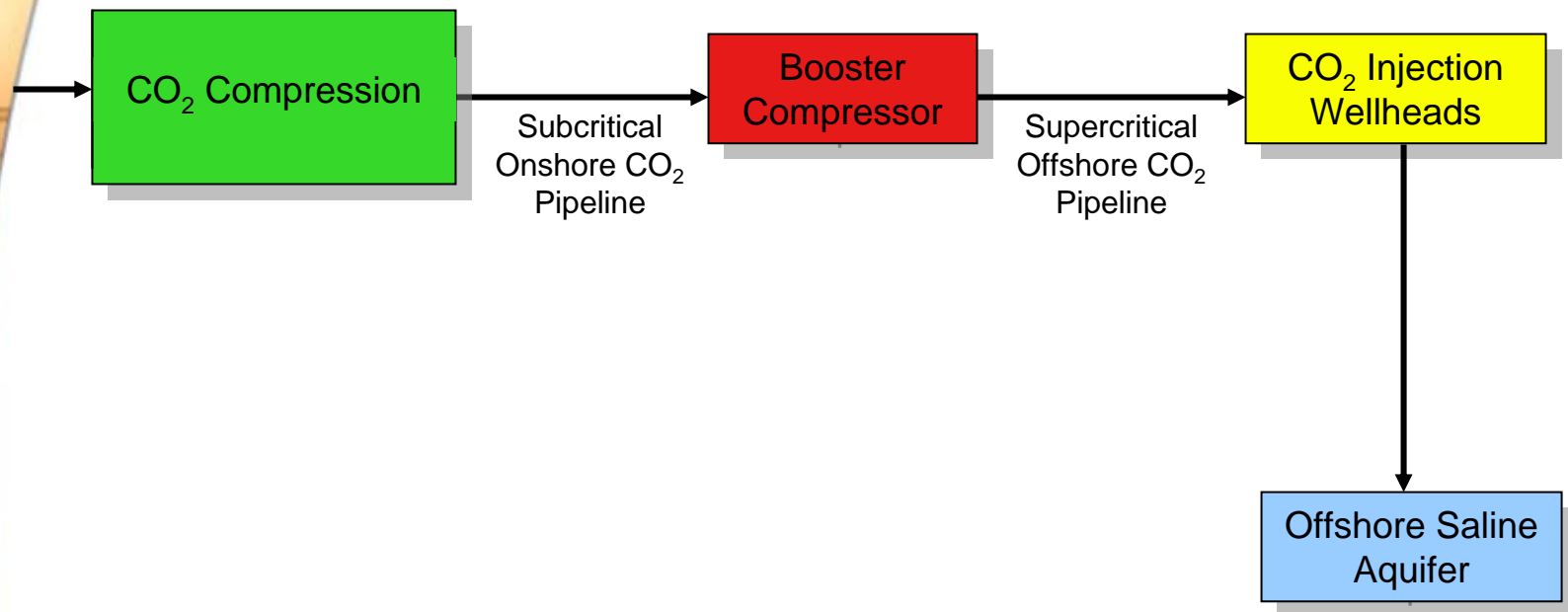
Oxyfuel Combustion with CO₂ Capture



CO₂ Transportation and Offshore Storage



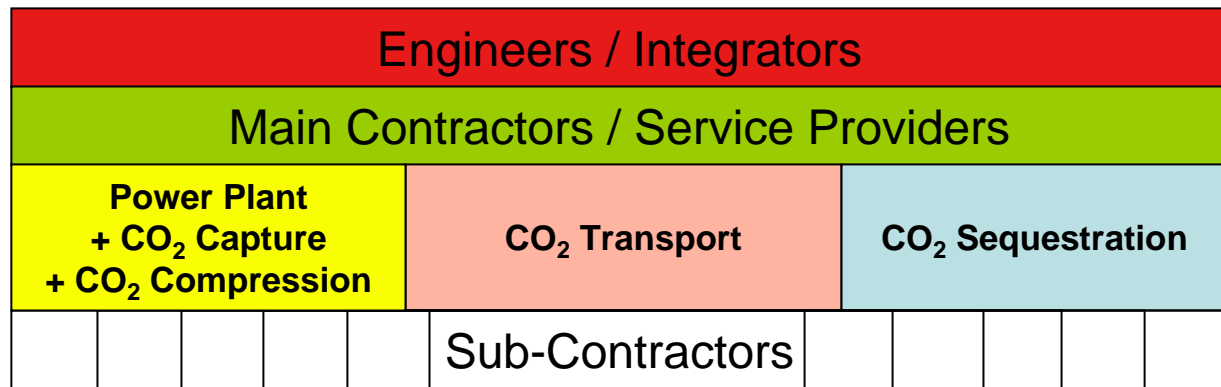
CO₂ Transportation and Offshore Storage



Opportunities for Suppliers / Contractors

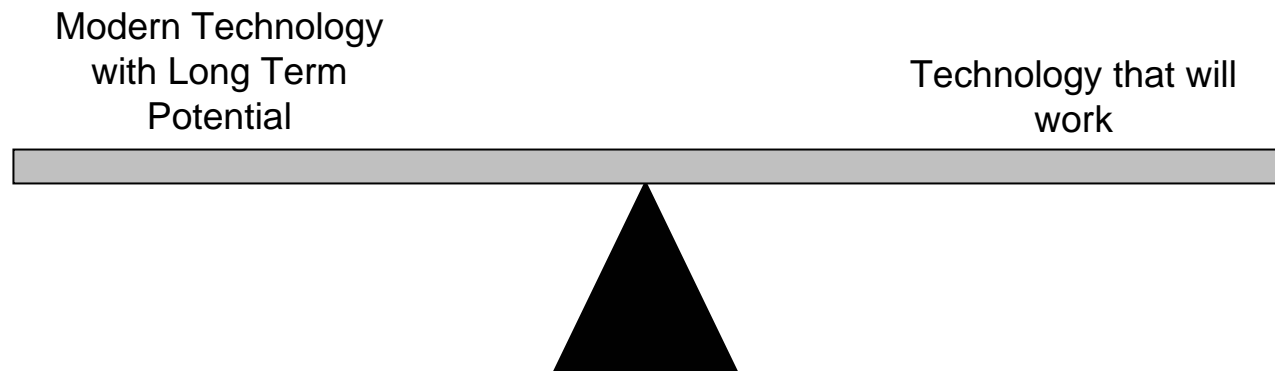
- New Markets
 - New applications for existing technologies
 - New technologies
- Examples:
 - Air separation units
 - CO₂ compression
 - Gas processing
 - CO₂ pipeline and related systems

CCS Supply Chain



UK CCS Competition

- To enable the development of a complete CCS project.
- Interested parties are to propose complete projects.



CCS Competition Design

- Contracting Methods
 - New power station – typically single EPC contract
 - Complete CCS Project?
- Contractual Guarantees (performance / availability / delivery)
 - Individual Plant?
 - Provision of Services?
 - Complete Project?

CCS Competition Design

- Technology Transfer
 - Limitations on proprietary technology?
- Likely Costs
 - To enter the competition?
 - For the project?
- Timetable
 - Realistic timescale for delivery of overall CCS project(s)?