

# Aberthaw CO<sub>2</sub> Capture Pilot Plant

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# Aberthaw Power Station



- 3 x 520MW coal-fired units, commissioned 1971
- Designed for semi anthracitic coal, now burns range of South Wales and imported coals
- Co-firing biomass capability

# Aberthaw Carbon Capture Pilot Plant

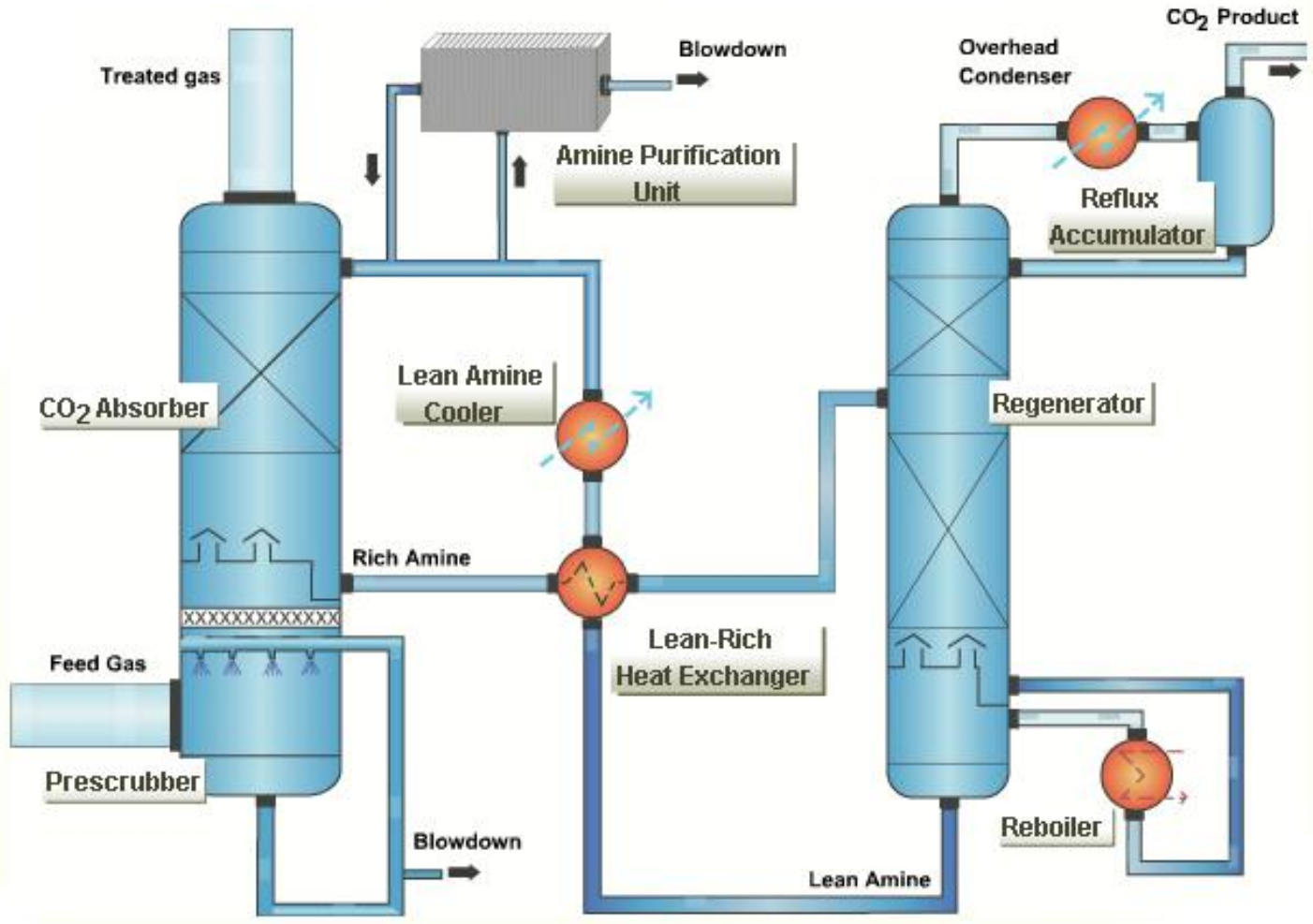
- Joint project between Cansolv Technologies Incorporated (CTI) and RWE npower.
- The pilot plant is designed to capture 50 tonne CO<sub>2</sub>/day; approximately equivalent to 3 MWe.
- CTI will utilise specialist solvents to capture the CO<sub>2</sub>.
- Will also demonstrate SO<sub>2</sub> removal.
- Complimentary technology to similar RWE research plant in Niederhaussen



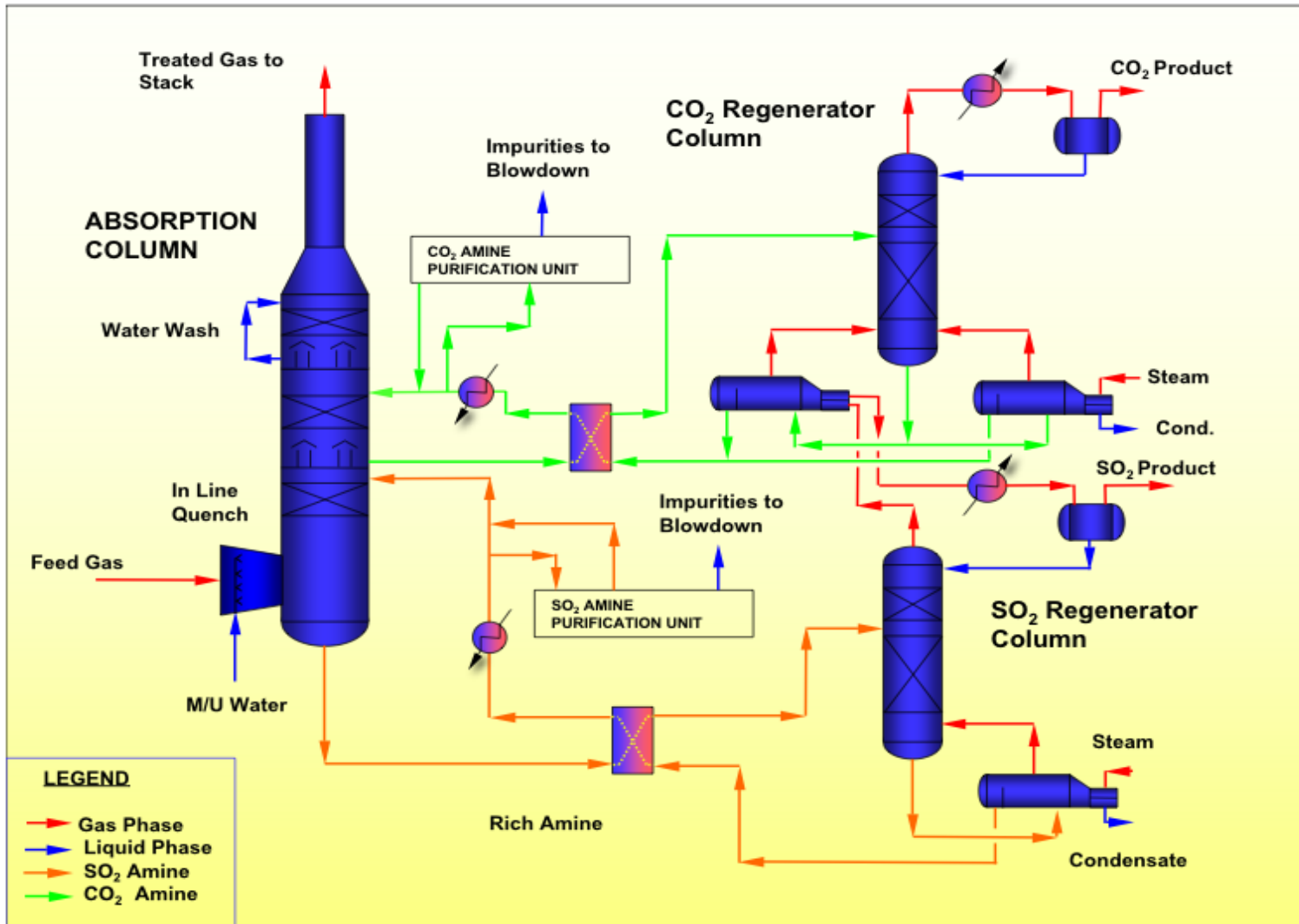
## Benefits of developing and operating the pilot plant

- > To understand the viability, effectiveness, reliability and costs of this technology at a larger scale.
- > To begin to understand the operations and maintenance implications and the associated integration issues.
- > To gain the necessary knowledge to be an informed buyer of CC technologies in the future. The R&D knowledge will be used to inform any future larger scale demonstration project.
- > To establish an understanding of the environmental effects working with key stakeholders including those within environmental regulation and planning.
- > To begin to consider the construction implications for full scale application.

# Cansolv Process – CO<sub>2</sub> only



# Cansolv process – CO<sub>2</sub> and SO<sub>2</sub>



# Initial results, approaching 90% capture

