

# Direct Air Capture Processes

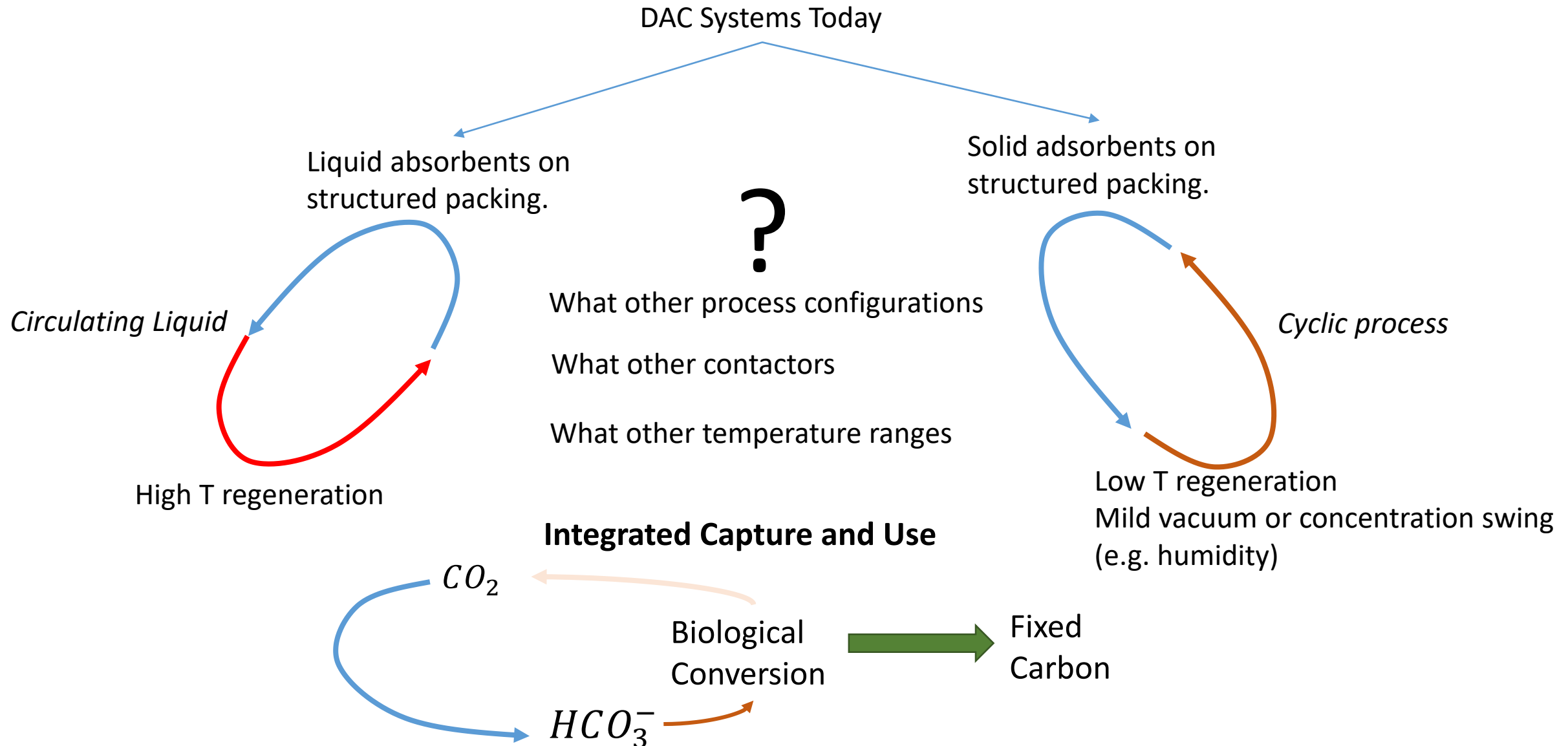
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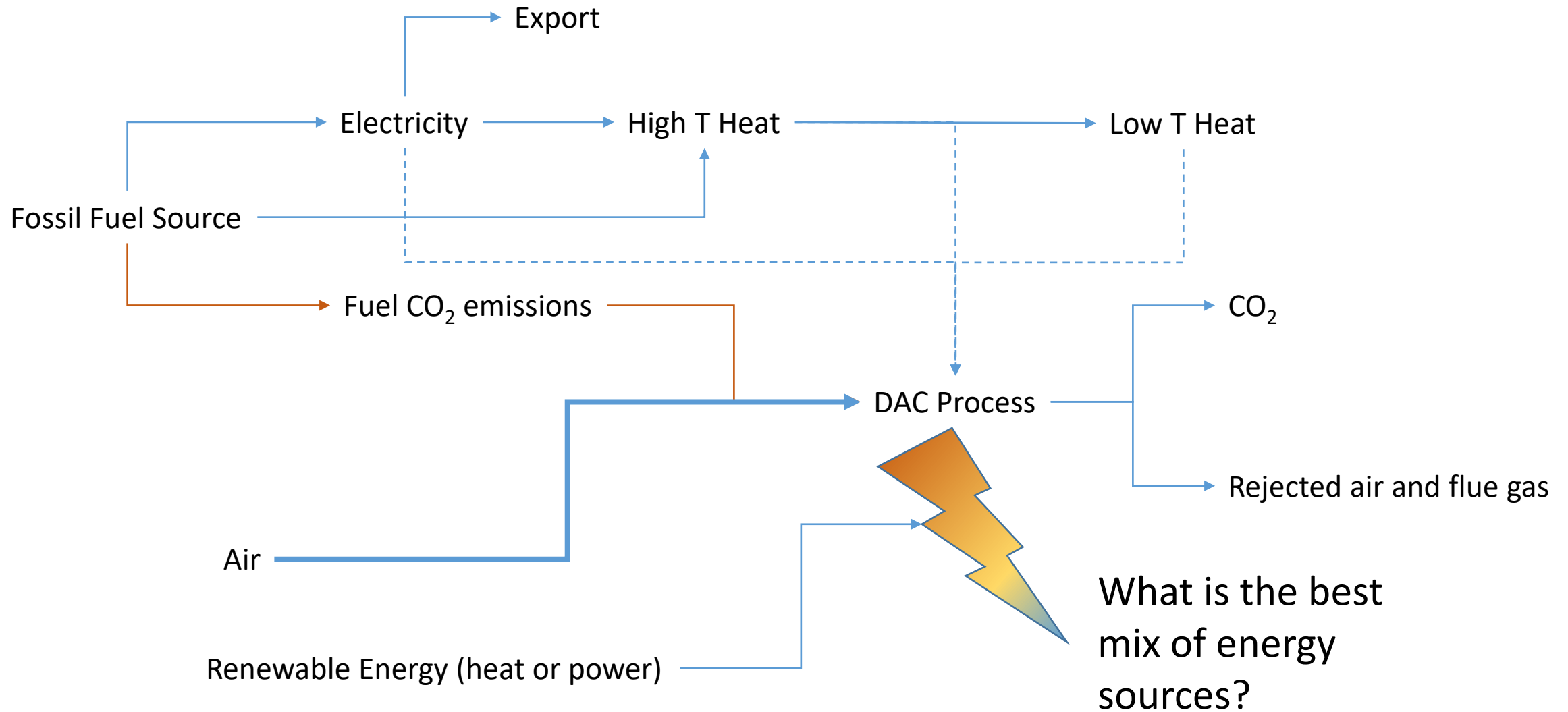
Strategic Energy Institute

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# Promote process innovation



# Process energy and CO<sub>2</sub> integration



# Multiple process base cases

Consider multiple delivery conditions, may not always want sequestration pressures and concentrations



Algenol PBR

20 ft Algal Photobioreactor – needs 10% CO<sub>2</sub> concentration

Concentration and then dilution is thermodynamically wasteful

Consider having high T regeneration and low T regeneration cases as alternative baselines.

Consider bounding CO<sub>2</sub> ratio from air vs fossil sources