

# Prospective LCI of Direct Air Capture (DAC) product system from 2020-2050

## Quick overview:

### How direct air capture works

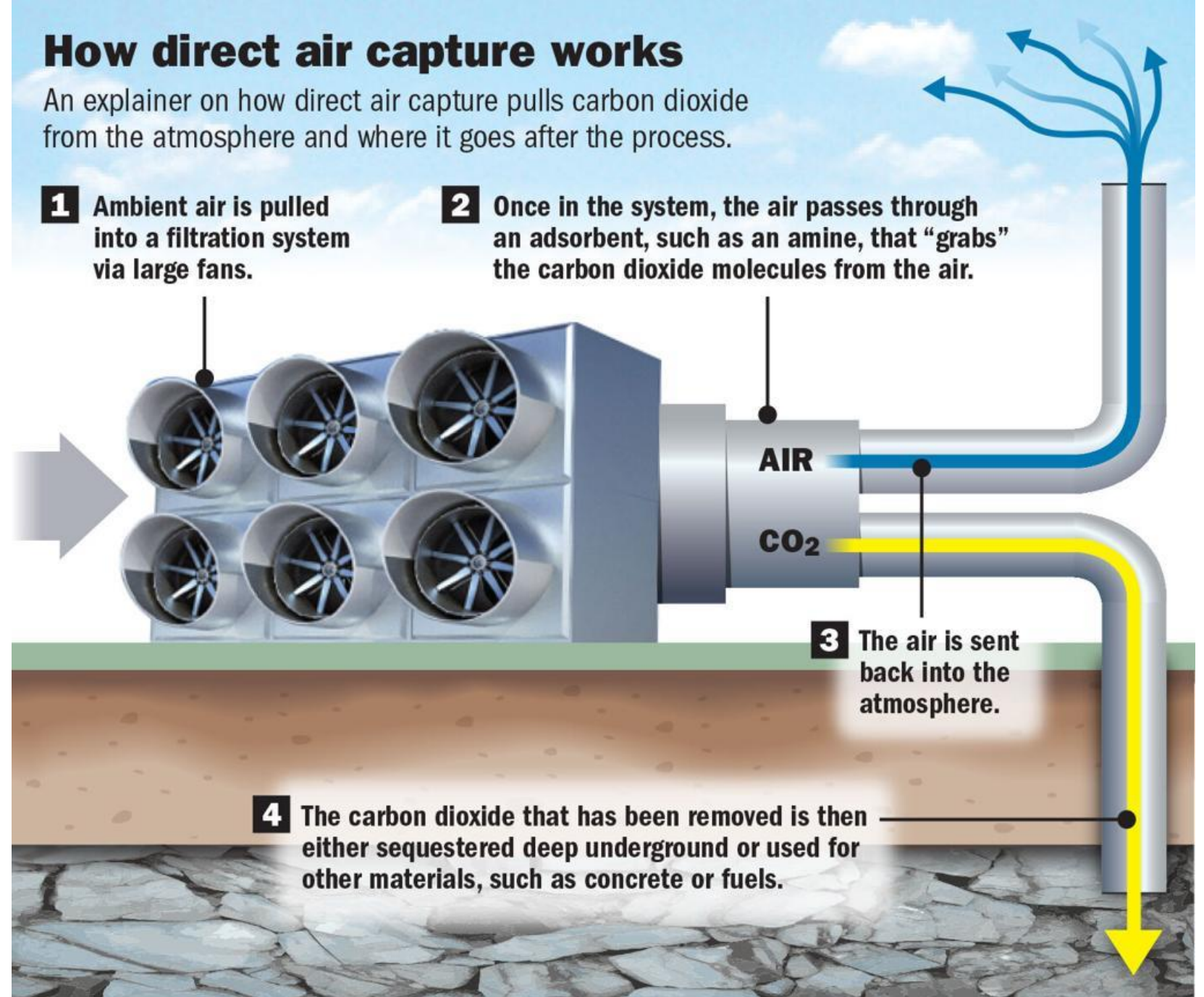
An explainer on how direct air capture pulls carbon dioxide from the atmosphere and where it goes after the process.

**1** Ambient air is pulled into a filtration system via large fans.

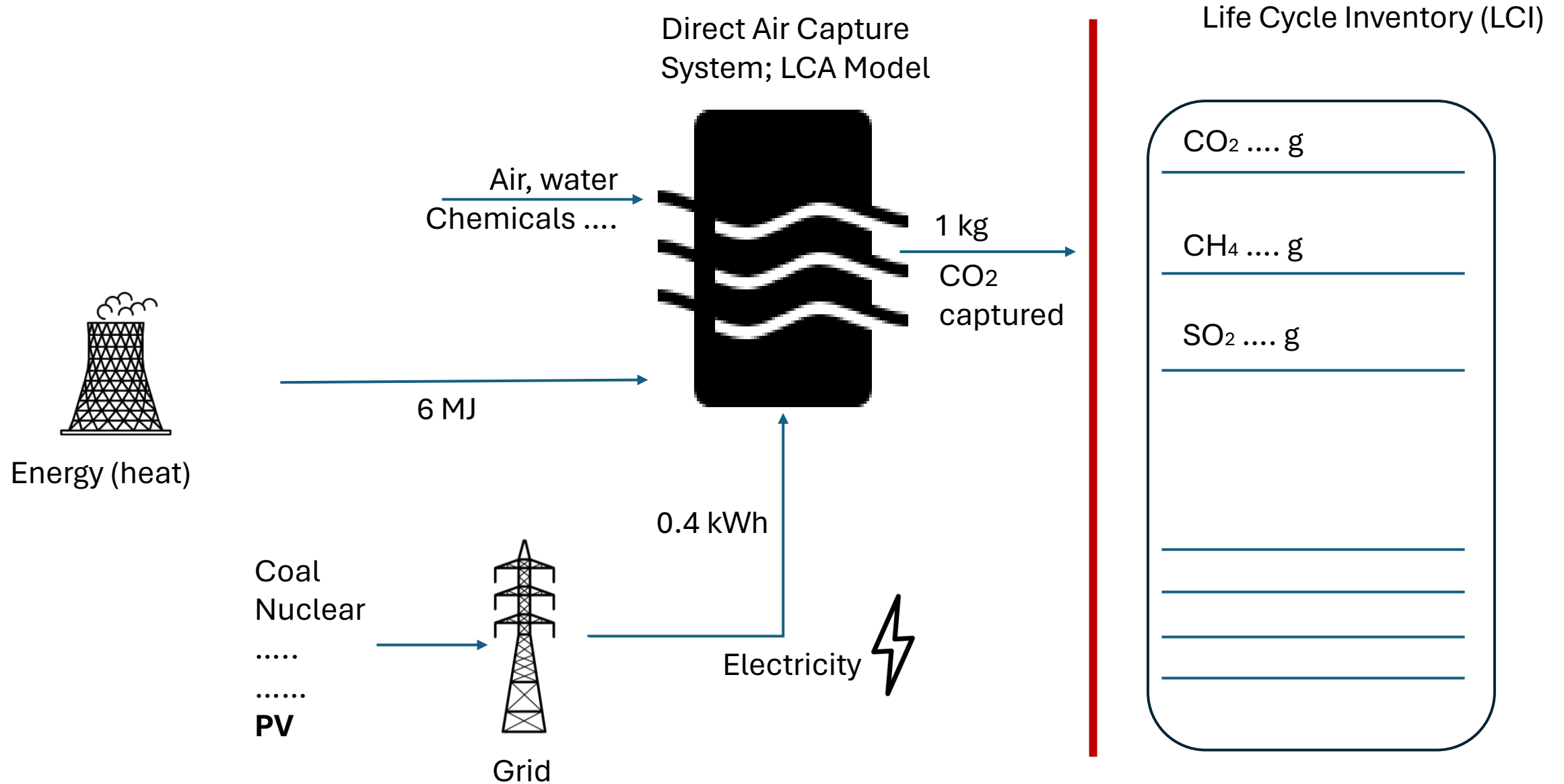
**2** Once in the system, the air passes through an adsorbent, such as an amine, that “grabs” the carbon dioxide molecules from the air.

**3** The air is sent back into the atmosphere.

**4** The carbon dioxide that has been removed is then either sequestered deep underground or used for other materials, such as concrete or fuels.



# Single life cycle inventory of DAC product system



# Prospective life cycle inventory of DAC product system

