

# THE BASICS OF CARBON MANAGEMENT



## CAPTURE



Carbon Dioxide (CO<sub>2</sub>) is captured in one of two ways. Either it is **captured in emissions from a power or industrial facility before it is able to enter into the atmosphere**, or it is pulled directly out of the air through a process called Direct Air Capture (DAC).

## TRANSPORT



Once CO<sub>2</sub> is captured, it's compressed and transported to geologic formations for permanent storage OR to facilities where it can be converted for beneficial re-use. **Over 5,000 miles of carbon pipelines operate in the US to carry CO<sub>2</sub> long distances** while tanker trucks also transport CO<sub>2</sub> short distances.

## REUSE



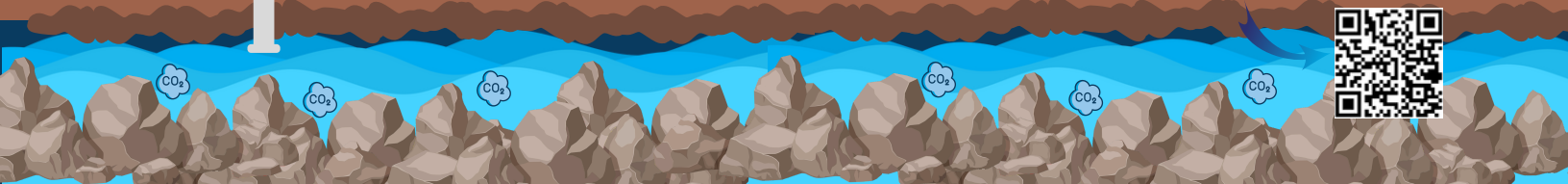
After being captured and transported, **carbon can be used as a building block to produce fuels, chemicals, materials or products such as plastic or concrete with a reduced impact on the environment.** The market is expanding as new innovations find uses for captured CO<sub>2</sub>.

## STORAGE



Safe, permanent storage of captured CO<sub>2</sub> occurs in **deep geologic formations at least half a mile to sometimes more than two miles below the surface.** These storage wells are usually saline formations and depleted oil and gas fields. Over time, CO<sub>2</sub> is able to return to its natural state far below the surface of the earth.

LEARN MORE!



# 5 BENEFITS OF CARBON MANAGEMENT



**Carbon Action Alliance**



## Decarbonizing our Economy

Carbon management can advance the full decarbonization of critical industries. This includes cement and steel, which alone account for roughly 12% of global emissions.

## Meeting Midcentury Goals

Carbon management is necessary to meet midcentury climate goals and keeping average global temperatures from rising more than two degree Celsius.



## Increasing Clean Energy

Carbon capture can lead to cost-effective, low-carbon hydrogen production. It also helps to decarbonize the production of renewable energy infrastructure.

## Improving Air Quality

Implementing carbon management can lead to additional air quality benefits for nearby communities by removing other pollutants in addition to CO<sub>2</sub>.



## Creating and Saving Jobs

Carbon management helps to create and retain high-wage jobs in the power and industrial sectors while protecting valuable economic assets in productive use.

