

# CARBON CAPTURE AND STORAGE

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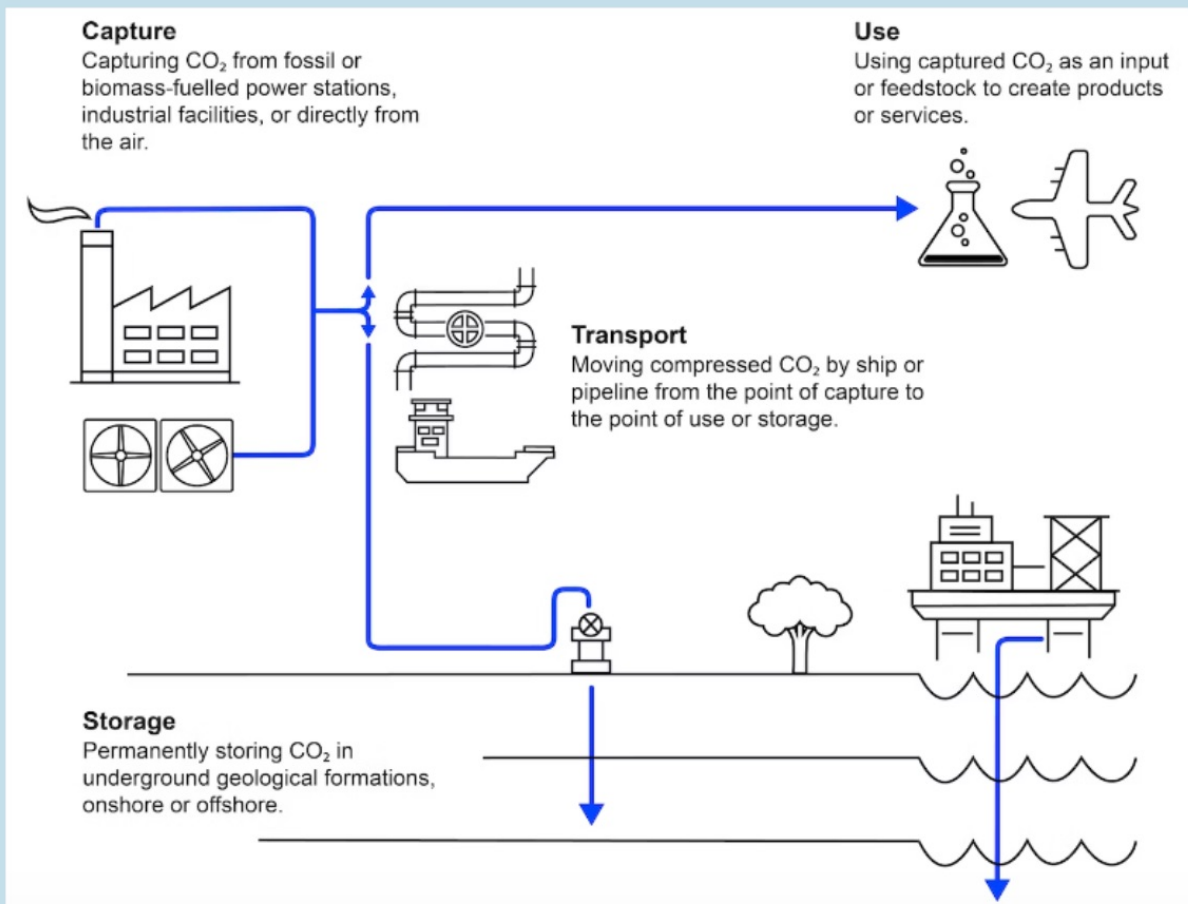


## WHAT IS CARBON CAPTURE AND STORAGE (CCS)?

CCS (sometimes called Carbon Capture Utilization and Storage or CCUS) is the process in which carbon dioxide (CO<sub>2</sub>) is captured from power plants and transported for use or storage. Most CO<sub>2</sub> from CCS becomes used in "Enhanced Oil Recovery" (EOR) which, more simply, means additional production and the continuation of fossil fuel usage.



AS MANY AS 85% OF CCS PROJECTS IN THE U.S. GO TO ENHANCED OIL RECOVERY



Using resources, time, and energy to power the CCS process redirects from the important work of ending reliance on fossil fuels and turning to renewable, truly clean energy.

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## ASSOCIATED RISKS AND DANGERS OF CCS/CCUS

### Highly Ineffective, but Extremely Costly

CCS projects are incredibly expensive, relying on both public and private funding. However, they have very little success.

**Ex:** Mississippi coal CCS project cost \$7.5B, eventually cancelled and replaced with fossil fuels and no CCS

**Ex:** Recent Illinois plant received \$281M in gov't funding, only captured 10-12% of emissions



A CO<sub>2</sub> pipeline rupture in Santartia, Mississippi in February 2020, released 30,000 barrels of liquid CO<sub>2</sub> and led 200 people to be evacuated and 45 people to seek medical attention

Source: Yazoo County Emergency Management Agency

### Health, Safety, and Environmental Risks

CCS comes with several serious risks including:

- Contamination of ground water/drinking water
- Migration of carbon from injection site
- Cracks/fissures in the earth where injected
- Injection well explosions
- Can lead to asphyxiation (i.e. choking) where people breathe in carbon that has leaked from storage/transport
- Pipeline rupturing and explosions

**The long story, short:** Carbon Capture and Storage (CCS or CCUS) is an ineffective, false solution to the problem of air pollution, reliance on fossil fuels, and climate change. Not only are we wasting precious time and resources when we invest in this technology, but given that these projects are often sited in EJ Communities, we are directly allowing our vulnerable frontline communities to become a sacrifice zone.