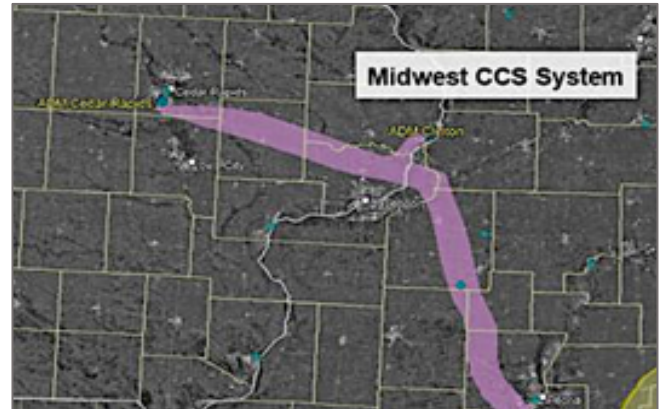


## Is Carbon Capture & Storage (CCS) a Solution to the Climate Crisis?

Three companies seek to build thousands of miles of CCS pipelines across the Midwest to capture carbon dioxide (CO<sub>2</sub>) and transport it to underground storage sites. One of these pipelines will go through Scott County, IA and Black Hawk County, IL.



Proposed CO<sub>2</sub> pipelines in the Midwest



New proposed CO<sub>2</sub> pipeline that will go through the Quad Cities

### What do we know about CCS?

- CO<sub>2</sub> generated must be processed to remove other co-pollutants prior to transport. To capture each metric ton of CO<sub>2</sub>, up to 3,000 metric tons of hazardous waste can be generated.
- CO<sub>2</sub> must be compressed into liquid form to be transported. Such a process requires a significant amount of energy. The increased energy production to support CCS will increase the emission of greenhouse gases, toxic air pollutants, and hazardous wastes.
- The rupture or break of a highly pressurized pipeline can result in an explosion. On February 22, 2020, a CO<sub>2</sub> pipeline in Mississippi collapsed and exploded; it resulted in the hospitalization of 46 residents and evacuation of over 300 people.  
<https://weather.com/news/news/2020-02-23-yazoo-mississippi-ruptured-gas-line-evacuations>
- CO<sub>2</sub> is an acidic gas; it forms a corrosive acid in the presence of water. A pipeline leak can acidify ground water or surface water.
- CO<sub>2</sub> is not classified as a toxic gas, but it can cause asphyxiation by depleting oxygen in the air.
  - A pipeline leak can kill all the living organisms at the site.
  - Gas-powered emergency response vehicles/equipment require oxygen to operate and will cease to function when there is a high level of CO<sub>2</sub>.

**Is CCS a feasible solution to the climate crisis?** CCS is not a climate solution; it increases energy usage. Currently, there is no requirement to monitor CO<sub>2</sub> leakage at the storage sites. When not properly managed, CCS can cause significant damage to the environment. We must end our dependence on fossil fuels and invest in **REAL** climate solutions like alternate energy, battery storage, energy conservation, and efficiency.