

CARBON CAPTURE AND RENEWABLE ENERGY

CARBON MANAGEMENT CAN BE OUR BRIDGE TO A CLEANER FUTURE

Increasing renewable energy is key to reducing the effects of climate change and securing a better, cleaner future. Carbon capture can help advance the development of renewable energy infrastructure and make it as carbon-neutral as possible.



WIND TURBINES

An average of 3,000 wind turbines are produced in the US each year. By capturing carbon dioxide (CO₂) at steel manufacturing plants, we could reduce CO₂ emissions from turbine production by up to 300,000 tons annually.

SOLAR POWER

Solar panels are about 75% glass and 10% plastic. Carbon management technology allows us to capture CO₂ before it goes into the atmosphere and use it to actually make glass and plastic used to build new solar panels.



HYDRO-ELECTRIC POWER

Large hydroelectric dams use the power of water to provide clean, renewable energy. Producing the amount of concrete needed to construct a large dam can emit thousands of tons of CO₂. Capturing CO₂ at cement factories could help cut those CO₂ emissions in half.

ELECTRIC VEHICLES

Electric vehicles provide a pathway to a cleaner future. The current process of developing an Electric Vehicle (EV) battery, especially mining and refining needed minerals, results in a few tons of CO₂ emissions for each battery produced. However, studies show that using carbon capture along with other strategies can help reduce CO₂ emissions in EV battery production by up to 25%, helping make this important technology even cleaner.

