

# NETL Partners with GE To Test Its Novel DAC Sorbent at Pilot Scale

*NETL researchers are working with multiple industry partners to commercialize DAC sorbents including large partners such as GE and smaller startups like Nuxsen, all focused on advanced materials development.*



NETL's low-cost durable DAC sorbent with high selectivity and adsorption capacity for CO<sub>2</sub>.

NETL and GE Research have introduced the AIR2CO<sub>2</sub> system as a groundbreaking tool for low-cost direct air capture (DAC) of greenhouse gas. The unique features and improvements include:

- Improved cost and energy efficiency.
- Minimal pressure drop.
- High capacity of up to 2.8 mmol CO<sub>2</sub>/g-sorbent.
- Rapid sorption times.
- Robust performance tested in cyclability studies.
- Modular and scalable design, currently up to 1 kg CO<sub>2</sub>/day.

Overall, AIR2CO<sub>2</sub> sets a new standard for DAC technology, offering unparalleled efficiency, affordability and sustainability compared to existing alternatives.

DOE PROGRAM

**Carbon Dioxide  
Removal**

NETL PARTNER



**GE VERNOVA**