

# FOUR REGIONAL INITIATIVES EXPAND THE CARBON STORAGE INDUSTRY

Setting the stage for reliable storage and transport to meet goals for a net-zero carbon economy.

## FROM STATE TO SITE: ACCELERATING DEPLOYMENT AND INTEGRATION OF COMMERCIAL CARBON CAPTURE, UTILIZATION, AND STORAGE

The Regional Initiatives, as successors of the original Regional Carbon Sequestration Partnerships (RCSPs), offer the opportunity to leverage their established stakeholder networks, long history in best practice development, wealth of data to support further research, and experience in public outreach and education.



## TACKLING CHALLENGES TO PAVE THE WAY FOR CCUS IN THE REGION

### Technical Challenges

- Geologic Characterization
- Storage Performance and Optimization
- MVA Strategies
- Risk Management

### Facilitate Data Collection, Sharing, and Analysis

- Risk Assessment Validation
- Machine Learning
- Focused Collaboration Among State Geologic Surveys

### Evaluate Existing Regional Infrastructure

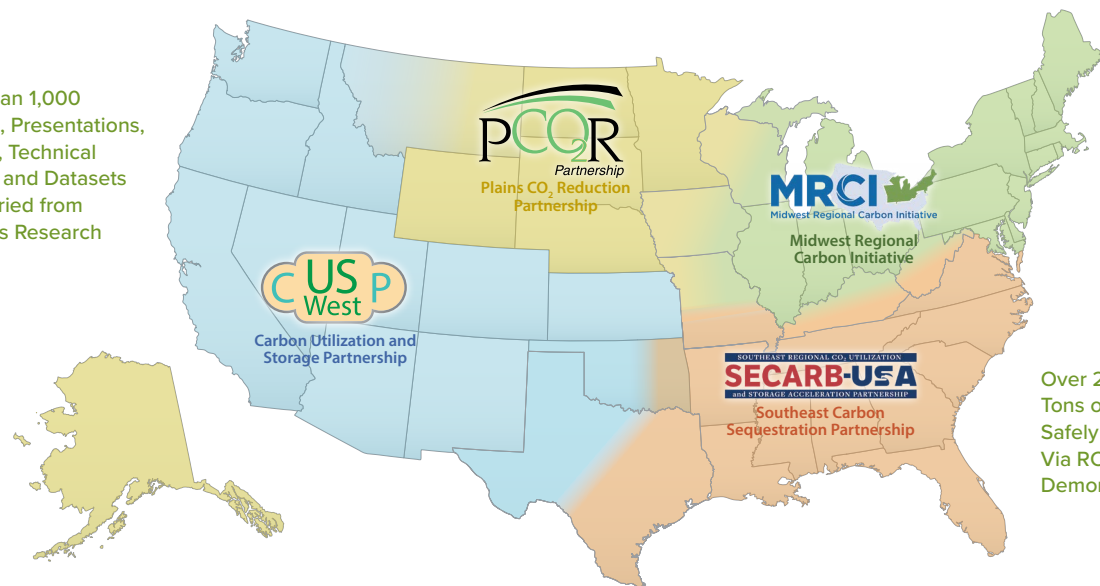
- Techno-Economic Analysis
- Infrastructure Scale-Up Challenges
- Socioeconomic Impacts
- Industry Outreach

### Non-technical Challenges

- Policy and Regulatory Challenges
- Business Models
- Pathways to Commercial Deployment
- Public Outreach

## SEVEN RCSPS TRANSITION TO FOUR REGIONAL INITIATIVES: A SOLID FOUNDATION FOR FUTURE WORK

More than 1,000 Reports, Presentations, Posters, Technical Papers, and Datasets Inventoried from Previous Research



Over 21 Million Metric Tons of CO<sub>2</sub> Have Been Safely and Securely Stored Via RCSPs and Major Demonstration Projects

## JUMPSTARTING REGIONAL CCUS THROUGH CONSULTING PRACTICES AND INDUSTRY ENGAGEMENT

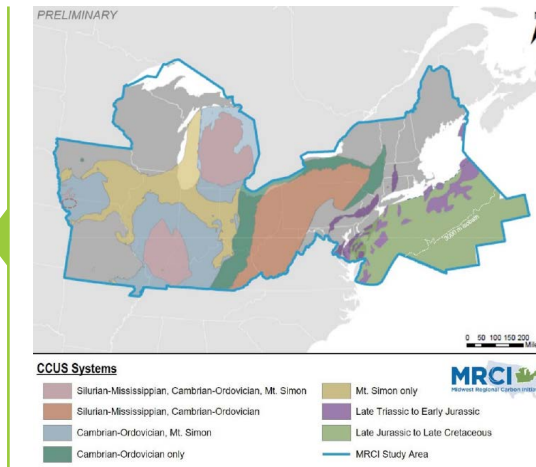
Regional Initiatives are supporting the nation's CO<sub>2</sub> storage resource potential and CCUS business cases and opportunities relevant to the regions they represent, as well as nationally. They are providing technical know-how to project developers seeking high-potential storage sites:

- Currently assisting at least 20 (MRCI), 35 (PCOR), and 13 (CUSP) potential large-scale storage projects.
- SECARB-USA has held 51 technical assistance and stakeholder interest meetings in Q2 alone.

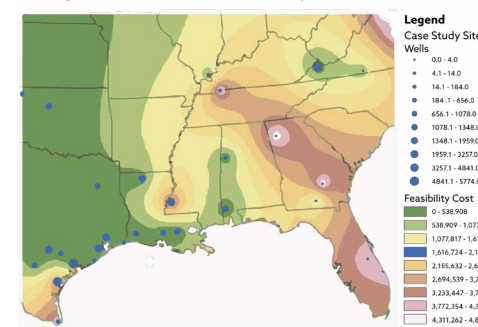
## LAYING THE CORNERSTONES OF STORAGE HUBS

Regional Initiatives are providing information needed to fill the cost and performance knowledge gaps for launching the carbon storage industry by 2025 and beyond.

MRCI Completed a Preliminary Assessment of Geologic Provinces and Basins in the Northeast; Preeminent Geologic Locations Were Identified



Regional Distribution of the Feasibility Investment Gate Costs



SECARB-USA is Working Alongside Southern Company, and Others, to Identify Potential Storage Hub Sites in the Southeast

## FUNDING OPPORTUNITY ANNOUNCEMENT #: DE-FOA-2000

### PROJECT BUDGET

TOTAL FUNDING



- DOE\* ..... \$48,314,554
- PERFORMER..... \$ 19,894,463

\*CUSP and SECARB-USA are each scheduled to receive an additional ~\$5 million DOE funds in early FY22

### CONTACTS

- HQ PROGRAM MANAGER **DARIN DAMIANI**
- TECHNOLOGY MANAGER **MARK MCKOY**
- FEDERAL PROJECT MANAGER **WILLIAM ALJOE**
- CONTRACTING OFFICERS **ROBERT BALCH**, **NEERAJ GUPTA**, **SALLIE GREENBERG**, **KEVIN CONNORS**, **KEN NEMETH**, **KIMBERLY SAMS-GRAY**, **PATRICIA BERRY**, **BENJAMIN WERNETTE**

### FECM RDD&D PRIORITIES

- DEMONSTRATE AND DEPLOY POINT-SOURCE CARBON CAPTURE
- INVEST IN THOUGHTFUL TRANSITION STRATEGIES

### LEAD PARTNERS

