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# Washington Policymaker Attitudes Towards CCS

Southern States Energy Board  
Stakeholder Meeting

Jeffrey Bobeck  
March 9 2017



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## OUR MISSION IS TO ACCELERATE THE GLOBAL DEPLOYMENT OF CCS

### The Institute strives to:

- Build policy support for CCS
- Increase commercial opportunities for CCS
- Improve public understanding and acceptance of CCS

### The Institute Membership Includes:

- Industry
- NGOs
- Eight National Governments and Two Canadian Provinces





# Members in the Americas

## Industry

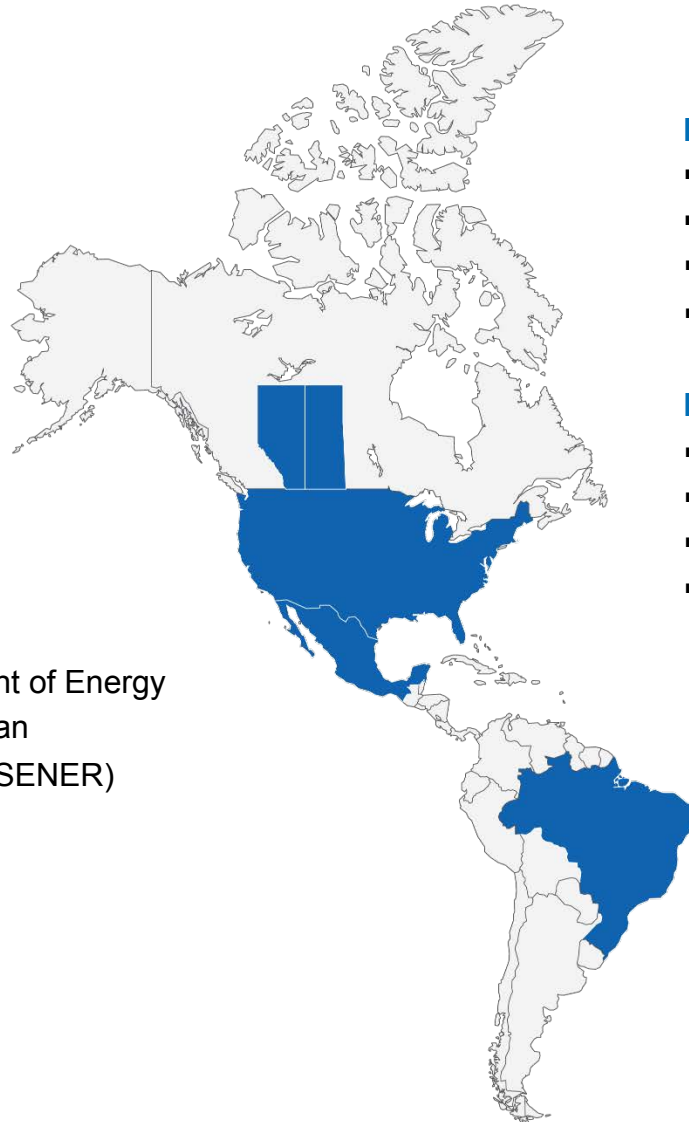
- Archer Daniels Midland
- Arch Coal
- ExxonMobil
- Jupiter Oxygen
- NETPower
- Occidental Petroleum
- Shell
- Southern Company

## Government

- Province of Alberta
- United States Department of Energy
- Province of Saskatchewan
- Government of Mexico (SENER)

## ENGOS

- Clean Air Task Force
- ClearPath
- Great Plains Institute



## Research Organizations

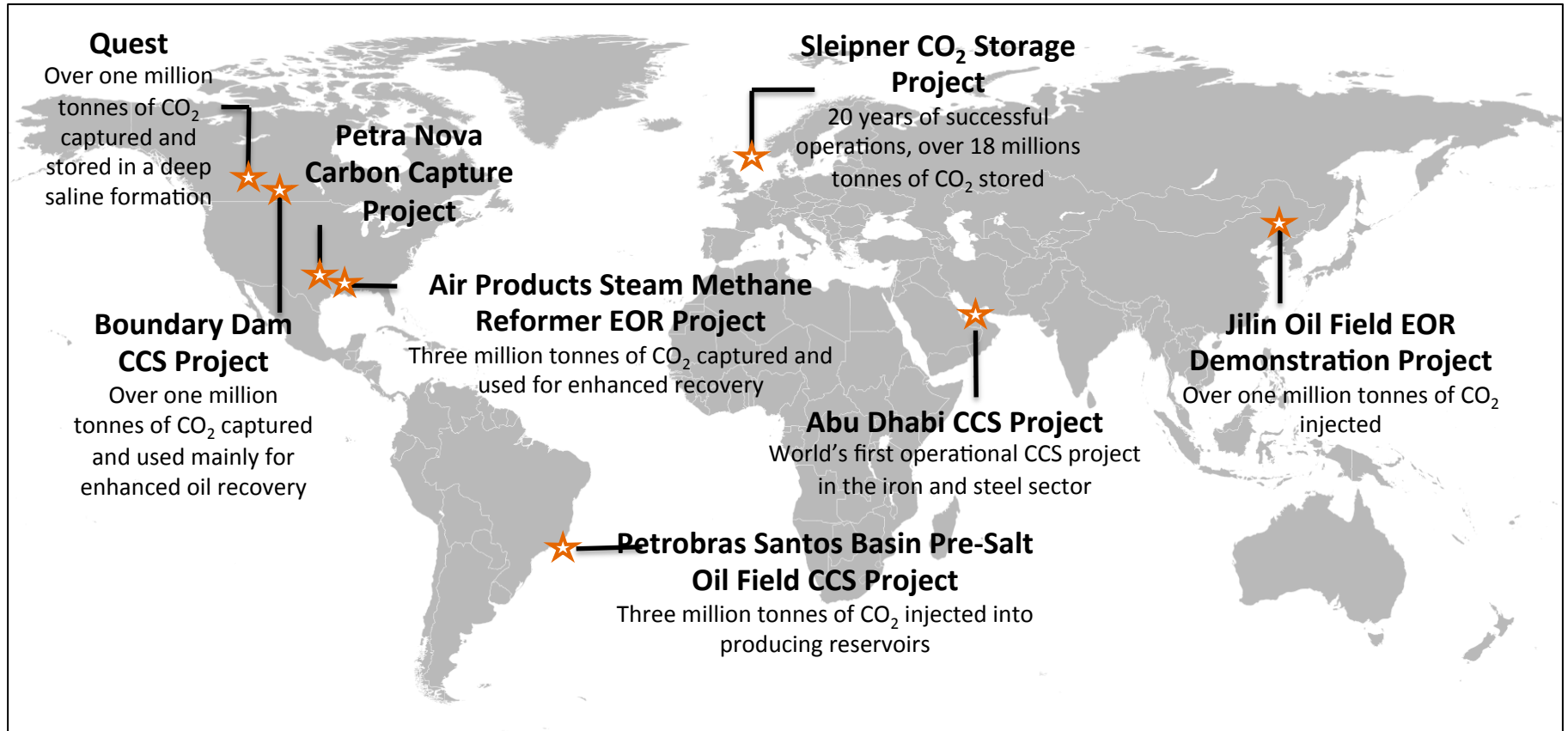
- Battelle
- Electric Power Research Institute
- Canadian Clean Power Coalition
- Petroleum Technology Research Centre

## Industry Associations

- Brazil Coal Association
- CCS Alliance
- **Southern States Energy Board**
- United States Energy Association

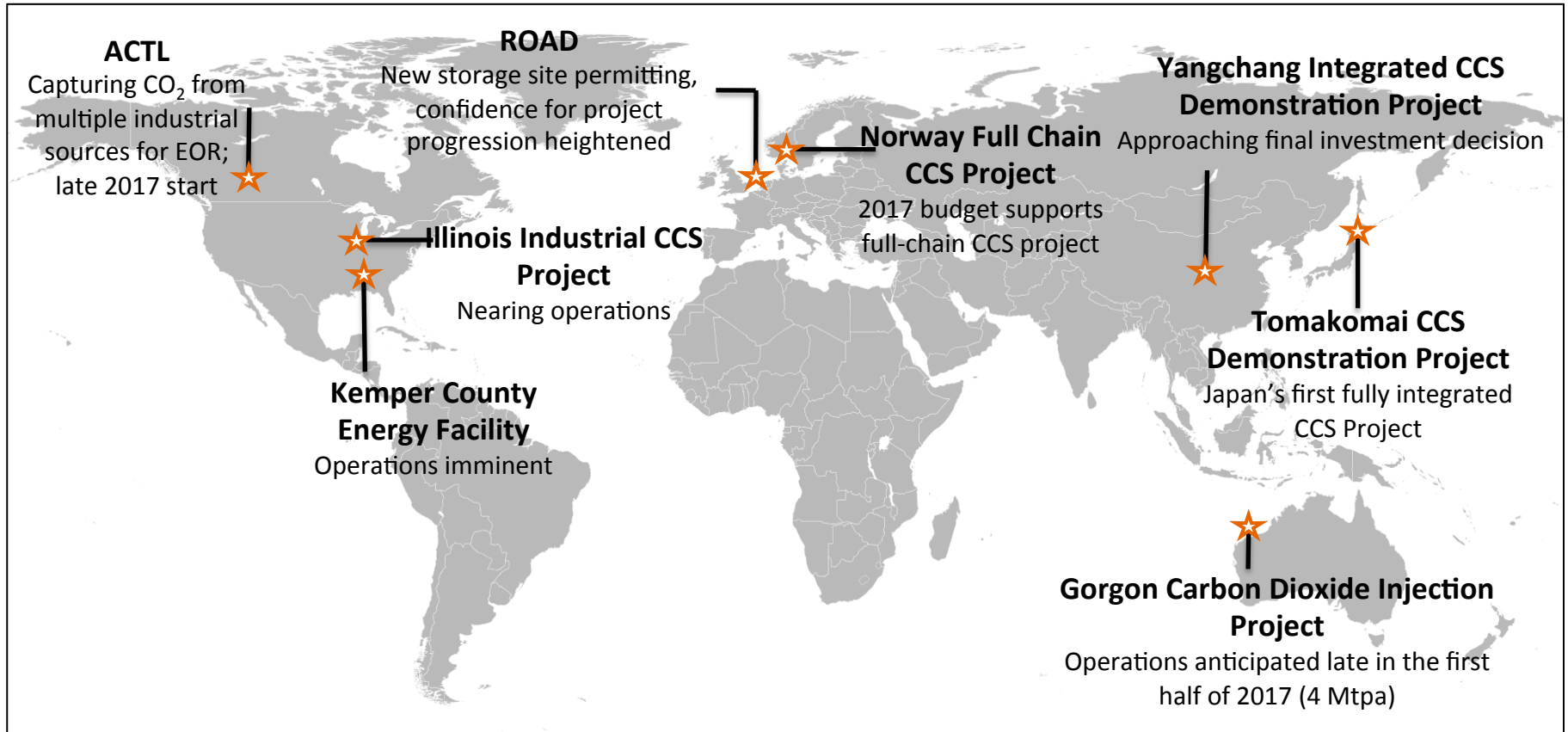


# Carbon Capture Operational Milestones





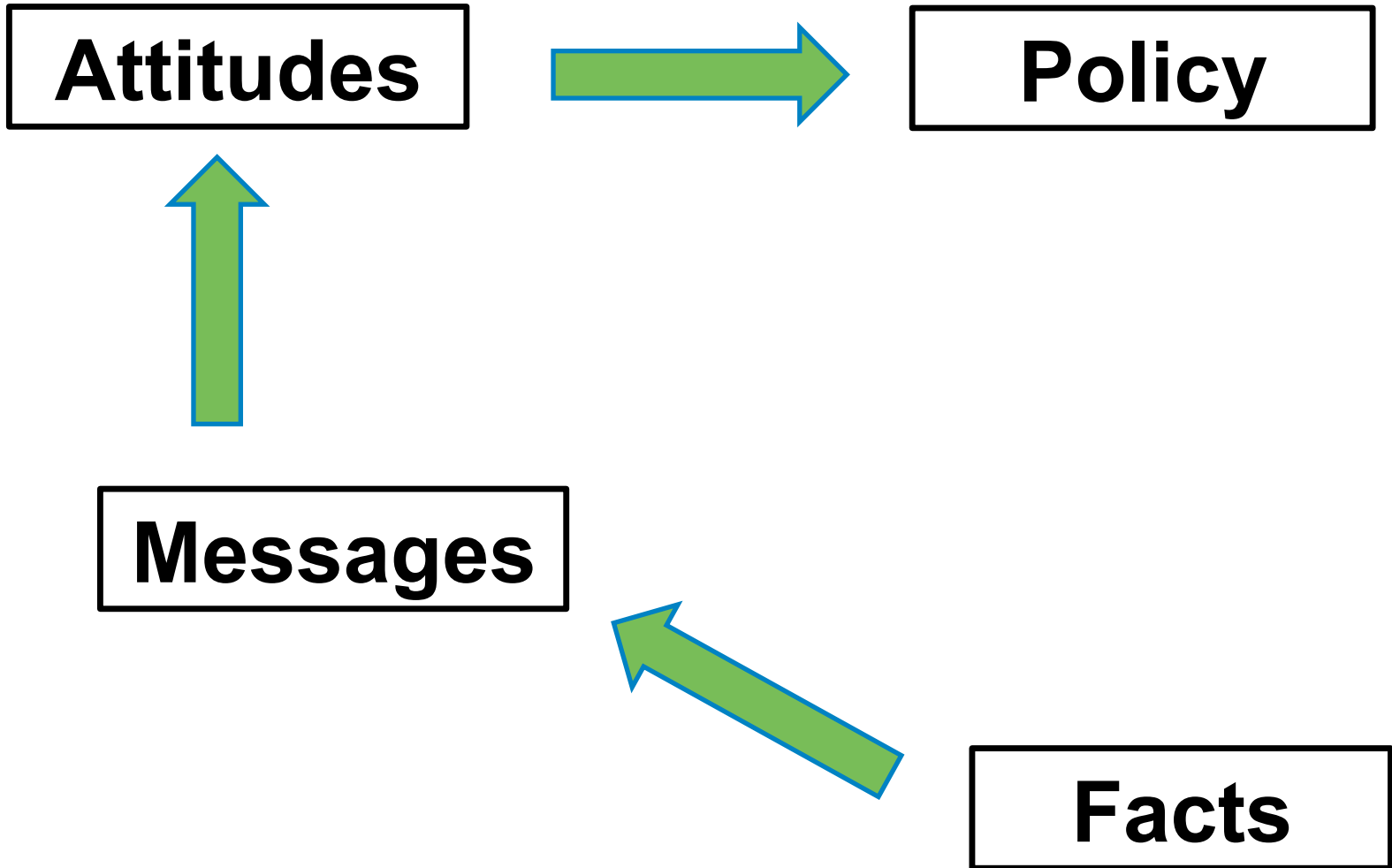
# Carbon Capture Project Startups





# Influence and Impact

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# Institute Congressional Attitudes Project

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## **Test Awareness and Attitudes Towards:**

- Carbon Capture
- Climate Policy
- Future of Energy

## **Methodology:**

- Audience: Congressional Staff and Influencers
- Two Congressional Staff Focus Groups
- 100 30-Question Interviews divided D/R, Regionally

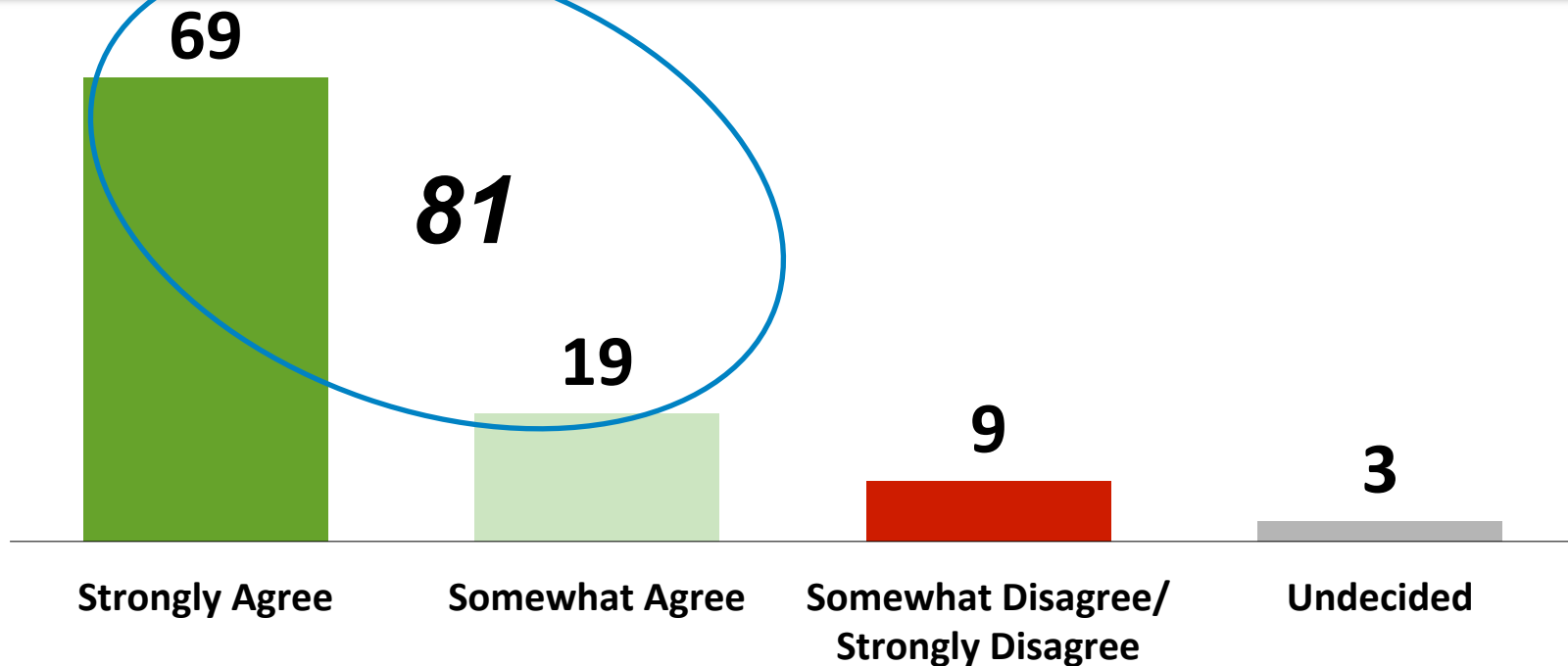
*Preliminary Results, Feb. 8, 2017*



## The “Business Case” vs. the Paris Agreement

**Q:**

*Whether or not one supports U.S. adherence to the Paris Agreement, the world is moving toward a lower-carbon economy. Therefore, the U.S. should still actively pursue lower-carbon technologies, or risk falling behind the rest of the world.*

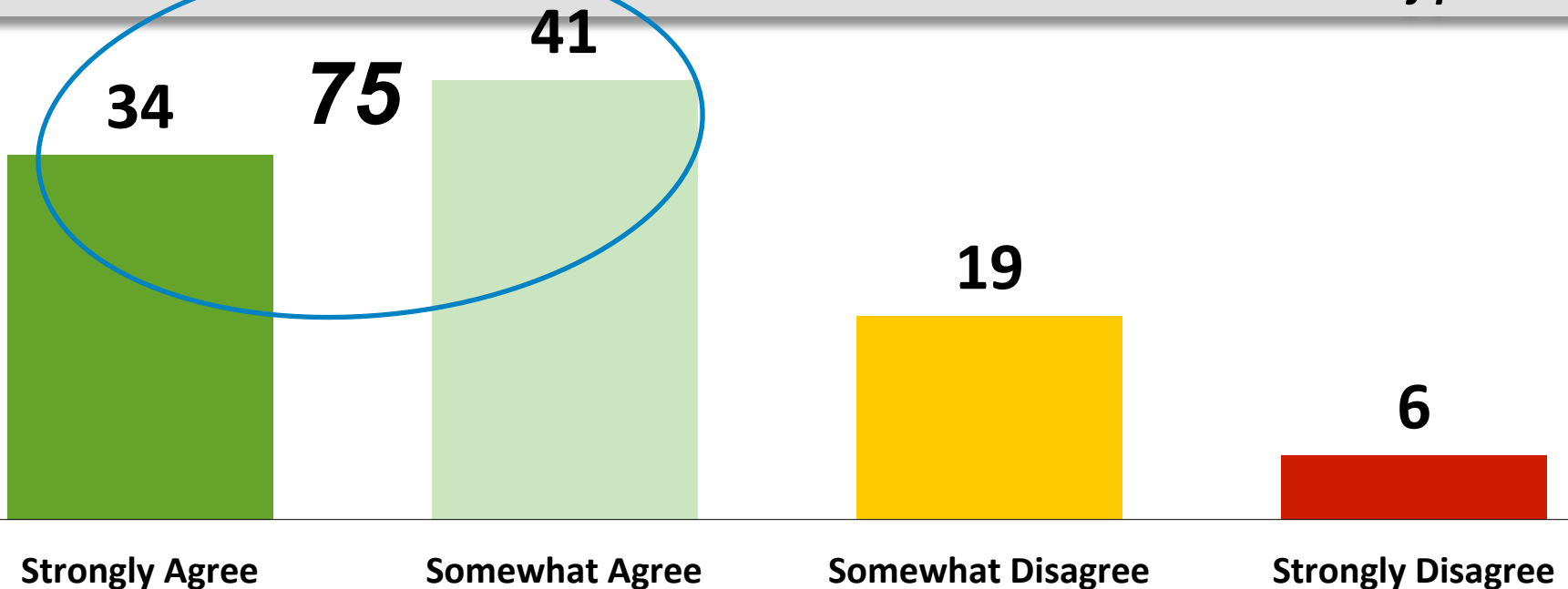


**Strong support exists for pursuing the low-carbon economy, for business and competitiveness reasons.**



## Are Fossil Fuels “Here to Stay?”

**Q:** *Despite significant increases in energy efficiency and renewables, the world currently derives more than three-fourths of its total energy demand from fossil fuels. Even with aggressive political, financial, and scientific support for clean energy, fossil fuels will continue to be a major source of power.*

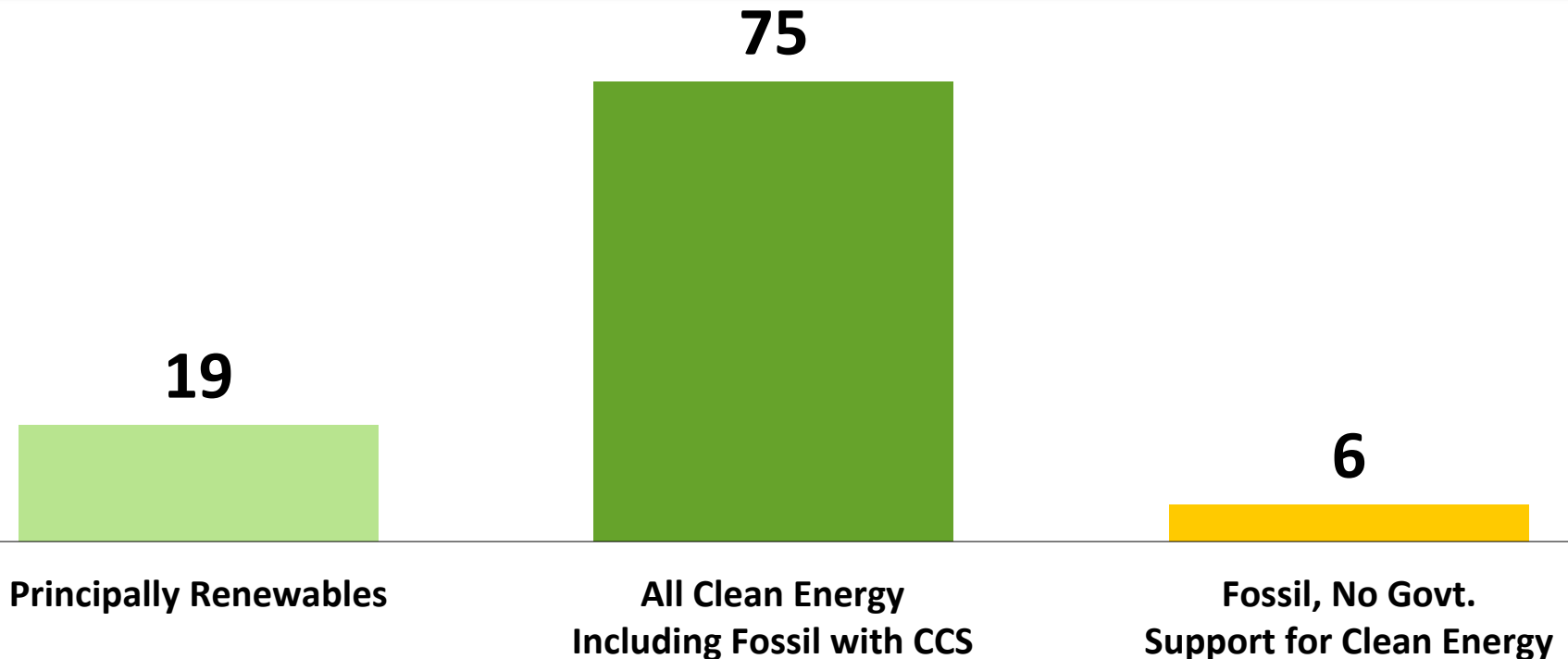


**A strong majority expect fossil fuels will continue to be with us in the future.**



## What is Power Generation's Future?

**Q:** *Do you believe the future of electric power lies with renewables (wind and solar), a broader array of clean energy options (including nuclear, fossil fuels with CCS, along with renewables), or fossil fuels with no government support for clean energy?*

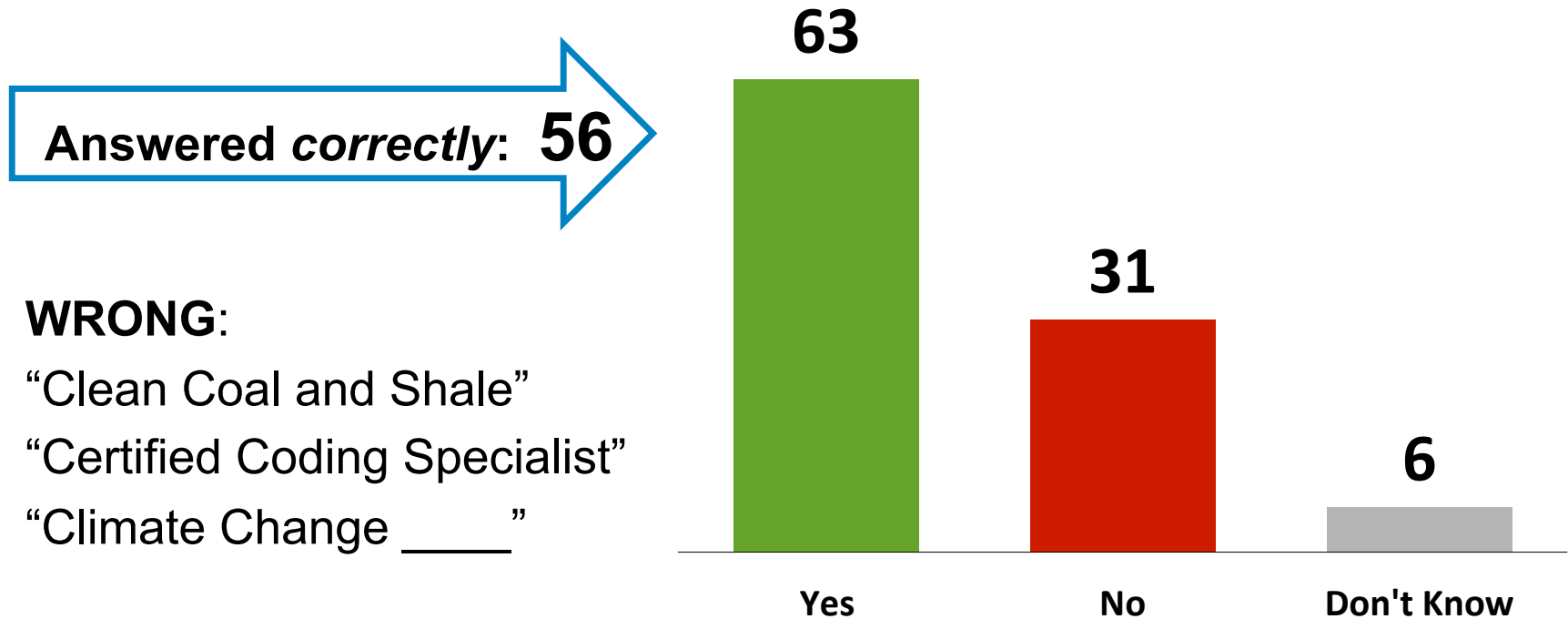


**A strong majority expects “all of the above.”**



## What is “CCS”?

**Q:** *Changing topics, are you familiar with the term CCS?*

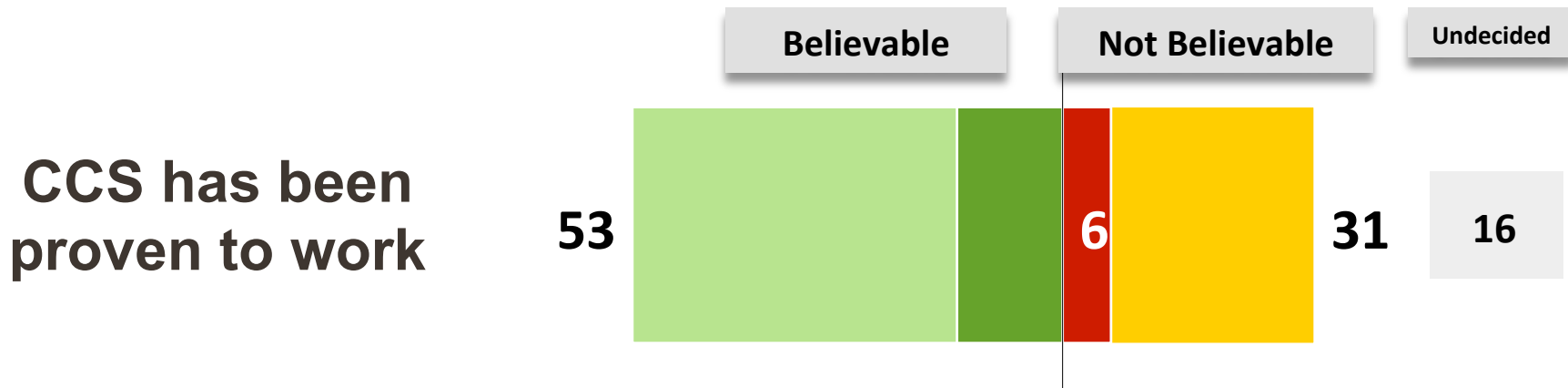


**“CCS” is not a popularly recognized term.**



## Does CCS “work”?

**Q:** *Please rate how believable you find the following statements about carbon capture and storage (CCS).*



*“I’ve been on the Hill for 10 years, and they’ve been saying CCS was ‘almost there’ since I started.”*

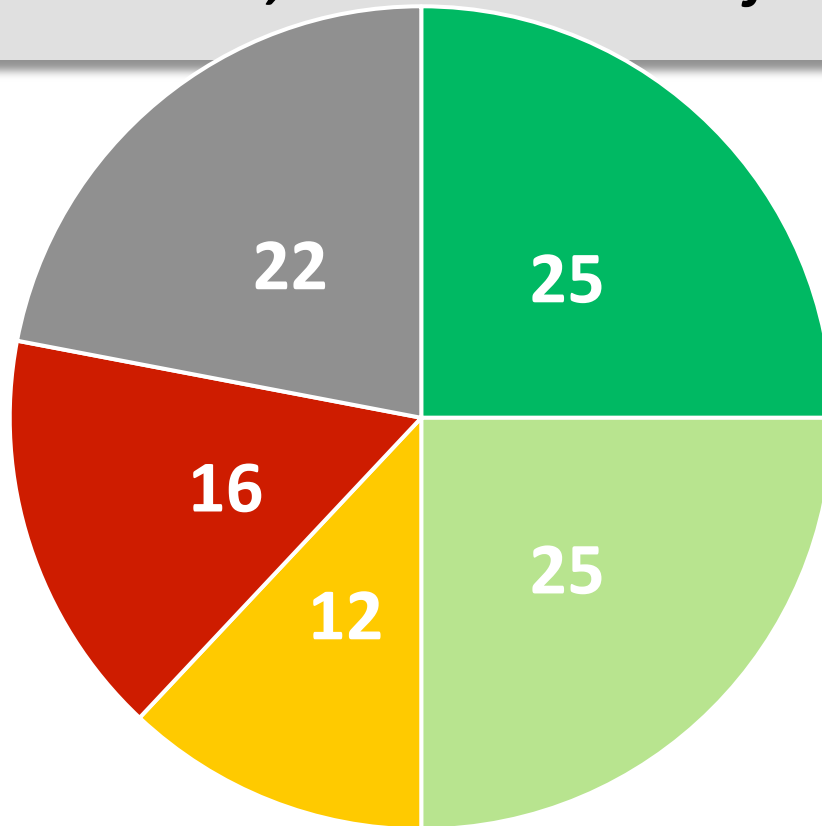
**A slim majority believe CCS “works,” but a significant number remain unsure.**



## Is CCS “safe?”

**Q:**

*Do you believe CCS is safe? On a scale of 0 to 10 scale, where 0 is not safe at all and 10 is definitely safe.*



Rate 10   7-9   4-6   0-3   Not sure

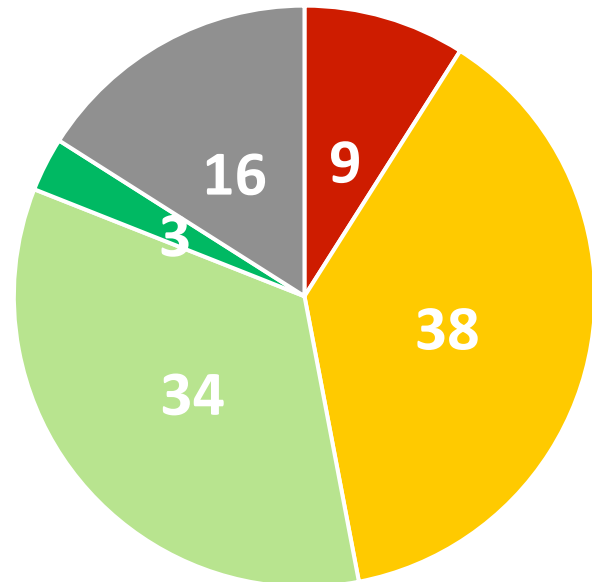
**Half of respondents think CCS is “safe,” nearly a quarter aren’t sure.**



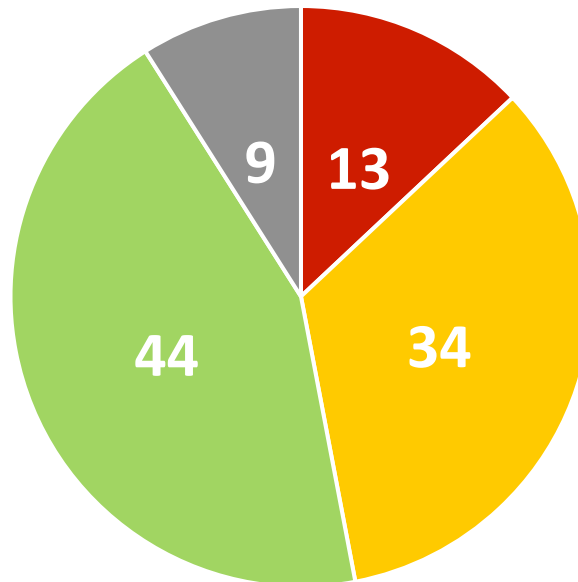
## Concerns about specific safety issues

**Q:** *Please indicate to what degree you believe each of the following activities associated with carbon capture pose a risk to the environment or public health.*

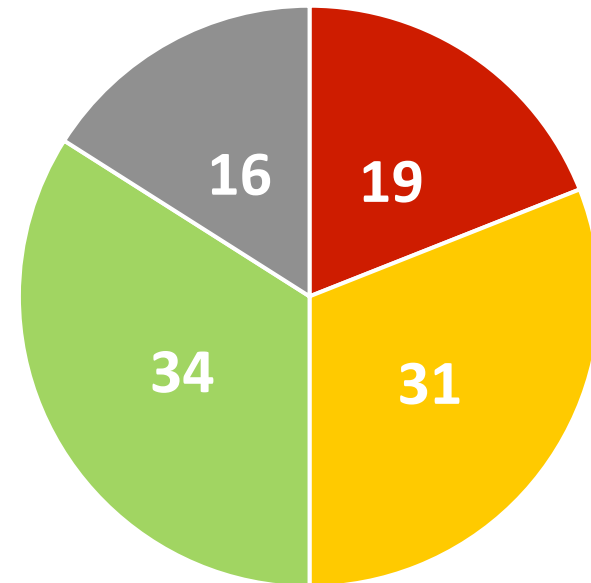
CO2 injection could lead to seismic activity



CO2 transportation pipelines could leak



CO2 could leak into the atmosphere after being stored underground

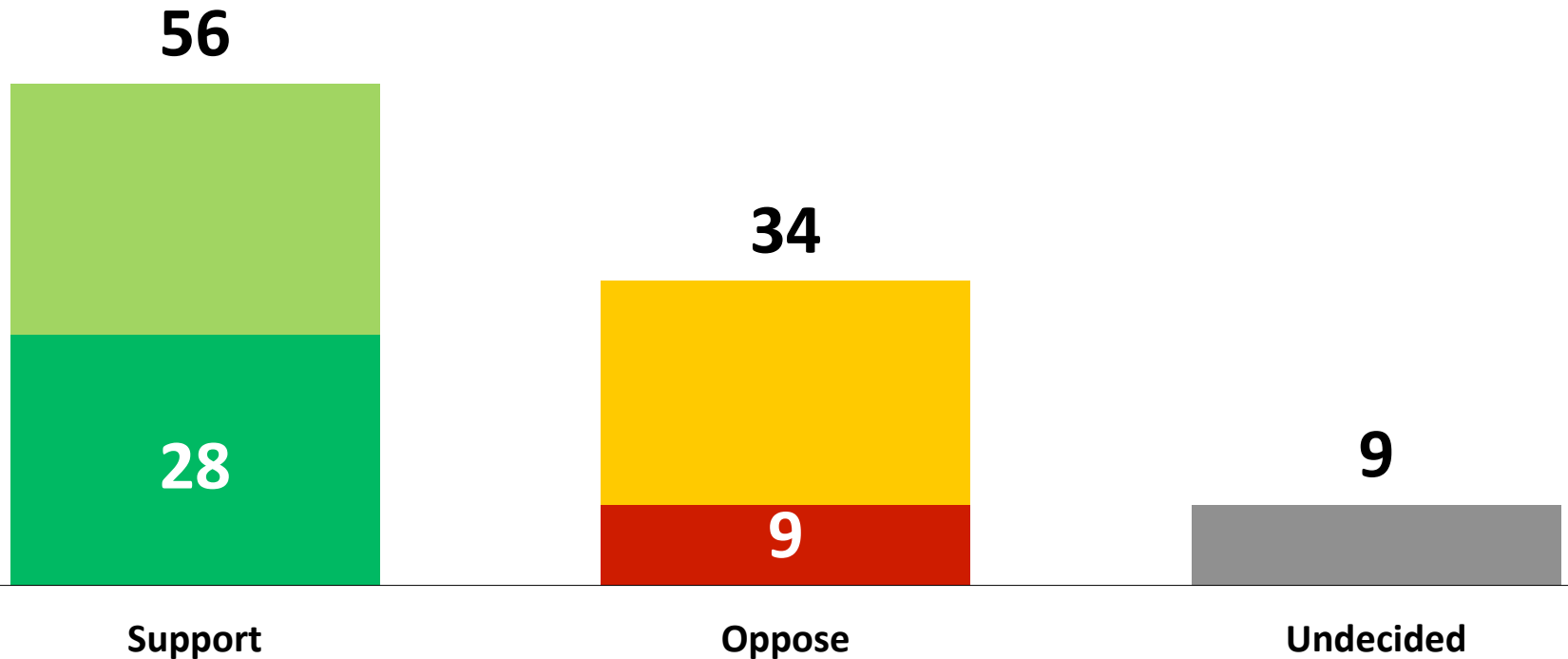


High risk    Medium Risk    Low risk    No Risk    Uncertain



## Should the U.S. promote CCS through the tax code?

**Q:** *Some believe the current federal tax credit for carbon storage has been essential to the construction of carbon capture facilities during the past decade. Do you support extending that tax credit?*



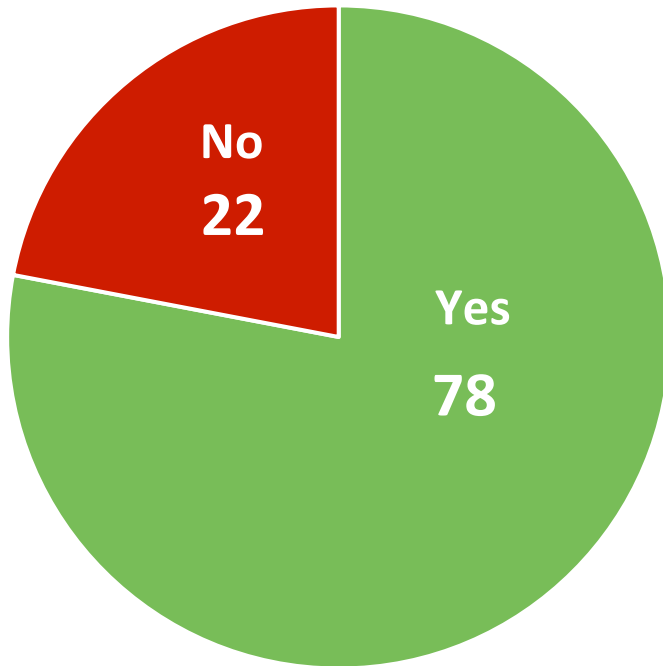
**There is narrow support for a carbon storage tax credit, but intensity is weak.**



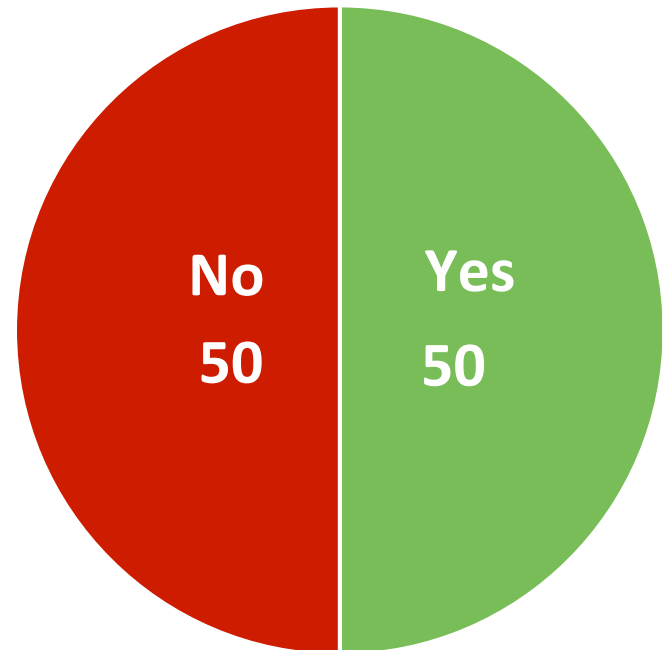
## What is the fate of energy tax credits if tax reform advances?

There has been talk of a major tax reform bill. Some have proposed reducing the corporate tax while eliminating business tax credits, including energy-related tax credits.

*Do you believe tax reform bill will reach either floor of Congress during this session?*



*Do you expect tax reform might eliminate most energy-related tax credits?*





# Other Congressional Focus Group Insights

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## Investment

*“Why should we be wasting taxpayer dollars if the private sector is not supporting CCS with investment?”*

## Jobs

*“Everybody talks about ‘job creation.’ But jobs is only a good argument if you can show them, not just promise them.”*



## Advocates for CCS should:

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- Lead with demonstrating that **CCS “works.”**
- Be proactive in confronting all aspects of the **safety of CCS.**
- Make the “**business case**” for a low-carbon economy that includes CCS.
- Emphasize the **private sector commitment to investing.**
- Be specific and realistic about **job creation:**  
Where, when, and how much.

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