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# ADVANCING CCS IN HOUSTON

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DOE: Models for Deployment of CCUS Hubs September 30, 2021

### HOUSTON CARBON CAPTURE AND STORAGE HUB CONCEPT

### SCOPE

- CAPTURE CO<sub>2</sub> FROM ~50 LARGE EMITTERS
- ~350 MILES OF CO<sub>2</sub> PIPELINE, USING EXISTING CORRIDORS

### TIMELINE

- 50MTA BY 2030
- 100MTA BY 2040
- SUPPORT CARBON NEUTRAL HOUSTON BY 2050

### APPROACH

CROSS-INDUSTRY COLLABORATION



#### **E**‰onMobil

### POTENTIAL FOR HYDROGEN



### **INDUSTRY COLLABORATION**





## WHAT'S NEEDED

#### Enhance non-EOR CCS Production Tax Credit (45Q)

- Initially increase value to \$100 per metric ton from current \$50
- Extend eligibility period to 30 years from current 12 years
- Eliminate deadline for starting construction

#### Provide financial support for CCS infrastructure

- Provide a \$10 billion grant to help develop infrastructure in Houston by extending current DOE programs beyond RD&D
- Expand DOE Title XVII program to include the deployment of existing CCS technologies at scale
- Amend TIFIA (transportation Infrastructure Finance and Innovation Act) to add CCS projects, or create a program dedicated to CCS

#### Ensure government approval for CO<sub>2</sub> storage

- Specifically allow offshore storage of CO2 from sources other than coal
- Authorize the Bureau of Ocean Energy Management to issue leases, rights of way and pore space



## COMMUNITY BENEFITS OF THE HUB

• Improved air quality

• Jobs & economic impact

### • Position Houston as leader in lower-carbon energy future





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