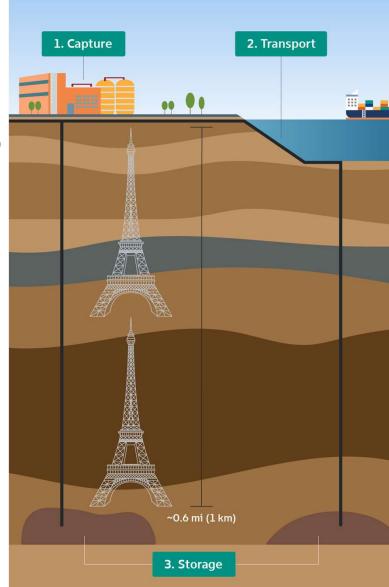
## Houston CCS Alliance March 2023



## What is Carbon Capture & Storage?

- Safe, proven technology
- Reduces industrial carbon dioxide (CO<sub>2</sub>) and greenhouse gas (GHG) emissions
- Captures CO<sub>2</sub> emissions that would otherwise be released into the atmosphere
- Captured CO<sub>2</sub> is transported to a storage site, then injected into deep underground geological formations for storage

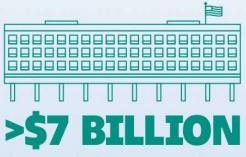


### Safe & Proven

Studies by the UN Intergovernmental Panel on Climate Change & Carnegie Mellon University conclude that:

- Storing CO<sub>2</sub> in geological formations is a safe and viable practice
- CO<sub>2</sub> storage does not pose any major geological threats, including seismic activity





the amount the U.S. Department of Energy has invested in CCS R&D since 1997



## **Federal Support**



Feds Roll Out \$12.1B in Infra Funding for Carbon Capture Tech, Pipelines

By Mary B. Powers, Debra K. Rubin

### **UTILITY DIVE**

DOE to attack CO2 emissions with billions in funding from inflation reduction, infrastructure laws



DOE releases record funding for removing carbon

#### CLEAN AIR CATE TASK FORCE **Carbon Capture and the** Inflation Reduction Act

Which industries benefit from raising 45Q to \$85?

Industry

Hydrogen

Comont

Refinerie

Stool



"This will move carbon capture and storage closer to realizing its potential as a critical decarbonization solution for hard-to-abate industries such as steel, cement, refineries, and power generation." – Clean Air Task Force

## **Houston's Opportunity**

### **40 MILLION** METRIC TONS PER YEAR\*

the annual capture capacity of current CCS facilities around the world

\*Source: International Energy Agency





the amount of CO<sub>2</sub> the Houston region could safely capture and store (instead of releasing into the environment), which is approximately the annual emissions of **two New York Cities**\*\*

\*Source: analysis of data from the U.S. Dept. of Energy (2018) \*\*Source: NYC Mayor's Office of Sustainability



# In addition to significantly reducing CO<sub>2</sub> emissions, deploying CCS technologies will:



Support good-paying jobs associated with existing industries



Continue giving back to the community through volunteering and charitable giving

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Stimulate investments in locally-owned businesses



Provide valuable tax revenue that local communities need to fund education, essential public services, and other community initiatives



Studies show that investing in the development of CCS could support 18,000 jobs while creating \$60+ billion in private investment across Texas (Source: Rhodium Group)



ALLIANCE

### **Our Mission**

- Help decarbonize the Houston area, one of the nation's largest concentrated sources of CO<sub>2</sub>
- Make Houston the model for an emerging, lower-emission world that supports jobs, economic growth, and prosperity



### **Local Support**

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### Sylvester Turner



Houston can achieve our netzero goals by working together, and it's exciting to see so many companies have already come together to talk about making Houston the world leader in carbon capture and storage.

#### **Jane Stricker** Transition Initiative and SVP, Energy ansition, Greater Houston Partnership



Houston has a responsibility and an opportunity to leverage our energy leadership to accelerate global solutions for an energy-abundant, low-carbon future. We see Initiatives like Houston CCS Alliance as crucial opportunities that will help our city achieve this goal.

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### **David Robinson**



Houston has an important responsibility to the world to leverage and lead in the energy transition. With the guiding principles grounded in its "Climate Action Plan" (CAP) and "Resilient Houston" Strategy, our city can build the foundation necessary for a sustainable future.

# Learn more at houstonccs.com

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