

INSTITUTE OF

JOB CREATION THAT DELIVERS ENVIRONMENTAL IMPROVEMENT USING DECARBONIZING TECHNOLOGIES

Government efforts to stimulate economic growth post-COVID 19 create unique opportunities to deliver high-value jobs and decarbonize the environment – while maintaining U.S. leadership in environmental technologies.

Industry stands ready to deploy its proven decarbonizing technologies to select industrial emission sources that represent 4% of total annual U.S. GHG emissions.

Supporting the deployment of these solutions could kickstart necessary private sector investments and drive significant job creation within 12 months.

What can policymakers do right now?

PROVIDE INCENTIVES

De-risk capital investments in deployment of available carbon capture technologies through clear and stable policies and incentives that drive markets.



FOSTER SUCCESSES

Reward repeated projects or demonstrations necessary to improve efficiency and reduce costs of "proven" capture technologies and equipment.



MAINTAIN TECHNOLOGY NEUTRALITY

the most commercially viable decarbonizing technologies (and most compelling for



Capitalize on well-demonstrated, commercially available technologies that reduce emissions from high-concentration CO₂ waste streams (biorefinery ethanol fermentation; ammonia & hydrogen production; natural gas processing).



CO₂ Abatement Potential from Select Industrial Emissions Sources







.2% of current total U.S. CO₂ emissions



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Benefits of decarbonizing technologies for job creation and environmental impact

ECONOMIC

- Create new high-value and skilled workforce jobs (engineering, manufacturing, construction, etc.) within 12 months
- Kickstart industrial-scale manufacturing of carbon capture materials and equipment
- Leverage existing incentives (e.g. 45Q, LCFS) for GHG reduction
- Restore demand for U.S. exports of environmental technologies
- Improve private sector rationale (presence of customer demand) to invest in carbon capture RD&D

ENVIRONMENTAL

- Accelerate GHG reductions and contributes to net-zero goals
- Target industrial sources in the near-term that contribute approximately 4% of total U.S. annual GHG emissions
- Contribute to technology innovations that will support DAC, green hydrogen and other longer-term capture and utilization solutions
- Increase dependable CO2 volumes needed to de-risk pipeline development and financing projects
- Contribute to decarbonization of critical industrial materials (e.g. hydrogen, cement, glass, fuel)



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