



# The Carbon Dioxide Removal Research & Development Act

118<sup>th</sup> Congress

Sponsors: Rep. Paul Tonko (D-NY) & Senator Brian Schatz (HI)

## CO2 removal is an important climate solution

- To address the climate crisis, we must achieve the dual goals of rapidly reducing greenhouse gas emissions **and** removing excess carbon emissions already in the atmosphere.
  - The Intergovernmental Panel on Climate Change (IPCC) recently confirmed this fact, stating that the deployment of carbon dioxide removal (CDR) technologies and processes will be “unavoidable if net zero CO<sub>2</sub> or GHG emissions are to be achieved.”
- The United States stands to be a global leader in CDR due to its vast geological storage potential and technical expertise.
- Carbon dioxide removal can be accomplished through natural and technological means.
  - Both are needed to meet the nation’s climate goals.
- Some carbon dioxide removal technologies remain nascent and expensive.
- Research is needed to realize the full benefits and mitigate any potential risks of CDR to the environment, public health and job creation.

## Congress must take bold action!

A robust United States research initiative to advance CDR technologies has been recommended by the National Academies of Science, Engineering, and Medicine in 2018, the Energy Futures Initiative in 2019, and the House Select Committee on the Climate Crisis in 2022.

**The Carbon Dioxide Removal Research and Development Act translates these frameworks into action** to help the United States lead the world in responsible, science-driven CDR development.

### **The Carbon Dioxide Removal Research and Development Act of 2023:**

- ❖ Launches a 10-year, multi-agency program for carbon dioxide research, development & demonstration.
- ❖ Incorporates diverse and innovative technologies, including direct air capture, biological carbon removal, and ocean-based carbon removal.
- ❖ Establishes and funds a robust research program at the National Science Foundation to ensure that developments in carbon dioxide removal are guided by the best available science and data.
- ❖ Prioritizes holistic social, economic, and environmental considerations to minimize risk and maximize co-benefits to ecosystems and communities.

**We must use every tool at our disposal to meet the challenge of the climate crisis, and carbon removal will be a vital part of this comprehensive approach.**