Getting the Big Picture

Analyzing Federal Funding with EDF’s Climate Innovation Funding Tracker

Natasha Vidangos, Associate Vice President, Innovation and Technology Policy
Innovation is Critical to Solving Climate Change
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...Innovation still plays an important role: about 35% of the CO₂ emission reductions needed... in 2050 come from technologies that are still in development and... have not reached markets at commercial scale.”

IEA(2023)
Innovation is Critical to Solving Climate Change

Improve Performance
Reduce Costs
Improve manufacturing processes
Minimize use of critical resources
Mitigate environmental impacts

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Innovation Requires an Ecosystem

Federal funding is critically important to drive innovation where it is not yet profitable.

We need innovation systems to move faster to address climate challenges.
Big Picture Questions about Climate Innovation

• How much did the Bipartisan Infrastructure Law and Inflation Reduction Act change the levels of climate innovation funding?
• Which sectors receive the most climate innovation funding? The least? Which agencies are involved?
• How much more do we spend on energy efficiency relative to electrification?
• Which DOE offices have programs related to low-carbon fuels?
• How much funding flows is for R&D? For pilots and demonstrations?
About the Climate Innovation Funding Tracker

• A **data visualization tool** to showcase climate innovation funding (for mitigation) across multiple agencies

• Allows users to browse and compare levels of innovation funding across sectors, solutions, innovation stage, funding type, funding source

• Explore funding within agencies down to the budget control point

• View annual estimates of relevant tax credits

• Select among FY21, FY22, FY23

• Export and download Excel dataset
Caveats

- Federal budgets are complex and difficult to compare
- Definitions matter – whether you’re talking about innovation or climate
- Creating apples-to-apples comparisons requires analysis and estimation

**Climate Innovation** | The creation and application of new or enhanced climate solutions through technology, public policy, and investment models.

**Mitigation** | Activities dedicated to the research, development, demonstration, and deployment of technologies and processes to reduce, reuse, or sequester greenhouse gas emissions (e.g., development of clean energy technologies, natural climate solutions and other potential climate solutions).
Coverage

Version 1: focused on three agencies

Fiscal Year 2021

Annual Appropriations

DOE  USDA  DOT
Coverage

Version 2: including BIL/IRA

Fiscal Year 2021

Annual Appropriations

DOE | USDA | DOT

Fiscal Year 2022, 2023

Annual Appropriations

Bipartisan Infrastructure Law (BIL)

DOE | USDA | DOT | EPA | DOI

Inflation Reduction Act (IRA)

CHIPS and Science Act

Farm Bill

Treasury (Tax Credits)
https://innovationtracker.edf.org

See our blog and other “how-to” materials here