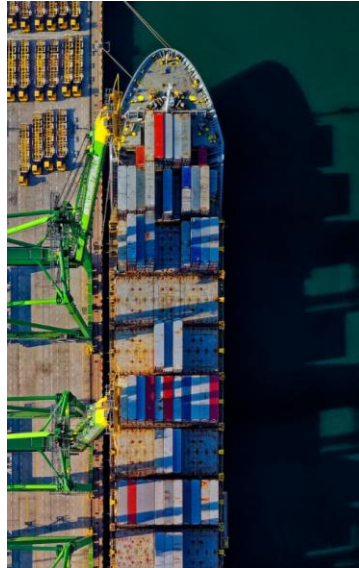


Getting the Big Picture

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



Innovation is Critical to Solving Climate Change



“Reaching net zero CO₂ emissions from the energy sector by 2050 does not necessarily require fundamentally new scientific concepts or breakthroughs comparable to the initial discovery of solar, wind or batteries.

...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)

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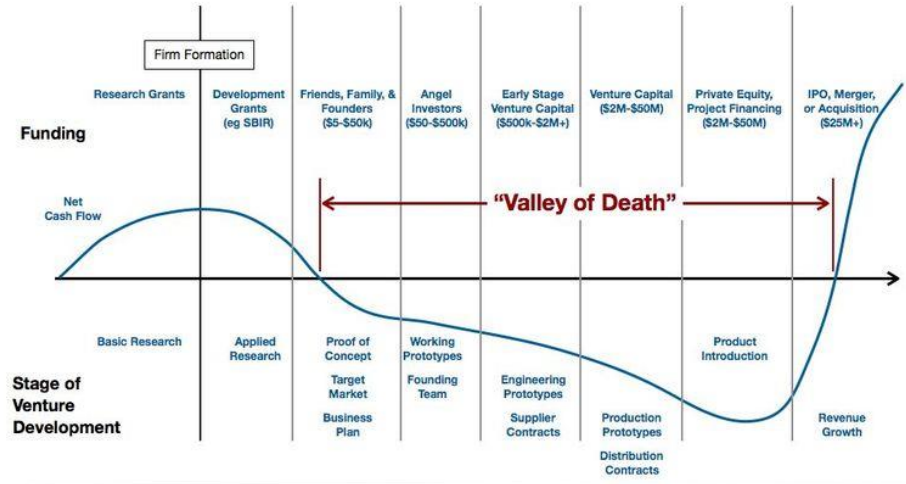
IEA(2023)

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

Lifecycle of a venture



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



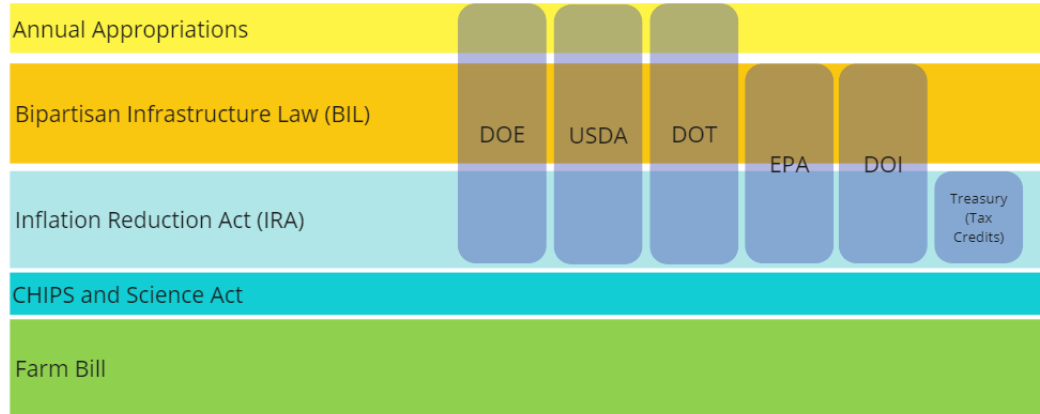
Coverage

Version 2: including
BIL/IRA

Fiscal Year 2021



Fiscal Year 2022, 2023





<https://innovationtracker.edf.org>



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