

# Energizing Innovation: Federal Energy RD&D in FY22 and Beyond

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Join the Conversation: #EnergyBudget

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# About ITIF

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- Independent, nonpartisan research and education institute focusing on intersection of technological innovation and public policy, including:
  - Clean energy innovation
  - Innovation and competitiveness
  - IT and data
  - Telecommunications
  - Trade and globalization
  - Life sciences and agricultural biotech
- Formulates and promotes policy solutions that accelerate innovation and boost productivity to spur growth, opportunity, and progress
- World's top think tank for science and technology policy, according to the University of Pennsylvania's authoritative *Global Go To Think Tank* Index

# New ITIF Report!

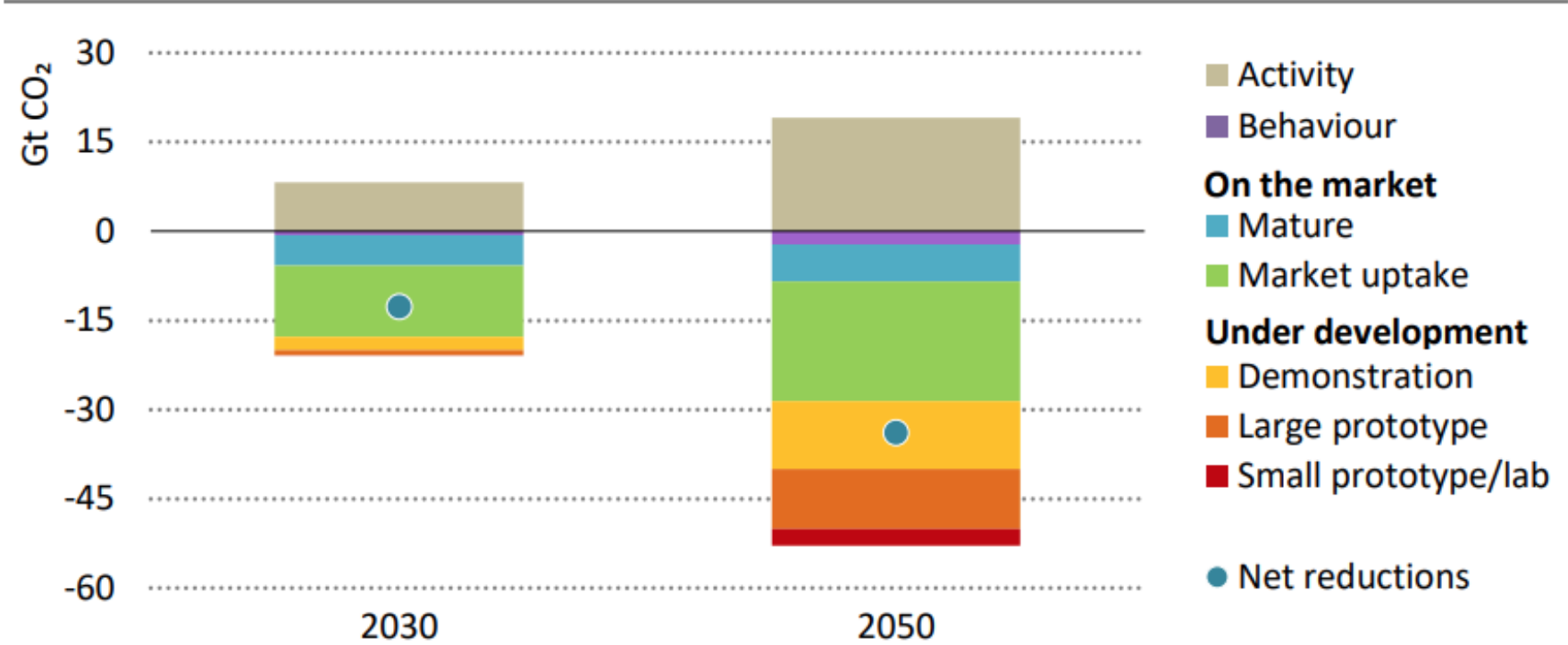
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- In-depth analysis to subprogram level:
  - Analytic overview
  - 21 program briefs
- 80+ recommendations
- Interactive data visualization
- Find it: [itif.org/energy-budget-fy22](https://itif.org/energy-budget-fy22)



# Emissions Reductions by Technology Maturity Category in IEA's Net Zero Emissions Scenario

**Figure 4.22** ▶ Global CO<sub>2</sub> emissions changes by technology maturity category in the NZE



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# Bipartisan Support

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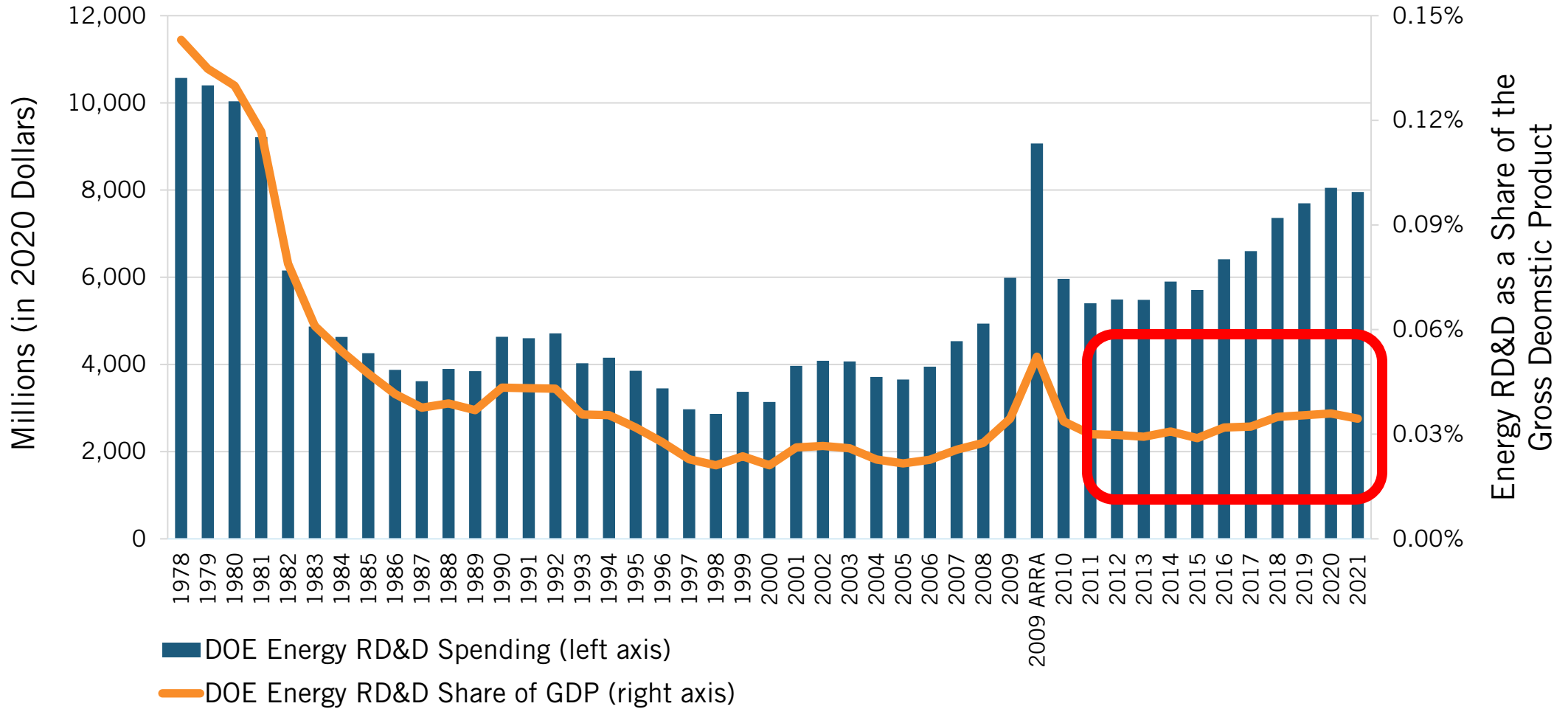
DOE energy RD&D budgets **have increased by 40%** over the past four years.

The Energy Act of 2020 reauthorized many DOE programs, and included measures sponsored by **100+ Members from both parties**

President Joe Biden has pledged to **quadruple government-wide clean energy RD&D over four years.**

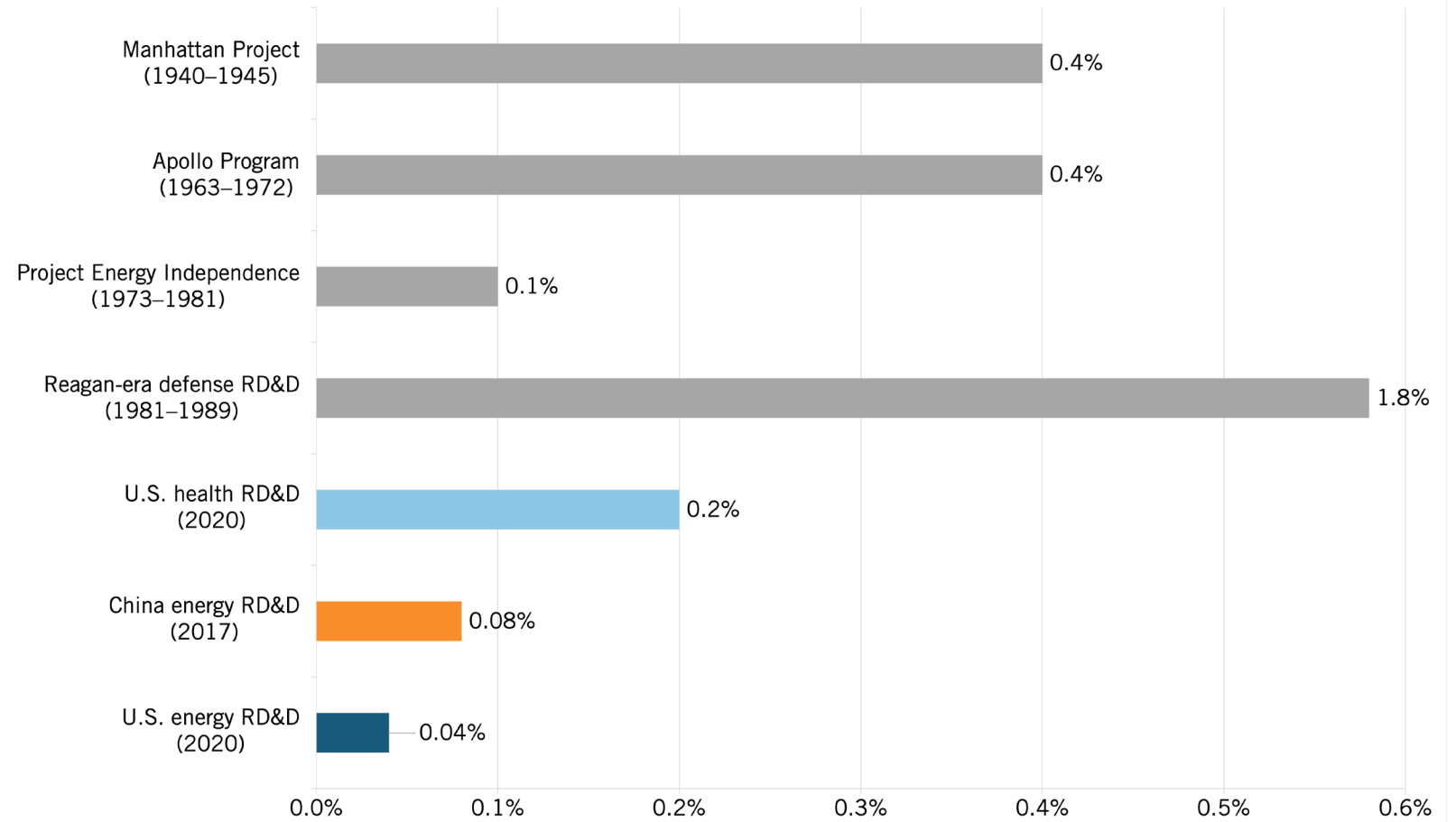


# Federal Energy RD&D Funding, FY 1978–2021

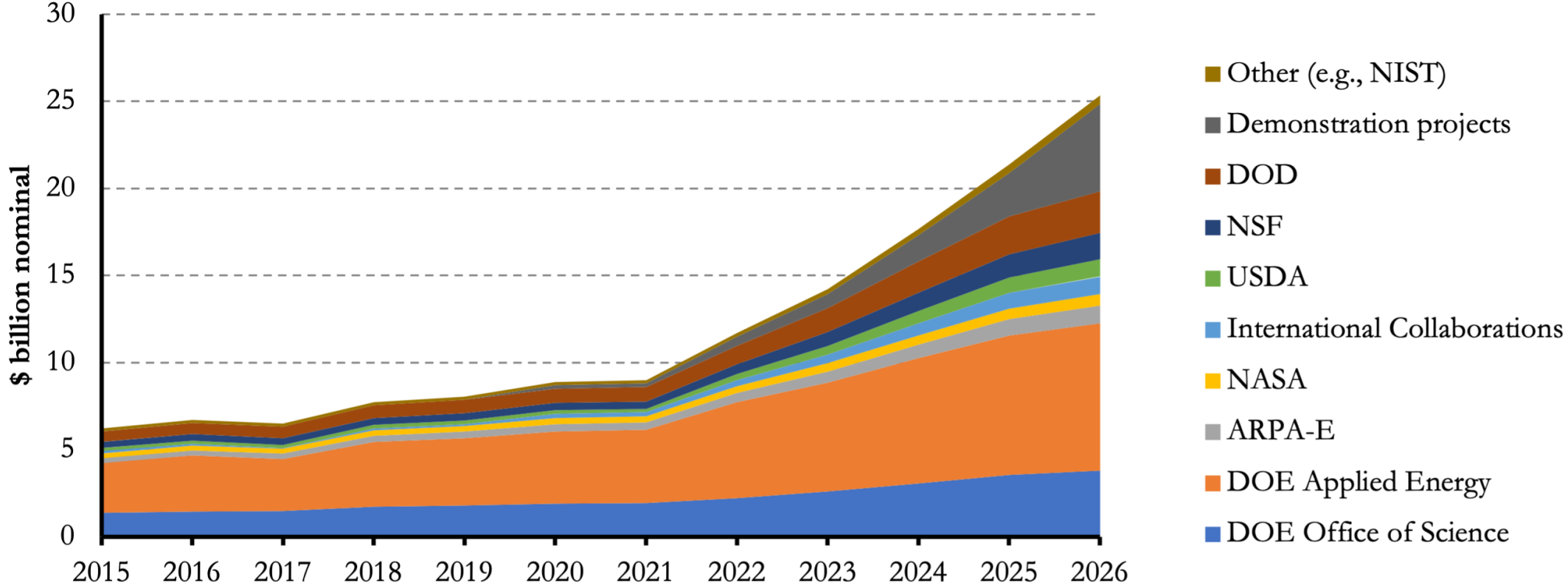


# Time for A Moonshot to Match the Moment

- Current US federal energy RD&D investment as a share of GDP lags behind:
  - Past mobilizations
  - Health RD&D today
  - China energy RD&D



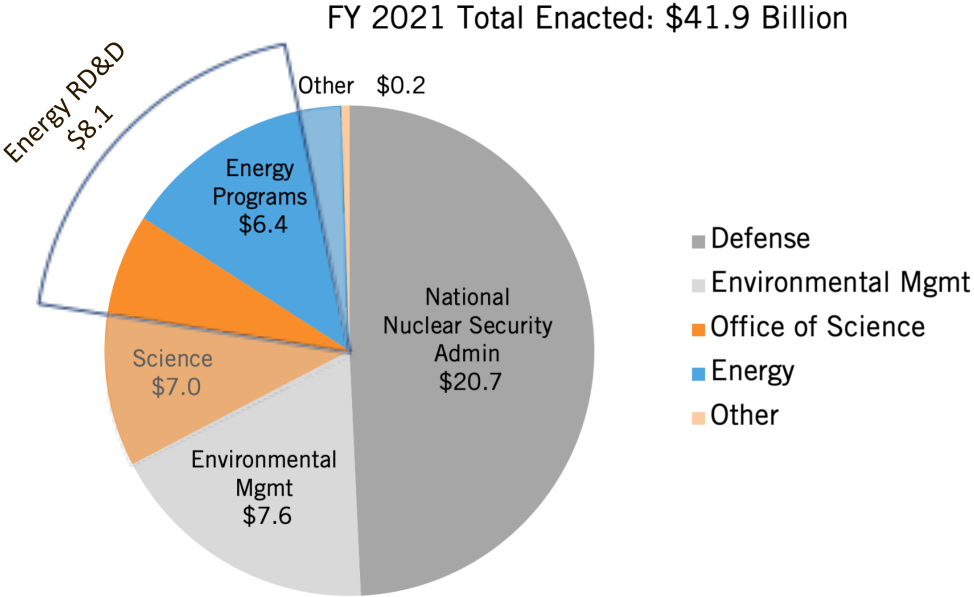
# Govt-Wide 3X Growth Proposed in *Energizing America* (2020)



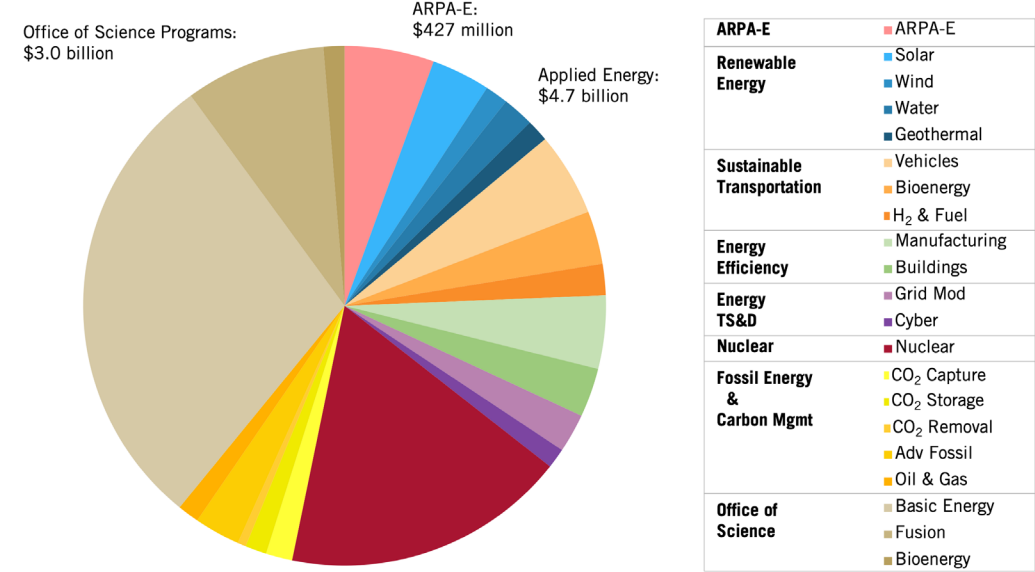


# DOE Is the Department of Everything, Not Just Energy

DOE budget by major function, FY 2021 (in billions)

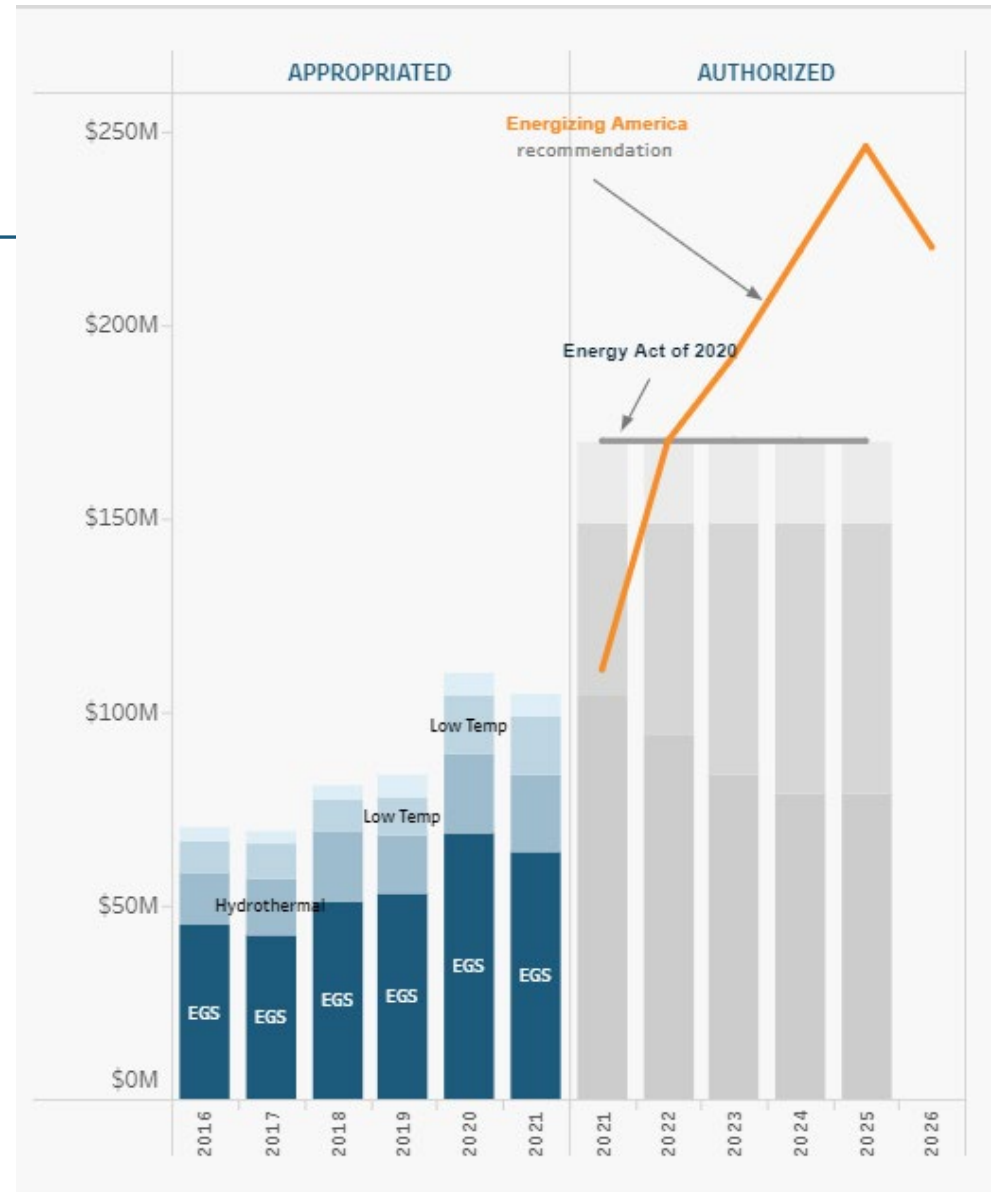


DOE's energy RD&D funding by program area, FY 2021



# Program Level Views

- Drill down on 21 programs
- Find program & subprogram levels over time
- Look ahead to Energy Act authorizations and *Energizing America* proposals
- Download the data
- Check back for updates throughout the budget cycle



# Thank You!

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