

FY 2020 Federal Energy Innovation: Congress Should Push the Pedal to the Metal

By Colin Cunliff

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New ITIF Report on U.S. Energy RD&D Spending

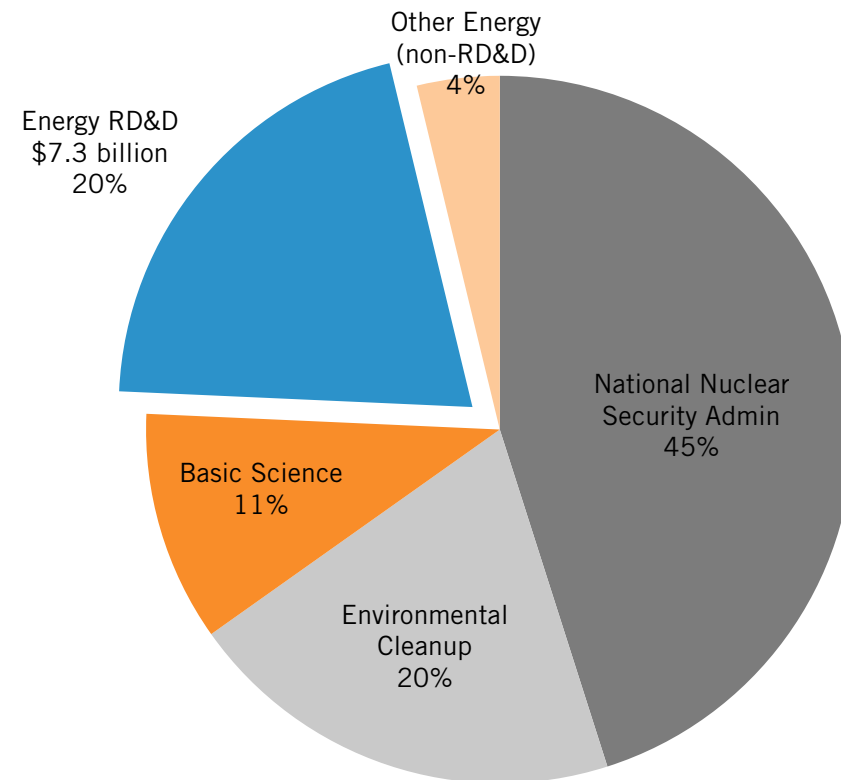
- In-depth analysis of all programs and subprograms that make up the clean energy innovation budget.
- Analytical overview, plus two-pagers covering areas such as ARPA-E, grid modernization, basic energy sciences, etc.
- PDFs available at itif.org/energy-budget.



Total DOE Budget by Major Function

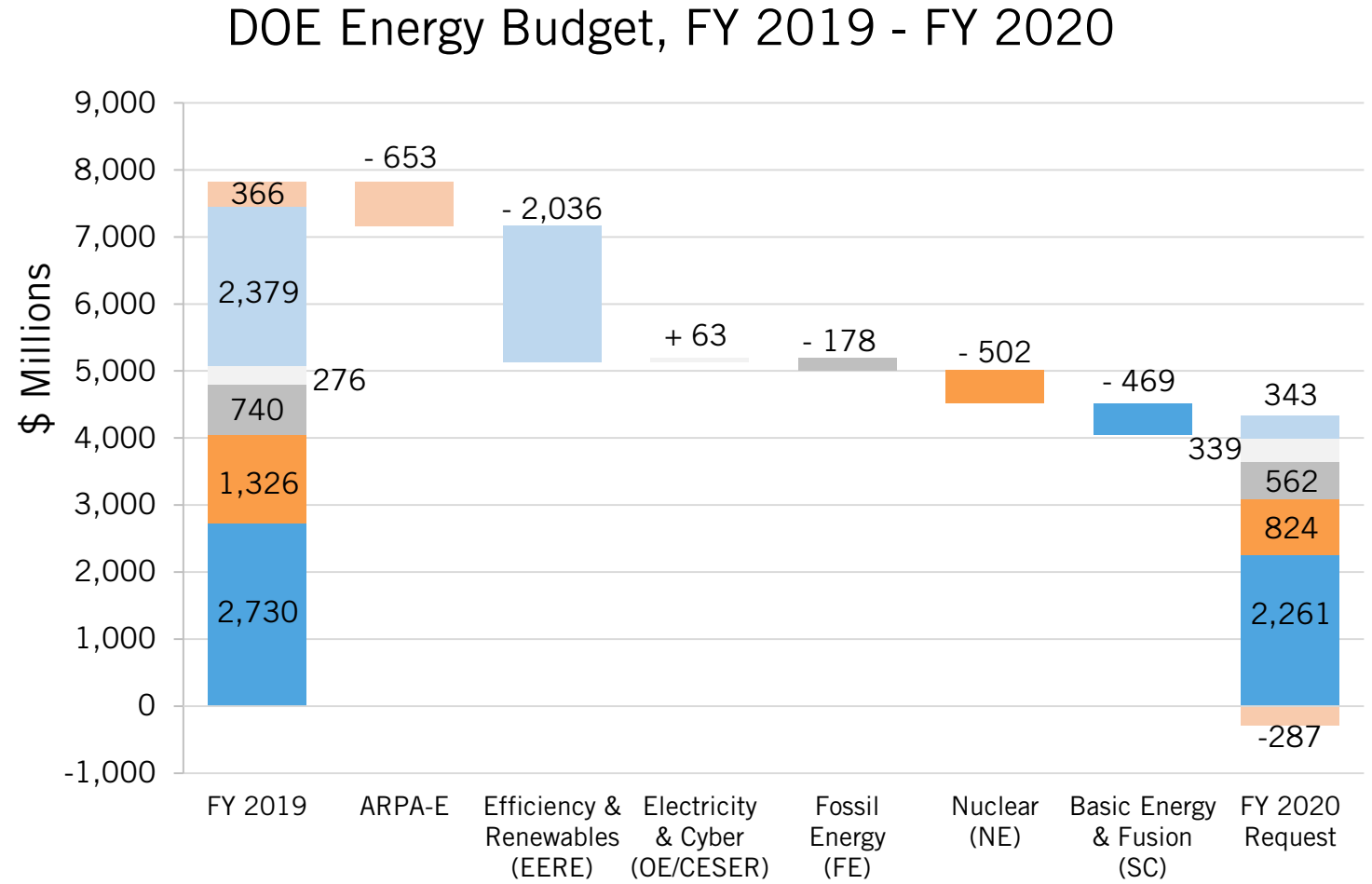
U.S. Discretionary Budget: \$1.31 trillion
Department of Energy (DOE): \$35.7 billion

- Energy RD&D comprises just 20 percent of the total DOE budget.
- Defense and Environmental Management together account for nearly two-thirds of the DOE Budget.

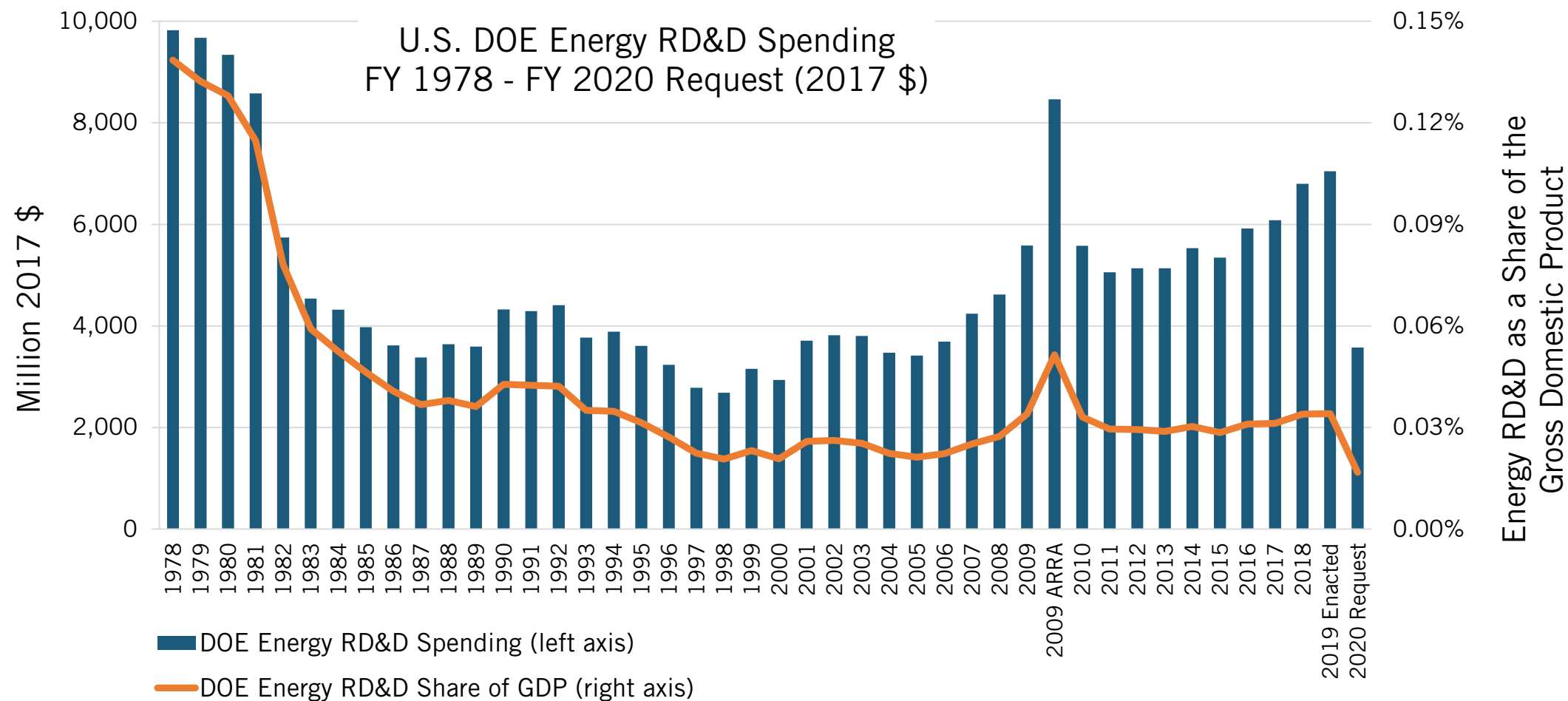


Proposed Changes in the DOE Energy Budget

- The proposed cut would be the largest single-year decrease (48 percent below FY 2019) in the history of the department.



Federal Energy R&D Funding, FY 1978 to FY 2020 Request

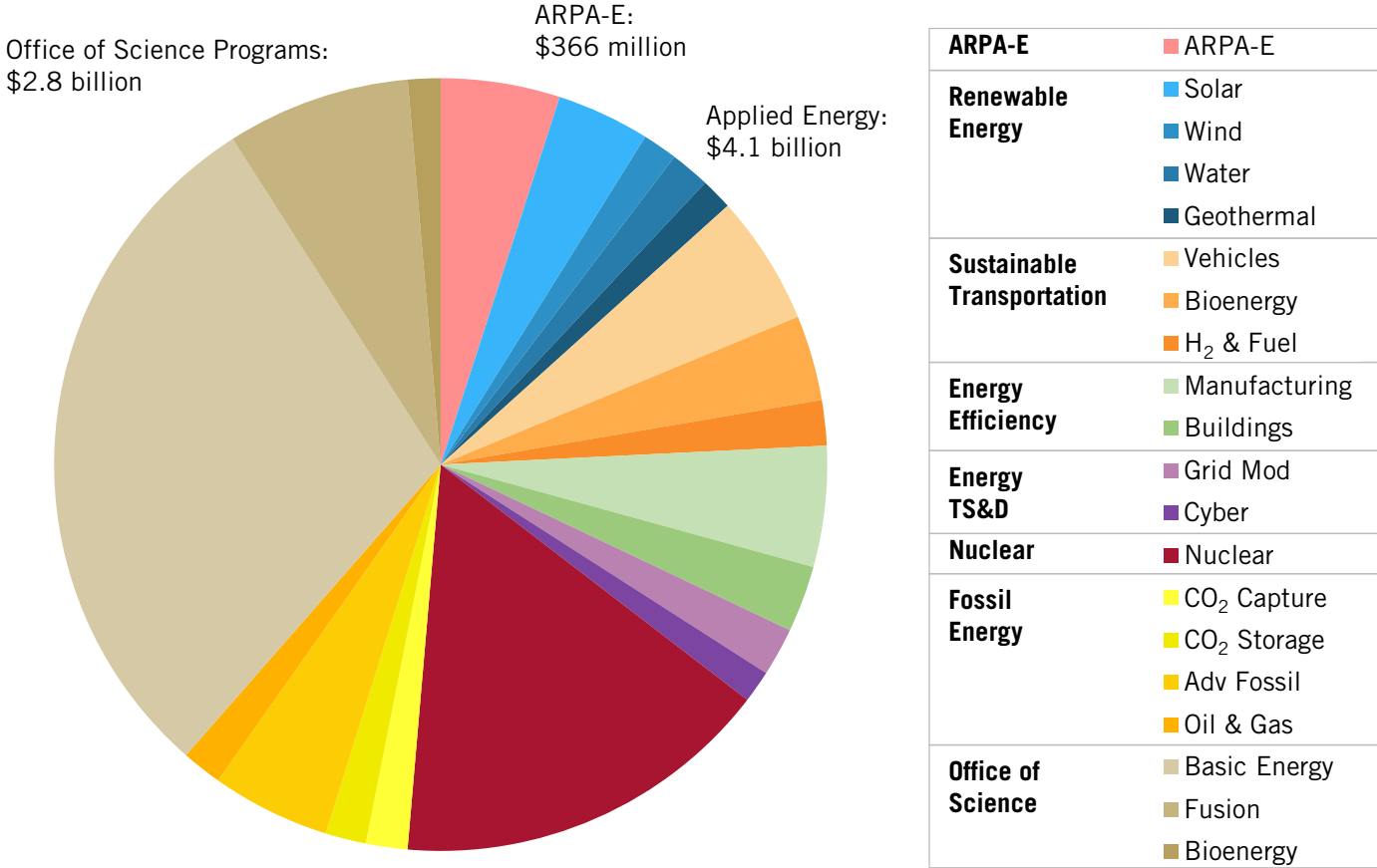


Energy RD&D by Program Office

The report examines the impact of the proposed budget on 19 energy technology RD&D programs in the following DOE offices:

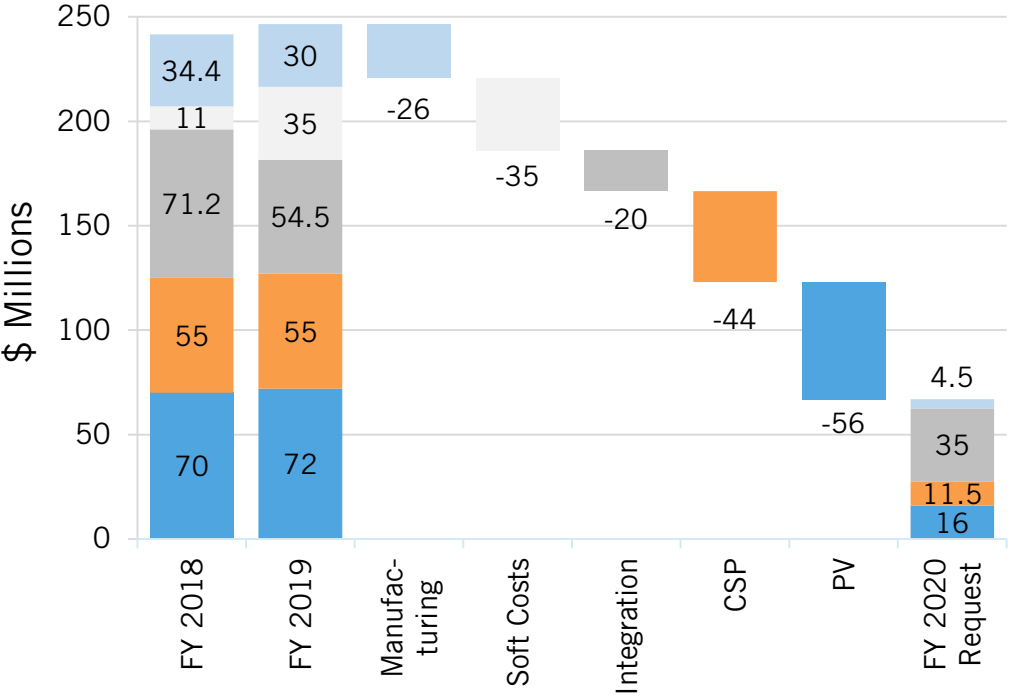
- ARPA-E, Renewable Energy, Sustainable Transportation, Energy Efficiency, Electricity, Nuclear Energy, Fossil Energy, and Science.

DOE Energy RD&D Budget, FY 2019

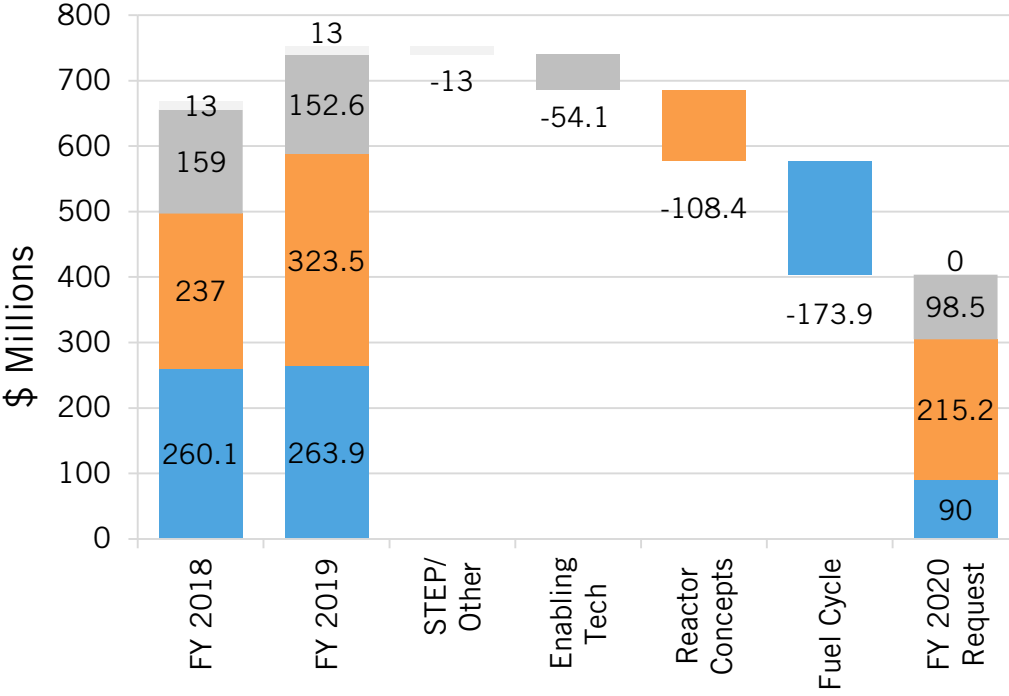


Examples: Solar Energy and Nuclear Energy RD&D

Solar Energy RD&D Proposed Cut: 73 Percent



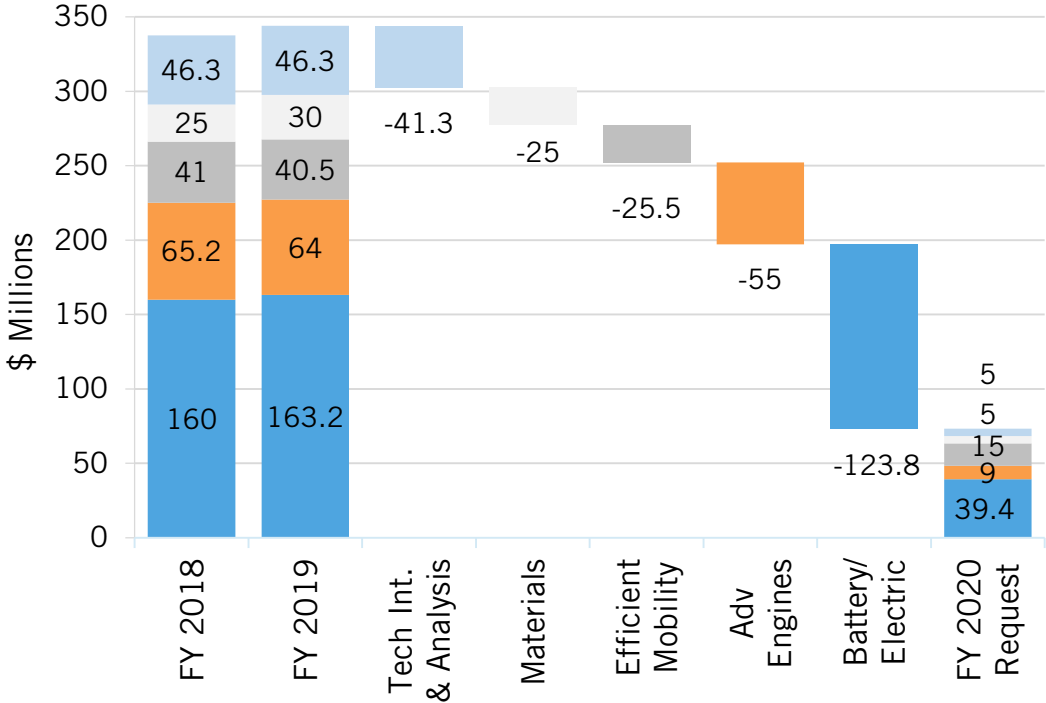
Nuclear Energy RD&D Proposed Cut: 46 Percent



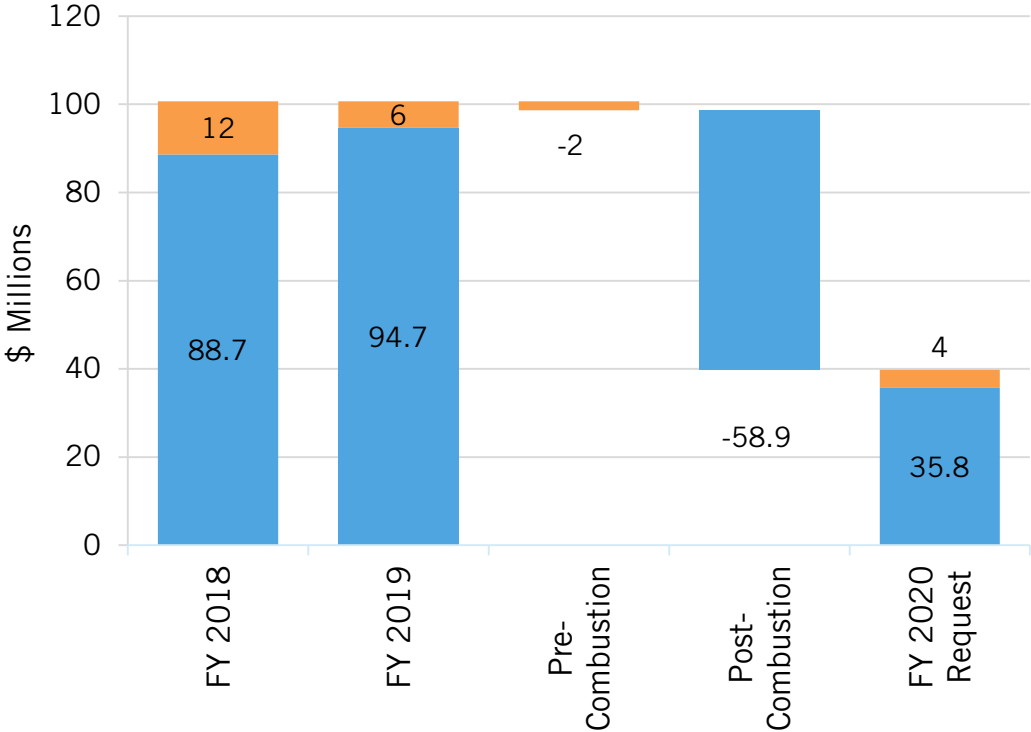
Read the complete series on the U.S. energy budget at itif.org/energy-budget.

Examples: Vehicle Technologies and Carbon Capture RD&D

Vehicle Technologies RD&D Proposed Cut: 79 Percent



Carbon Capture RD&D Proposed Cut: 60 Percent



Read the complete series on the U.S. energy budget at itif.org/energy-budget.

Federal Energy RD&D – Read the Complete Series

Available at itif.org/energy-budget:

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|--|--|--|---|
| <ul style="list-style-type: none">▪ Summary | Transportation | Fossil Energy | Office of Electricity |
| ARPA-E | <ul style="list-style-type: none">▪ Vehicles | <ul style="list-style-type: none">▪ CO₂ Capture | <ul style="list-style-type: none">▪ Grid Modernization |
| <ul style="list-style-type: none">▪ ARPA-E | <ul style="list-style-type: none">▪ Bioenergy | <ul style="list-style-type: none">▪ CO₂ Storage | <ul style="list-style-type: none">▪ Cybersecurity |
| Renewables | <ul style="list-style-type: none">▪ H₂ & Fuel Cells | <ul style="list-style-type: none">▪ Advanced Coal | Office of Science |
| <ul style="list-style-type: none">▪ Solar | Energy Efficiency | <ul style="list-style-type: none">▪ Oil & Gas | <ul style="list-style-type: none">▪ Basic Energy Sciences |
| <ul style="list-style-type: none">▪ Wind | <ul style="list-style-type: none">▪ Advanced Manufacturing | Nuclear | <ul style="list-style-type: none">▪ Fusion |
| <ul style="list-style-type: none">▪ Water | <ul style="list-style-type: none">▪ Buildings | <ul style="list-style-type: none">▪ Nuclear | |
| <ul style="list-style-type: none">▪ Geothermal | | | |

Thank You!

Colin Cunliff | ccunliff@itif.org | [@colin_cunliff](https://twitter.com/colin_cunliff)