

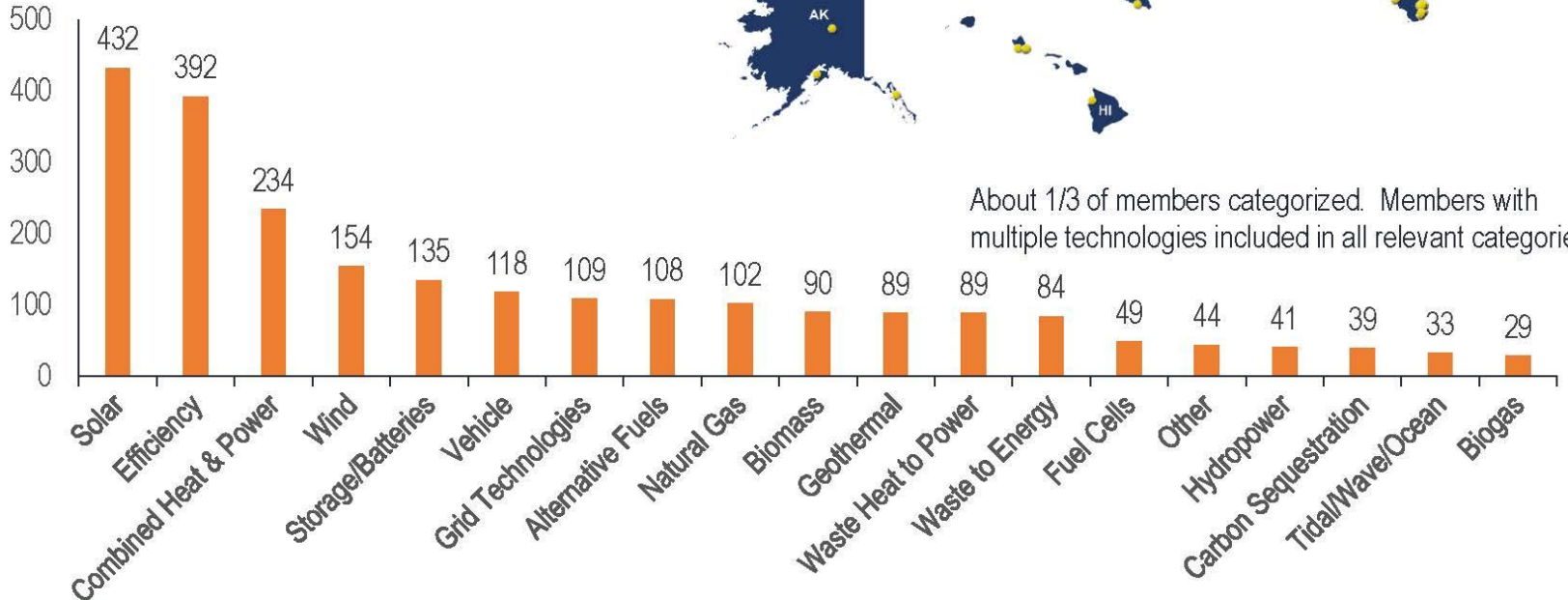


The Clean Energy Opportunity: Fostering Innovation in Maine and Across the U.S.

E2Tech EXPO | 11.16.17

The Clean Energy Business Network

- 3,000+ business leaders across all 50 states, representing every aspect of the clean energy economy
- Independent initiative of the Business Council for Sustainable Energy



About 1/3 of members categorized. Members with multiple technologies included in all relevant categories.

Mission

- Inform and engage clean energy business leaders in policy issues impacting the industry
- Educate the public and policymakers about diverse energy technologies
- Provide resources to help members address common business challenges

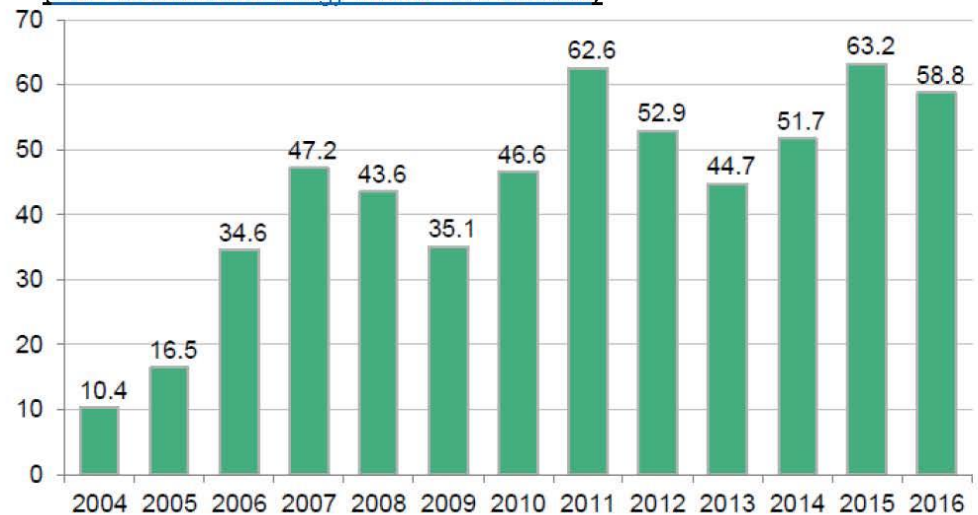


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The Clean Energy Market Opportunity

- **\$58.8 billion** private investment in clean energy in 2016
([2017 Sustainable Energy in America Factbook](#))
- **3+ million jobs** in low-carbon electricity, energy efficiency, and alternative fuel vehicle industries in 2016 ([DOE, 2017](#))
- Wind and solar will account for almost **half of installed capacity** and over **one-third of electricity generation** worldwide by 2040. Renewables will account for **almost 3/4 (or \$7.4 trillion)** of global investment in new power generation capacity during that time. ([Bloomberg New Energy Finance, 2017](#))

U.S. clean energy investment (\$bn), all asset classes
([2017 Sustainable Energy in America Factbook](#))

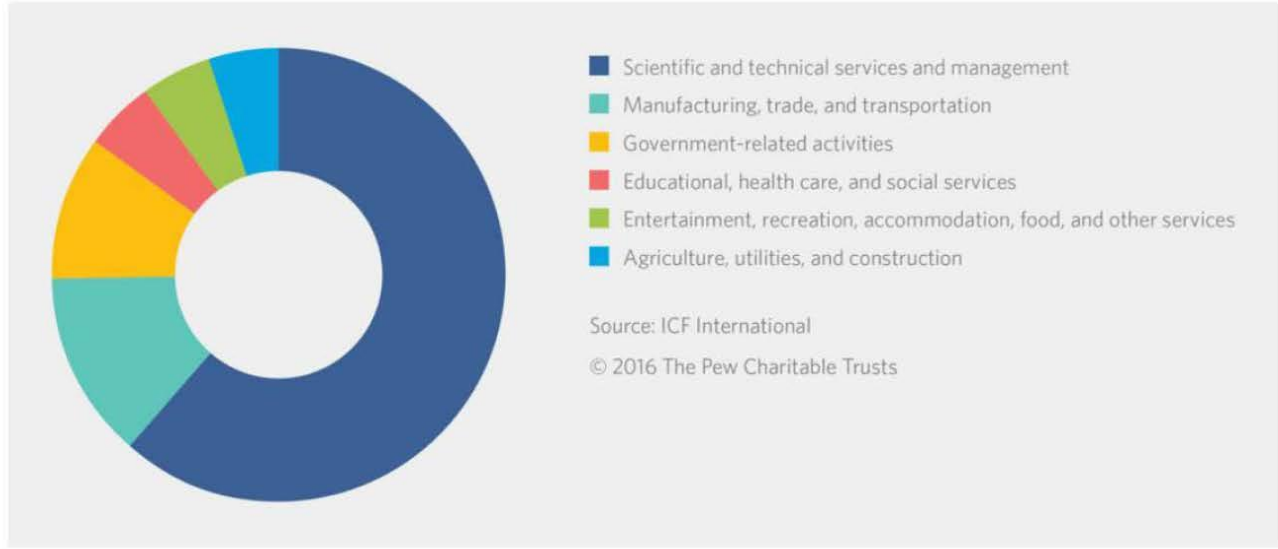


The Payoff of Federal Support

- For every \$1 spent on early-stage clean energy research and development, \$1.60 is created in other parts of the economy
[\(The Pew Charitable Trusts & ICF International, 2016\)](#)

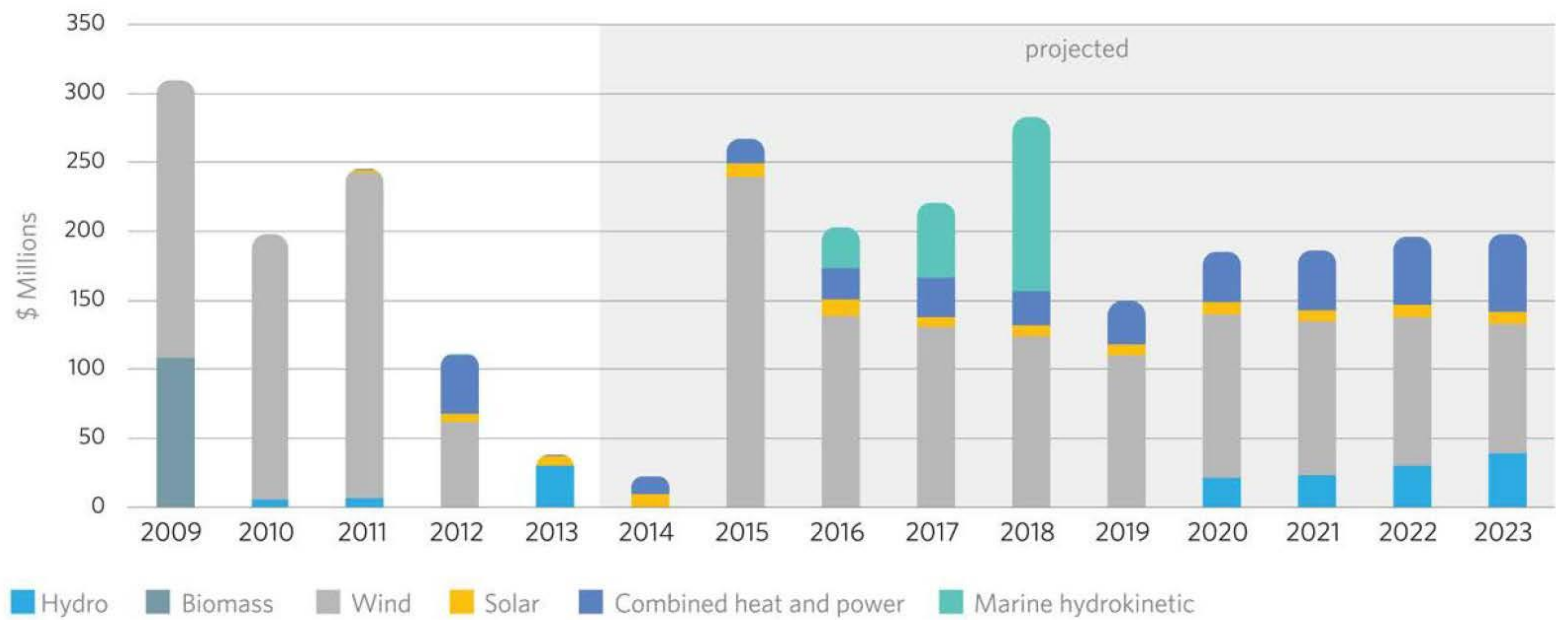
Scientific and Technical Services Represent the Largest GDP Contributions

Economic gains from DOE's early-stage R&D investment, by sector



The Opportunity in Maine

Clean Energy Investment, by Sector and Year
Actual (2009-13) and projected (2014-23) annual investment



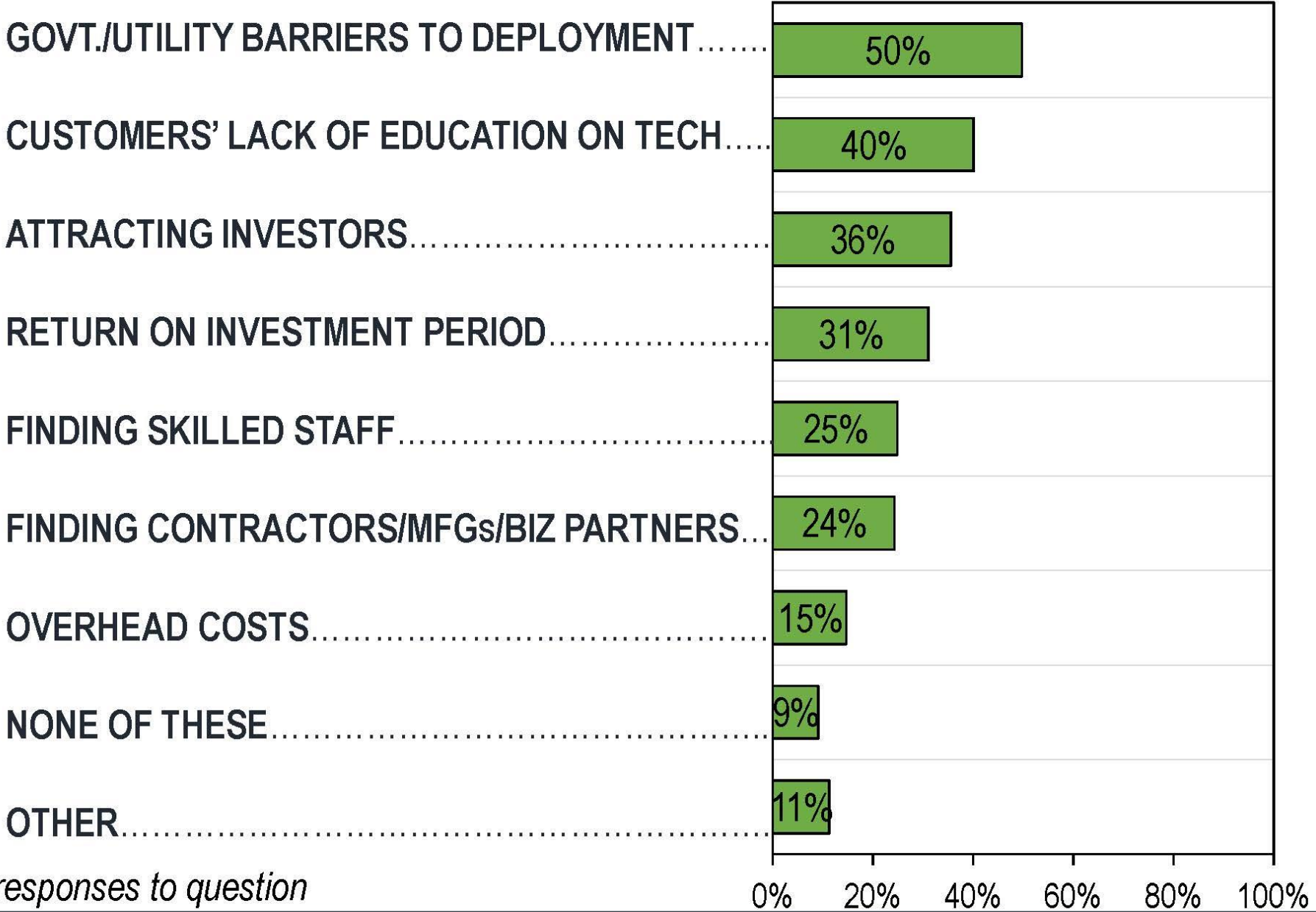
Source: Navigant Research

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Maine's Innovation Economy



Barriers Facing Clean Energy Businesses: Survey Results



177 responses to question

Policy Uncertainty

All levels: RPS, CPP, tax reform, funding cuts, lack of natl. energy policy

Utility Barriers

Utilities' financial model doesn't prioritize efficiency, renewables, or DG
Tariffs, standby rates, demand charges, limits on power exports
Battles over net metering and RPS/EERS

Financing Barriers

Audits & feasibility are an upfront cost with uncertain payback
Lack of incentives to build new construction to highest standard
Some customers need tax incentives/equity financing
Other customers need upfront capital assistance/grant
State and federal grants, loans, etc. can be confusing to navigate

Innovation Barriers

Policies and markets often prescriptive/averse to disruption
Early adopters (often government) needed
Long lead times for permitting innovative projects
Early-stage companies struggle with investment & other challenges

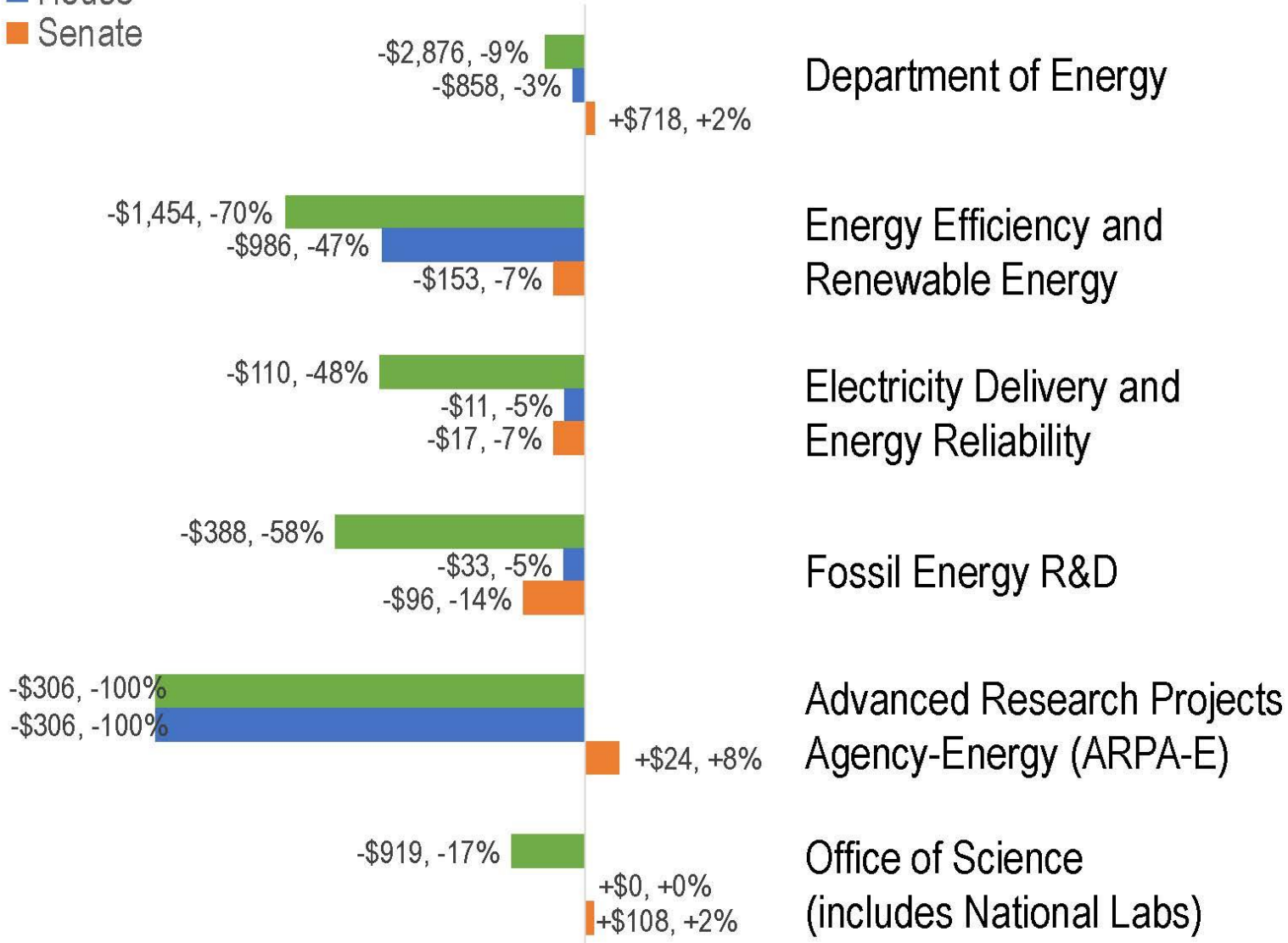
What's Happening in Washington that Could Impact Energy Markets?

- Tax policy
- Appropriations (funding)
- FERC grid reliability pricing rule
- Clean Power Plan repeal
- Paris Agreement withdrawal
- Energy legislation



Energy Funding Proposals, FY 2018 (\$ Millions)

- President's request
- House
- Senate



Energy Tax Issues

- Both chambers advancing proposals on a tight timeframe

Corporate tax rate (↓ to 20%) & deductions

Personal income tax brackets

Energy credits: PTC, ITC, EV, fossil

From Washington to Maine, Let's Grow the Clean Energy Economy

- Promote policies that level playing field & address barriers to new technologies
- Educate public and policymakers about availability and benefits of clean energy
- Promote collaboration within the industry
- Join us at www.cebn.org

