



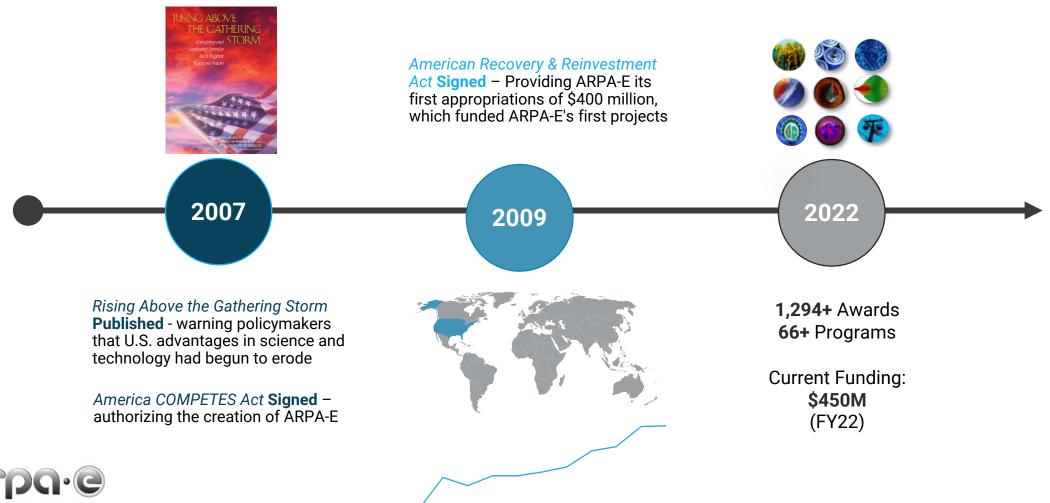
a conversation with Dr. Jennifer Gerbi of ARPA-E & NYU Professor and Fubon Director of the Innovation Technology Initiative Melissa Schilling

Dr. Jennifer Gerbi Acting Director, ARPA-E

March 24, 2022

History of ARPA-E

In 2007, The National Academies recommended Congress establish an Advanced Research Projects Agency within the U.S. Department of Energy to fund advanced energy R&D.





ARPA-E Mission

Goal 1: To enhance the economic and energy security of the United States:





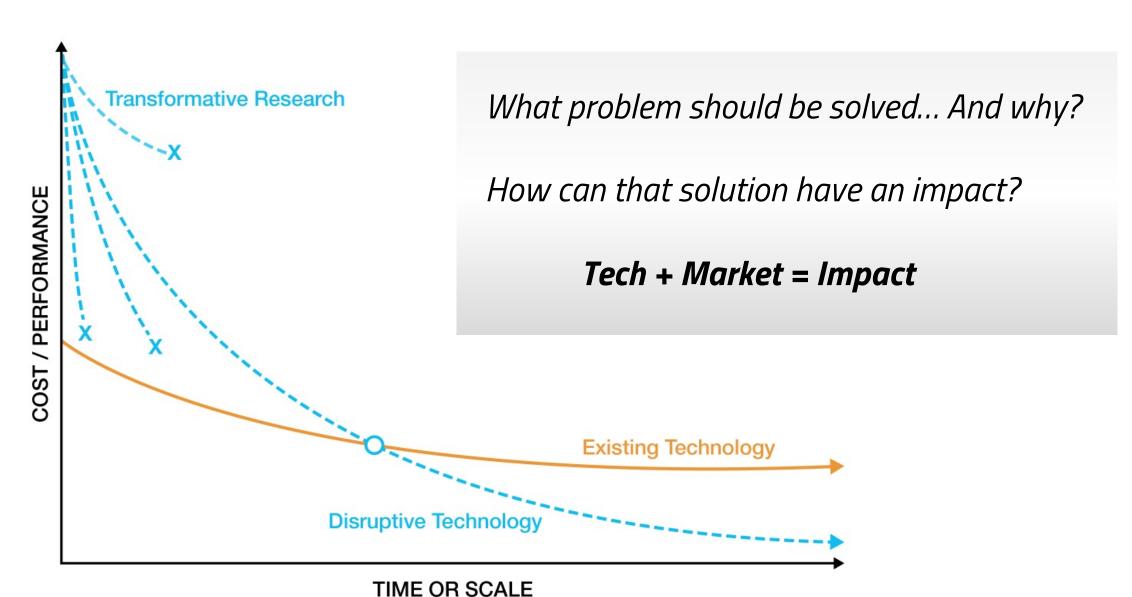






Goal 2: Ensure that the United States maintains a technological lead in developing and deploying advanced energy technologies.

We are a high-risk, high reward applied R&D Agency

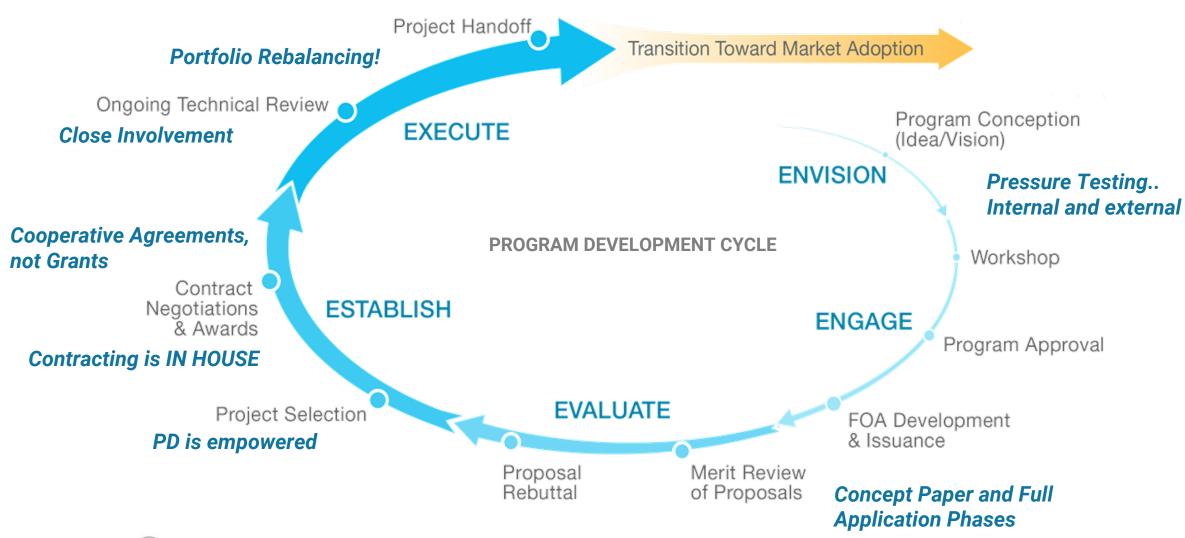


ARPA-E: What makes us different

- Startup-esque approach. Continuous Learning!
- Term limited, core group of empowered Program Directors
- Term limited T2M Advisors, PhD Fellows work seamlessly with Program Directors
- Collaborative instead of competitive
- Structure: Flat, lean, no 'roadmaps', no top-down direction
- Comfort with risk and ambiguity crucial TRUST is essential.



Technology Acceleration Model





ELECTRICITY GENERATION & DELIVERY

EFFICIENCY

TRANSPORTATION

































HESTIA





































































METALS





























+ OPEN 2009, 2012, 2015, 2018, & 2021 Solicitations

+ Seedlings, Competitions, Complementary Exploratory Topics + SCALEUP 2019 & 2021





First-of-its-kind initiative at ARPA-E to translate previously funded ARPA-E technologies to commercial viability

10 Awardees

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\$70+ million

*

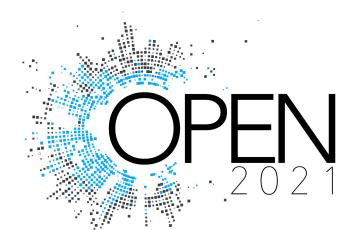
Takes the tech de-risked in the lab to the next step

*

SCALEUP selectees must partner with potential customers, end-users, etc.

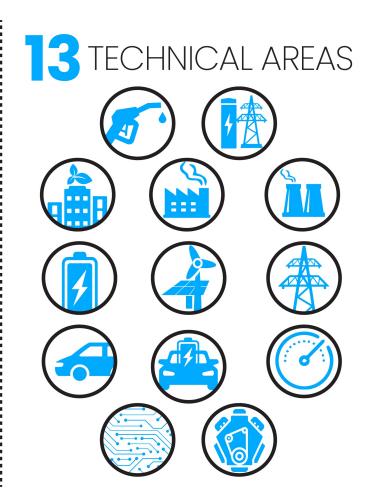
US Manufacturing Requirement
Waivers and FWWs Enable Global 7
Engagement

In February, ARPA-E Announced 68 Projects in OPEN 2021 Program











Is it Working? ARPA-E Impact Indicators at the end of 2021

Since 2009
ARPA-E has provided

\$3 billion
in R&D funding to
more than 1,294 projects

185 projects
have attracted
more than
\$9.87 billion
in private-sector follow-on funding

129 companies
formed by
ARPA-E
projects

20 exits
market valuations worth
\$21.6 billion
from mergers, acquisitions, and IPOs

268 projects
have partnered
with other
government
agencies
for further
development



5,497peer-reviewed journal articles from ARPA-E projects



829 patents issued by U.S. Patent and Trademark Office



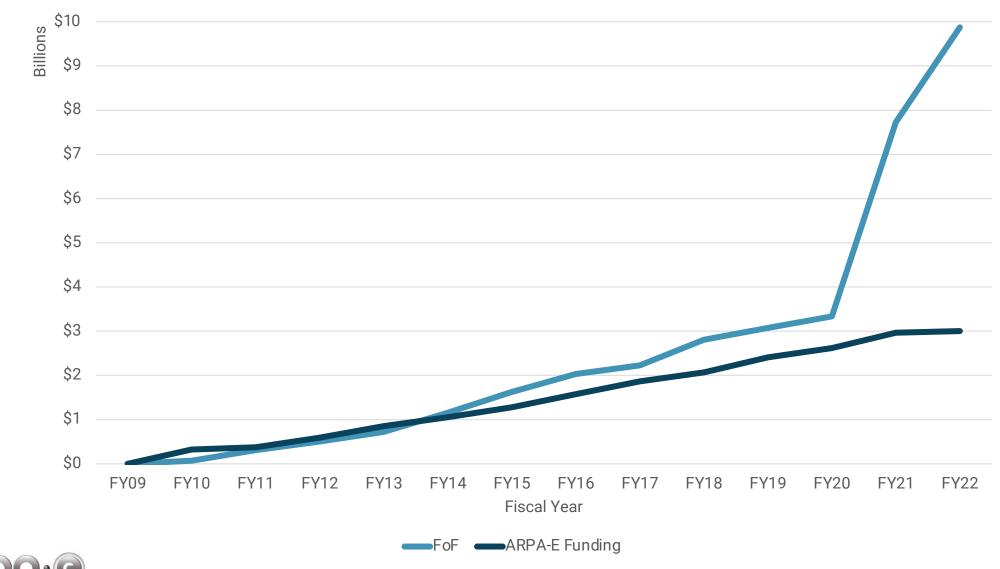
285 licenses reported from ARPA-E projects



As of January 2022

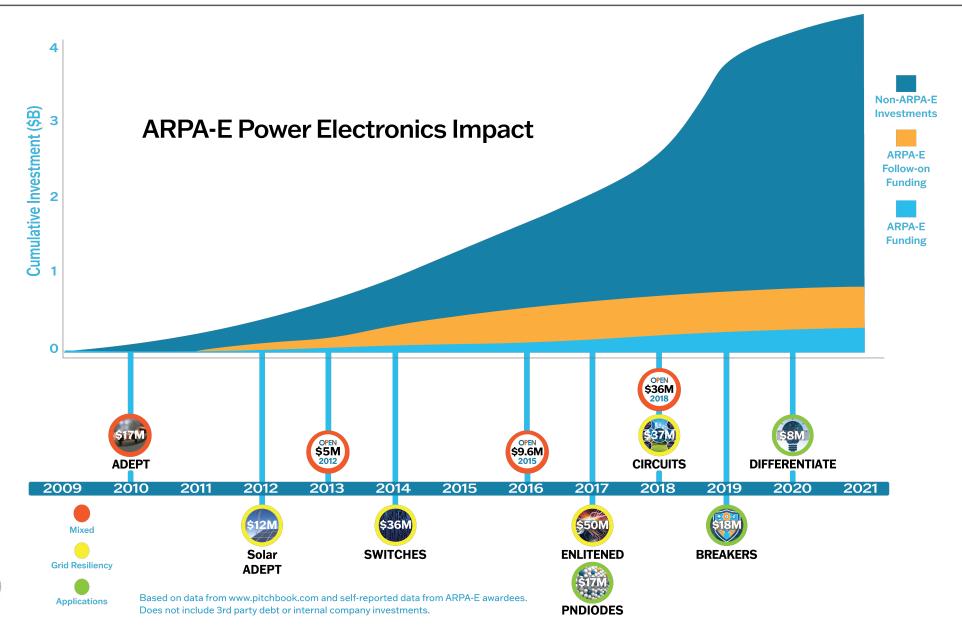


Private Follow-on-Funding and ARPA-E Funding Over Time - Cumulative





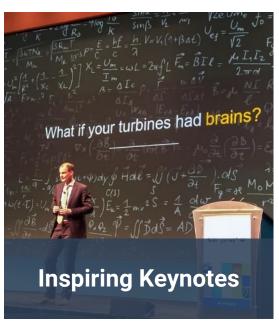
Investment time series



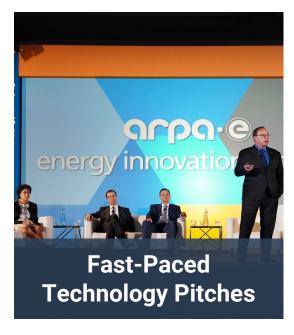


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May 23-25, 2022

Denver, Colorado



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If it works...

will it matter?







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