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Associate Director for Technology

ARPA-E



(c) GOALS.—

(1) IN GENERAL.—The goals of ARPA-E shall be—

(A) to enhance the economic and energy security of the United States through the development of energy technologies that result in—

(i) reductions of imports of energy from foreign sources;

(ii) reductions of energy-related emissions, including greenhouse gases; and

(iii) improvement in the energy efficiency of all economic sectors; and

(B) to ensure that the United States maintains a technological lead in developing and deploying advanced energy technologies.

(2) MEANS.—ARPA-E shall achieve the goals established under paragraph (1) through energy technology projects by—

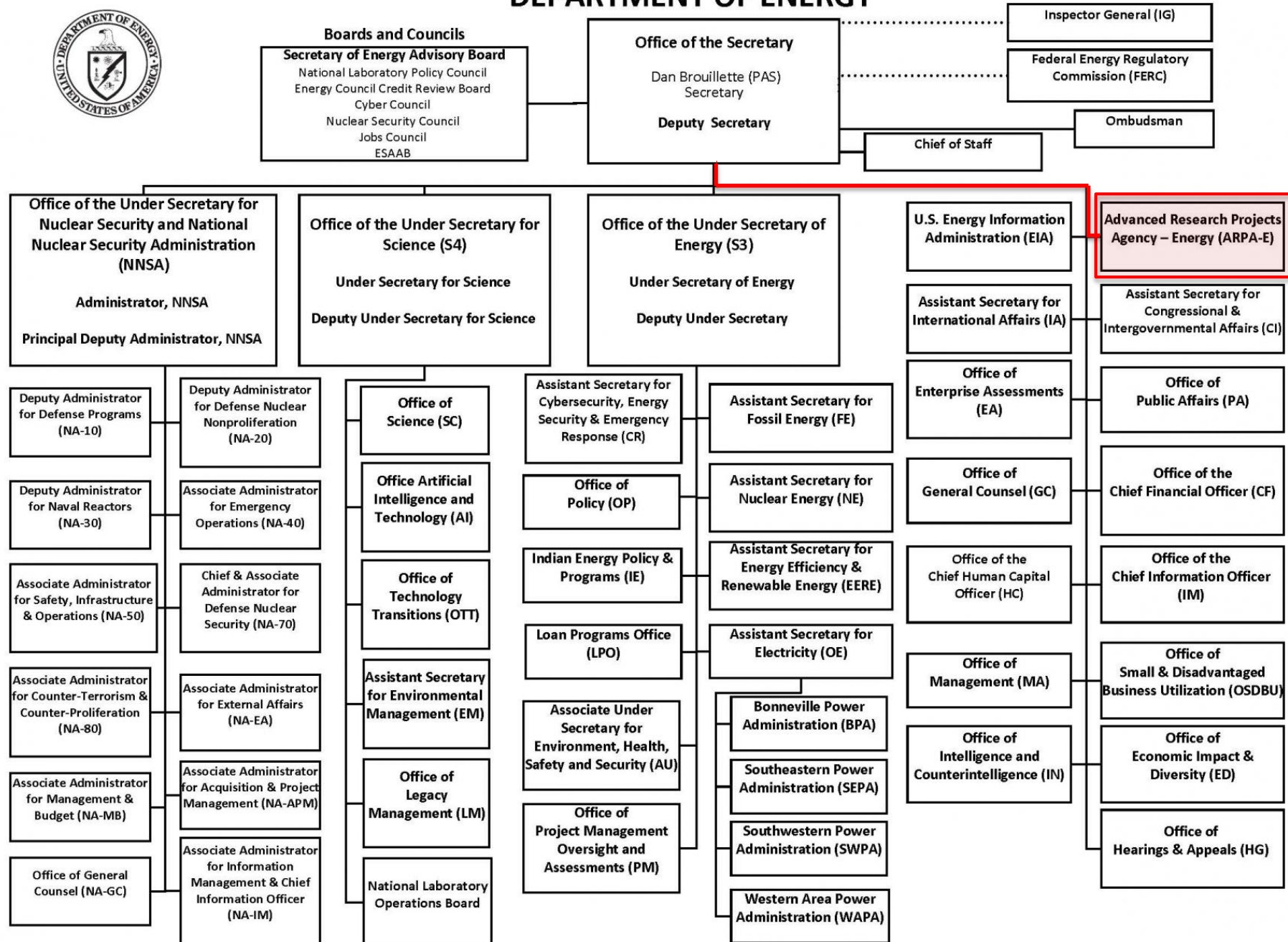
(A) identifying and promoting revolutionary advances in fundamental and applied sciences;

(B) translating scientific discoveries and cutting-edge inventions into technological innovations; and

(C) accelerating transformational technological advances in areas that industry by itself is not likely to undertake because of technical and financial uncertainty.



DEPARTMENT OF ENERGY

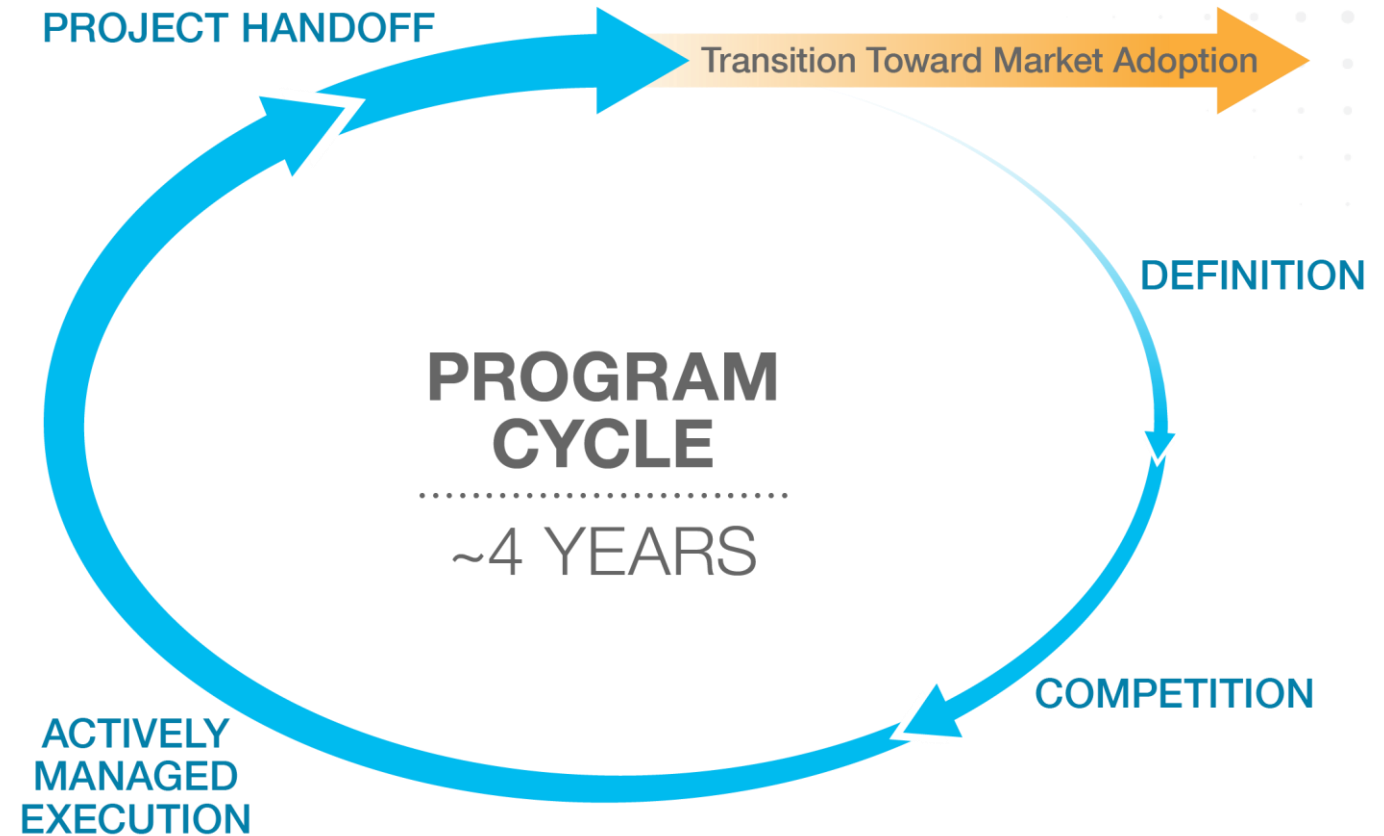




If it works...

will it matter?

Technology Acceleration Model



Unique Culture and Structure



- EMPOWERED Term-limited Program Directors
- No Competition – Collaborative and Peer Driven
- No “Leadership Road Maps” – Topics driven by PDs
- We’ll fund anyone
startups, academia, large industry, labs, combinations thereof
- Extremely Flat Organization (under Secretary)
- Both Tech and Market considered simultaneously
- Flexible Funding Vehicles – STARTUP, TINA, etc.

ARPA-E Program Portfolio

Active

ELECTRICITY GENERATION & DELIVERY



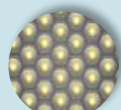
INTEGRATE



GRID DATA



IONICS



MOSAIC



GENSETS



NODES



ALPHA



CHARGES



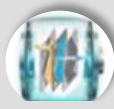
FOCUS



MEITNER



DAYS



REBELS



GRIDS



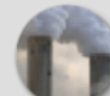
GENI



HEATS



SOLAR ADEPT



IMPACCT

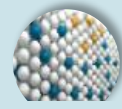
EFFICIENCY



SENSOR



CIRCUITS



PN DIODES



ENLIGHTENED



SHIELD



ROOTS



BREAKERS



MONITOR



ARID



DELTA



HITEMP



SWITCHES



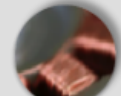
METALS



BEETIT



REACT



ADEPT

TRANSPORTATION



MARINER



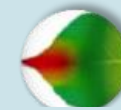
REFUEL



NEXTCAR



TRANSNET



TERRA



RANGE



REMOTE



MOVE



PETRO



ELECTROFUELS



AMPED



BEEST

Alumni

OPEN 2009, 2012, 2015 & 2018 Solicitations
Complement Focused Programs

ARPA-E Impact Indicators

Since 2009
ARPA-E has
provided

\$2 billion

in R&D funding to
more than **800 projects**



145 Projects have
attracted more than

\$2.9 billion

in private-sector follow-on funding



76 projects

have formed
**new
companies**



131 projects

have **partnered**
with other
government
agencies
for further
development



2,489

peer-reviewed
journal articles
from ARPA-E
projects



346 patents

issued by U.S.
Patent and
Trademark Office





U.S. DEPARTMENT OF
ENERGY

<https://arpa-e.energy.gov>