

ADVANCED RESEARCH PROJECTS AGENCY- ENERGY

STONY BROOK UNIVERSITY
urges Congress to provide at
least \$400 million for ARPA-E in
FY20.

The **Advanced Research Projects Agency-Energy (ARPA-E)** supports high-risk, high-reward research that the private sector will NOT conduct. Since 2009, ARPA-E has funded more than 660 potentially transformational energy technology products including:

- A 1-megawatt silicon carbide transistor the size of a human fingernail
- Microbes that use hydrogen and carbon dioxide to create liquid transportation fuel
- A near-isothermal compressed air energy storage system

Since 2009...

ARPA-E has provided
\$1.8 billion
in R&D funding
to more than
660
projects



71 new
companies
have
formed



109 projects
have partnered with other
government
agencies
for further
development



139 projects
have attracted more than
\$2.6
billion
in private-sector
follow-on
funding



Source: DOE 2019

Stony Brook University, in partnership with Brookhaven National Laboratory, has received over \$14 million in ARPA-E funding since the program's inception.

Stony Brook conducts groundbreaking research with ARPA-E funding:

- Creating a new super energy-saving, cost-efficient air conditioning vent for commercial and residential use at low cost
- Condensing water out of flue gas to provide additional cooling that may enable power plants to be built in dry and land-locked areas at a time when using open bodies of water for cooling has become a national and global concern
- Developing a small, low-cost, highly efficient and clean natural gas generator designed for use in homes to provide electricity and heat



Stony Brook
University