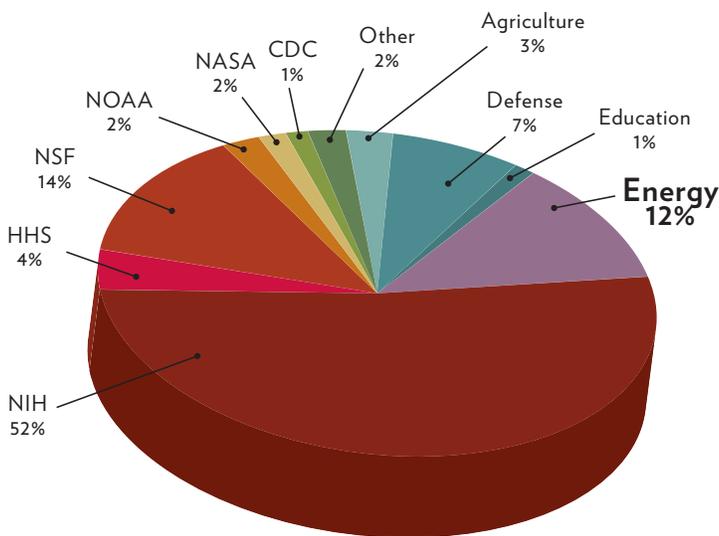




DEPARTMENT OF ENERGY RESEARCH

UW-MADISON: RANKED #8 NATIONALLY WITH \$1.3 BILLION IN ANNUAL RESEARCH EXPENDITURES

The Department of Energy’s (DOE) research programs—including the Office of Science and the Advanced Research Projects Agency–Energy (ARPA-E)—play a critical role in enhancing energy security, building our future economy and ensuring America remains a leader in science and technology. The Office of Science is our country’s largest supporter of foundational research in the physical sciences, helping to advance the fundamental science knowledge base and train future scientists. The Department of Energy supports UW–Madison research into reducing emissions and greenhouse gases from the environment.



\$86.4 million

DOE federal research awards at UW–Madison in 2020–21

4th

in nation for research expenditures financed by DOE

EXAMPLES OF DOE RESEARCH AT UW-MADISON

Chemical & Biological Engineering

As the largest component in natural gas, methane is a greenhouse gas many times more potent than carbon dioxide and is emitted into the atmosphere through vehicles and fossil fuel mining. UW–Madison researchers and a team of scientists have discovered a relatively simple pretreatment process using steam that improves methane’s reactivity, making methane combustion more efficient. The discovery could lead to new types of catalytic flares and cleaner burning car engines that could keep tons of heat-trapping methane out of the skies. [More online.](#)

College of Engineering

Transportation accounts for approximately 30% of total U.S. energy needs and generates the largest share of the country’s greenhouse gas emissions. A \$2.6 million DOE grant is supporting a UW–Madison combustion research project that aims to help engine manufacturers define the best system to deliver the lowest possible emissions and mitigate the climate impacts from carbon dioxide, while continuing to improve engine efficiency and performance. [More online.](#)

WHY UNIVERSITY RESEARCH MATTERS

By supporting the DOE funding, you support research programs that ensure America remains a global leader in science and technology.

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