

A VEHICLE FOR CHANGE

HELPING THE U.S. REDUCE PETROLEUM USE AND EMISSIONS

Did you know...

The National Highway Traffic Safety Administration has issued standards to decrease our dependence on petroleum by doubling Corporate Average Fuel Economy (CAFE) standards for new cars and trucks to 54.5 mpg by model year 2025.

OPPORTUNITY

Ultimately, the solution to decreasing petroleum consumption lies in technological progress. This includes developing advanced vehicle technologies that use energy more efficiently and creating new energy sources to replace petroleum. It is essential to assess new technologies by evaluating performance, fuel economy and emissions.

SOLUTION

Argonne's transportation program is ideally positioned to be a leader in the understanding, improvement and validation of promising new transportation technologies, with our unique combination of:

- ▶ State-of-the-art dynamometer testing facilities
- ▶ Cutting-edge modeling and simulation capabilities
- ▶ World-class researchers with a wide range of vehicle expertise

BENEFITS

Working with the U.S. Department of Energy (DOE) and the automotive industry, Argonne's vehicle research is helping to provide solutions to reduce our nation's petroleum consumption and greenhouse gas emissions. This includes:

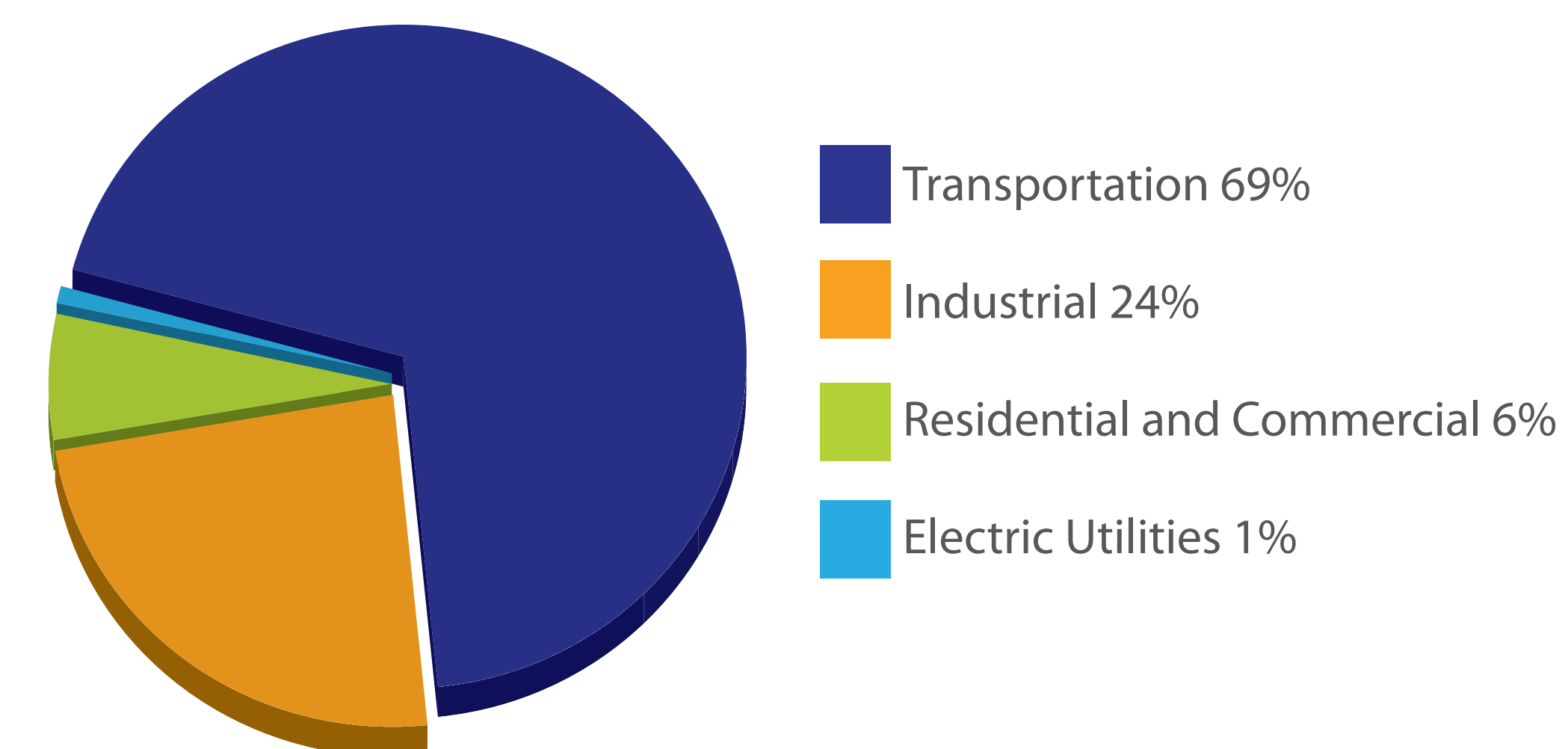
- ▶ Maximizing vehicle performance and efficiency through in-depth studies
- ▶ Accelerating the development of more energy-efficient and environmentally friendly transportation technologies
- ▶ Providing unbiased technical evaluations that help guide U.S. transportation policy

WHAT CAN YOU DO?

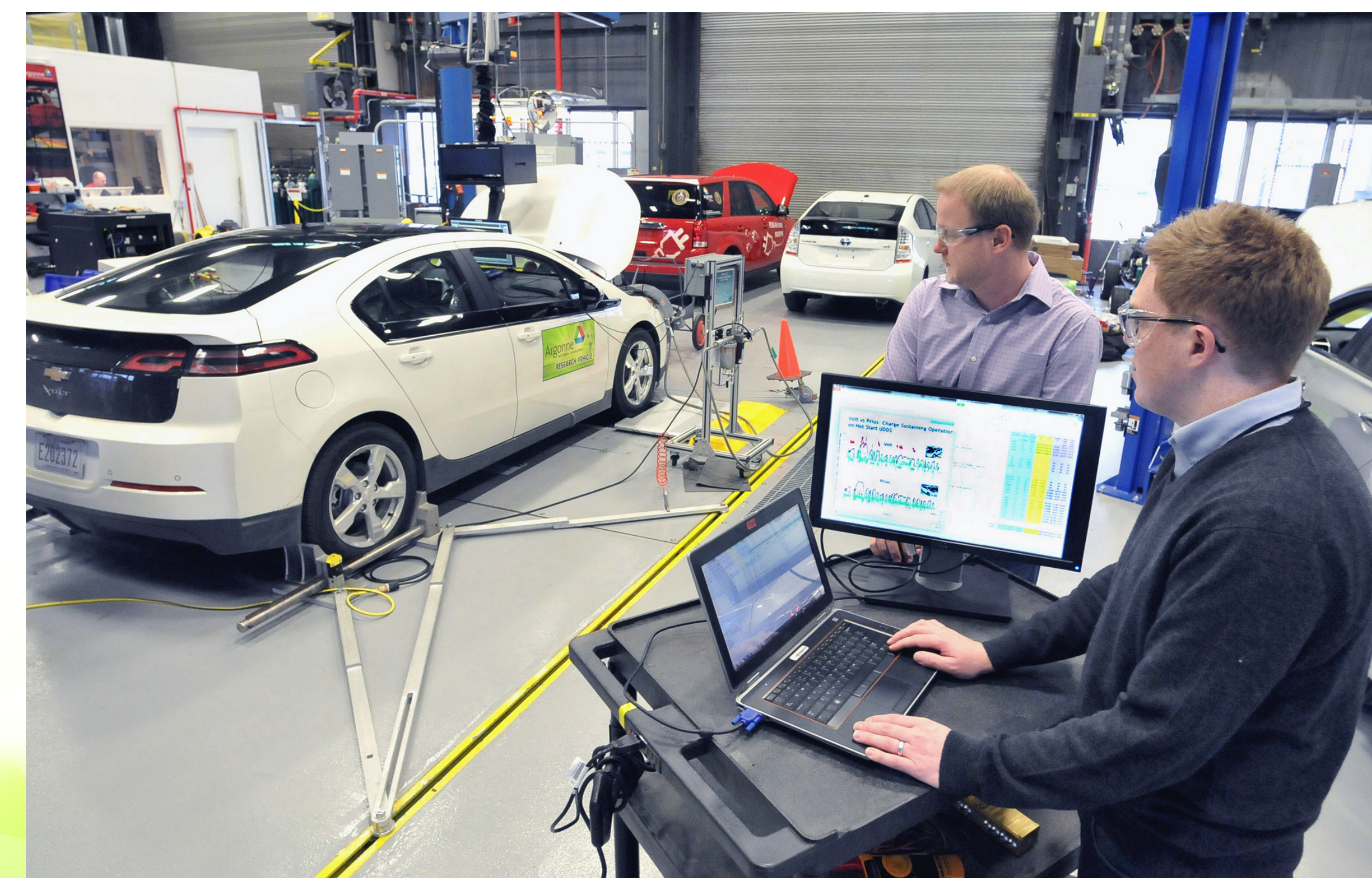
- ▶ Choose a car with better fuel economy
- ▶ Drive sensibly
- ▶ Keep your car maintained
- ▶ Plan combined trips

Research funding provided by the U.S. Department of Energy's Vehicle Technologies Program.

U.S. PETROLEUM CONSUMPTION BY SECTOR



The transportation sector was responsible for almost 70 percent of our country's petroleum use in 2011 (Source: Transportation Energy Data Book, Edition 31).



Argonne engineers Henning Lohse-Busch (left) and Eric Rask run dynamometer tests on a 2012 Chevrolet Volt, the first mass-produced plug-in hybrid vehicle.

