Vehicle Electrification Fact Sheet

Cars are a global problem.

US greenhouse gases: \[1\]

light-duty vehicles \(1/5\)

transportation \(1/3\)

urban air pollution costs an annual \$44B \[2\] in healthcare

Protecting US oil interests abroad costs \$31B/yr \[3\]

while

\$36B/yr is the "premium" associated with oil market volatility \[4\]

We can fix them.

Hydrogen fuel cells and advanced batteries

zero foreign oil far-term GHGs tailpipe emissions

+immediately cut \(50\%\) GHG emissions using H2 from natural gas \[5\]

It will take a portfolio of solutions to address the ills of our transportation sector. Fuel cells and batteries are only a start.

Hydrogen fuel cells are close to meeting car cost targets. \[6\]

Cost: \(-30\%\) from 2008-2010

\(-40\%\) needed 2010-2016

With auto companies promising fuel cell vehicles by 2015,

funding fuel cell research is critical to the transition to cleaner transportation.

And new vehicle tech alone is no silver bullet: Transit and active transportation are needed to meet GHG targets. \[7\]