

The Benefits of Clean Car Standards in Pennsylvania

Lowering Emissions Helps the Climate and Local Economy

HIGHLIGHTS

The National Program to increase fuel efficiency and reduce global warming emissions from our cars and trucks is the biggest and most important step the country has ever taken to reduce our use of oil. Thanks to this program, drivers in Pennsylvania will be able to drive cleaner cars that use the latest technology to consume less gas and produce less pollution. This program will reduce emissions, save consumers money and help grow our economy. It represents a critical part of the climate and energy strategy of Pennsylvania. It is critical that this program be fully implemented through 2025 to achieve maximum benefits.

Pennsylvania has set a statewide goal and crafted a plan to reduce its global warming pollution—goals that will require significant progress in lowering such pollution from transportation, which is responsible for 25 percent of statewide emissions (PA DEP 2009), most of which come from passenger vehicles

To reduce global warming emissions from cars and trucks, Pennsylvania is relying on national standards for fuel economy and global warming emissions. These standards, which represent the largest single step ever taken to improve the efficiency of light-duty vehicles, are a critical part of the state's climate strategy.

In addition to helping Pennsylvania achieve its emissions reduction goals, these standards will cut oil use and provide significant benefits to consumers, public health, and the broader economy. Indeed, analysis by the Union of Concerned Scientists (UCS) shows that these regulations are already benefiting Pennsylvania and could continue to do so, even at an accelerated pace, over the next decade.

Thanks to this program, cars and trucks are becoming more efficient, producing lower emissions, and putting money back in the hands of consumers. However, a governmental review of the standards is now underway, which gives detractors an opportunity to try to undermine the program.

Strong Standards Set, But Now Imperiled

Following California's lead in setting emissions standards for cars and trucks, which were subsequently adopted by 14 state governments (including Pennsylvania), in 2010 the US Environmental Protection Agency and the US National Highway Traffic Safety Administration issued joint fuel efficiency and emissions standards for cars and trucks sold in model years 2012–2016. Two years later, this program was extended to cover model years 2017–2025, thereby establishing



The National Program to increase fuel efficiency and reduce global warming emissions from our cars and trucks is helping households in Pennsylvania drive cleaner cars that use the latest technology to consume less gas and produce less pollution. These standards must be maintained in order for Pennsylvania to continue achieving high fuel efficiency and emissions reductions.

long-term guidelines for cutting fuel use—and reduce global warming emissions—from the average new car or truck by nearly 50 percent (UCS 2013).

These two standards, commonly referred to as the National Program, represent the biggest and most important step the United States has ever taken to reduce its consumption of oil and curtail global warming pollution from the transportation sector. When the program has been fully implemented, it stands not only to nearly double the fuel efficiency of cars and trucks and save consumers billions of dollars, but also decrease Pennsylvania's emissions of global warming pollution by more than 14 million tons per year.

Yet these goals may be in jeopardy. This year, federal agencies began a midterm review of the National Program for model years 2022–2025 to determine whether the standards should be adjusted. As our analysis shows, the full implementation of this program will be critical for Pennsylvania to protect its consumers from volatile oil prices, grow its economy, and achieve state global warming emissions targets.¹

Delivering Benefits to Pennsylvania Consumers

The National Program has already improved the fuel economy of all kinds of passenger vehicles, thereby cutting oil use and saving money for households throughout Pennsylvania.² Specifically, we estimate that:

- Since 2011, the vehicle standards have reduced oil consumption in the state by 312 million gallons.
- As a result, Pennsylvania drivers have saved more than \$1 billion—the equivalent of \$185 per household—in fuel costs over the past four years.
- By 2030, the average resident will have saved more than \$3,100 as a result of the program.

Strengthening the Pennsylvania Economy

By saving money at the pump, consumers will have more to spend in other sectors of the economy—from education to household needs—which can produce good local jobs (BLS 2012a). This means a stronger economy in Pennsylvania that is more resilient to fluctuations in the global price of oil.

- By 2030, the National Program is estimated to decrease overall oil consumption in Pennsylvania by 1.3 billion gallons per year, saving consumers \$4.7 billion in reduced gas expenses.
- As a result, the program is estimated to create more than 25,000 jobs in the state and increase its gross domestic product by more than \$2.5 billion by 2030 (Ceres 2011).

Reducing Emissions from Transportation

The National Program is the most important policy instrument we have for achieving Pennsylvania's emissions goals and ensuring that the state continues to make progress toward a clean and sustainable future. In the face of low gas prices and the resulting driving distances that, these vehicle standards are a cornerstone of the state's strategy to curtail transportation emissions.

- The National Program has already reduced annual transportation related emissions in Pennsylvania by 1.4 million metric tons.
- By 2030, the program will have lowered the state's global warming emissions by 14.1 million metric tons per year, the equivalent of shutting down almost four coal-fired power plants.

The Critical Role of State Leadership

The National Program set historically ambitious standards because the strong leadership of state governments pushed the envelope and catalyzed federal action. As a result, Pennsylvania is now counting on this program to achieve its climate goals, protect its consumers, and grow its economy. The state's leaders must make it clear to policymakers in Washington that the national standards need to remain strong through 2025 and beyond.

¹ This analysis utilizes the methodology of UCS and NRDC 2010, updated to reflect the most recent census data (US Census Bureau 2016) and latest projections of energy consumption (EIA 2015).

² Data for all 50 states can be found at www.ucsusa.org/FuelEconomySavings.

REFERENCES

- Bureau of Labor Statistics (BLS). 2012. *Employment and output by industry*. Department of Labor. Online at www.bls.gov/emp/ep_table_207.htm.
- Ceres. 2011. *More jobs per gallon: How strong fuel efficiency/GHG standards will fuel American jobs*. Boston, MA. Online at www.ceres.org/resources/reports/more-jobs-per-gallon.
- Energy Information Administration (EIA). 2015. *Annual energy outlook 2015*. Washington, DC. Online at [www.eia.gov/forecasts/aeo/pdf/0383\(2015\).pdf](http://www.eia.gov/forecasts/aeo/pdf/0383(2015).pdf).
- Georgetown Climate Center (GCC). 2015. *Reducing greenhouse gas emissions from transportation: Opportunities in the Northeast and Mid-Atlantic*. Washington, DC. Online at www.georgetownclimate.org/files/GCC-Reducing_GHG_Emissions_from_Transportation-11.24.15.pdf.
- Pennsylvania Department of Environmental Protection (DEP). 2009. Chapter 3: Inventory and projections of GHG emissions. In *Pennsylvania final climate change action plan*. December 18. Online at www.elibrary.dep.state.pa.us/dsweb/Get/Document-77715/06%20Chapter%203%20I&F.pdf.

Solomon, T. 2016. 2015 likely to have broken record for vehicle miles traveled. *Fast lane*. Washington, DC: US Department of Transportation. Blog, January 25. Online at www.transportation.gov/fastlane/2015-likely-have-broken-record-vehicles-mile-traveled.

Union of Concerned Scientists (UCS). 2015. *Tomorrow's clean vehicles, today*. Cambridge, MA. Online at www.ucsusa.org/sites/default/files/attach/2015/05/tomorrows-vehicles-today.pdf.

Union of Concerned Scientists and Natural Resources Defense Council (UCS and NRDC). 2010. Saving money at the gas pump. Online at www.nrdc.org/sites/default/files/ene_10092301a.pdf.

US Census Bureau. 2016. Numbers generated using American FactFinder. June 15. Online at http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=DEC_10_SF1_GCTP4.ST13&prodType=table.

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