Defend Clean Cars



The best way to get clean cars to Virginia is through the Clean Cars standards. The General Assembly passed landmark legislation in 2021 requiring adoption of these standards for new passenger vehicles and light-duty trucks (HB1965). The Air Pollution Control Board unanimously adopted the provisions in December 2021. Clean cars provide significant environmental, health, consumer, and economic benefits, and any attempt to roll back these standards should be defeated.

What the Clean Cars standards do

The Clean Cars standards are one of the most important tools we have to reduce tailpipe pollution. These standards only apply to vehicle manufacturers; there are no requirements auto dealers or individuals must meet. The provisions also only apply to new passenger cars and light-duty trucks, not to used car sales, medium- or heavy-duty vehicles (like semi-trucks), or farm vehicles.

Starting in model year 2025 (calendar year 2024), vehicle manufacturers will have to meet:

- Low-Emission Vehicle (LEV) standards limit the average emissions from all passenger cars and light-duty trucks delivered for sale in Virginia. These average emission standards become more stringent over time.
- Zero-Emission Vehicle (ZEV) standards require a certain percentage of ZEVs to be delivered for sale in Virginia (generally electric vehicles (EVs)). This percentage increases over time, and the standards should result in about 8% of new car sales being EVs in 2024. Flexibility is built into the standards through banking and trading of credits to meet targets, and even in 2035, when 100% of new vehicle sales must be ZEVs, up to 20% of those sales can be plug-in hybrid EVs with gas tanks.

Benefits

The Clean Cars standards will bring both cleaner gas-powered vehicles and a greater number and variety of ZEVs to the Commonwealth, providing a multitude of benefits:



Combat climate change

Transportation is the largest source of carbon pollution in Virginia—producing almost half of our CO2 emissions, and over 53% of transportation CO2 pollution comes from passenger cars and other light-duty vehicles.¹ Electricity to power an EV in Virginia emits less than 17% of the CO2 emitted by an equivalent gas car and the grid will only get cleaner over time.² The Clean Cars standards are projected to reduce Virginia's CO2 emissions by approximately 139.2 MMT from 2026 to 2040, as measured along the entire well-to-wheel lifecycle.³



Improve public health and equity

Widespread transition to EVs could, by 2050, yield more than \$1.3 billion in avoided annual health costs in Virginia and avoid 115 premature deaths, more than 1,780 asthma attacks, and nearly 8,190 lost workdays each year.⁴ And transportation pollution disproportionately impacts low-wealth communities and communities of color.⁵

Expand consumer choice

Vehicle manufacturers prioritize sending EVs to states that have adopted Clean Cars standards. Even though nearly 70% of Virginia drivers would consider buying an EV in the near future,⁶ one-third of EVs registered in Virginia were purchased out-ofstate.⁷ The Virginia Automobile Dealers Association supported adoption of the Clean Cars standards in part to gain better access to EV inventory.

Save consumers money

A number of competitively-priced EVs are already on the market and the price of EVs could soon reach parity with gas cars.⁸ Owning an EV also saves the typical driver between \$6,000 and \$10,000 over the lifetime of the vehicle compared to a gas-powered car due to reduced fuel and maintenance costs.⁹ In 2021, Virginians spent almost \$11 million on imported gas.¹⁰ EV drivers typically spend the equivalent of \$1 per gallon for a full charge and a typical EV can be driven 150 to 400 miles before it needs to be recharged.¹¹

Accelerate market changes

Vehicle manufacturers, not dealers, must comply with Clean Cars standards. At least 17 major manufacturers have promised to electrify a significant portion of their vehicles by 2030 and others, like Honda and Hyundai, aim to have 100% EV sales by 2040.¹² By planning for compliance at the national level, manufacturers choose to first send their EVs to states that have adopted the Clean Cars standards and they can decide to send these vehicles to parts of the state where they are most likely to sell. As of 2021, the most recent year for which data is available, all vehicle manufacturers have complied with the ZEV portion of the Clean Cars standards.¹³

Bring economic growth to Virginia

Beyond making more EVs available for purchase in the Commonwealth, Clean Cars standards could produce almost 30,000 new jobs in Virginia¹⁴ and result in \$814.5 million in total net benefits.¹⁵



Build on Virginia's commitment to EV infrastructure

EV charging stations are being rapidly deployed across the state. As of September 2023, there are approximately 1,190 public charging stations in Virginia.¹⁶ DEQ has already allocated funding from the Volkswagen settlement to expand charging infrastructure that will put 95% of Virginians within 30 miles of a charger.¹⁷ Over \$100 million from the federal infrastructure act will help to further build out charging infrastructure,¹⁸ in addition to other available competitive grant opportunities and the installation of chargers by the private sector.¹⁹

Become an EV leader without stressing the grid

The Clean Cars standards are projected to result in only about 4% higher electricity sales in model year 2040 compared to the increase in electricity sales

Solutions for Virginia

EVs help combat climate change and improve the lives of everyone in the Commonwealth.

Save consumers money

EV drivers typically spend the equivalent of **\$1 per gallon** for a full charge and a typical EV can be driven **150 to 400 miles** before it needs to be recharged.

Improve public health

Widespread transition to EVs could **yield billions in avoided annual health costs** and avoid 115 premature deaths, more than 1,780 asthma attacks, and nearly 8,190 lost workdays each year.

Reduce electricity rates

If smart policies are put in place, widespread EV adoption can lead to **savings for all ratepayers**, whether they drive an EV or not.

Consumer choice

Vehicle manufacturers **prioritize sending EVs to states that have adopted the Clean Car standards**, so more EVs and EV models will be available for purchase in Virginia sooner with these provisions in place.



that would otherwise occur from EVs. Even with the additional demand associated with the Clean Cars standards, energy sales from EVs are projected to account for less than 9% of total electricity sales 18 years from now. By comparison, the rapid rise of data centers has led to that industry consuming roughly 20% of the electricity in Virginia today—yet the grid has not crashed.²⁰

Reduce overall electricity rates

According to the State Corporation Commission, if smart policies such as time-of-use rates are put in place, widespread EV adoption can put downward pressure on electricity rates and lead to savings for all ratepayers, whether they drive an EV or not.²¹



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