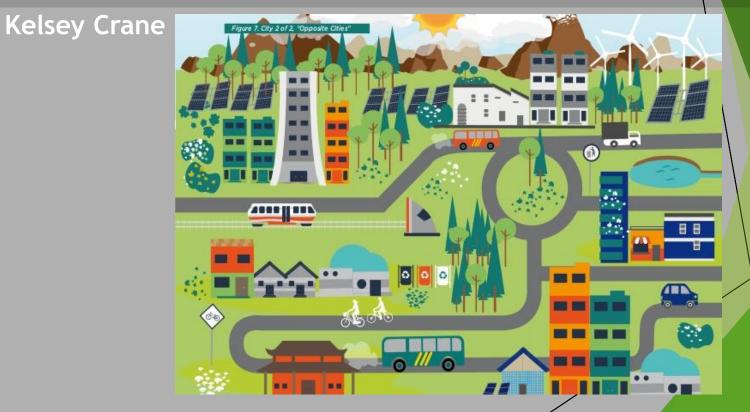
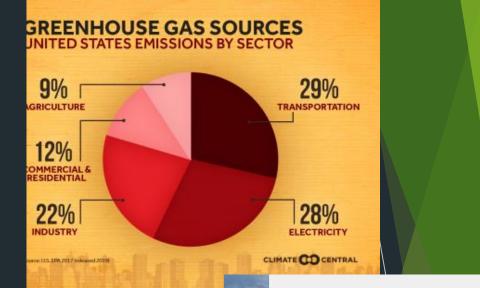
VIRGINIA CHAPTER VIRGINIA CHAPTER Virginia's Clean Transportation Future



Why Clean Transportation?

For our health
 For environmental justice

For Climate Action

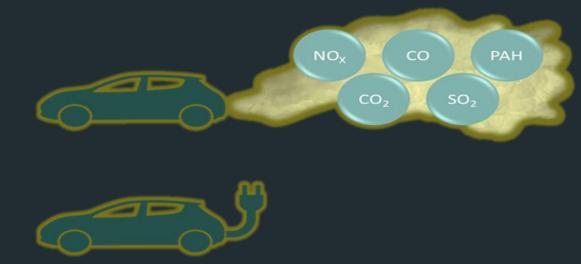


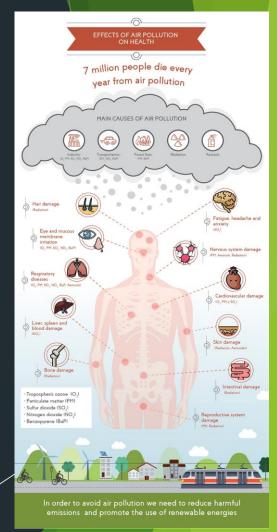
We are the first generation to feel the effects of climate change and the last generation who can do something about it.

BARACK OBAMA

For Our Health

Transportation accounts for <u>more than half of air pollution in the United</u> <u>States</u>, and automobiles are the primary mobile source. Traffic-related air pollution (TRAP) contains many pollutants: particulate matter, carbon monoxide, volatile organic compounds, nitrogen oxides, sulfur dioxide, and greenhouse gases.





For Environmental Justice

Air pollution from transportation is causing disproportionately greater harm to people of color living in the Northeast and Mid-Atlantic.

More people die each year from air pollution caused by transportation than in car accidents.

[Concerned Scientists

Inequitable Exposure to Air Pollution from Vehicles in the Northeast and Mid-Atlantic

Who Bears the Burden?

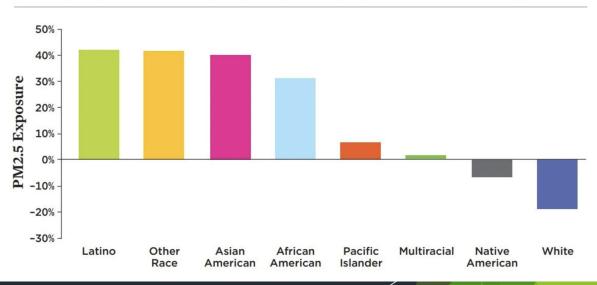
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The UCS analysis of annual average PM_{2.1} concentrations due to cars, when and buses in the Northeast and Mid. Atlantic finds that:



Millions of real-loss in the Northoust and NoL-Advants for near-reagin highways and other centers, and are exposed in high levels of which are an application, is yettakin New Yerk (2) reaghborhands, guilation levels are 3.7 times higher than the regional everage. People of other are dispergersionably exposed to more of the pollution. Disproportionately High Exposure for People of Color in the Northeast and Mid-Atlantic



Source: https://www.ucsusa.org/resources/inequitable-exposure-air-pollution-vehicles

Climate Action - For Our Future

We are facing a climate crisis. We need bold action. But climate change isn't just an environmental issue. It's a human issue.

Cars shouldn't give our kids asthma,

make wildfires worse

melt glaciers

or raise sea levels.

We already have the ability to make cars that don't harm our health.





Virginia, the US and globally - we cannot not achieve the necessary reductions to avoid the worst impacts of climate change without significant changes to how communities and transportation systems are planned, funded, and built

Paths to a Clean Transportation Future

- Local Solutions Walkable, bikeable communities with mixed use area and strong public transit systems - people's needs are close by and there are many ways to get around (cuts VMT)
- **Stronger Air Pollution Standards** To keep our air clean and our climate safe, we need to put stronger standards for cars and trucks fuel economy and greenhouse gas emissions (reduces tailpipe emissions)
- Electrifying Vehicles incentivizing a widespread shift to electric vehicles (EVs) from compact cars to transit buses (eliminates GHG and air pollution)

Legislative Opportunities in 2021

- 1. Adopting Advanced Clean Car Standards in Virginia (Bagby/Sullivan)
- **2.** Transit Modernization study to Identify needs in our public transit systems (McQuinn)
- 3. Electric Vehicle Rebates a state tax rebate program for EV buyers, in addition to federal rebate (Reid)
- 4. Electrify school buses in Virginia



Advanced Clean Car Standards

The Advanced Clean Cars combine control of smog-causing (criteria) pollutants and greenhouse gas (GHG) emissions into a single, effective coordinated package of regulations.

Adopting Advanced Clean Car standards would put Virginia on a progressive pathway to achieve a full transition to 100% clear transportation.



State Incentives

In the US, if you buy an electric car then you are eligible to receive up to \$7,500 in federal tax credits.

Virginia can offer additional statebased electric vehicles and incentives like a rebate.

In states that have implemented state incentives like EV rebates, it has had a significant impact on adoption and persuades more manufacturers to make their cars available in those states.



Transit Modernization Study



Directs the Department of Rail and Public Transportation to "complete a needs assessment focusing on the equitable delivery of transportation services and modernization of transit in the Commonwealth."

- appropriate shelters and benches; real-time arrival signs;
- GPS technology to live-track buses and rail cars
- integrated payment systems;
- dedicated bus lanes;
- transit electrification infrastructure;
- improved system maps;
- workforce structure, including pay structure
- accessibility of bus stops and routes
- safety measures and pedestrian infrastructures

rider representation on governing boards and commissions. Study should be completed by November 30, 2021

2021 is the year we put VA on the path to a 100% clean transportation future





Virginia Clinicians for Climate Action How Clean Cars Save

Lives Homan Wai, MD hwai@virginiaclinicians.org

Lillian Singer, BS – MS4 lsinger@mymail.vcu.edu

Poor air = Poor health









Transportation Pollution in VA

Transportation accounts for 45% of Virginia's CO₂ pollution.

Decarbonization policies not only lowering greenhouse gas emissions which drive climate change, but also reduce air pollutants such as fine particulate matter ($PM_{2.5}$)

PM_{2.5} pollution is associated with increases in premature mortality and cardiovascular and respiratory morbidity.





The American Commute

27 minutes: the average American commute one way

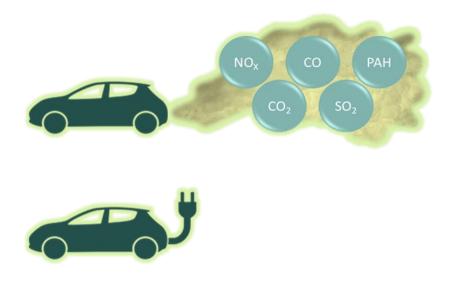
4.3 million: solo drivers commuting 90+ min <u>one way</u> in 2018, compared to 3.3 million in 2010

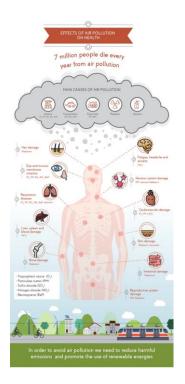




The science behind emissions

Transportation accounts for <u>more than half of air pollution in the United</u> <u>States</u>, and automobiles are the primary mobile source. Traffic-related air pollution (TRAP) contains many pollutants: particulate matter, carbon monoxide, volatile organic compounds, nitrogen oxides, sulfur dioxide, and greenhouse gases.







VCCA Transportation Report



VCCA prepared an assessment of health burden based on VA $PM_{2.5}$ levels and an analysis of potential health benefits of clean car policies in 2035.

The public health burden includes the number of premature mortalities, hospital admissions, emergency department (ED) visits, and other morbidity impacts associated with PM levels, and how those effects may be distributed among vulnerable communities in the state.

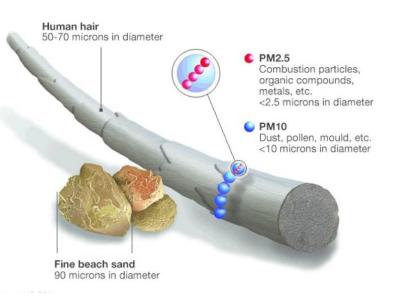




Key Findings- Particulate Matter (PM_{2.5})

- Annual observed mean PM_{2.5} levels in Virginia between 6 and 9 µg/m³. May be higher in "hot spots" near roadways or downwind of point sources.
- Health impacts of all PM_{2.5} levels in Virginia:

3,000 premature deaths230,000 child asthma attacks110 strokes360,000 lost work days





How Patients are Affected



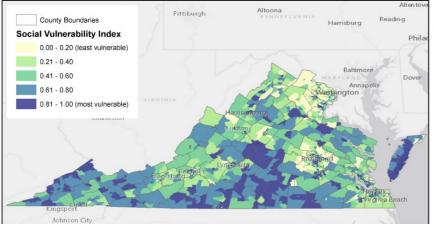




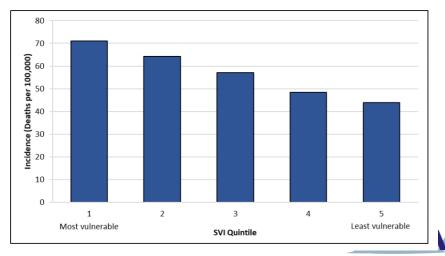
EXHIBIT 3. 2018 SVI BY CENSUS TRACT

Justice

- Socially vulnerable populations experience
 61% higher death rates in Virginia due to air pollution.
- The CDC defines social vulnerability as being impacted by factors including socioeconomic status, household composition and disability, minority status and language, and housing type and transportation options.







Virginia Clinicians for Climate Action

Role of Clinicians





Role of Clinicians in training



VIRGINIA COMMONWEALTH UNIVERSITY

School of Medicine



SCHOOL OF MEDICINE



e Action

Virginia Emerging as Clean Energy Leader

Virginia made great strides to lower greenhouse gases and air pollution from electricity sector in 2020.

The enacted Virginia Clean Economy Act mandates the following:

100% renewable energy generation in the state by 2050

VA Join Regional Greenhouse Gas Initiative

- Virginia now considering adopting Section 177 of the Clean Air Act to set stronger standards in Low Emission Vehicles (LEVs), greenhouse gas (GHG) emissions, and Zero Emission Vehicles (ZEVs).
- These policies would be expected to generate health, economic, and climate benefits in terms of reduced GHG emissions and reduced concentrations of pollutants such as PM_{2.5}.



Learn More

Visit our Transportation Page: https://www.virginiaclinicians.org/tra





Watch our "Transportation and Health in Virginia" Videos: <u>https://www.youtube.com/playlist?li</u> <u>st=PLCoaLNEKCga0B-</u> <u>NnbjGwdIIJ9kE5uPtSB</u>

Read our Transportation Report:



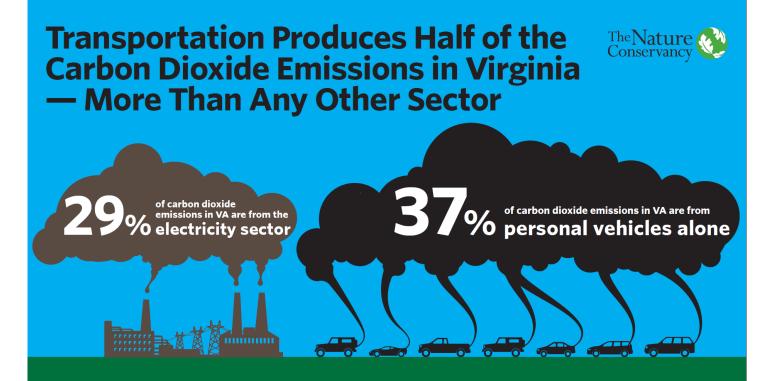




Questions?

Overview of Clean Cars Bill

Lena Lewis Energy and Climate Policy Manager The Nature Conservancy January 7, 2020 Lena.lewis@tnc.org



Virginia needs policies to

Reduce personal vehicle miles traveled

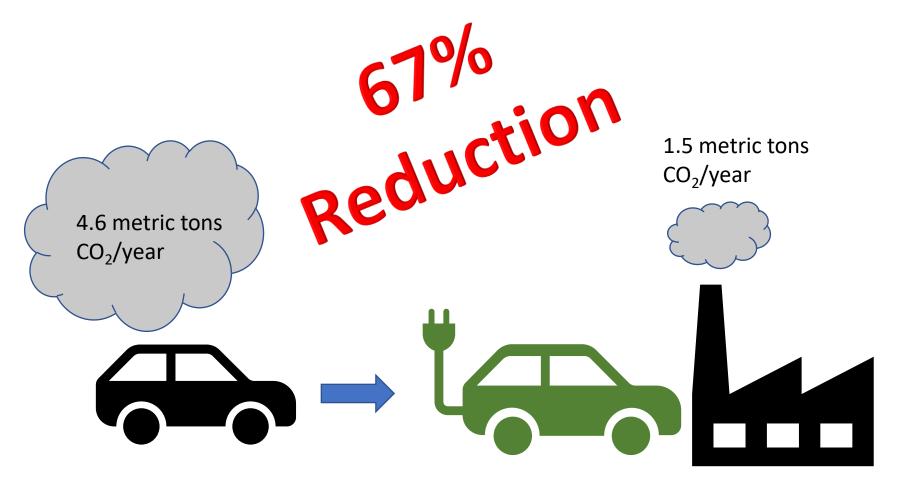
Investing in more convenient, reliable public transit and access to safer biking and walking options will lower emissions, create job opportunities, and improve public health.

Transition quickly to electric vehicles

Powering an electric vehicle creates only 1/3 the carbon dioxide emissions of an average gas-powered one.

SOURCES

US Energy Information Administration 2017 Data US Environmental Protection Agency Air Emissions Inventory 2014 Data Union of Concerned Scientists "How Clean Is Your Electric Vehicle?"

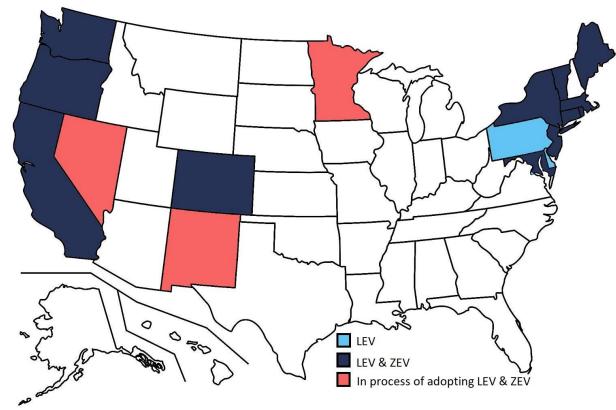


Virginia Power Plants

Average passenger car

ZEV State = Zero Emission Vehicle Standard

- A small percent of each manufacturer's sales in a ZEV state must be zero-emissions or hybrid plug-in electric. Percent increases over time.
- Customers still have choice of conventional vehicles
- Increases customer choice and accessibility to EVs
- Manufacturers prioritize sending EVs to ZEV states over other states



Clean Cars Legislation in Virginia

Del. Bagby & Del. Sullivan

• ZEV = Zero Emission Vehicles

- Give customers choice and access to EVs
- Increase diversity of EV models for sale
- Send message to manufacturers: go all in on electric vehicles

• LEV = Low Emissions Vehicle Standards

- Gas-powered cars & SUVs will have lower emissions on average than under federal standards
 - Climate benefits
 - Immediate health benefits
 - Saves money

Why now?

- 2-year wait period before manufacturers have to comply
- 19 years for 90% of fleet on the road to be replaced
- does not require raising taxes

We need your help to get this bill passed!

- Ask your legislators to *lead* on supporting this bill
- Ask Gov. Northam to support
- Recruit others to join grassroots efforts
- Share your story of trying to buy an EV <u>here</u>.



Questions?

Legislative Advocacy for Grassroots Advocates: Clean Cars Standards

What to Expect





Brief Education on General Assembly

- Bill to law process
- Nuances of lawmaking procedures

Advocacy Best Practices

- Tracking Legislation
- Lobbying Do's and Don'ts
- Engaging Committees

Action Opportunities

- Contact
 Representatives
- Sign up for Legislative Advocacy Updates

Legislative Session Explained

- Legislative Session = time new laws introduced /passed
- Types of "session":
 - Regular Session
 - Special Session

Regular Session

- Starts on second Wed. of January
- Lasts 60 days in even years
- 45 days in odd years (typically)

Important moments:

- Filing Deadline
- Crossover
- Budget Sunday



Two Chambers: House And Senate

- House = 100 Members
 - 55 Dems/ 45 Reps
- Senate = 40 members
 - 21 Dems/ 19 Reps

Powers of ALL GA Members:

- Write/Introduce Bills
- Vote on legislation
- Serve on committees

Virginia General Assembly

Money in Politics

- Over half of GA members accept 1/3rd of campaign contributions from private special interests
 - Majority = Dem
 - 22 Dems take half or more
 - 10 Dems of Senate
- Dominion Listed as Top 10 Donor for BOTH parties

Perspective Limits

- Majority of members' background represent business, legal, PR firms, financial backgrounds (76)
 - 14 are educators
 - 6 Medical Pros
 - 5 come from non-profit
 - 1 Transportation professional

Source: Virginia Public Access Project (VPAP)

<u>Why Grassroots</u> <u>Advocacy</u> <u>Matters</u>

Demographics

Race

- Caucasian (110 members / 78.57%)
- African-American (21 members / 15.00%)
- Asian (4 members / 2.86%)
- Hispanic (4 members / 2.86%)
- Multiracial (1 members / 0.71%)

Age

- Over 55+ = 73 members
- Under 45 = 32 members

Source: Virginia Public Access Project

Why Grassroots Advocacy Matters (Part. 2)

Lawmaking Process



GA Member has an Idea for A law

- Gets idea from lobbyist, advocacy group, constituent
- > Sends bill to DLS
- DLS drafts into legal language
- Legislator becomes "Chief Patron"



Bill is Sent to Committee

- (House) Speaker sends, (Senate)
 Clerk Sends
- Committee holds PUBLIC hearing
- They listen to testimony
- Vote on Action for a Bill (more later)



<u>Bill Is Voted on</u> (must Pass Both <u>Chambers)</u>

- Every member casts a vote
- Bill is sent to opposite chamber
- Committee
 Process starts all over again



Governor offers changes or signs into law

- Can "Line-Item Veto" or fully reject
- Vetoes are reviewed in April
- Laws go into effect July 1 of that year (unless otherwise

Lawmaking Process: Advocacy Opportunities



Lawmaking Process: Advocacy Opportunities



- representative
- Track legislation into next
 Chamber
- Repeat Committee Tactics

<u>Governor offers changes</u> <u>or signs into law</u>

Contact Governor's Constituent Service Office!

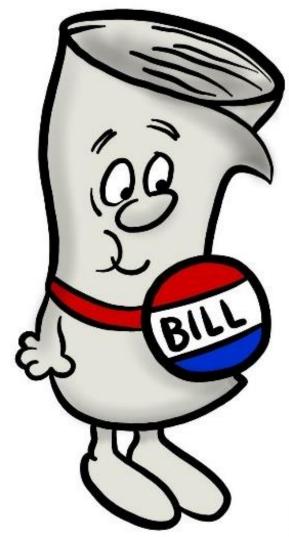
 Ask representatives to vote against veto (if applicable)

Tracking Legislation

• Tools

- Virginia Legislative Information System (LIS)
- Virginia Public Access Project
 - Search bill by issue
- Method
 - Check status of the bill
 - What committee it's in
 - When it's up for full vote

Let's look at some examples!



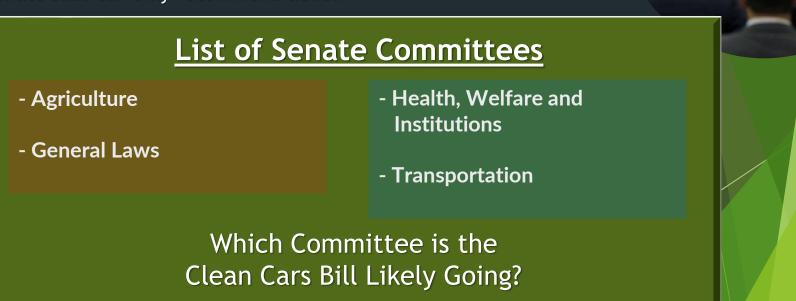


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01/12/19 House: Assigned P & E sub: Subcommittee #1	11/26/18 House: Referred to Committee on Privileges and Elections	
	01/12/19 House: Assigned P & E sub: Subcommittee #1	

Understanding Committees

Think of them as gatekeepers

- Designated by topic
- Most have subcommittees
 - House subs can kill a bill
 - Senate subs can only recommend action



Understanding Committees

Bill Actions require one member to "move", additional member to "second" for a committee vote on one of these options:

Committee Actions

- *Report* = Bill Moves On (only success action)
- Pass-By-Indefinitely = Kills the Bill
- Pass-by-for-the-day = Bill considered next meeting
- Strike = Removes bill from consideration
- Refer = Sends bill to a different committee
- Table "Lay on the Table" = Effectively kills the bill
- Incorporate = the bill is absorbed into another one





Lobbying.

Your chance to leave an Impression -Explain why you care

DIO

-Use your constituent credentials

-Bring a handout

-Tell Personal Stories

-Give them a hard ask

DON'T

- View them as celebrities

- Debate

- Stray from the point
- Only bring up facts, studies, etc.

Engaging Committees

Advantages

- Less members to convince
- Media is present
- ANYONE can speak!

Testifying Tips

- Say where you are from, why you are there
- Speak about personal impact
- Keep Remarks Brief

ek diseu

• Thank Chair and Committee

Future Actions

Sign Up for Lobby Days!

Legislative Advocacy Update Forums
Take Action Right Now!

Transportation
Environmental Justice
Pipelines

Questions?

Contact Information

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- Tim Cywinski Tim.cywinski@sierraclub.org