

Presentation for
**Albemarle County
Crozet Community Advisory
Committee**

Albemarle County Climate Protection Program

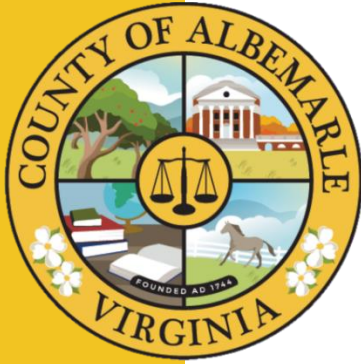
Gabe Dayley

Climate Protection Program Manager

gdayley2@albemarle.org

albemarle.org/climate | albemarle.org/stewardship

May 11, 2022



Agenda



Framing the Discussion



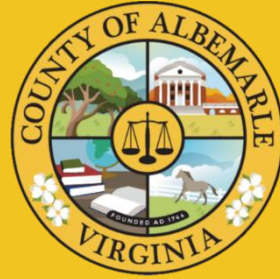
Climate Protection Program Update



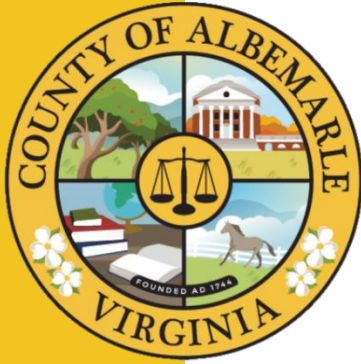
Climate Action & Comprehensive Plan



How You Can Get Involved



Framing the Discussion

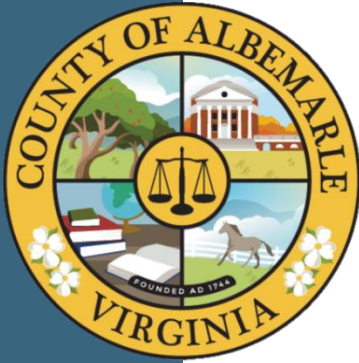


Framing the Discussion

1. Climate change is big and can feel overwhelming.
2. Acknowledging our reactions to climate change helps us move toward action.
3. You can be a part of the solution.

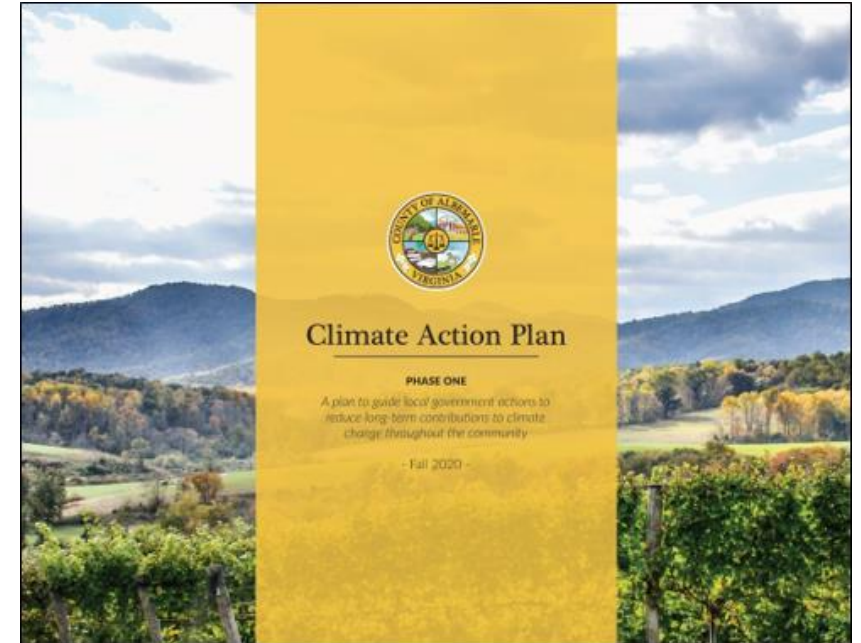


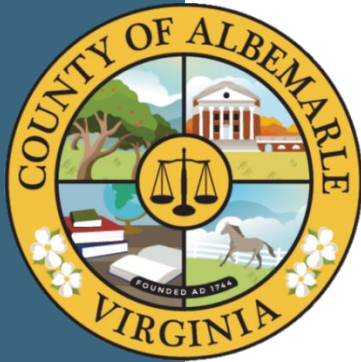
Climate Protection Program Update



Climate Action Plan

- Adopted in 2020
- Key themes:
 - Health
 - Economy
 - Environment
 - Equity
- Guides work toward greenhouse gas emission reduction targets for 2030 and 2050





Climate Action Plan

Transportation & Land Use



Building Energy Use



Renewable Energy Sourcing

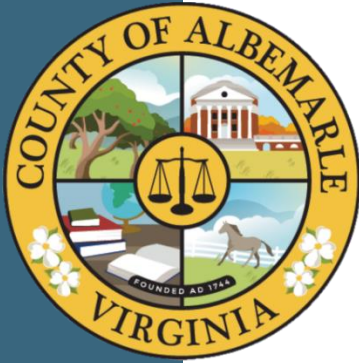


Sustainable Materials Management



Landscape, Natural Resources, Ag





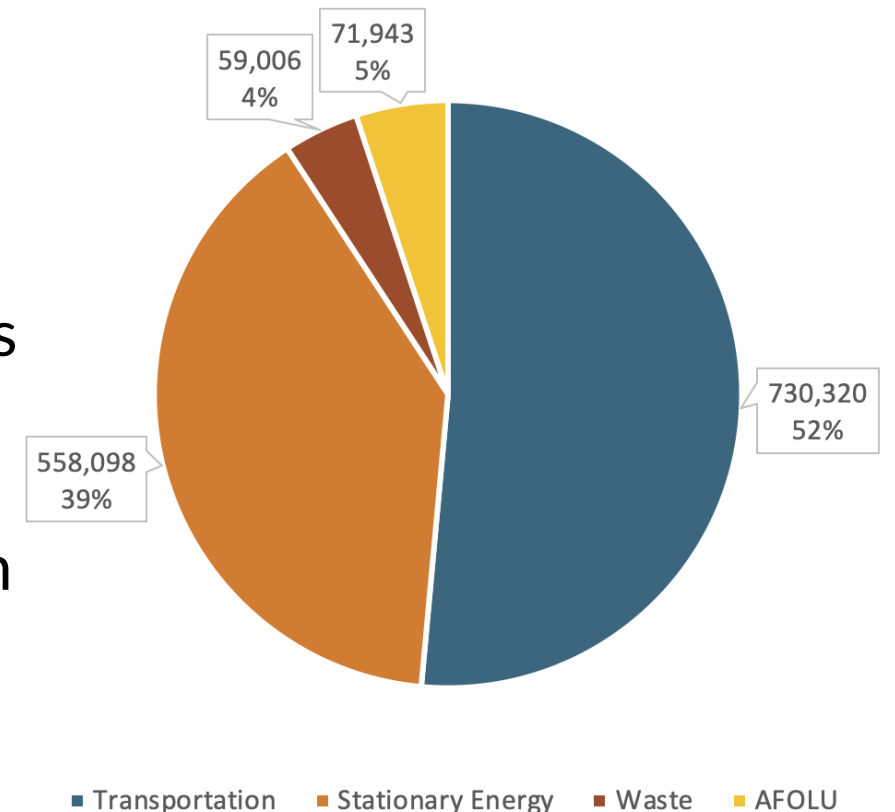
Greenhouse Gas Inventory

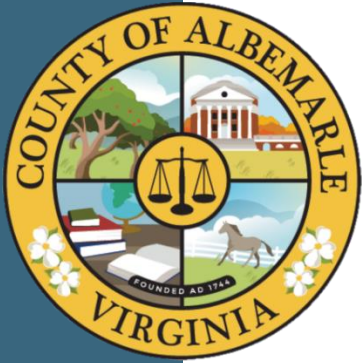
Greenhouse Gas Emissions in 2018 (tCO₂e)

Albemarle County targets:

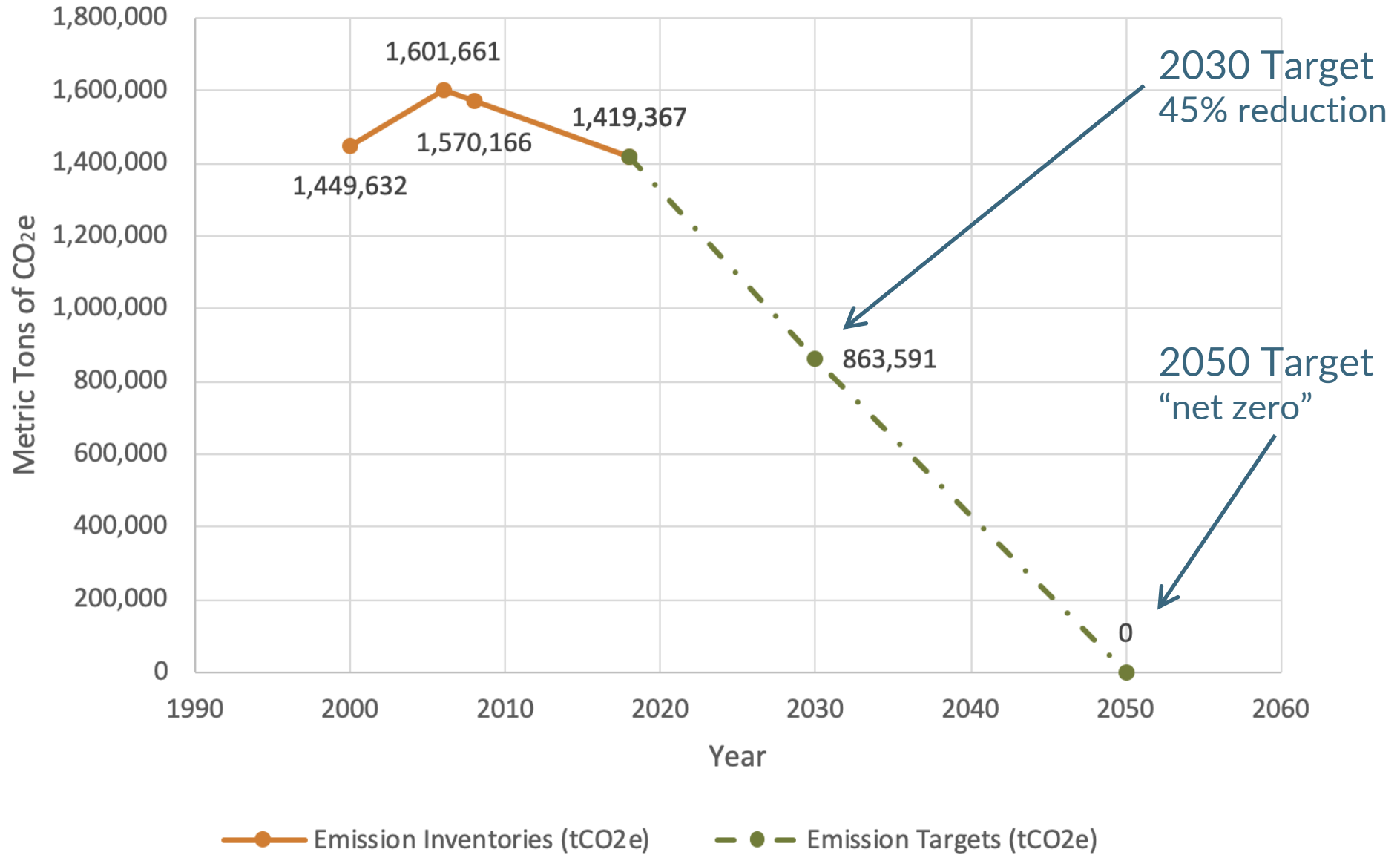
- Reduce emissions by 45% from 2008 levels by 2030
- Achieve zero net emissions by 2050

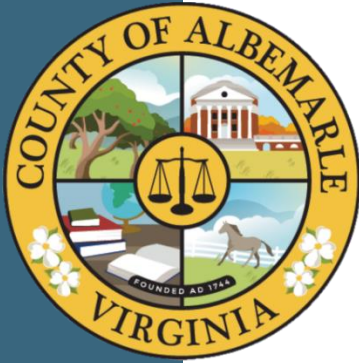
A greenhouse gas (GHG) emission inventory is our main tool for monitoring progress toward meeting these targets.





Greenhouse Gas Emissions and Targets





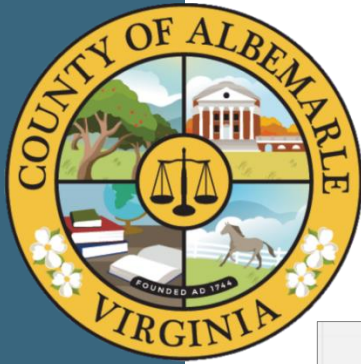
Current Program Activities

Climate Action Plan Implementation

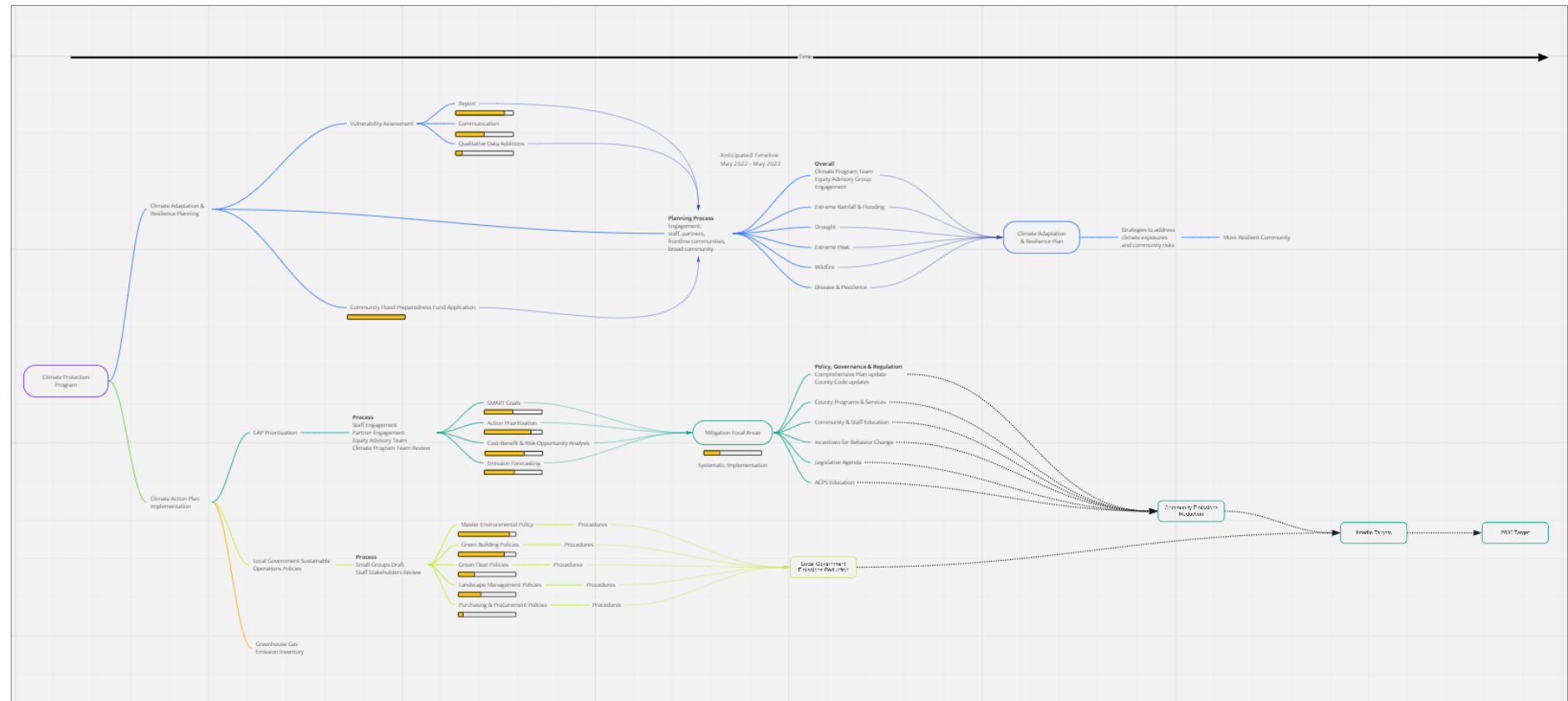
- Prioritize community-oriented actions
- Local Government Sustainable Operations Policies
- 2020 Greenhouse Gas Emission Inventory

Climate Adaptation & Resilience Planning

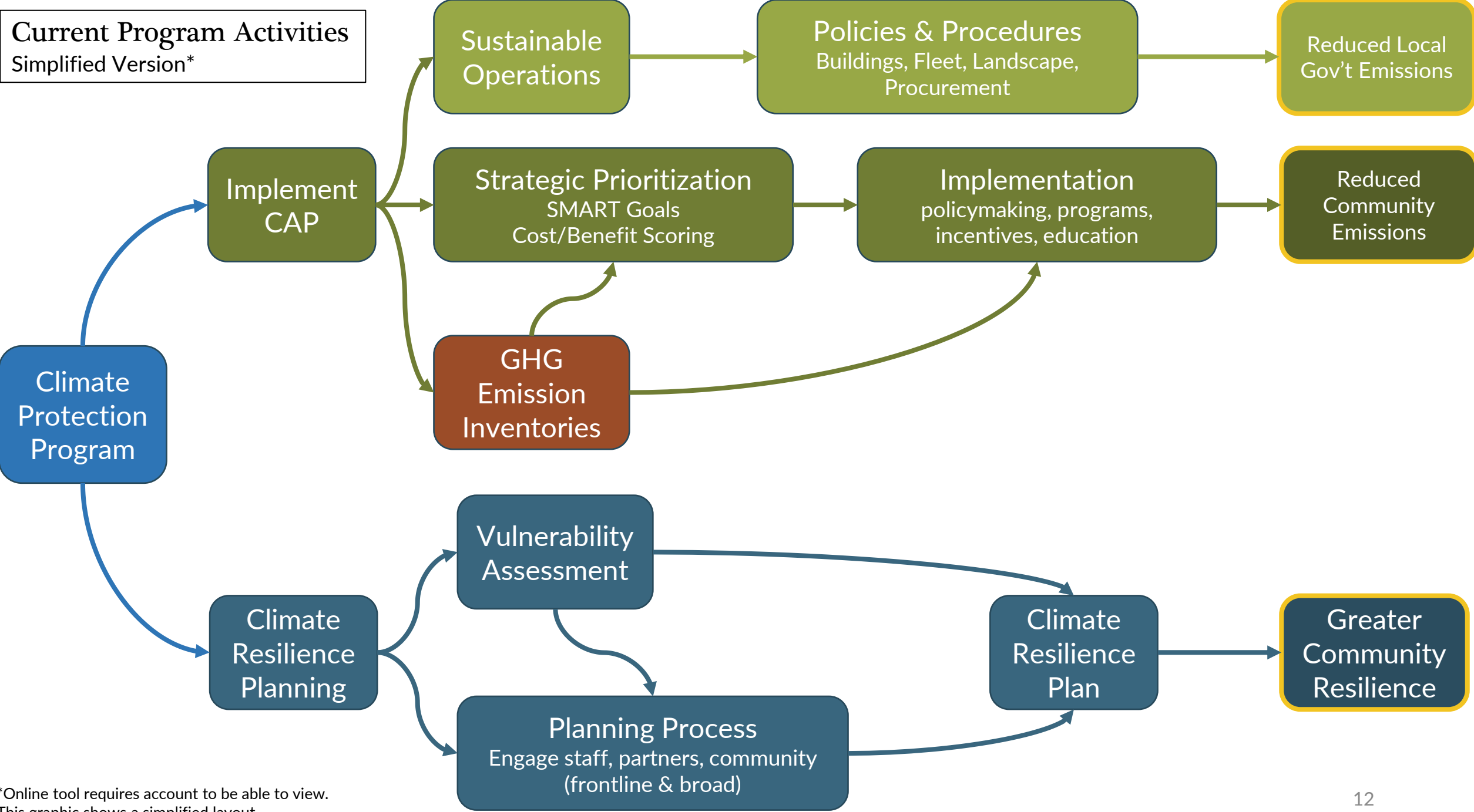
- Vulnerability & Risk Assessment
- Planning Process
- Topics:
 - Extreme Precipitation
 - Extreme Heat
 - Drought & Wildfire
 - Disease & Pestilence



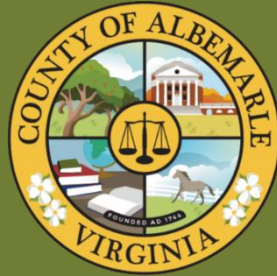
Current Program Activities



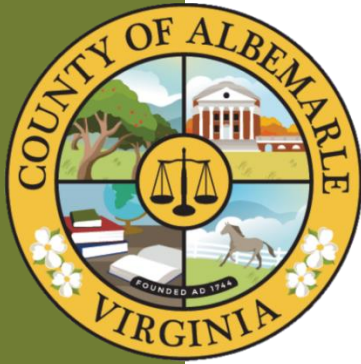
Current Program Activities
Simplified Version*



*Online tool requires account to be able to view.
This graphic shows a simplified layout.



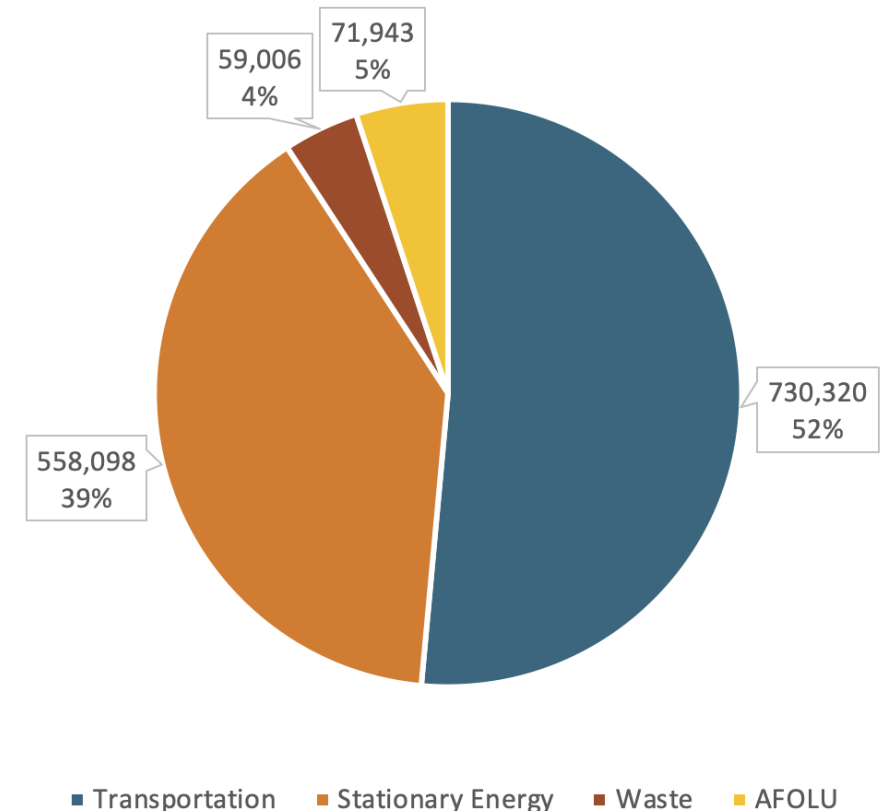
Climate Action and the Comprehensive Plan Update

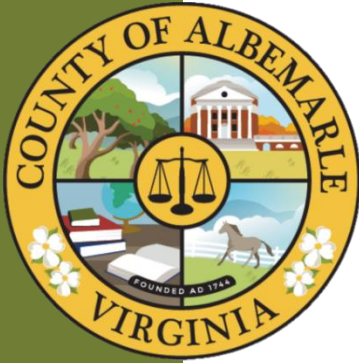


Greenhouse Gas Emissions

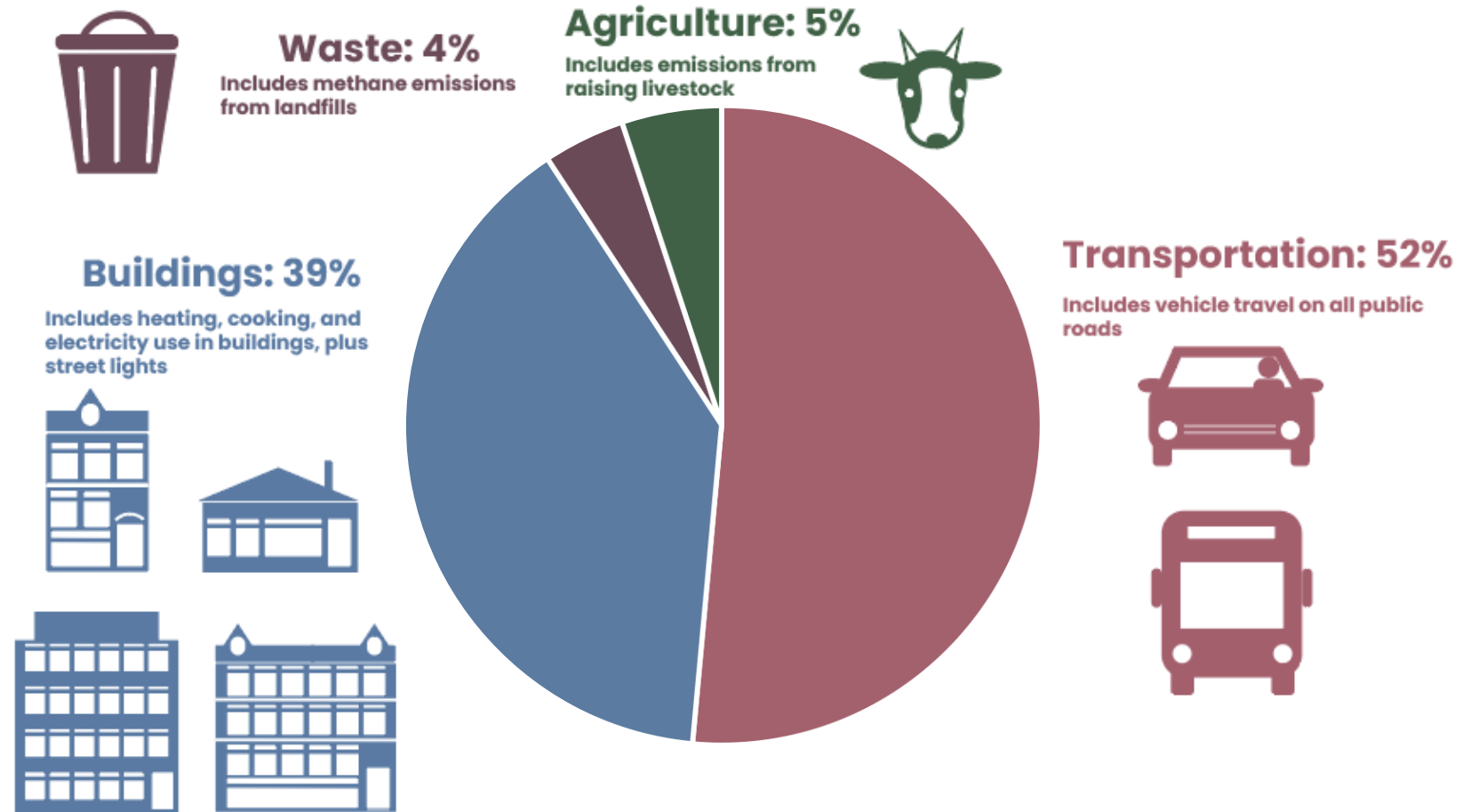
Understanding the sources and distribution of greenhouse gas (GHG) emissions in the County will help us integrate the Climate Action Plan into the Comprehensive Plan.

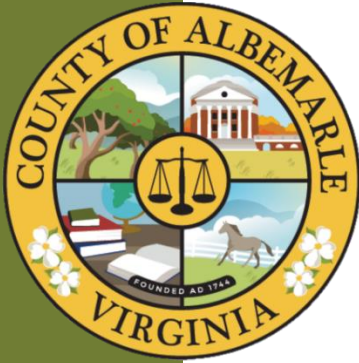
Greenhouse Gas Emissions in 2018 (tCO₂e)



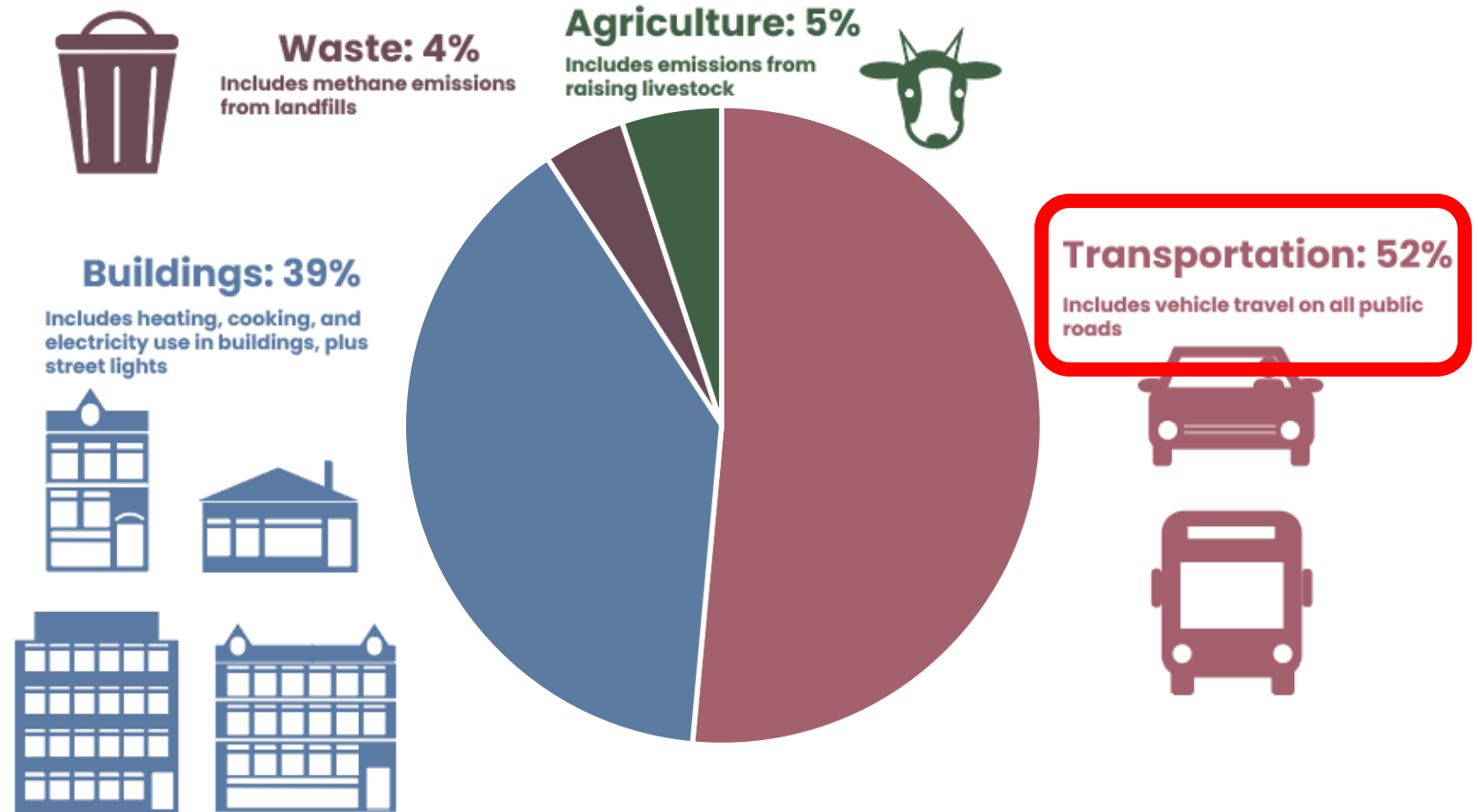


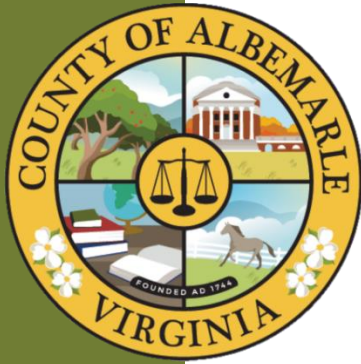
Greenhouse Gas Emissions



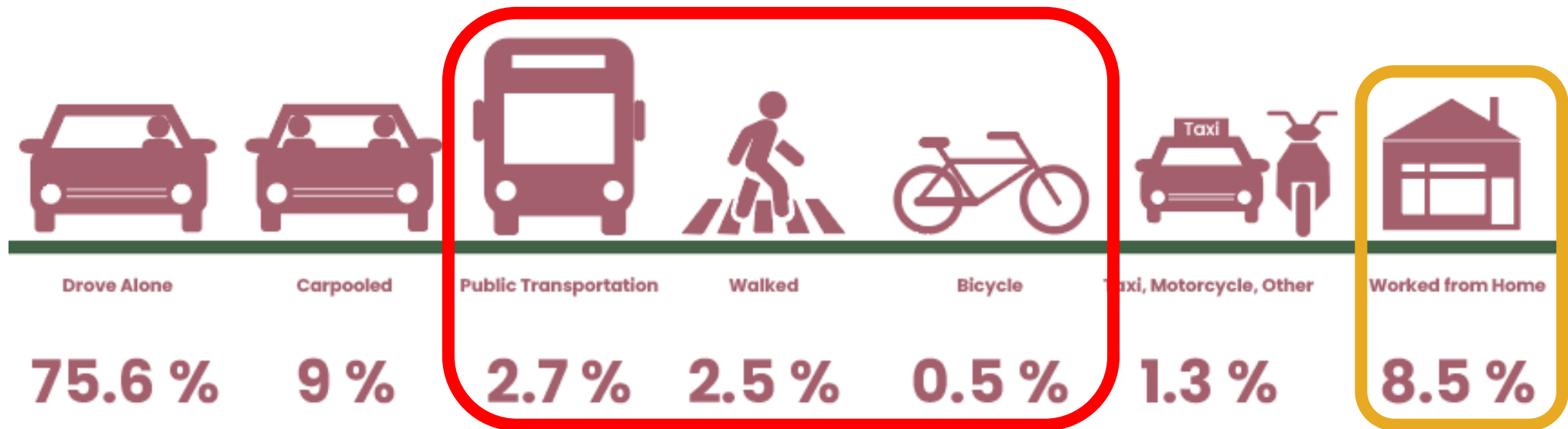


Greenhouse Gas Emissions



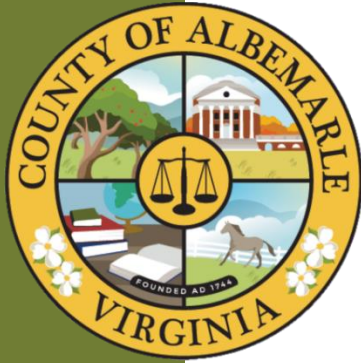


Transportation & Land Use



Means of transportation to work in Albemarle County. Source: U.S. Census, 2015-2019 ACS 5-year: Table S0801.

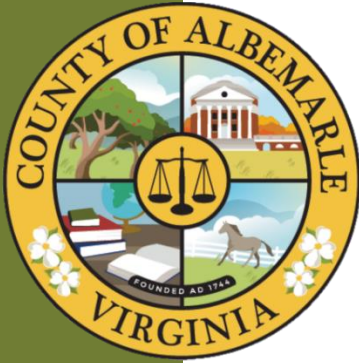
How can growth management and land use decisions help us increase the percentages of public transit, walking, and biking?



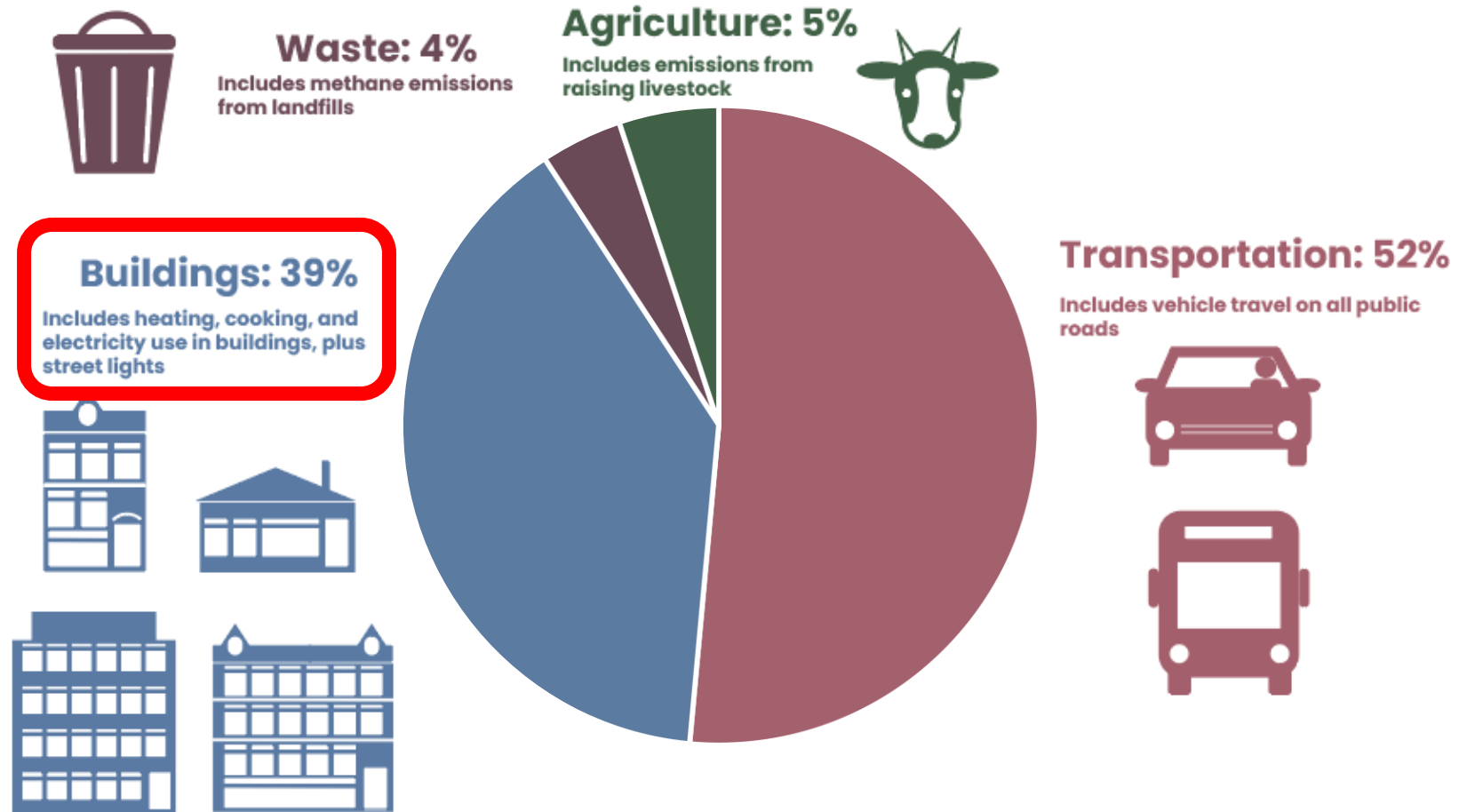
Transportation & Land Use

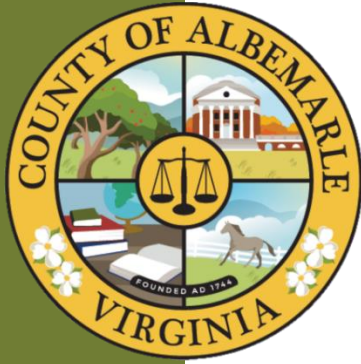
- ‘Complete streets’
- Dense, mixed-use development and affordable housing
- Infill development
- Less parking and more robust transit, bike, ped infrastructure





Greenhouse Gas Emissions



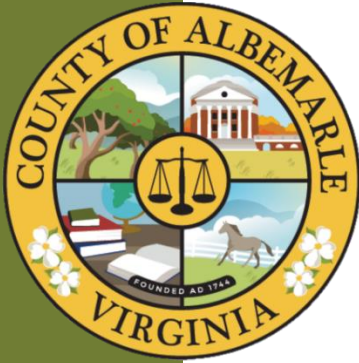


Building Energy Use

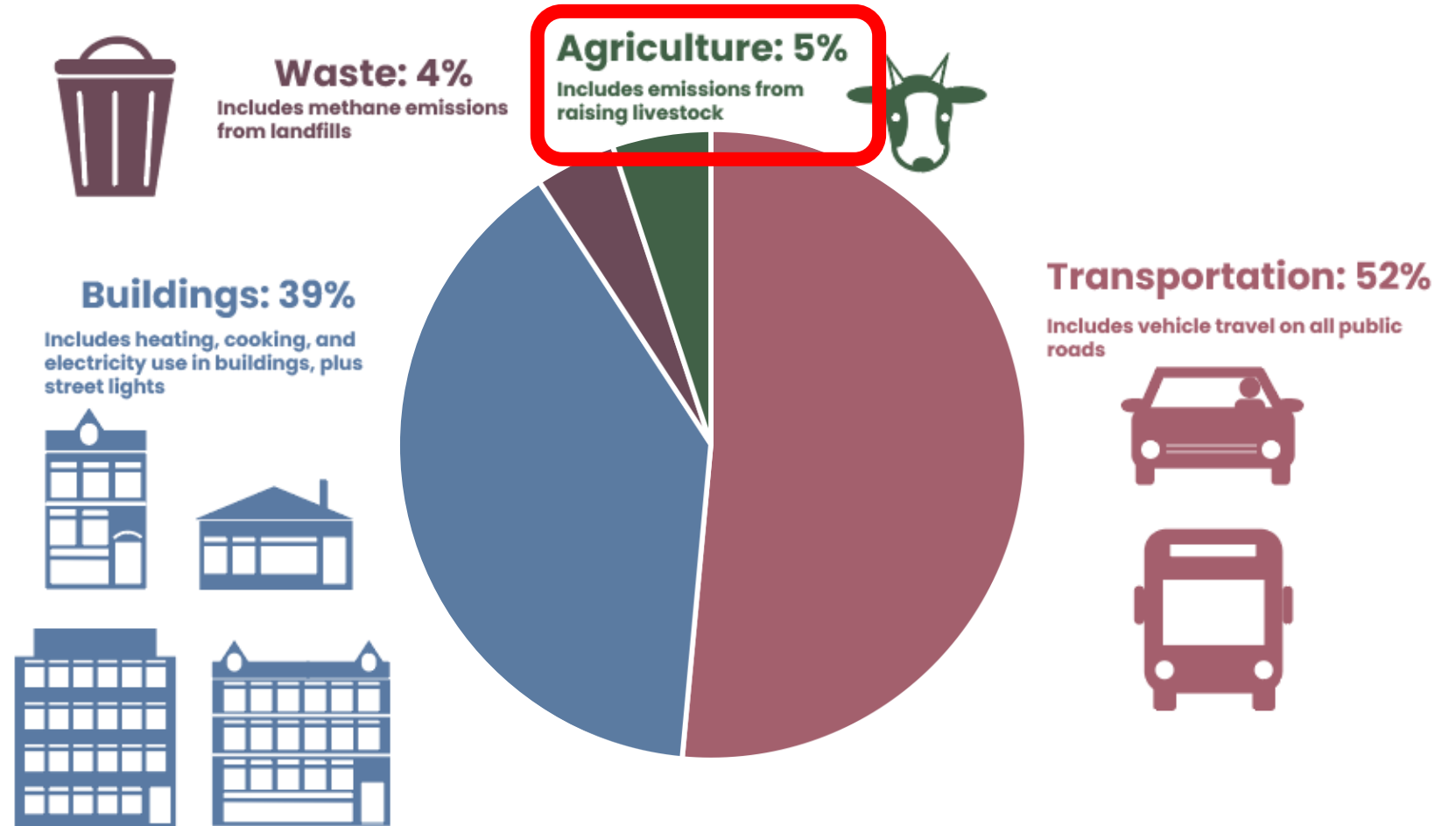
How can the Comp Plan promote:

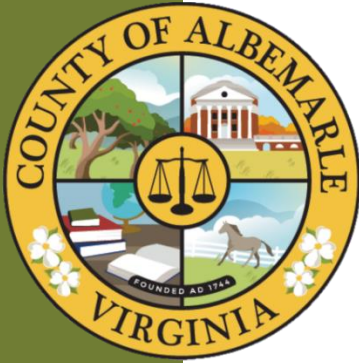
- Electrification
- Solar energy systems
- Adaptive reuse of buildings





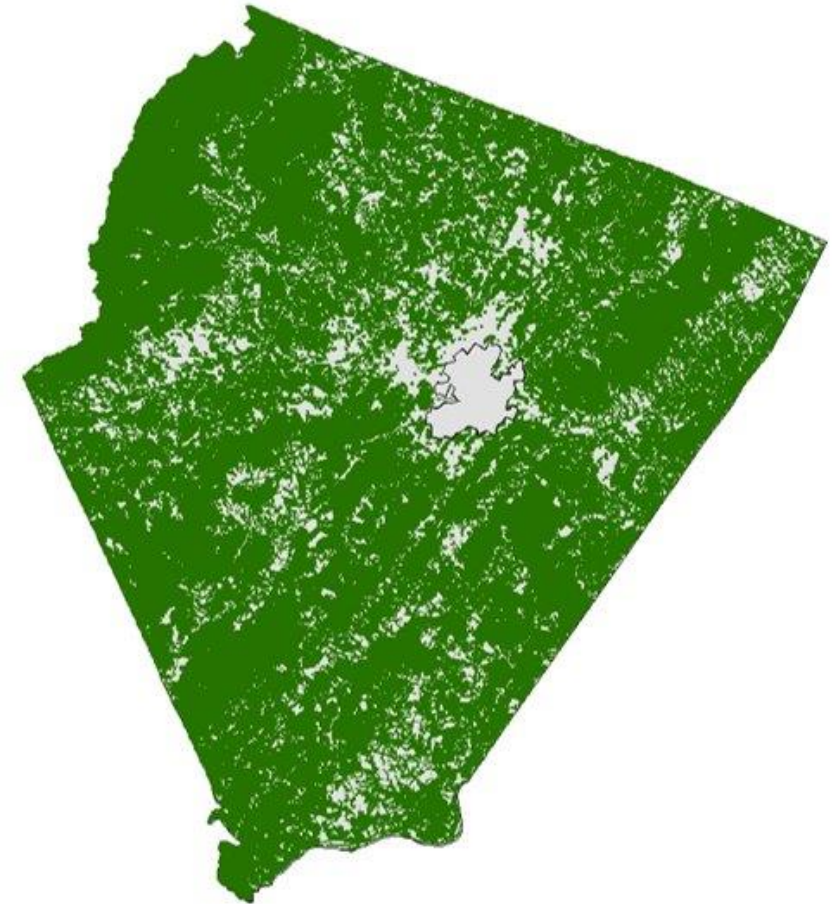
Greenhouse Gas Emissions

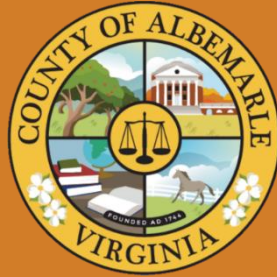




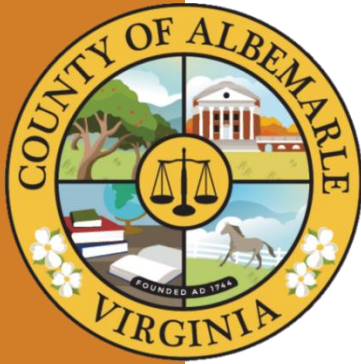
Conservation & Sequestration

- The County's forests and natural areas are helping us—sequestering roughly 950,000 tCO₂e/year.
- How we manage growth can help us:
 - ensure this sequestration continues through conservation and stewardship; and
 - increase sequestration by adding tree canopy.





How You Can Get Involved

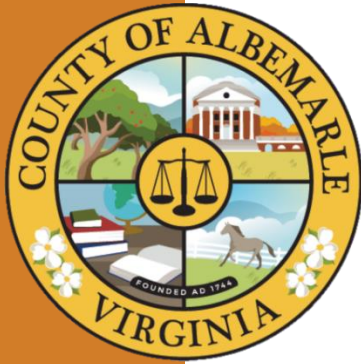


Environmental Stewardship Hub

Launched: Earth Day (April 22, 2022)

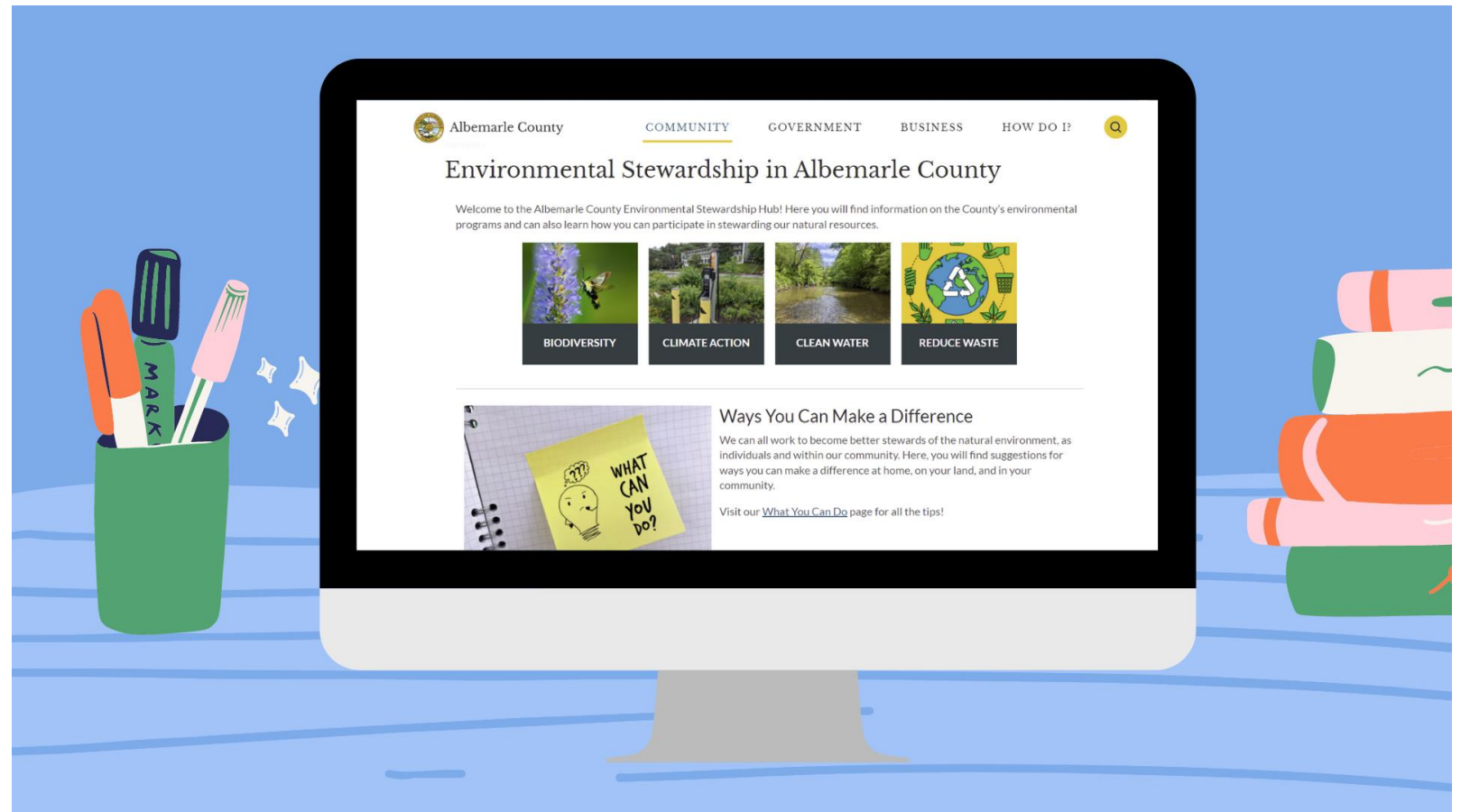
- Learn about County programs
 - Biodiversity
 - Climate Action
 - Clean Water
 - Reduce Waste
- Resources for community members to act
 - At Home
 - On Your Land
 - In Your Community



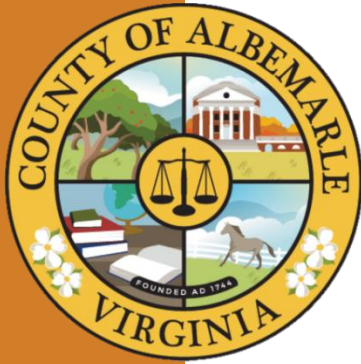


Environmental Stewardship Hub

Launched: Earth Day (April 22, 2022)



Link: [Environmental Stewardship Hub](#)



Environmental Stewardship Hub

Launched: Earth Day (April 22, 2022)



Albemarle County UNIVERSITY

COMMUNITY ION

GOVERNMENT WATER

BUSINESS SERVICE HOW DO I?



SHRINK YOUR LAWN -



Shrink Your Lawn: Creating 'no-mow zones' reduces water, pesticides, fertilizer use, and CO2 emissions. Replacing grass with native plants takes less time and energy to maintain, provides beauty to your yard all year round, and creates important habitat for bees, butterflies, birds, and other wildlife.

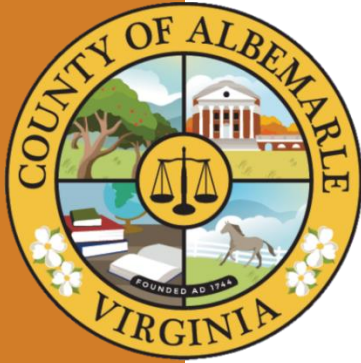
GO SOLAR +

GET A HOME ENERGY AUDIT +

REDUCE ENERGY USE +

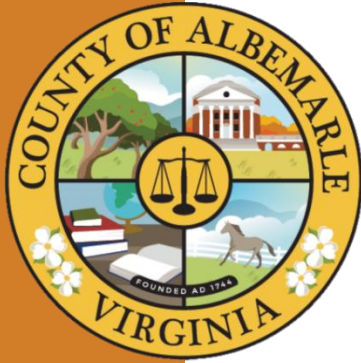
PLANT A TREE (OR TWO, OR THREE!) +

Link: [Environmental Stewardship Hub](#)



Climate Resilience Planning

- Read the Climate Risk & Vulnerability Assessment (forthcoming)
- Participate in community process to draft a Climate Adaptation and Resilience Plan



Engage AC44

- Check out the [AC44 website](#) to learn about Planning for Growth.
- Read the [Background Report](#) to learn more about how growth management and climate action are connected.
- [Complete the survey](#) to share your thoughts on the current growth management policy and what should be prioritized in a policy update.
- Stay tuned for more opportunities to participate in June!

