



CHARLOTTESVILLE
Acting on Climate Together

Climate Program Update

Land Use & Environmental Planning Committee

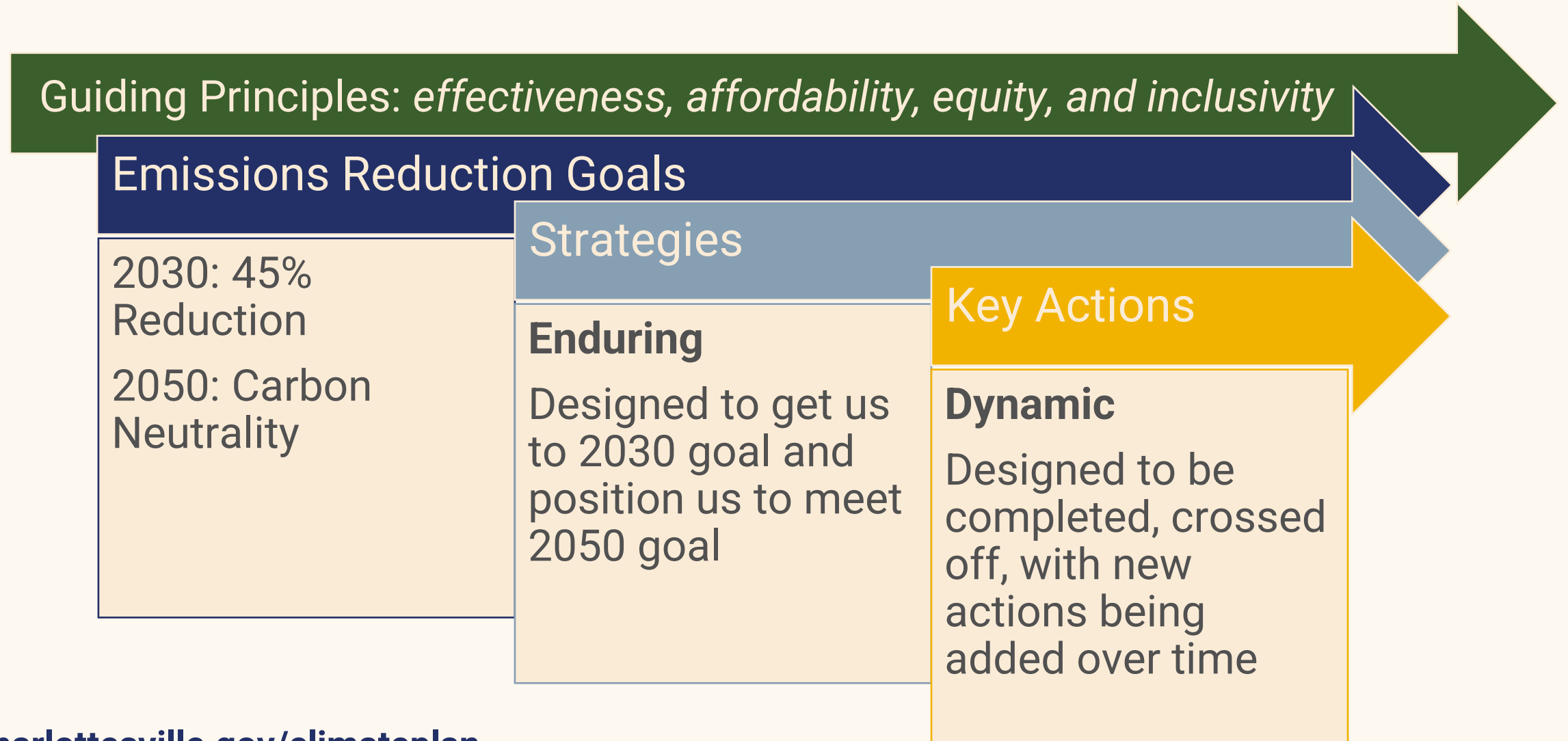
November 15, 2024

Agenda

- **Introduction**
- **GHG Inventory Update**
- **Climate Action Update**
- **FY25: Looking Forward**
- **Questions**



Charlottesville's Climate Action Plan

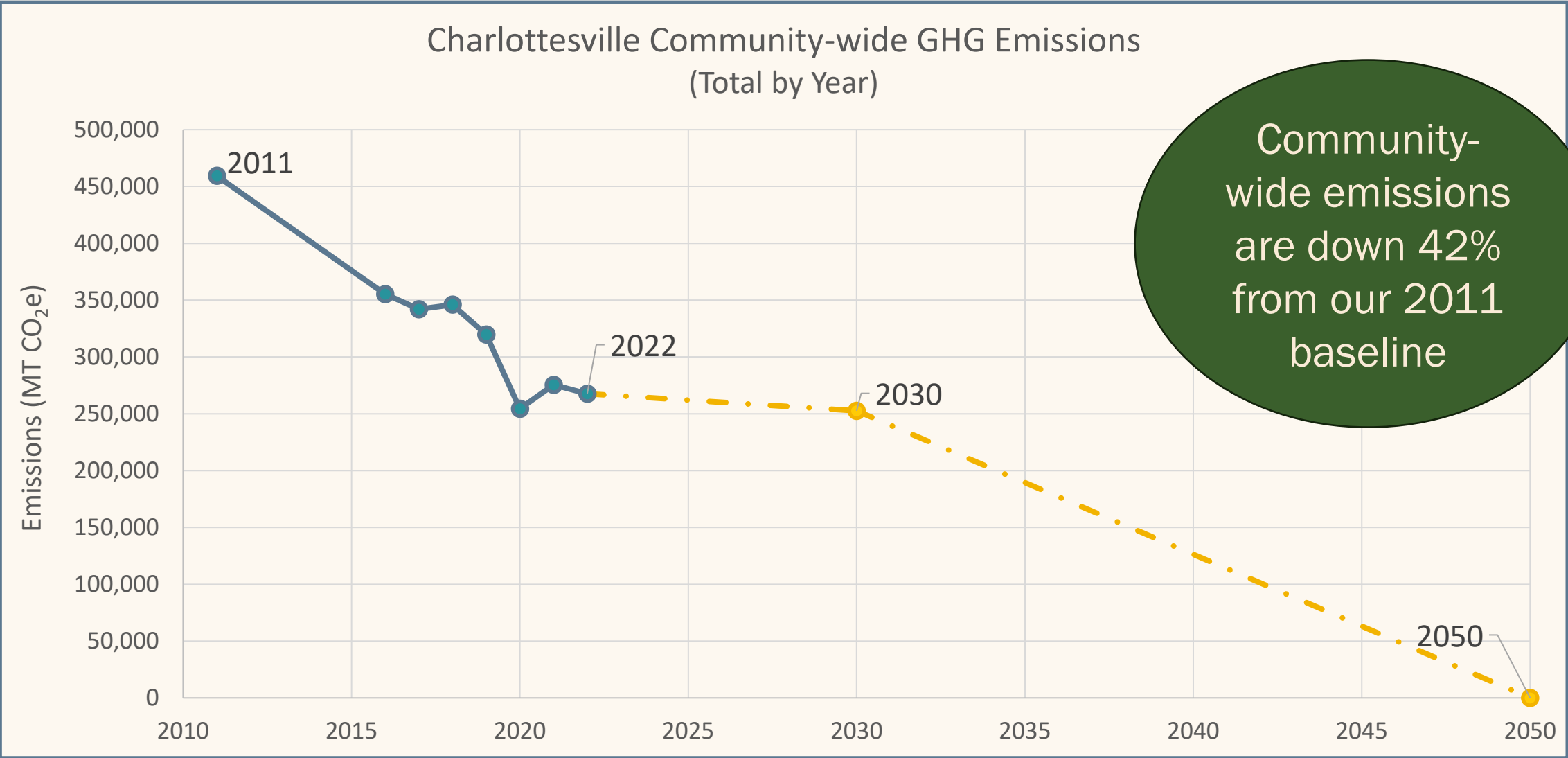




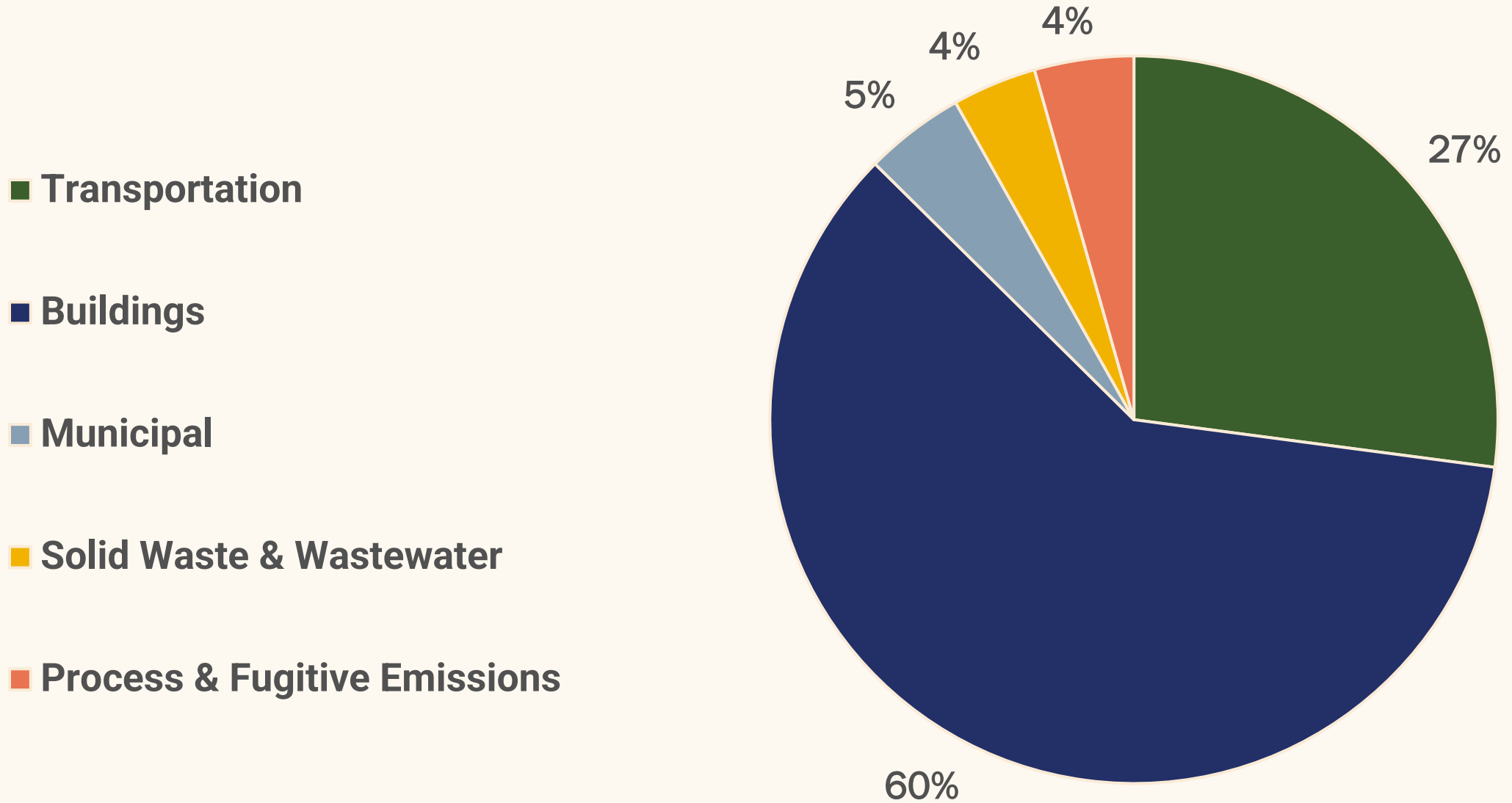
GHG Inventory Update

Calendar Year 2022

Updated GHG Inventory – 2022 Emissions Data



2022 GHG Emissions Sources



Inventory Takeaways

Near-term GHG reduction goal: 45% by 2030

- **Community emissions are down 42% from 2011 baseline**
 - **Greatest recent drop is in residential energy use, which is down 10.6% in 2022 from 2021**
 - **Transportation emissions are down 41% from baseline**
- **Municipal emissions are down 36% since 2011 baseline**
 - **Municipal emissions are up slightly (~1%) in 2022 from 2021**
- **“Grid-greening” has had a major influence**
 - **On a per-kWh basis, emissions from electricity have declined 38% since 2011**



Reporting

- Global Covenant of Mayor's Commitment
- Annual reporting through CDP
- 2023 CDP score: A-
- 2022 CDP score: B
- 2021 CDP score: C



BADGES 2023

CHARLOTTESVILLE, VA



MITIGATION

Inventory → Target → Plan



ADAPTATION

Assessment → Goal → Plan



NEW

ENERGY

Assessment → Goal → Plan



COMPLIANCE

CITIES EARN THE COMPLIANCE BADGE WHEN THEY COMPLETE THE MITIGATION AND ADAPTATION PILLARS. THE ENERGY PILLAR IS CURRENTLY NOT REQUIRED TO EARN THE COMPLIANCE BADGE.

www.globalcovenant-usa.org/

The Global Covenant of Mayors for Climate and Energy is the largest global alliance for climate leadership in cities, funded in the Americas by the European Union.



Funded by
the European Union



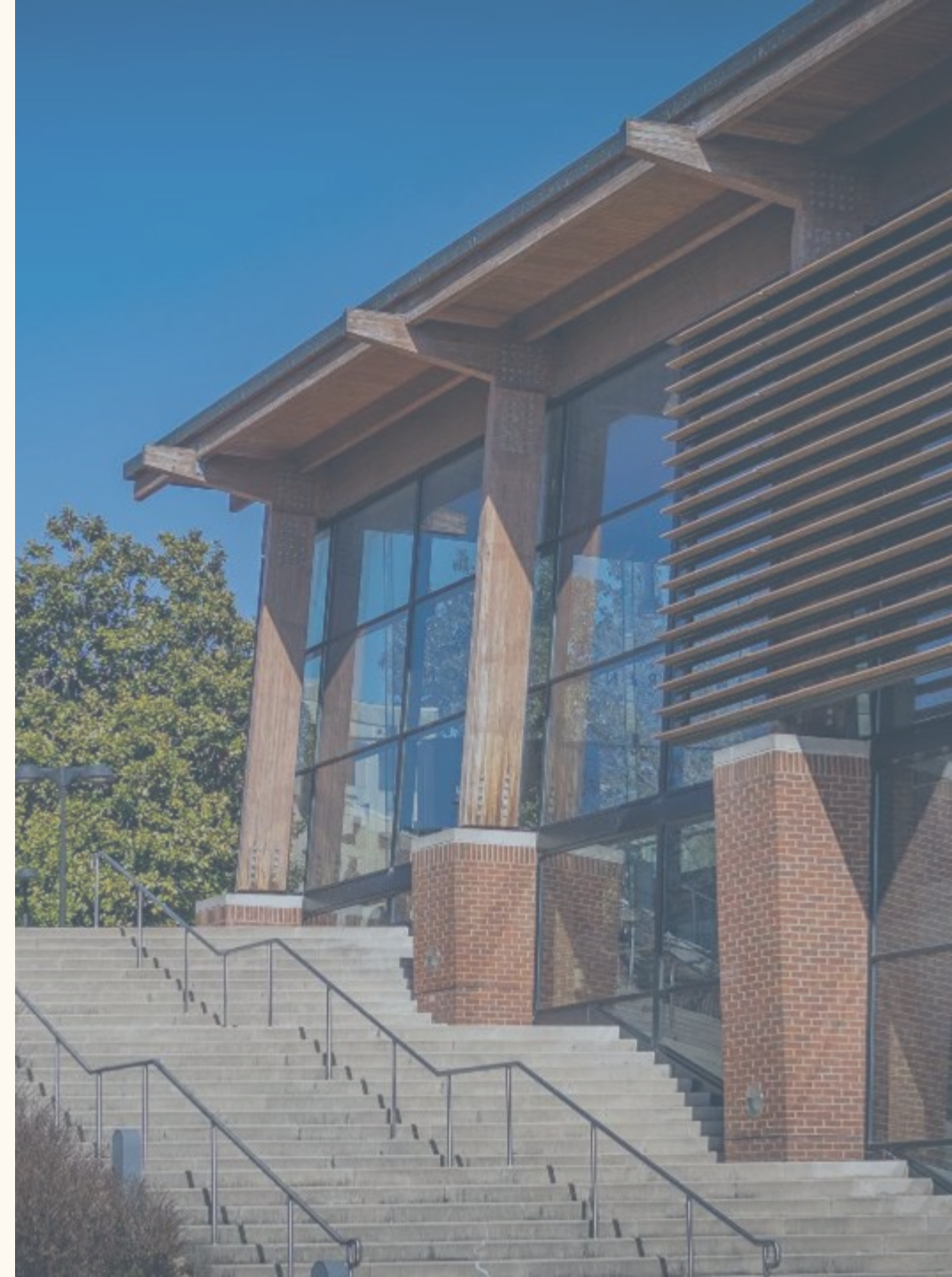


Climate Action Update



Buildings & Energy

- **Residential Energy Efficiency & Renewable Energy Deployment (in partnership with LEAP)**
- **Energy & Water Management Program**
- **C-PACE (Commercial Property Assessed Clean Energy)**
- **Master Energy Performance Agreement**
- **Gas Utility Decarbonization Study**
- **Utilities-led Energy Efficiency Programs**
- **Gas Service New Connection Fee**
- **Zoning Ordinance Update**



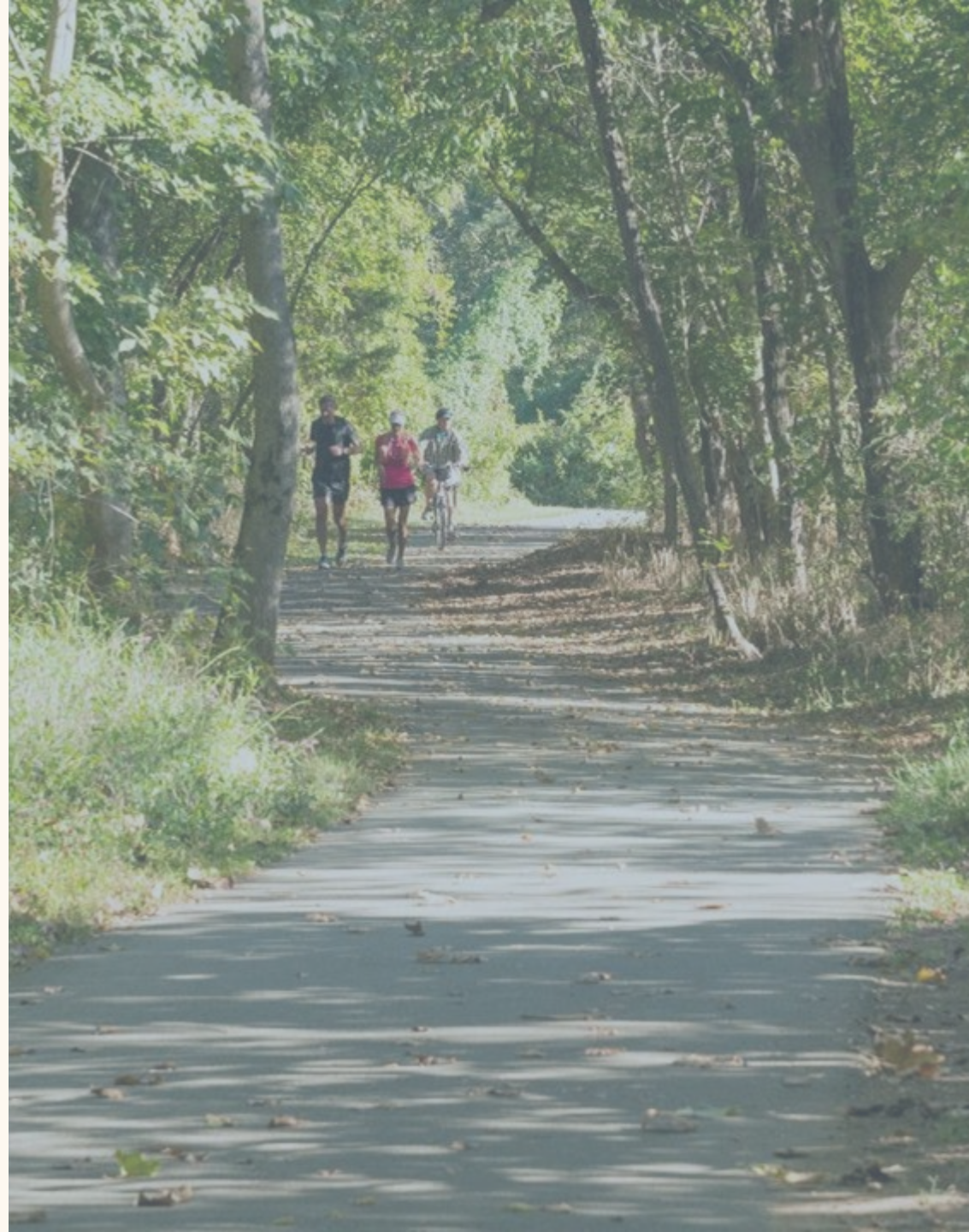
Transportation

- **Transit Zero-Emissions Bus Transition**
- **Electric School Bus Pilot & Transition Planning**
- **EV Infrastructure Grant Program Re-launch**
- **Bicycle & Pedestrian Infrastructure Improvements**
- **Micromobility Services**



Other Actions

- **LED Streetlight Conversion Project**
- **Community Climate Action Dashboard**
 - climateaction.charlottesville.gov
- **Community Education & Events**
- **GO Solar Program**
- **Composting Programs**
- **Recycle Coach Tool**
- **Urban Tree Planting**
- **Invasive Species Management**
- **Parkland Acquisition - 0 East High Street**
- **Flood Resilience Plan**



Resilient Together

Adaptation & Resilience planning is a requirement of the City's GCoM commitment

- Collaborative Climate Adaptation and Resilience planning project – City, County, UVA
- Public Launch – September 2023
 - Presentations – public & private
 - Staff & Stakeholder Workshops
 - Public Events
 - Media
- EPA Grant (AlbCo-led) received for inclusive community engagement - \$460k



Federal Grants

- EPA Environmental Justice Government to Government (EJG2G) - \$460k
- USDA Forest Service Urban and Community Forestry Grant - \$150k
- EPA Clean School Bus Rebate - \$420k
- DOE Energy Efficiency & Conservation Block Grant – \$76,840 (formula funds)
- PHMSA Natural Gas Distribution Infrastructure Safety & Modernization (NGDISM) - \$7.1m





FY25 Workplan – New Items



Community-Wide EV Charging Study

- **Contemplates future needs for community charging infrastructure**
 - **Public, Private, Workplace**
- **Examines opportunities for municipal fleet electrification (non-emergency, light-duty fleet)**



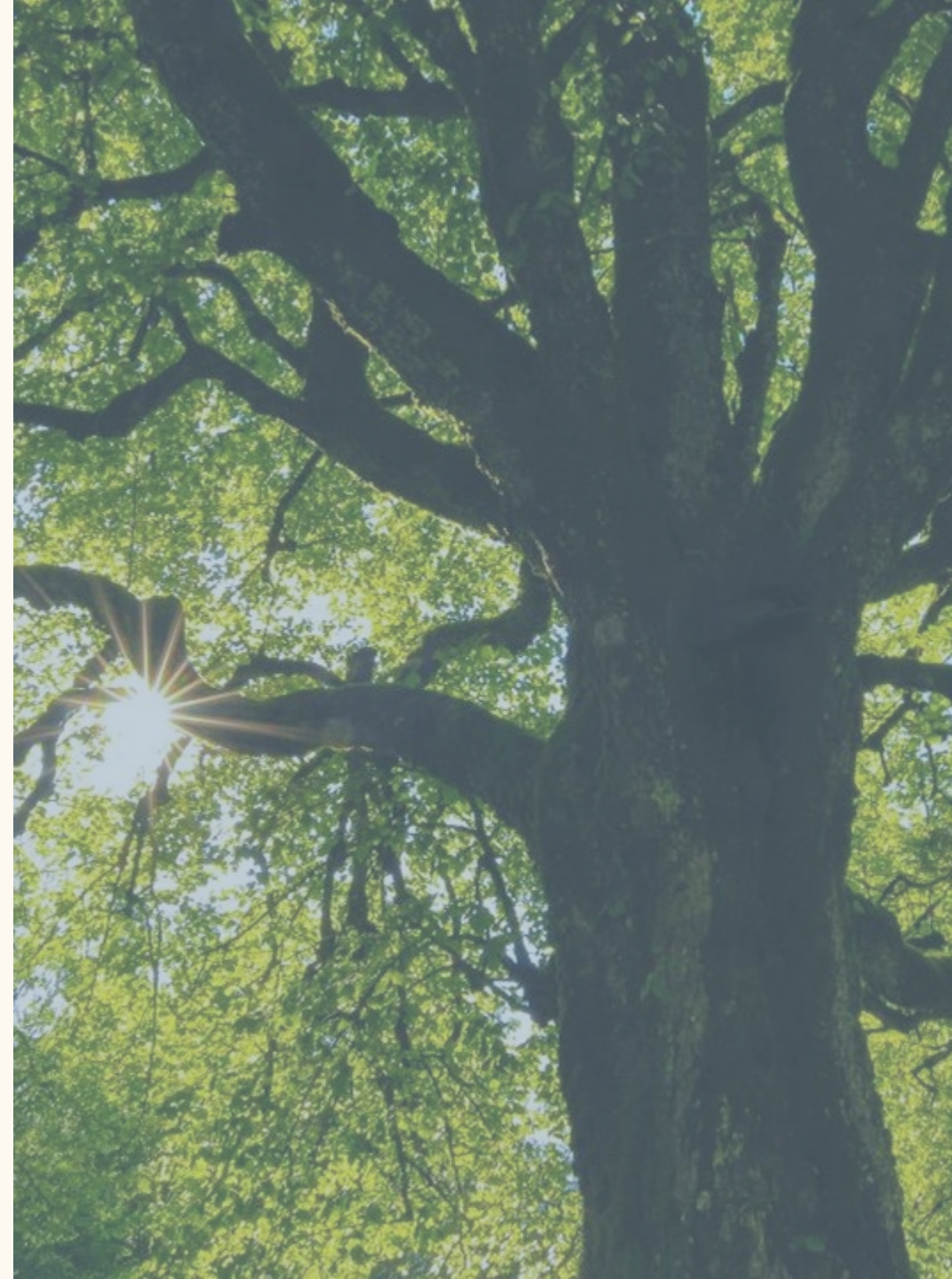
Community Energy Resource Hub

- Hub will assist residents & businesses to access Federal, State, and local clean energy programs
- Goal is to leverage incentives funding
- Virtual and in-person navigation services
- Partnership with LEAP, C3, and Albemarle County
- Planning underway; aiming for Q1 2025 launch



Urban Forest Management Plan

- Updated comprehensive and adaptive management plan aligned with the Comp Plan, Climate Action Plan, and Climate Risk & Vulnerability Assessment
- To address forest management, canopy retention and advancement, vegetation analysis, and volunteer/workforce program



Municipal Energy Performance Program

- 2022 – Energy Audits performed on all City facilities
- 2024 – Master Energy Performance Contract established between ESCO and City
- First municipal energy savings project nearly complete
- Working on next project scopes: lighting, HVAC, solar
- Municipal building electrification screening underway



Other Upcoming Initiatives

- **Municipal Green Building Standards**
- **Sustainability in the Workplace Program**
- **Municipal Building Solar Installations**
- **School Bus Electrification Planning**
- **E-bike Incentive Program**
- **24/7 Compost Program Expansion**
- **Landscape Equipment Electrification Pilot**
- **EECBG supported residential energy audits + new local incentives**



Thank You!

Questions?



Check out our 2024 Climate Action Update Report

