



The Town *of*
Davidson

College Town, Lake Town, Your Town

SUSTAINABILITY FRAMEWORK

Sustainability Framework

Agenda:

- Background
- Desired Outcome & Priorities
- Budget Recommendations

Sustainability Committee

Members

Planning Board: Kate Barr & Nora Barger

Livability Board: Jennifer Fielder, Matt Walt,
Raul Galvan, & Resai Benger

Staff Liaisons

Natural Assets & Sustainability Coordinator - Parks &
Recreation: Charlene Minor
Senior Planner: Trey Akers

Process (Sept-March)

- Sustainability Committee Formed
- UNCC Report, Comp. Plan & other resources reviewed
- Identify priorities areas & present to LB/PB Consider any needs for FY22 budget

STRATEGIC ALIGNMENT

COMPREHENSIVE PLAN (2020)

Community Vision: Based on intensive public-engagement process
Timeframe: 10 years



STRATEGIC PLAN (2020)

Board of Commissioners: Goals/Goal Areas based upon Comp. Plan
Timeframe: 2 years



STAFF WORK PLANS

Strategic Plan: Informed by Strategic Plan
Timeframe: On-Going



STRATEGIC PLAN

GOAL F: SUSTAINABILITY AND NATURAL ASSETS

- **Goal:** Implement and encourage innovative solutions to environmental, energy, and climate-based challenges
- **Priority Strategies:**
 - Implement Tree Canopy Master Plan
 - *Define the desired outcome of the town's sustainability efforts*

GOAL 2.3

A SUSTAINABLE BUILT ENVIRONMENT

Davidson's integrated natural and built environments will embody the tenets of social, environmental, and fiscal sustainability. The town will be a leader of green building design and climate responsibility.

KEY METRICS

2.3 LOCAL GREENHOUSE GAS EMISSIONS

The purpose of this metric is to evaluate local sources of greenhouse gas emissions to reduce overall emissions.

- 2.3.1 – Greenhouse Gas Emissions by Sector for both town government and community emissions.
- 2.3.2 – Energy Use Intensity by Sector for both town government and community emissions.
- 2.3.3 – Square footage (or # of projects) of LEED-certified buildings
- 2.3.4 – Number of Low-Impact Development or Green Building Projects
- 2.3.5 – Estimated Emissions Reductions/Carbon Sequestered through LID or Green Building Projects

Guiding Plans & Policies

Global
National
State
Local

- Paris Climate Accord (2016)
- NC Executive Order 80
- Duke Energy's Path to Net Zero-Carbon (2019)
- DAV Comp Plan & Mobility Plan
- DAV College Climate Action Plan (2010)

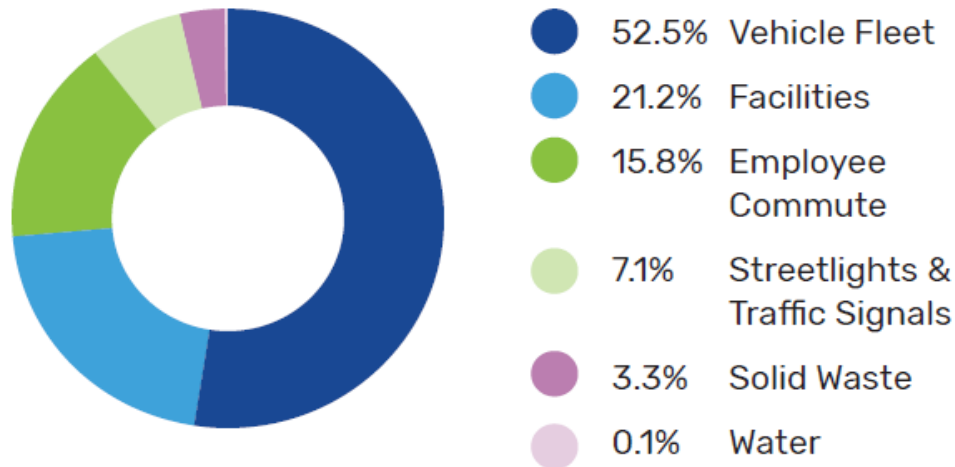
Common TARGET - Carbon Neutrality by 2050

Guiding Data

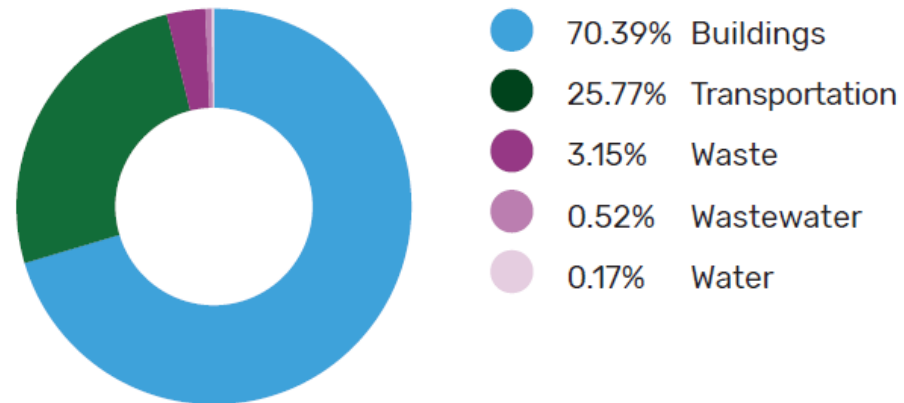


Example - Chapel Hill Data

Municipal GHG Emissions by Sector



Community GHG Emissions by Sector



Sustainability Framework

SUSTAINABILITY FRAMEWORK (DRAFT)

Introduction Statement

- Formalize and support on-going sustainability committee work, including under-represented voices
- Catalyze interest in and support from a broad spectrum of the community for sustainability initiatives
- Emphasize the importance of equity, establishing partnerships, and collaborating with stakeholders

Outcome Statement

Davidson will strive to create and maintain a vibrant, equitable community and economy while protecting the natural environment for generations to come. The town will cultivate a community ethic of sustainability through a dedicated framework including (in no particular order):

PRIORITY AREAS	ACTION ITEMS
1. Education & Engagement: Cultivating an ethic of responsibility and partnership	<ul style="list-style-type: none"> a. Implement Strategic Website Development b. Explore Communications Campaign c. Collaborate with State, Regional and Local Partners G 5.4
2. Municipal Operations: Reviewing, updating, and benchmarking municipal operations	<ul style="list-style-type: none"> a. Update Building, Fleet, Procurement, and Operations Standards G 2.3 * b. Undertake Benchmarking * G 5.1
3. Green-Buildings & Infrastructure: Enhancing the community's building, infrastructure, and natural environment standards	<ul style="list-style-type: none"> a. Support Renewable Energy Initiatives & Energy Efficiency Improvements (Exs. Solar, Lighting, Weatherization) * G 2.3 b. Support Water Quality Initiatives and Improve Stormwater/Rainwater Management * G 2.3 c. Enhance Workforce/Affordable Housing * G 5.2 d. Review Community Contaminant Policies/Progress (Exs. Pesticides, Asbestos)

1. **Mobility:** Supporting Mobility Plan implementation efforts

- a. Analyze EV Infrastructure Location & Funding Opportunities * [G 3.4](#)
- b. Improve Multi-modal Connectivity Throughout Davidson via Visible Projects [G 3.1-3.3](#)

2. **Ongoing & Long-term**
Priorities: Assessing progress and planning for upcoming initiatives

- a. Evaluate and Prioritize Comprehensive Plan Recommendations and other publicly vetted targets
- b. Assess and Implement Environmental and Public Health Strategies; Land/Farmland Conservation Efforts; and Zero Waste Initiatives
- c. Reduce Municipal Operations GHG Emissions to Achieve Carbon Neutrality by 2040 and Develop a Community-wide Climate Action Plan [G 5.1, 2.3](#)

Represents items prioritized for budget consideration FY 2021
 Represents Comprehensive Plan Goal

Plans & Policies: Key plans and policies of influence include the town's Core 2020 Board of Commissioners Strategic Annual Plan, Comprehensive Plan, Plan, Rural Area Plan, Parks and Recreation Master Plan, Tree Initiatives, Equity and Affordable Housing Plan. Global, national, state and regional plans as North Carolina's Executive Order 80 – Commitment to Address Change and Transition to a Clean Energy Economy, will also be considered.

Outcome Statement

Davidson will strive to create and maintain a vibrant, equitable community and economy while protecting the natural environment for generations to come.

The town will cultivate a community ethic of sustainability through a dedicated framework including:

Education & Engagement

Municipal Operations

Green-Buildings & Infrastructure

Mobility

Ongoing & Long-term Priorities

Sustainability Framework

1 - Education & Engagement

Cultivating an ethic of responsibility and partnership

- a. Implement Strategic Website Development
- b. Explore Communications Campaign
- c. Collaborate with State, Regional and Local Partners **G 5.4**

2 - Municipal Operations

Reviewing, updating, and benchmarking municipal operations

- a. Update Building, Fleet, Procurement, and Operations Standards **G 2.3 ***
- b. Undertake Benchmarking **G 5.1 ***



Sustainability Framework

3 - Green-Buildings & Infrastructure

Enhancing the community's building, infrastructure, and natural environment standards

- a. Support Renewable Energy Initiatives & Energy Efficiency Improvements (Exs. Solar, Lighting, Weatherization) **G 2.3** *
- b. Support Water Quality Initiatives and Improve Stormwater/Rainwater Management **G 2.3** *
- c. Enhance Workforce/Affordable Housing **G 5.2** *
- d. Review Community Contaminant Policies/Progress (Exs. Pesticides, Asbestos)

4 - Mobility

Support Mobility Plan Efforts

- a. Analyze EV Infrastructure Location/Funding Opportunities **G 3.4**
- b. Improve Multi-modal Connectivity Throughout Davidson via Visible Projects **G 3.1-3.3**



Sustainability Framework

5 - Ongoing & Long-term Priorities

Assessing progress and planning for upcoming initiatives

- a. Evaluate and Prioritize Comprehensive Plan Recommendations and other publicly vetted targets
- b. Assess and Implement Environmental and Public Health Strategies; Land/Farmland Conservation Efforts; and Zero Waste Initiatives
- c. Reduce Municipal Operations GHG Emissions to Achieve Carbon Neutrality by 2040 and Develop a Community-wide Climate Action Plan **G 5.1, 2.3**



Recommendations

- Support ongoing sustainability committee work
- Through the pursuit of Prioritized Action Items:
 - » Build up community engagement, including under-represented voices
 - » Use equity as a decision-making lens
 - » Establish partnerships and collaborate with commissioners, advisory boards, and stakeholders to identify targets

Budget Recommendations

2a. MO: Update Standards

- Actions: Memberships (SSDN, NCSEA, NC Cities Initiative, STAR/LEED for Communities); Procurement Policies & Training – Staff Time
- Opportunities: Grants, Regional/Local Gov't Contacts
- Budget Request: \$1,350

2b. MO: Undertake Benchmarking

- Actions: Davidson College Scholar; ICEI Software; Utility Data Requests
- Opportunities: Su2021 Intern; Grants
- Budget Request: \$2,300

Budget Recommendations

3a. GB&I: Support Renewable Energy & Energy Efficiency

- Actions: Solar Restrooms – Included in 2017 GO Bonds; Energy Audit at Pump House; LED Streetlight Non-Decorative - \$6,000; All Street Lights - \$400,000
- Opportunities: Grants
- Budget Request: \$6,500-\$400,500

3b. GB&I: Improve Stormwater/Rainwater

- Actions: Stormwater Infrastructure Repair Plan – Capital Improvement Plan Request; Water Quality Initiatives
- Opportunities: NCDEQ Grant
- Budget Request: TBD

Budget Recommendations

3c. GB&I: Enhance Workforce/Affordable Housing

- Actions: Standards for TOD Built Homes; Assist with Federal Weatherization Application; Energy Audits/Lower Utility Bills
- Opportunities: State/Federal Grants; Critical Home Repair
- Budget Request: \$5,000 from Affordable Housing Fund

4a. M: Analyze EV Infrastructure Opportunities

- Actions: Neighborhood EV (25mph); 2 E-bikes; EV Charging Station: Circles @30 Area/Other
- Opportunities: VW Grant; NCLM Grant; Tesla
- Budget Request: \$51,000

Budget Recommendations

5b. Ongoing & Long-term Priorities

- Actions: Implement waste reduction efforts that go beyond recycling; Ensure adequate staff capacity to execute framework. Explore full expansion of sustainability staff person to full-time in a future budget cycle (currently 30 hours per week)
- Opportunities: NCDEQ Grant
- Budget Request: \$5,000 – TBD

Questions/Discussion

