

City of Durham Sustainability Roadmap February 2018

Defining Sustainability









Sustainable Cities:

"cities [that] work towards an environmentally, socially, and economically healthy and resilient habitat for existing populations, without compromising the ability of future generations to experience the same." - ICLEI Local Governments for Sustainability









Sustainability Planning

- Assessment: Where are we now?
 - Sustainability Report
 - STAR Community Certification
- Visioning: Where do we want to be?
 - Sustainability Planning Retreat
 - **Prioritization Matrix**
 - **Guiding Principles**
- III. Action Planning: How do we get there?
 - **Outcome Measures & Targets**
 - **Brainstorming & Prioritizing Strategies**
- IV. Implementation & Reporting

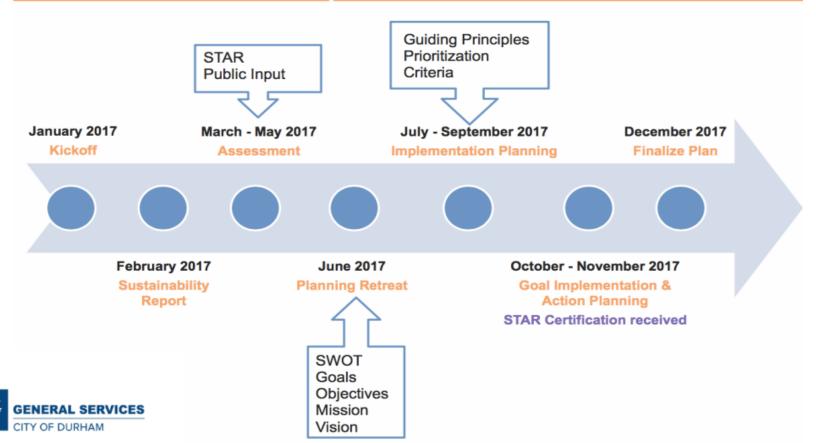








City of Durham Sustainability Roadmap Project Timeline



Where are we now?

City of Durham 2017 Sustainability Report

July 2017



CITY OF DURHAM: Sustainability



Introduction

City of Durham Sustainability Report

The purpose of this report is to communicate the City of Durhai sustainability story to date and to inform a strategic path forwa

The report includes a timeline of major environmental milestones, key indicators, and accomplishments across City departments. Taken together, these components tell as Durham is becoming a better, more sustainable community for its current population future generations.

In addition to shedding light on Durham's recent accomplishments, the information in will help inform a comprehensive Sustainability Plan for the City of Durham. The plan development in 2017, will assist the City in meeting objectives put forth in Goal 5 of t Plan: stewardship of physical and environmental assets. It will identify several overare

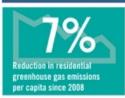
Sustainability Report

Baseline Indicators

2017



Sustainability By The Numbers







Creative industries make up

4.2%
of all business in the county





29
Miles of Trails





63% Increase in downtown employees 9,791 (2003) to 16,000 (2014)











Sustainability Report



A TIMELINE OF DURHAM SUSTAINABILITY

2013

Trees Across Durham

2016

Durham is

2011

frails and Greeenways



Built Environment	Climate & Energy	Economy & Jobs	Education, Arts, & Community	Equity & Empowerment	Health & Safety	Natural Systems
BE-1: Ambient Noise & Light	CE-I: Climate Adaptation	EJ-1: Business Retention & Development	EAC-1: Arts & Culture	EE-I: Civic Engagement	HS-1: Active Living	NS-1: Green Infrastructure
BE-2: Community Water Systems	CE-2: Greenhouse Gas Mitigation	EJ-2: Green Market Development	EAC-2: Community Cohesion	EE-2: Civil & Human Rights	HS-2: Community Health	NS-2: Biodiversity & Invasive Specie
BE-3: Compact & Complete Communities	CE-3: Greening the Energy Supply	EJ-3: Local Economy	EAC-3: Educational Opportunity & Attainment	EE-3: Environmental Justice	HS-3: Emergency Management & Response	NS-3: Natural Resource Protection
BE-4: Housing Affordability	CE-4: Energy Efficiency	EJ-4: Quality Jobs & Living Wages	EAC-4: Historic Preservation	EE-4: Equitable Services & Access	HS-4: Food Access & Nutrition	NS-4: Outdoor Air Quality
BE-5: Infill & Redevelopment	CE-5: Water Efficiency	EJ-5: Targeted Industry Development	EAC-5: Social & Cultural Diversity	EE-5: Human Services	HS-5: Health Systems	NS-5: Water in the Environment
BE-6: Public Parkland	CE-6: Local Government GHG & Resource Footprint	EJ-6: Workforce Readiness	EAC-6: Aging in the Community	EE-6: Poverty Prevention & Alleviation	HS-6: Hazard Mitigation	NS-6: Working Land:
BE-7: Transportation Choices	CE-7: Waste Minimization				HS-7: Safe Communities	

STAR

Community
Framework







Innovation & Process

IP-1: Best Practices & Processes

> IP-2: Exemplary Performance

IP-3: Local Innovation

Durham Certified as a 4-STAR Community

November 2017

Goal		Approved	Total Points	Percent
Goal		Final Score	Possible	Achieved
Built Environment		63.10	100	63%
Climate & Energy		54.37	100	54%
Economy & Jobs	Economy & Jobs		100	60%
Education, Arts & Community	Education, Arts & Community		100	70%
Equity & Empowerment	Equity & Empowerment		100	60%
Health & Safety		61.14	100	61%
Natural Systems		71.28	100	71%
Innovation & Process		25.00	50	50%
	TOTALS>	464.00	750	62%



Where do we want to be?

Sustainability Planning Retreat

June 2017





How do we get there?

- Guiding Principles
- Prioritization Matrix
- Action Teams

August 2017







Sustainability Guiding Principles

- We believe in **open communication**, therefore we seek input and share goals, initiatives, and progress with all stakeholders, including coworkers, departments and the Durham community.
- We believe in **collaboration** within the City, among City residents, and externally, therefore we focus on meeting multiple interests rather than individual positions when making decisions and seeking opportunities to form partnerships.
- We believe in **equity**, therefore we will:
 - •Evaluate access, consider impacts, and ensure benefits across all demographics, generations and geographies when making decisions.
 - •Design and implement programs, initiatives, policies and procedures that enhance Durham's social, physical and capital assets.
- We believe in **innovation**, therefore we will utilize data, research, and best practices to develop creative, cutting edge ideas and solutions to inform and implement sustainable services, policies and practices.
- We believe in being **good stewards of public assets**, which includes public funds and staff time, therefore we will consider all relevant lifetime costs and benefits when making decisions.

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Prioritization Matrix

Criteria High-Medium-Low High-Medium-Low High-Medium-Low Yes-No High-Medium-Low







Action Planning: How do we get there?



Seven cross-departmental action teams met September - November of 2018

Action Teams

September – November 2018

- **Developed Goal** Statements
- **Established Outcome** Measures & Targets
- **Brainstormed & Prioritized Strategies**









Sustainability Goals

Arts & Community: Advance and reinforce opportunities that celebrate #DURM culture

Built Environment: Achieve equitable access and choice to infrastructure that supports a high quality of life for all residents and enhances the environment

Climate & Energy: Lead the way in addressing climate change by minimizing energy use and increasing community and local government resource efficiency

Economy & Jobs: Maximize equitably shared prosperity for local small and diverse businesses and inclusive access to quality jobs with fair livable wages

Natural Systems: Protect and restore Durham's natural resources and ecosystem

Equity & Empowerment: Advance equity, inclusion, and equal access to opportunities and services to engage and empower residents

Innovation: Embrace a culture of innovation to ensure a more sustainable community





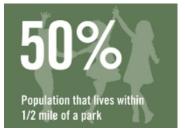


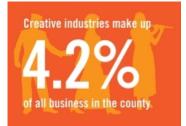


Measuring Success









Outcome Measures & Targets

Specific, quantifiable targets that measure the accomplishment of our goals in the short-term (2020) and long-term (2040)

Examples:

Arts & Community Outcome Measure:

Creative industries represent 4.6% of all businesses in Durham according to the Local Arts Index by 2020, and 5% by 2040

Built Environment Outcome Measure:

Reduce daily vehicle miles traveled per capita to 34 by 2020 and 30 by 2040









Developing & Prioritizing Strategies

Strategy ideas came from:

- Best practices identified in the STAR community certification process
- Feedback from residents in the online survey and public events
- Departmental liaisons who are internal subject matter experts in their respective fields
- Current city-wide and departmental strategic plans

Strategies were prioritized for inclusion based on pre-determined criteria (prioritization matrix)

A	В	c	0	P	Q	5	T
v	Prior Strate	Potential Stategy	Impact	Public Input	Alignment wit Guiding Princi	Cost Effectiv	Operationa Feasibility
,		Establish regular, ongoing opportunities for elected officials and/or senior government staff to meet with residents to answer questions and listen to concerns	Medium	Yes	High	High	Medium
2		Create an office or intendepartmental working committee within the local government to guide and support environmental justice activities	Medium	Yes	High	High	Medium
1		Establish an Environmental Justice subcommittee of the Environmental Affairs Board (or separate Environmental Justice Collaborative Group) that provides research, strategies, and recommendations to ensure no neighborhoods or populations are overhundred by environmental pollation.	Medium	Yes	High	High	Medium
4		Establish a cross-department task force to review and implement recommendations from advisory board that make our processes, politicies, services, communications, and programs more inclusive and identify work to remove barriers to entry.	Medium	Yes	High	High	Medium
5		Establish an equity and empowement advisory hoard comprised of residents and community stakeholders to inform how the City can meet goals to advance equity, inclusion, and equal access	Medium	Yes	High	High	Medium
32		Research best practices of other municipalities related to equity and empowement	Medium	No	High	High	High
6	* marga with strategy 3 and 9	Adopt inclusive public engagement guidelines for local government agencies and departments	Low	Yes	High	High	Medium
T		Partner with business, civic, nonprofit, and neighborhood organizations to increase and promote community engagement in local decision-making	Medium	Yes	High	Medium	Medium
		Adopt policies or amend the jurisdiction's charter to specifically protect the civil and human rights of all	Low	Yes	High	High	Medium







Arts & Community

Advance and reinforce opportunities that celebrate #DURM culture

Measuring Success:

- Demonstrate that City hiring for staff and leadership positions reflect the diversity of the community by 2025
- Creative industries represent 5% of all businesses in Durham according to the Local Arts Index by 2040

Example Strategies: Develop partnerships with local organizations focused on business recruitment and retention of creative industries in Durham Offer training and workshops around entrepreneurial skills to expand capacity of local artists ✓ Develop a City Diversity Recruitment Plan to ensure equitable representation of minorities and females in specific job roles within local city government





Built Environment

Achieve equitable access and choice to resilient infrastructure that supports a high quality of life for all residents and enhances the environment

Example Strategies:

- ✓ Conduct an Affirmatively Furthering Fair Housing Assessment to analyze challenges to fair housing choice and inform goals and priorities to address fair housing barriers
- Support a communitywide public bike share program
- Utilize GIS to inform where to invest and acquire land for future parks
- Analyze public transit access and transportation costs for neighborhoods with housing affordable to low- and moderate-income households to inform future affordable housing and transit investments

Climate & Energy:

Lead the way in addressing climate change by minimizing energy use and increasing community and local government resource efficiency

Example Strategies:

- ✓ Develop sustainable building guidelines
- ✓ Develop enforcement strategies to ensure that the employee idle reduction policy is widely and consistently adhered to
- ✓ Install recycling bins in public places
- Establish a Water Use Baseline for local government facilities

Measuring Success:

- Develop a fundable action plan by 2020 to reduce the amount of energy use intensity in City owed buildings by 30% by 2040
- Achieve a 5% increase in fuel economy (MPG) of City fleet* by 2020, and 1% increase each year after by 2040
- Reduce the per household amount of residential solid waste that goes to the landfill by 10% by 2020; and total residential solid waste that goes to the landfill by 50% by 2040
- Reduce potable residential per capita water use by 10% by 2040
- Update the Green House Gas Reduction plan by 2020, creating a fundable action plan towards carbon neutrality in City operations by 2040



Economy & Jobs

Maximize equitably shared prosperity for local small and diverse businesses and inclusive access to quality job with fair livable wages

Measuring Success:

- Increase total employment in the clean technology and energy sector by 20% by 2040
- Demonstrate that 75% of City funds expended on professional services contracts \$100,000 or less and construction contracts \$500,000 or less will go to Certified City of Durham Small Local Businesses by 2020 and 95% by 2040
- Achieve and maintain the minimum wage for all full-time City employees in accordance with the Livable Wage Ordinance by 2018







Natural Systems

Protect and restore Durham's natural resources and ecosystem

Example Strategies:

- Establish guidelines for sustainable, siteappropriate landscaping for city-owned properties
- Allocate \$50,000 per year to the development or maintenance of green infrastructure, increasing to \$250,000 within 5 years including partner matching funds
- Expand forestry programs aimed at increasing the jurisdiction's tree canopy through active planting, care, and management in partnership with local businesses, civic groups and non-profit organizations
- Partner with local volunteer groups and neighborhood associations to restore priority natural systems areas by planting pollinator friendly habitat

Equity & Empowerment

Engage and empower residents to advance equity, inclusion, and equal access to opportunities and services

Measuring Success:

 Demonstrate a Resident Engagement Index score of 7 or greater by 2020 and 9 or greater by 2040





Innovation

Embrace a culture of innovation to ensure a more sustainable community

Example Strategies:

- ✓ Establish professional development opportunities for City employees that encourage skill-sharing and peerteaching/learning across departments
- ✓ Develop creative strategies that encourage innovation, continuous improvement, and risk taking among local government employees to improve City services and outcomes
- Expand City performance management system, creating more opportunities focused on regularly utilizing high-quality data to inform process improvement and operational decisions





Public Engagement Process









August – November 2017

- Over 1,300 residents provided input via:
 - Online Survey (Spanish & English versions)
 - 4 Stakeholder Interviews
 - 8 Public Events
 - Review of 9 Previous Public Input surveys









Q2: What is most important to you about Climate & Energy? (#1 being the most important)

Answered: 637 Skipped: 27



Example of Online Survey Results

Online Sustainability Survey

August - November 2017







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What we heard from Durhamites:

- •Residents overwhelmingly mentioned the need for focused attention on affordable housing

- •Engaging youth in sustainability initiatives was a common theme
 •Investing in building energy efficiency and transitioning to clean, renewable energy
 •Protecting open space and promoting connectivity of our green spaces, parks, and trails
 •Improved access and connectivity of bicycle and pedestrian facilities
 •A greater consideration for environmental justice, such as working towards a more equitable distribution of tree canopy coverage, air, water, and soil quality across all socioeconomic groups
- •Expanding our waste reduction options (public recycle bins, offering composting service, addressing plastic bags and Styrofoam etc.)

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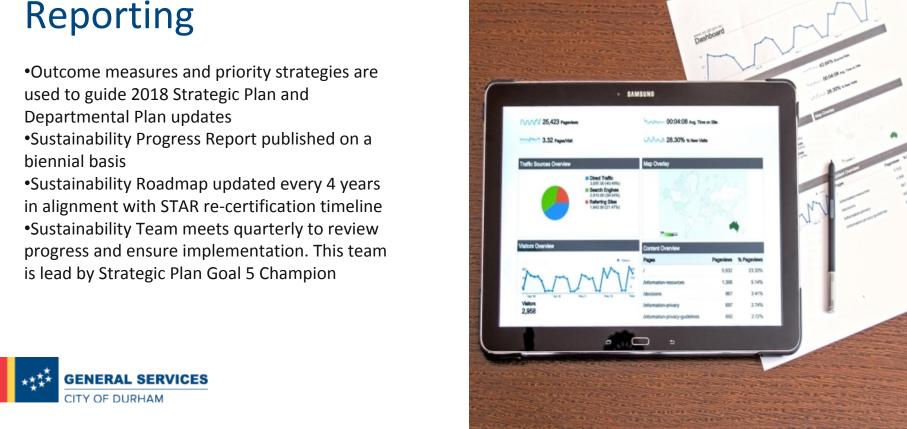
- •Offering more workforce training and access to quality jobs that provide fair, livable wages •Providing equitable access to services- especially for Spanish speaking, minority, and low-income residents







Implementation & Reporting





Please direct questions to: **General Services Department** Sustainability & Energy Management 919-560-4197







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