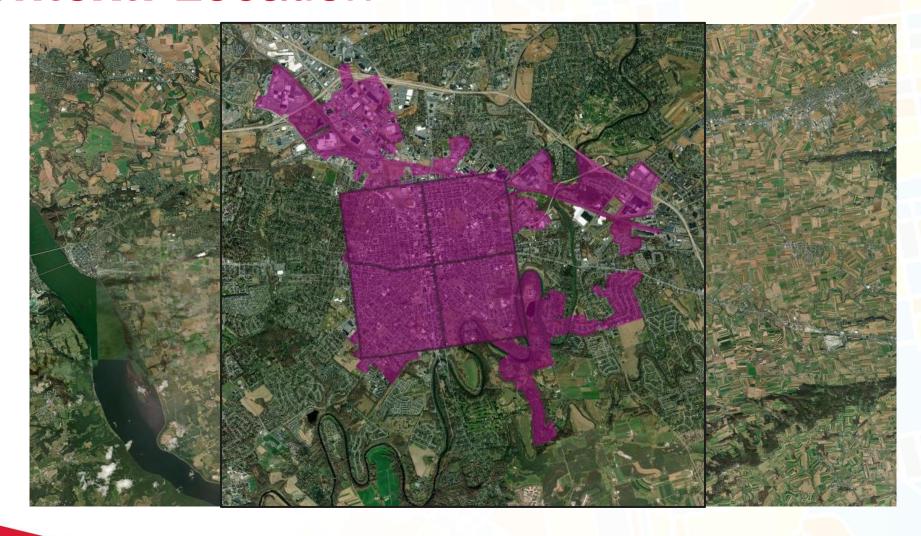
Trees for People

URBAN FORESTRY IN LANCASTER, PA



Context: Location





Context: Demographics

• 2021 Population: 61,382

(2026 Projection: 62,460)

- Population Density: up to 38,255 persons per square mile
- Median Age: 33 years old

(Fastest growth: Adults over 65 years old)

- Race
 - Minority residents: 39%
 - White, non-Hispanic: 61%

(County: 9%; State: 18%)

(County: 91%; State: 82%)

- Median Household Income: \$44,400 (County: \$67,230; State: \$62,720)
 - Minority: \$40,187
 - White: \$55,970



Context: Environment



IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF PENNSYLVANIA

UNITED STATES OF AMERICA,)	
and COMMONWEALTH OF PENNSYLVANIA,) Civil Action No. 17-cv-5684	
DEPARTMENT OF ENVIRONMENTAL PROTECTION) Judge	
Plaintiffs, v.))	
CITY OF LANCASTER, PENNSYLVANIA,))	
Defendant.))	



Context: Environment

- "Environment" in urban contexts
- Natural versus anthropogenic elements

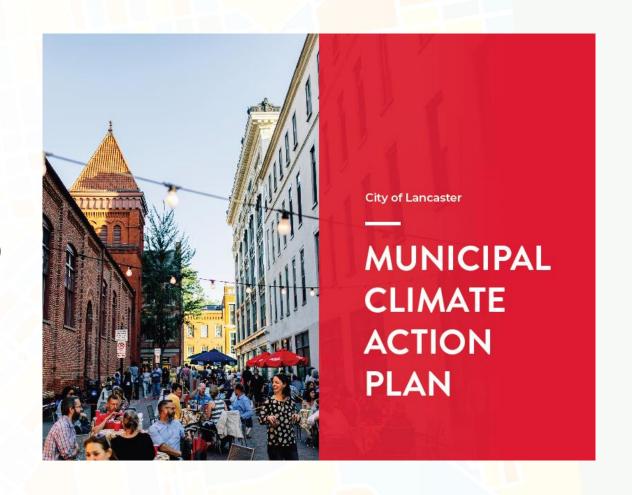
Lines begin to blur....



Policy & Planning: Climate Action Plan

Vision Statement:

The City of Lancaster **EQUITABLY** implements
innovative, collaborative and
fiscally responsible strategies to
reduce greenhouse gas
emissions and build resilience
to the impacts of climate
change.



Vision Statement

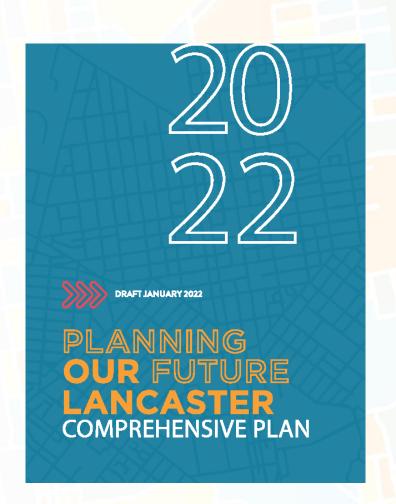
The City of Lancaster equitably implements innovative, collaborative and fiscally responsible strategies to reduce greenhouse gas emissions and build resilience to the impacts of climate change.

	Goals	2025	2035	2050		
Energy	Transition to renewable energy sources from a mix of on-site or off-site options.	100%	100%	100%		
	Reduce municipal energy consumption through energy efficiency improvements.	25%	40%	50%		
	All new construction of municipal facilities to be built to highest efficiency standards (IECC), and a percentage of renewable energy sourced, with a progressive goal of carbon neutral/net zero buildings.	Highest efficiency standards	Carbon neutral	Carbon neutral		
Vehicle Fleet	Reduce fuel emissions through reduced vehicle miles traveled, when possible, across the municipal fleet.	15% reduction of VMT	20% reduction of VMT	30% reduction of VMT		
	Reduce fuel emissions through cleaner fuel technologies, when possible, across the municipal fleet.	10% reduction of VMT	25% reduction of VMT	100% reduction of VMT		
Waste	Divert the amount of landfill waste contributed by municipal facilities that cannot be transferred to energy, including construction debris, some organics and wastewater-produced biosolids.	25% diversion of waste to landfill	70% diversion of waste to landfill	Zero waste in municipal facilities		
Water	Reduce water consumption on city properties.					
Storm- water	Reduce stormwater entering into the system through conservation, green infrastructure and technology.					
Building Culture of Sustainability	Reduce excess energy and water consumption by City employees.					
	Reduce the emissions impact of City employees travel to and from work.					
	Reduce upstream and downstream emissions by assessing citywide purchasing practices.					
	Establish community-wide connections to municipal climate action, designed to encourage broad-based community support and action.					
Carbon Offsets	Strategically employ carbon offsets to progressively reach carbon neutrality associated with municipal operations.	1% of emissions	10% of emissions	19% of emissions		



Policy & Planning: Environmental Justice

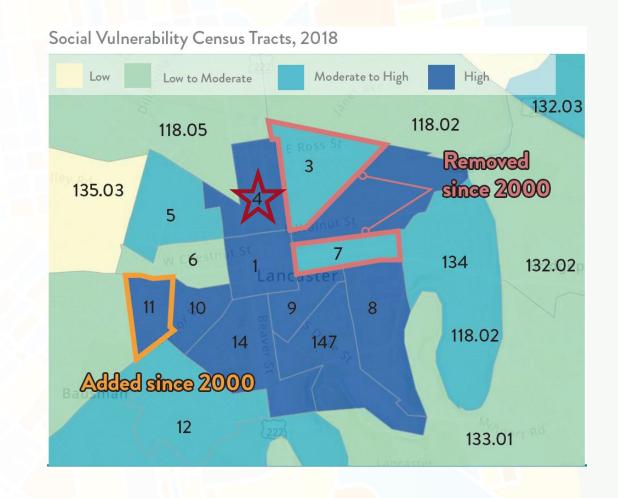
- "The majority of Lancaster City is categorized as a potential environmental justice area based on the definition provided by the Pennsylvania Department of Environmental Protection."
 - PA DEP considers any census tract where 20% or more individuals live in poverty and/or 30% or more of the population identifies as a minority.





Policy & Planning: Social Vulnerability

- Social vulnerability is the increased susceptibility to disaster of certain low-income, minority, and other disadvantaged populations.
- Factors considered include:
 - Unemployment
 - Minority status
 - Disability



- "Trees for People: An Action Plan for Lancaster City's Urban Forest" drafted and released October 2020
 - 32 action items identified via prioritization matrix
 - First holistic identification of ESS provision of urban forest elements
- "All people, regardless of socioeconomic or racial background, should be guaranteed access to trees and the green spaces where trees are often found. Trees are for all people, and all people need trees."
- First action item fulfilled: Urban Forester hired



- Baseline data collection
 - Complete street tree and park tree inventories
 - Tree ID
 - Condition
 - Ecosystem service provision
 - Urban Tree Canopy analysis
 - Total coverage
 - Impervious surface cover
 - Allocation
 - Equity
 - Ecosystem service provision



- Identification of hindrances:
 - Property owner responsibility for planting, care, removal, sidewalk and curb
 - Narrow streets
 - Competing infrastructure
 - Community buy-in
- Ultimately, those least served by urban forest elements are most burdened by lack of ecosystem service provision and yet are least supportive of inclusion on their property

Goals:

- Increased canopy cover and tree numbers
- Adequate tree protection
- Full adoption of urban forest management
- Community support and pride

Near-future Actions:

- Urban forest "reset"
- Street Tree Assistance Program
- Ordinance and "Tree Manual" updates
- Urban Forest Master Plan

(Plant more trees)

(Maintain mature canopy)

(Limiting limitations)

(Outreach, education, and burden alleviation)



- Initiatives being considered:
 - Stockholm Model
 - Biochar Structural Soils
 - ARPA Fund use
 - Adopt-It Programming
 - 3-30-300 Rule



thin layer of unprocessed biochar. This layer is



Questions

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