



# Equitable Solutions to Climate Change Chicago 2020

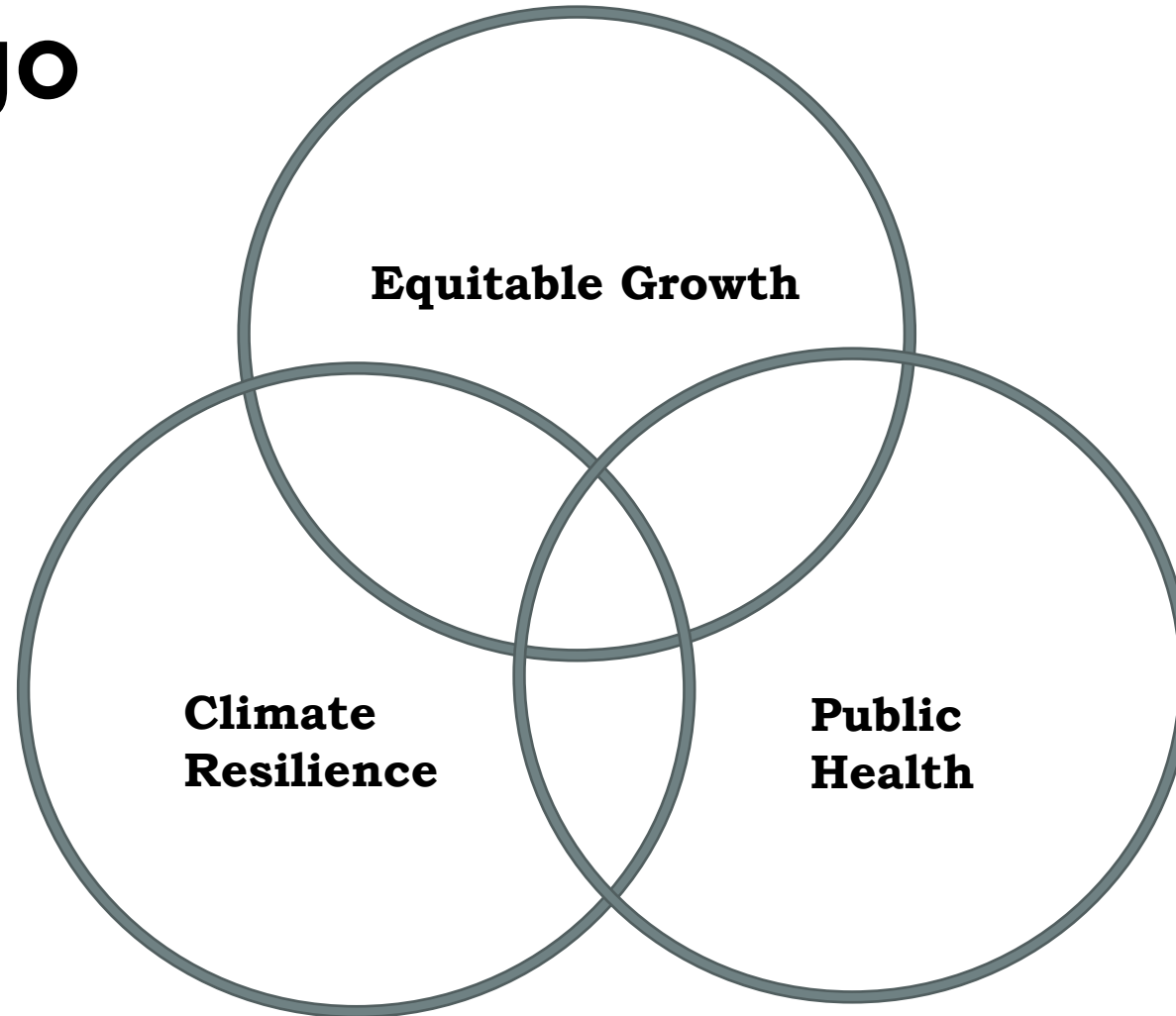
September 2020

# **Mission Statement**

A city where all **people** and all **communities** have **power**, are **free from oppression** and are strengthened by **equitable access** to resources, **environments** and opportunities that promote **optimal health** and **well-being**.



# Vision for a Sustainable, Resilient Chicago



# Environmental Racism Is Nothing New

Race is the most significant predictor of a person living near contaminated air, water, or soil.

**56%**

*of the population near **toxic waste** sites are people of color.*



**THE NATION**  
150  
INSPIRING FORWARD SINCE 1865



*People of color:*

*Have seen*

**95%**

*of their claims against polluters **denied by the EPA.***



*Have*

**38%**

*higher **nitrogen-dioxide** exposure.*



*Are*

**2x**

*more likely to live without **potable water** and **modern sanitation.***

# Equity – An Outcome and A Process

## Outcome

- Race no longer determines one's socioeconomic outcome
- Everyone have what they need to thrive

## Process

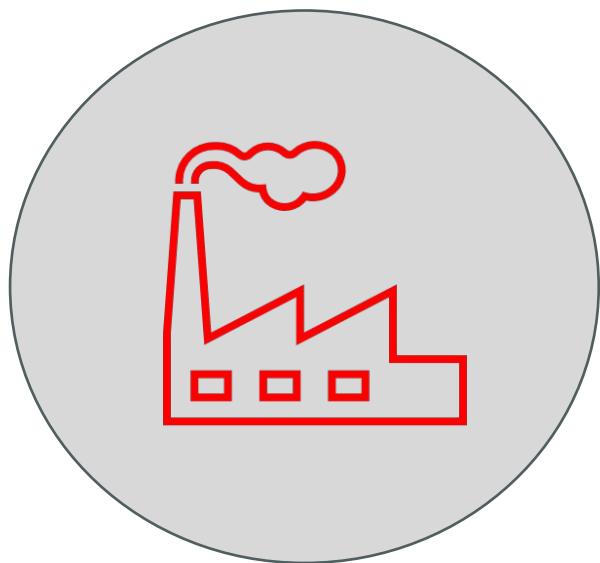
- When those most impacted by structural racial inequity are meaningfully involved in the creation and implementation of the institutional policies and practices that impact their lives

Source: Center for Social Inclusion



# Chicago's Most Pressing Environmental Challenges

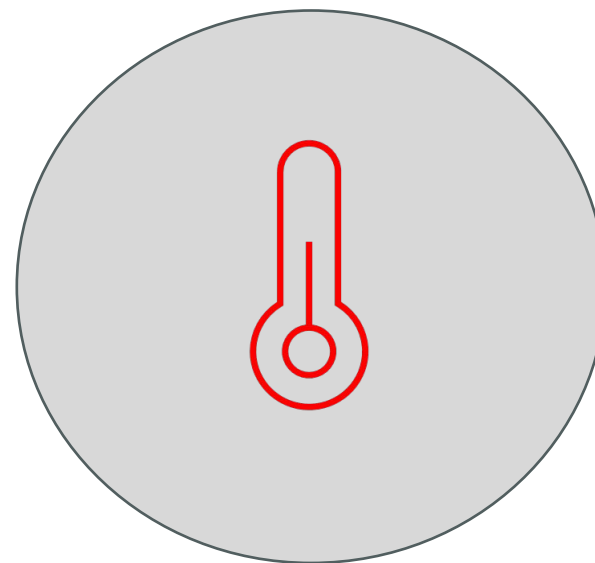
Legacy Pollution



Ongoing Pollution

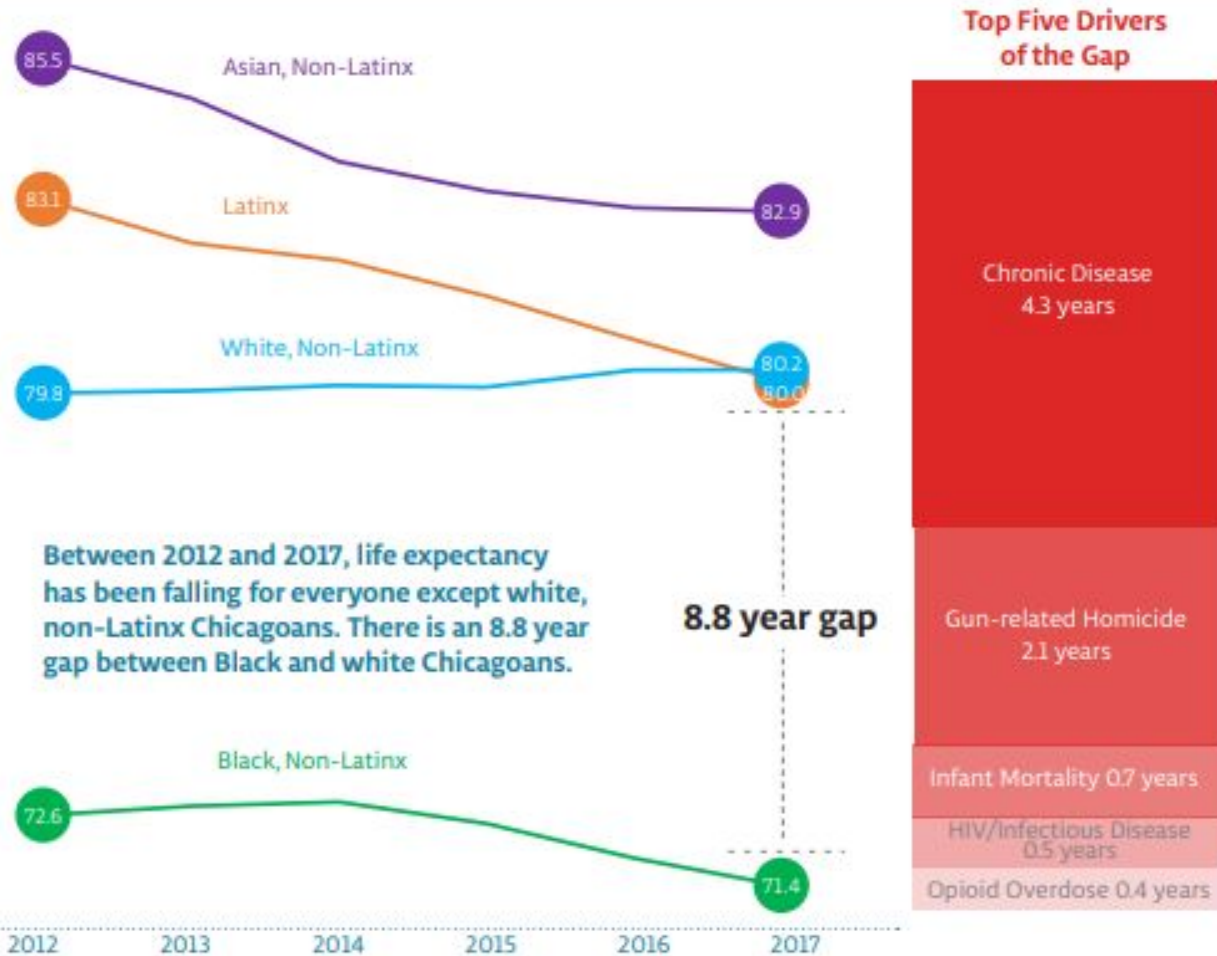


Climate Change



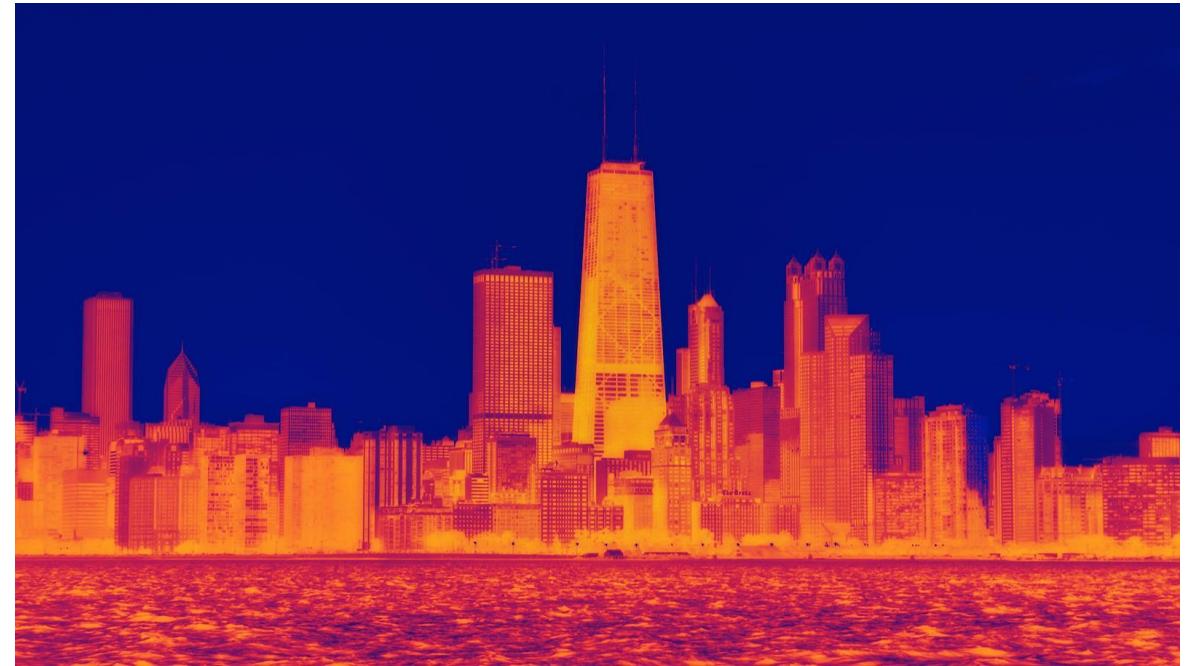
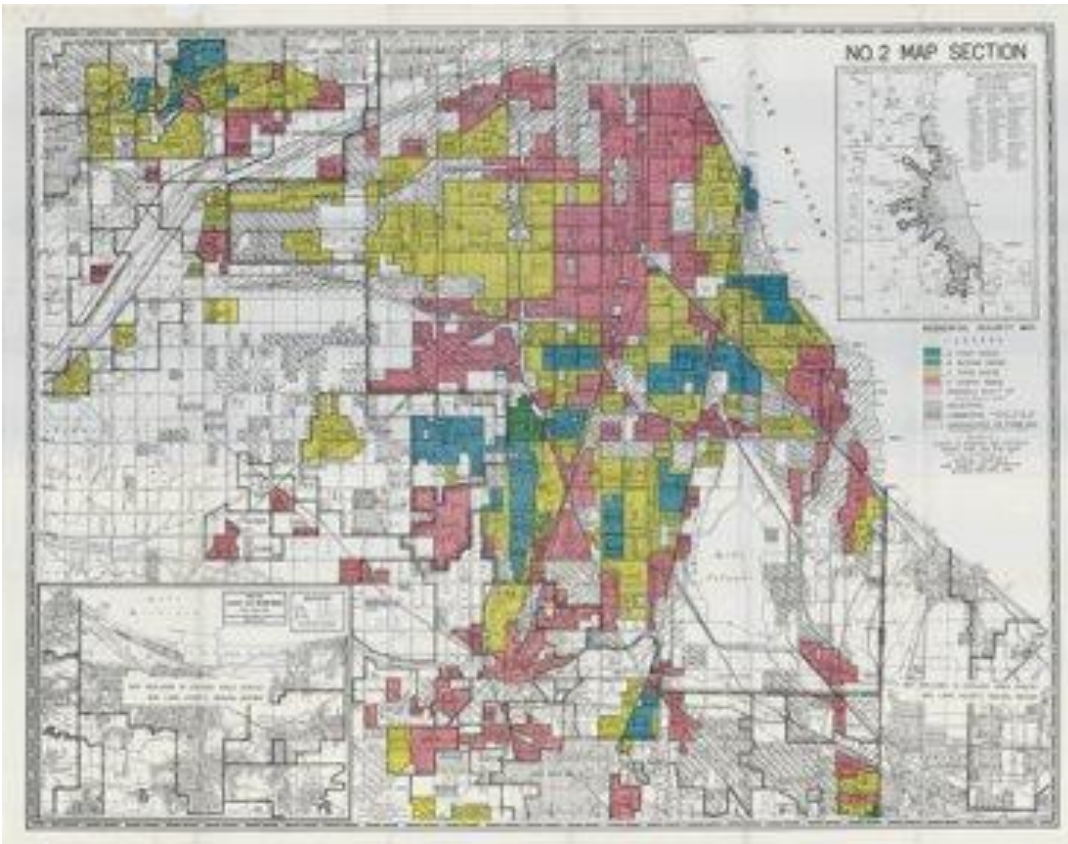
# ★ 9 Year Racial Life Expectancy Gap

CHICAGO'S LIFE EXPECTANCY GAP, 2017



Source: CDPH

# ★ Climate Change in Chicago

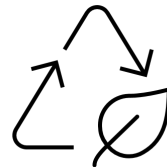
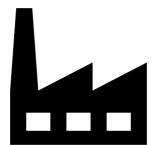


Source: Flickr / Dustin Phillips

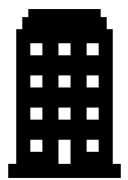
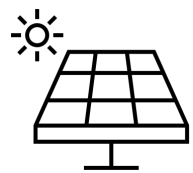




# Reaffirming our Commitment to Climate Change Mitigation



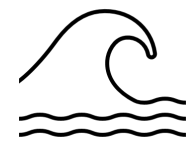
**100% Renewable Energy for Municipal Buildings by 2025**



**100% Renewable Energy for City-Wide by 2035**

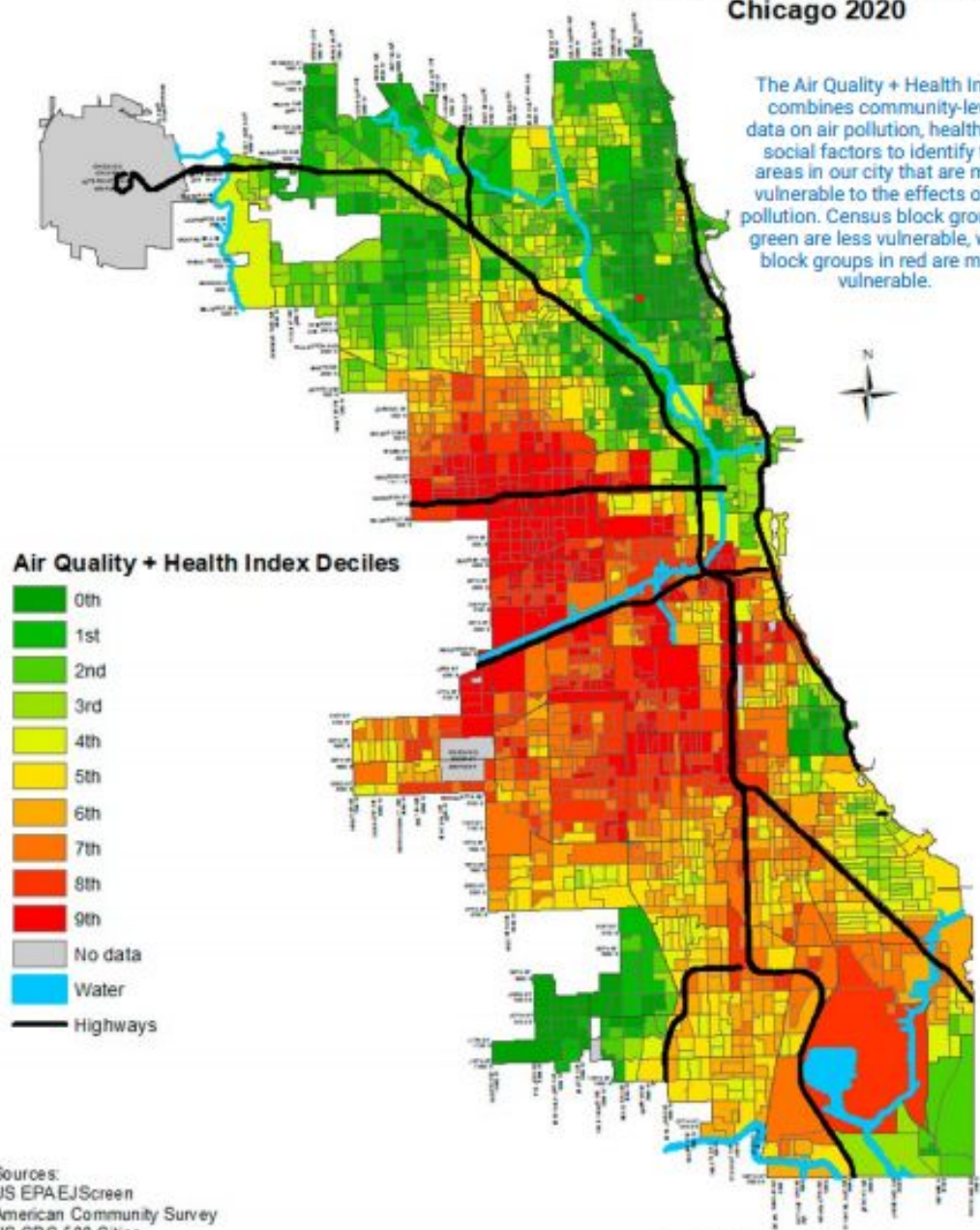


**100% Bus Electrification by 2040**



# Air Quality and Health Index, Chicago 2020

The Air Quality + Health Index combines community-level data on air pollution, health, and social factors to identify the areas in our city that are most vulnerable to the effects of air pollution. Census block groups in green are less vulnerable, while block groups in red are more vulnerable.



Sources:  
US EPA EJScreen  
American Community Survey  
US CDC 500 Cities  
IDPH Vital Statistics  
Various years combined, 2011-2018

Created by Office of Epidemiology,  
Chicago Department of Public Health, January, 2020

Source: CDPH





# Air Quality and Health Reform Agenda

**Environmental Equity Working Group:** The City will convene a board of community representatives, environmental leaders, and other local stakeholders who will advise the reform agenda.

**Industrial Business Rule Reform:** Review and revision of other operating rules for industrial businesses

**Cumulative Burden Analysis:** Development of an ordinance requiring new and more stringent permitting requirements to prevent cumulative burdens from disproportionately affecting certain neighborhoods.

**Enforcement and Inspection Reform:** Evaluation and updates to the current processes.

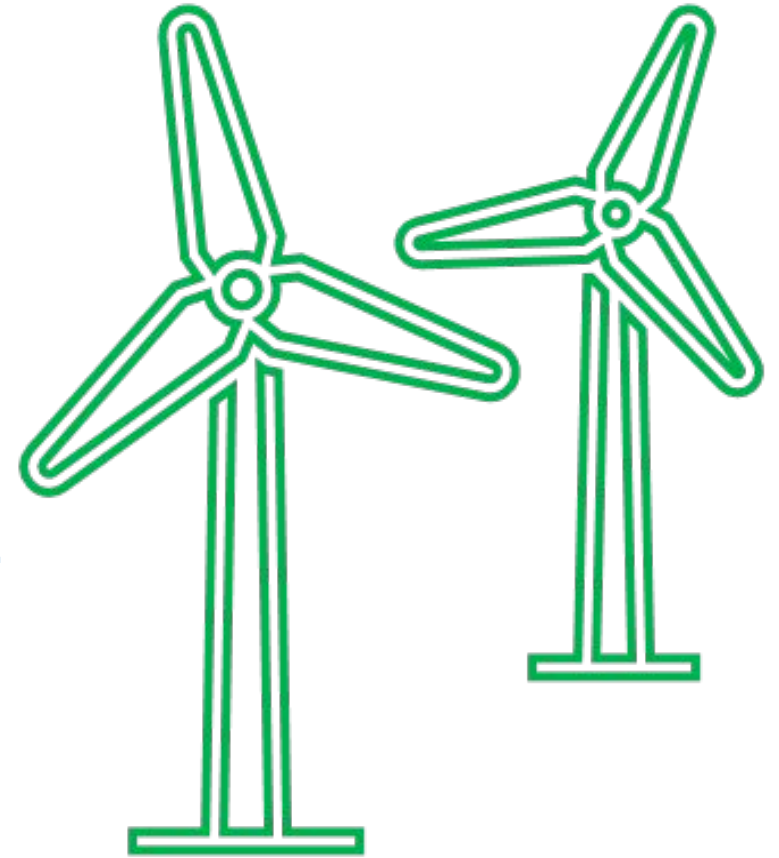


# Air Quality Zoning Ordinance

- **Eliminates** certain uses from City limits, including mining, landfills, and incinerators;
- **Reclassifies** certain uses from of-right to special-use, which requires approval by the Zoning Board of Appeals, including:
  - Intensive manufacturing
  - Warehousing
  - Container storage
  - Freight terminal
- **Requires** planned development review and approval for large industrial uses, if those uses are within 660 feet of any residential, business, or commercial district or if the site exceeds 10 acres

# ★ 100% RENEWABLE ENERGY RFP

1. A Minimum Requirement for New Renewable Energy Projects
2. Contract Flexibility to Allow for Separable Power Purchase Agreements (PPAs)
3. Integrated Evaluation of Local Economic Development and Equity Benefits





# Pathway to a Just Clean Energy Transition



Source: Bloomberg Business 2016

<i>Category</i>	<i>Description</i>	<i>Information / Data to be Completed</i>
Community benefit and involvement	Value of the proposed community benefit initiatives that benefit Chicago	<i>Dollar Value</i>
New Build Renewable Generation Siting – Within Chicago	Portion of new build capacity that will be located within Chicago	MWs of new build capacity
New Build Renewable Generation Siting – Within Chicago	Portion of new build capacity that will be located within PJM territory within IL, not including Chicago	MWs of new build capacity
Local Supply Chain	Revenue to Chicago local suppliers of goods and services related to New Build Renewable Generation	Dollar value
Local Long-Term Jobs	Estimated number of long-term jobs within Chicago associated with New Build Renewable Generation, based on full-time equivalency	Quantity
Local Short-Term Jobs	Estimated number of short-term jobs within Chicago associated with New Build Renewable Generation, based on full-time equivalency	Quantity of jobs and total labor hours
In-State Long-Term Jobs	Estimated number of long-term jobs within Illinois, not including Chicago, associated with New Build Renewable Generation, based on full-time equivalency	Quantity
In-State Short-Term Jobs	Estimated number of short-term jobs within Illinois, not including Chicago, associated with New Build Renewable Generation, based on full-time equivalency	Quantity of jobs and total labor hours
Diversity in Retail Supply Company	Quantity and percentage of women and minorities in ownership, leadership, and senior management positions for the retail supply company	Quantity and percent
Diversity in Developer Companies	Quantity and percentage of women and minorities in ownership, leadership, and senior management positions for the developer companies	Quantity and percent



# Thank You!

**Angela Tovar**

**Chief Sustainability Officer,  
City of Chicago**

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Source: Reddit / PantonePat



# GreenTown: Climate

**Crisis** *September 23, 2020*

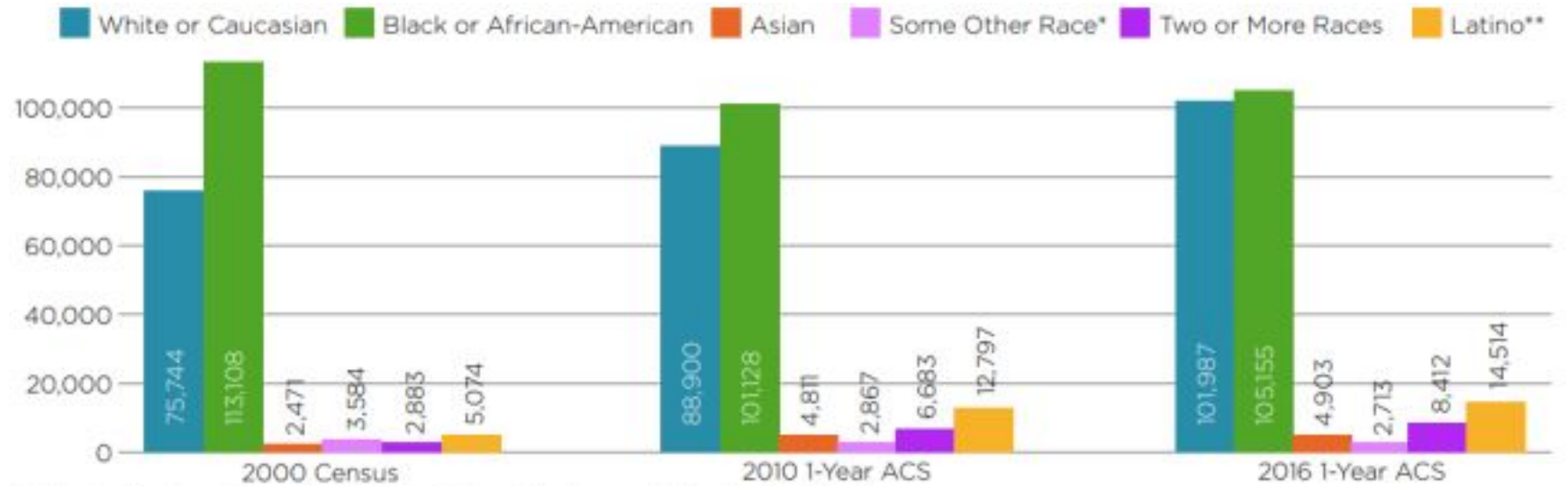
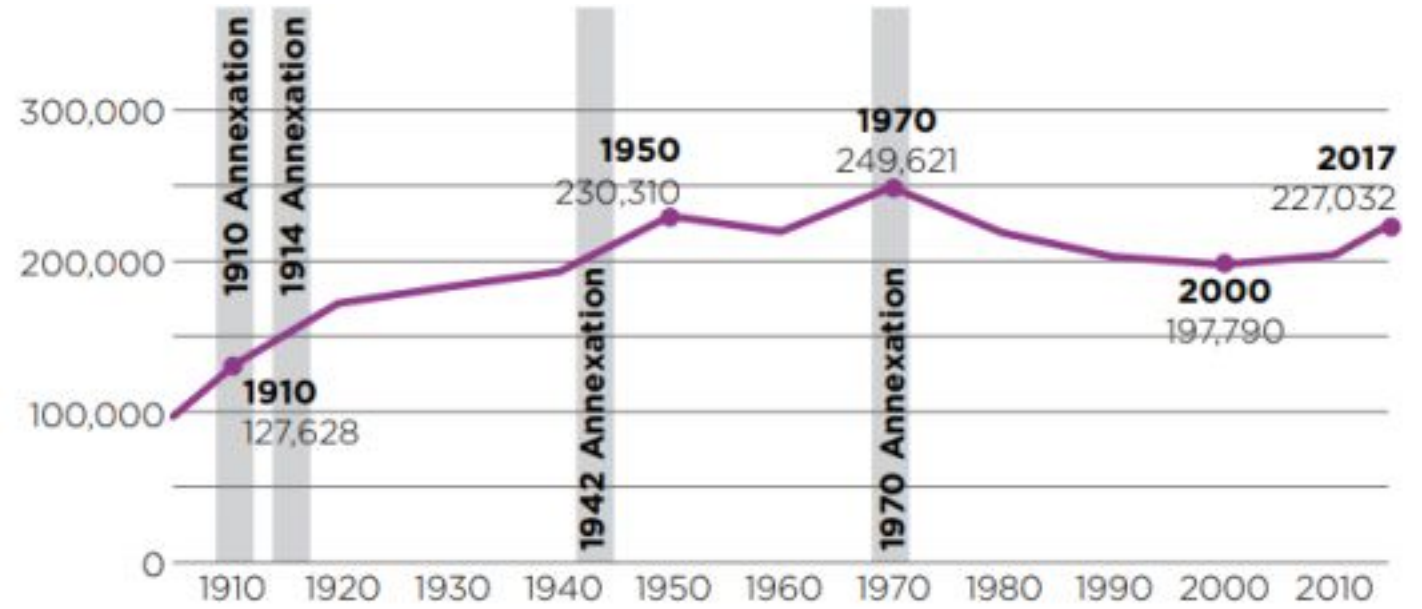
Brianne Mullen, Sustainability  
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Equitable climate action for a healthy and resilient Richmond



# Richmond, Virginia



\*includes American Indian, Alaska Native, Native Hawaiian and Other Pacific Islander.

\*\*The U.S. Census categorizes "Latino" as an ethnicity, not a race. Therefore, Latinos may identify their race as white, black, or some other race, as well as identifying their ethnicity as "Latino."

# RVAgreen 2050 = Integrated Nexus

**Planning**



**Climate Action**



Reduce greenhouse gas emissions



## Climate Resilience

Prepare for climate change impacts

**Equity:** Correct past harms and prevent future unintended consequences; address the underlying structural and institutional systems that are the root causes of social and racial inequities

# Procedural Distributional Structural

Everyone can influence processes and access programs

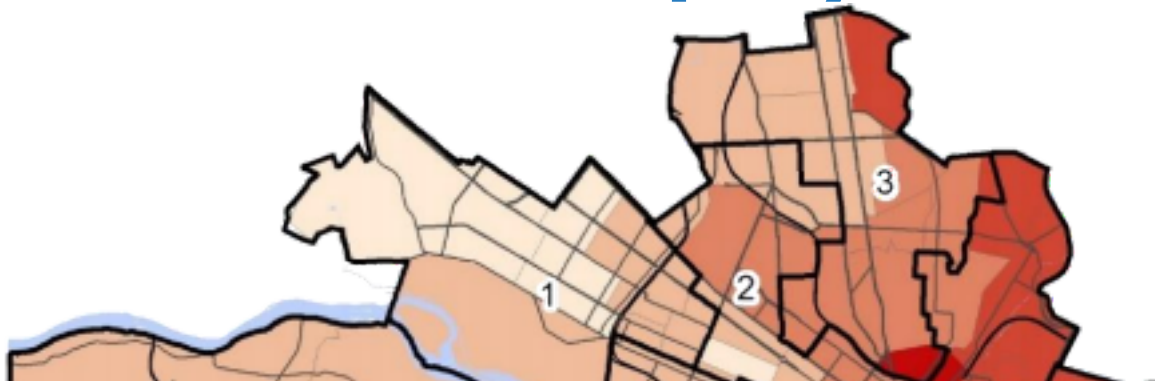
Benefits and burdens are fairly shared

Change inequitable

outcomes and systems that create those outcomes

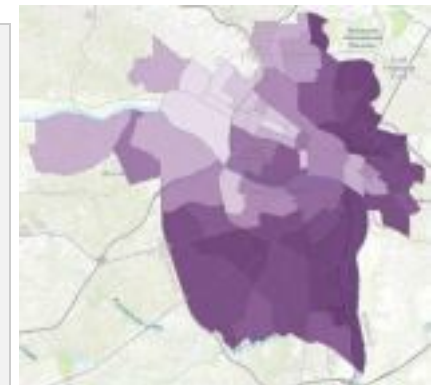
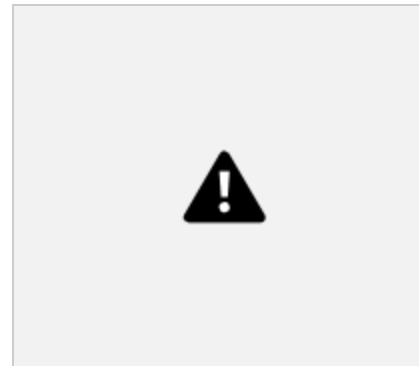
*Source: Government Alliance for Racial Equity (modified)*

## Climate Equity Index



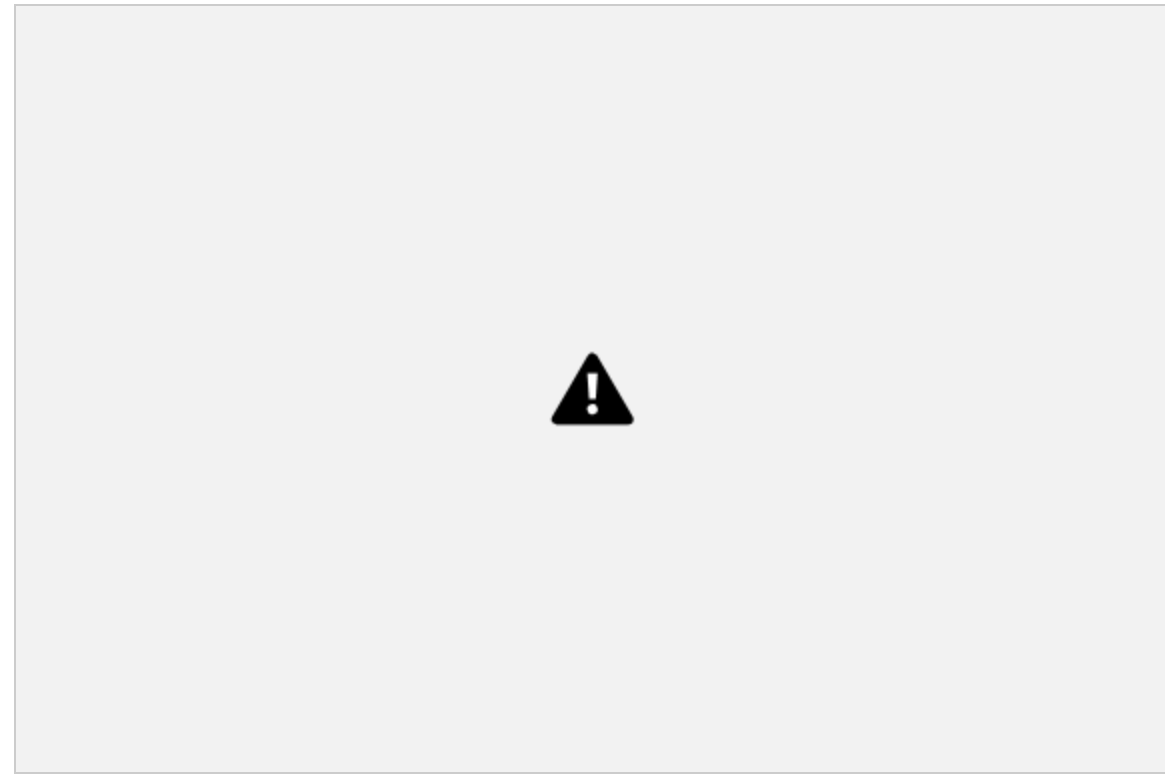
- Poverty
- Age
- Race
- Gender

- Disabilities
- Chronic health conditions
- Mental health
- Household composition
- Working outdoors
- Public assistance income
- Housing characteristics
- Crime
- Education
- Language
- Social isolation
- Employment
- Transportation access
- Air conditioning
- Housing (shelters, group homes)



Overall Social Vulnerability  
% "Minorities" (all persons except

"White - Not Hispanic or Latino")

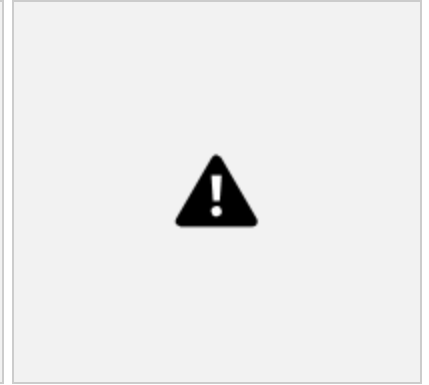
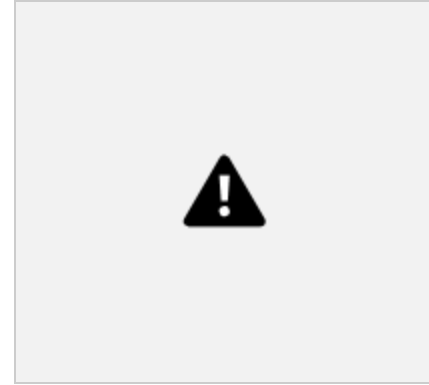


“Residential Security Map” (1937)



Asthma % Housing Units Occupied by Renters

% Adults with



% Below Poverty Level % Housing Units w/o Central A/C

# RVAgreen 2050 Process



# **RVAgreen 2050 Process**





Kumar Jensen  
Chief Sustainability and Resilience Officer  
City of Evanston

Working Towards Carbon Free Cities  
September 23, 2020



# Climate Action and Resilience Plan

## Goals

1. Prepare Evanston for the impacts of the climate crisis
2. Achieve 100% Renewable Electricity by 2030
3. Community-wide Zero Waste by 2050
4. Carbon Neutrality by 2050



# Guiding Implementation Principles

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## **Equity Centered**

Climate change affects everyone. However, not all people are equally impacted.

## **Outcome-Focused**

Reducing Evanston's contribution to the climate crisis and improving resilience must be demonstrated through a change in outcomes.

## **Cost-Effective and Affordable**

Implementation will prioritize the cost-effectiveness for the City to implement and the impact on affordability.



# Environmental Justice Resolution

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Tuesday, September 15, 2020 | [View in browser](#)

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## **EVANSTON CITY COUNCIL UNANIMOUSLY APPROVES RESOLUTION SUPPORTING ENVIRONMENTAL JUSTICE**



# EJ Resolution Components

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1. Incorporate environmental justice into City ordinances, codes, policies and processes in consultation with stakeholders
2. Create a meaningful public engagement policy and decision making process in collaboration with the City's Equity and Empowerment Commission
3. Develop and maintain a geographic information system (GIS) inventory of environmental justice areas in Evanston, defined as regions where there are likely to be disparities in access to environmental assets or exposure to hazards



# Greenhouse Gas Sources

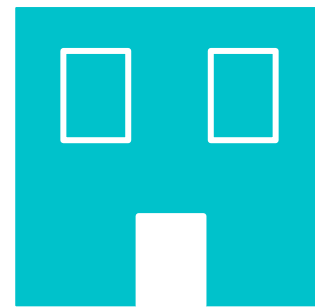
2% Waste



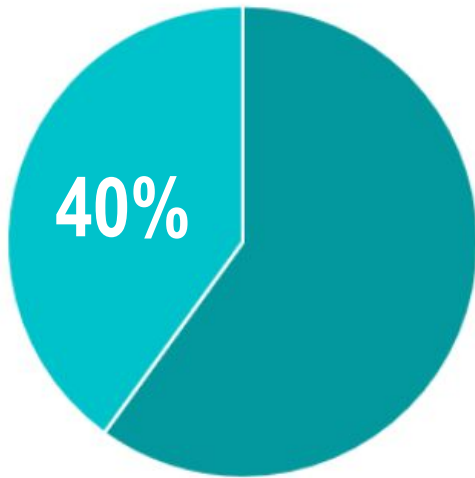
17%  
Transportation



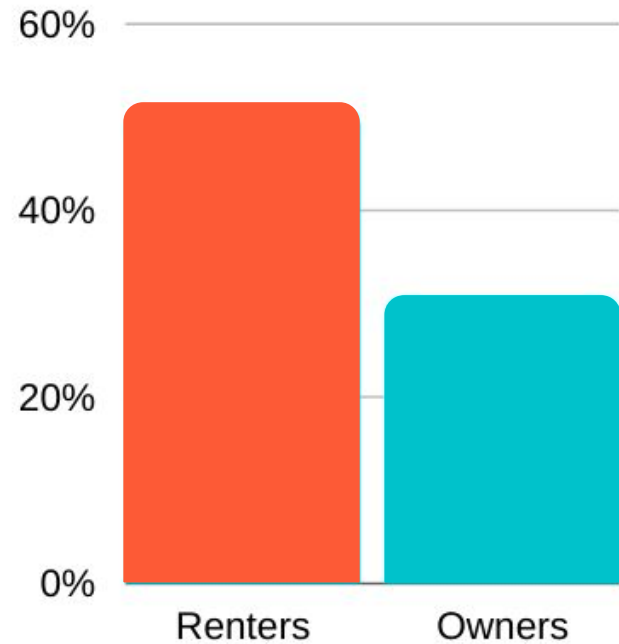
80% Buildings



# Housing Cost Burden

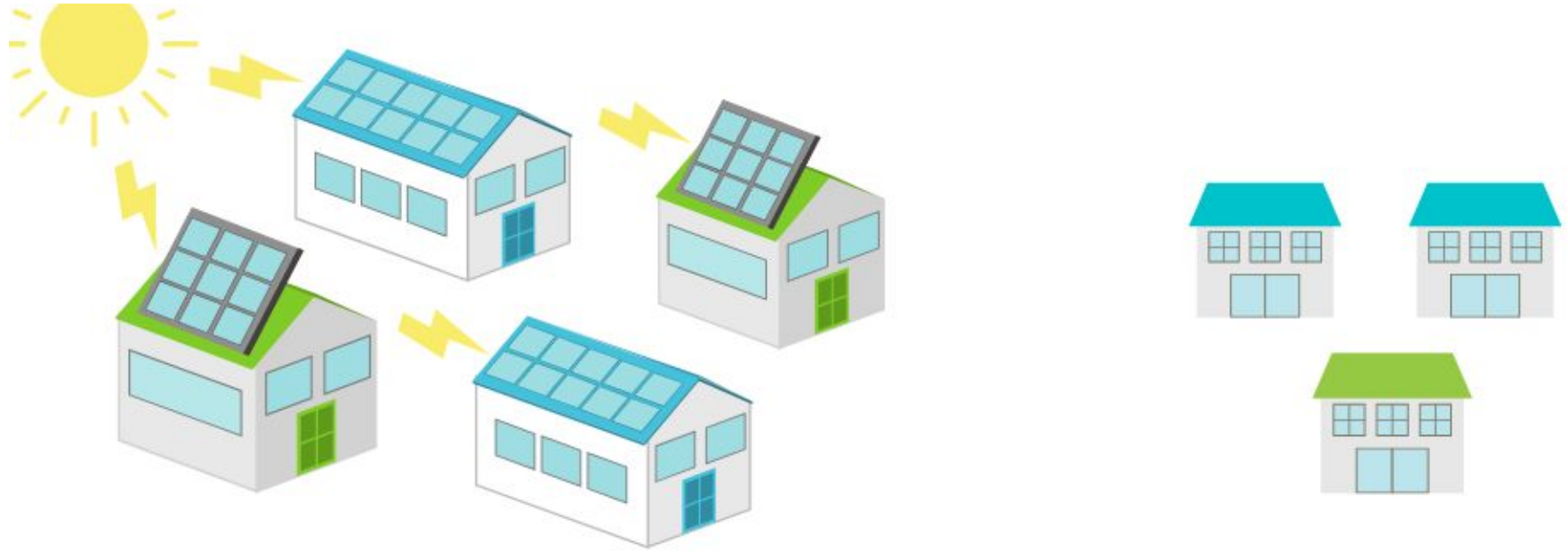


40% of households are housing cost burdened



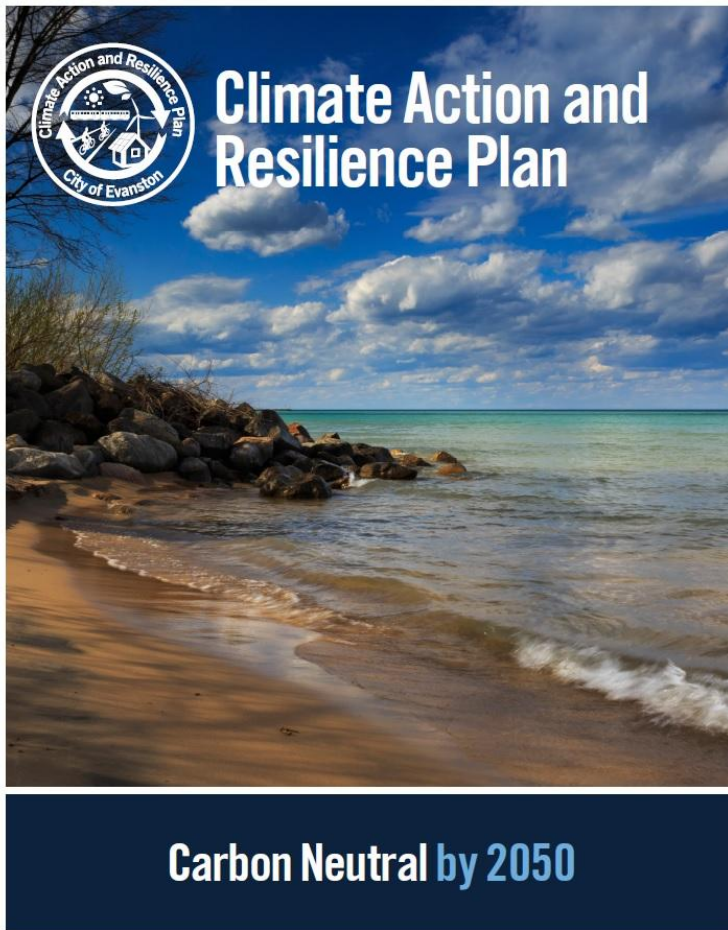
51.5% of renters are housing cost burdened compared to 30.7% of owners





In 2019, Evanston saw a solar boom with solar installations doubling. There are now 98 solar installations in Evanston but few, if any, are providing renewable energy to low-income residents.





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Chief Sustainability and  
Resilience Officer

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[cityofevanston.org/climate](http://cityofevanston.org/climate)

November 2018

