



CARP

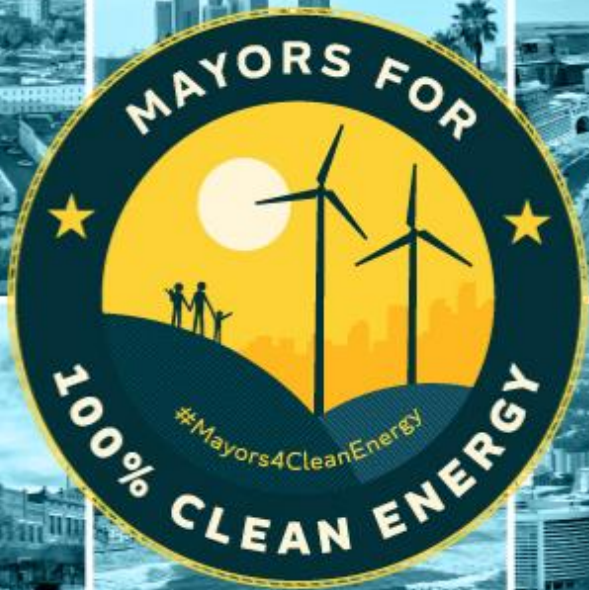
Climate Action and Resilience Plan Submit Public Comment between Sept. 4–28

Carbon Neutral by 2050

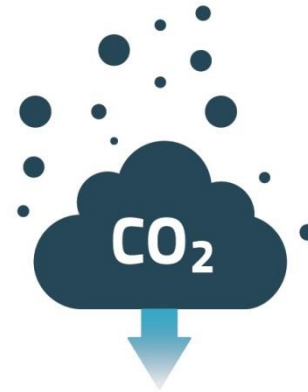
September 13, 2018

Kumar Jensen
Sustainability Coordinator
City of Evanston

Follow the process at:
cityofevanston.org/climate
[@GreenEvanston](https://twitter.com/GreenEvanston) 



Evanston is committed to **100%** clean energy



Evanston is committed to achieving a **26–28%** reduction in emissions by 2025.



80% Reduction in Emissions by 2050

WHAT ARE CLIMATE ACTION AND RESILIENCE?

Climate Action/Mitigation

Climate action describes actions that reduce the release of greenhouse gas emissions such as carbon dioxide and methane.

Climate Adaptation/Resilience

The task of evaluating the changing climate and preparing the community for those changes and the impact they will have on the community and its infrastructure.

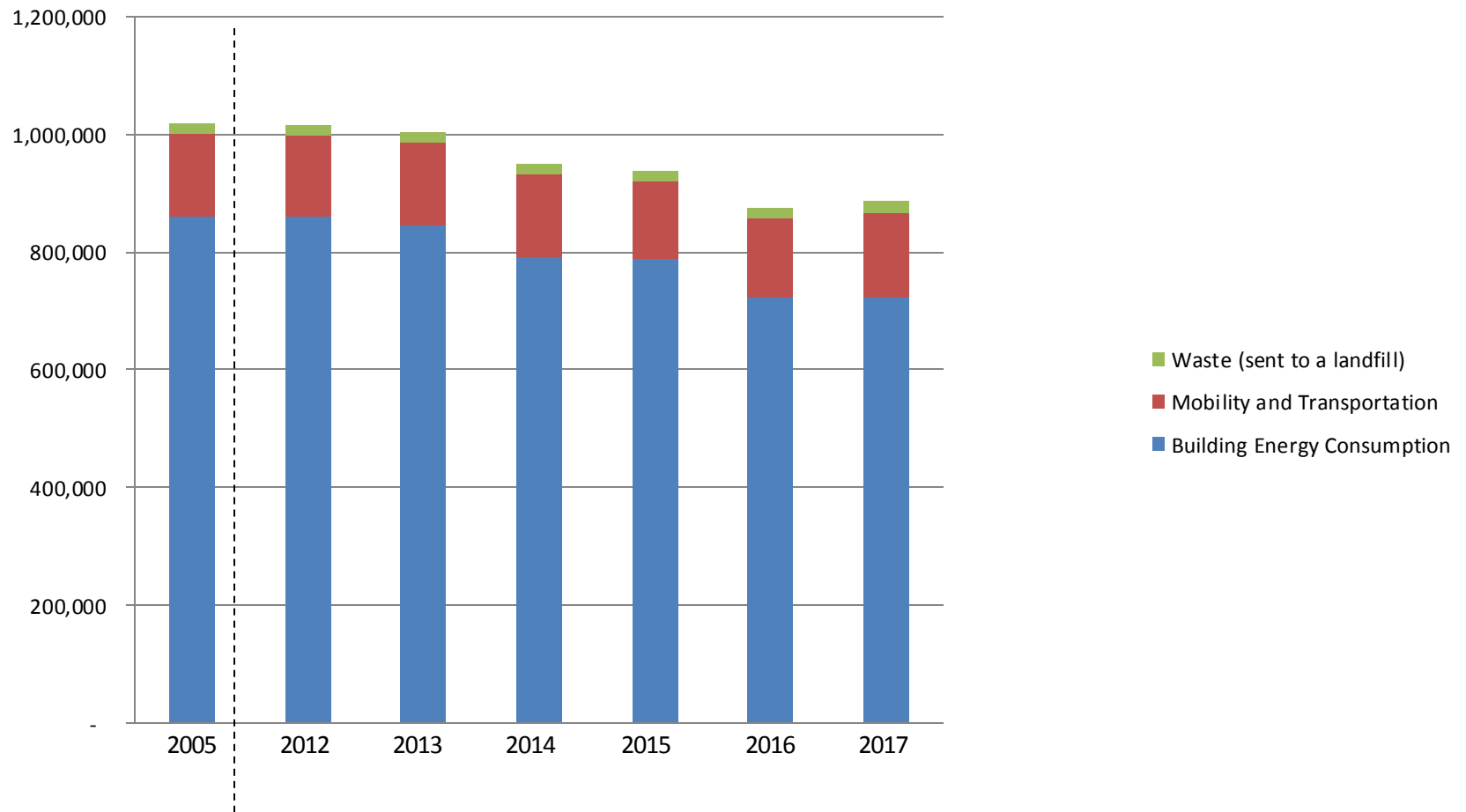
EMISSIONS INVENTORY

Evanston Community-wide Greenhouse Gas Emissions Inventory

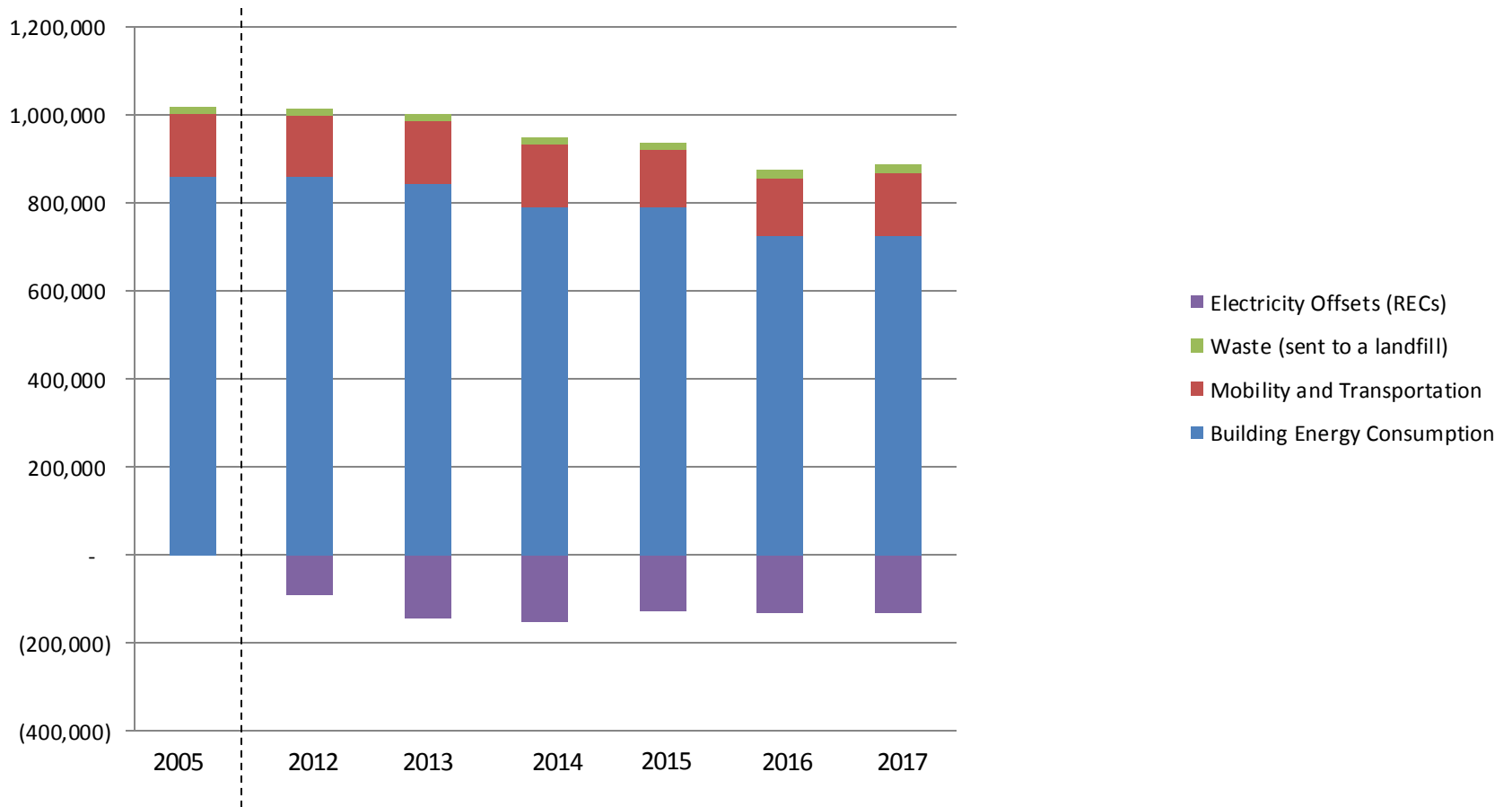
	Baseline	Performance Years					
	2005	2012	2013	2014	2015	2016	2017
Building Energy Consumption	861,147	859,191	844,917	791,847	789,027	723,349	723,918
Mobility and Transportation	140,521	138,063	140,170	139,500	131,952	133,274	143,688
Waste (sent to a landfill)	17,000	17,709	17,709	17,709	16,226	18,216	18,475
Total-Pre-Offsets (RECs)	1,018,668	1,014,962	1,002,796	949,057	937,205	874,840	886,080
Electricity Offsets(RECs)	0	(92,176)	(142,760)	(153,932)	(129,296)	(130,180)	(119,947)
Municipal Operations	24,559	19,251	19,251	19,251	10,689	8,144	8,145
Total	1,043,227	942,038	879,287	814,376	818,597	752,803	764,045
Percent Reduction	0.0%	9.7%	15.7%	21.9%	21.5%	27.8%	26.8%

Units in metric tons of carbon dioxide equivalent(MTCO₂e)

EMISSIONS REDUCTIONS WITHOUT OFFSETS



EMISSIONS REDUCTIONS INCLUDING OFFSETS



EVANSTON'S FUTURE CLIMATE

Climate Condition	By Mid-Century 2050	By End Century 2100	Summary
Extreme Heat	↑	↑↑	Increase in extremely hot days, over 95°F and 100°F
Shorter Winters	↓	↓↓	Decrease in cold days below freezing
Storms	↑	↑↑	Increase in extreme precipitation events
Drought	?	↑	Increase in drought conditions

Data taken from the **USDN Socioeconomic Mapping Tool for Climate Risk Planning**

EVANSTON CLIMATE IMPACTS

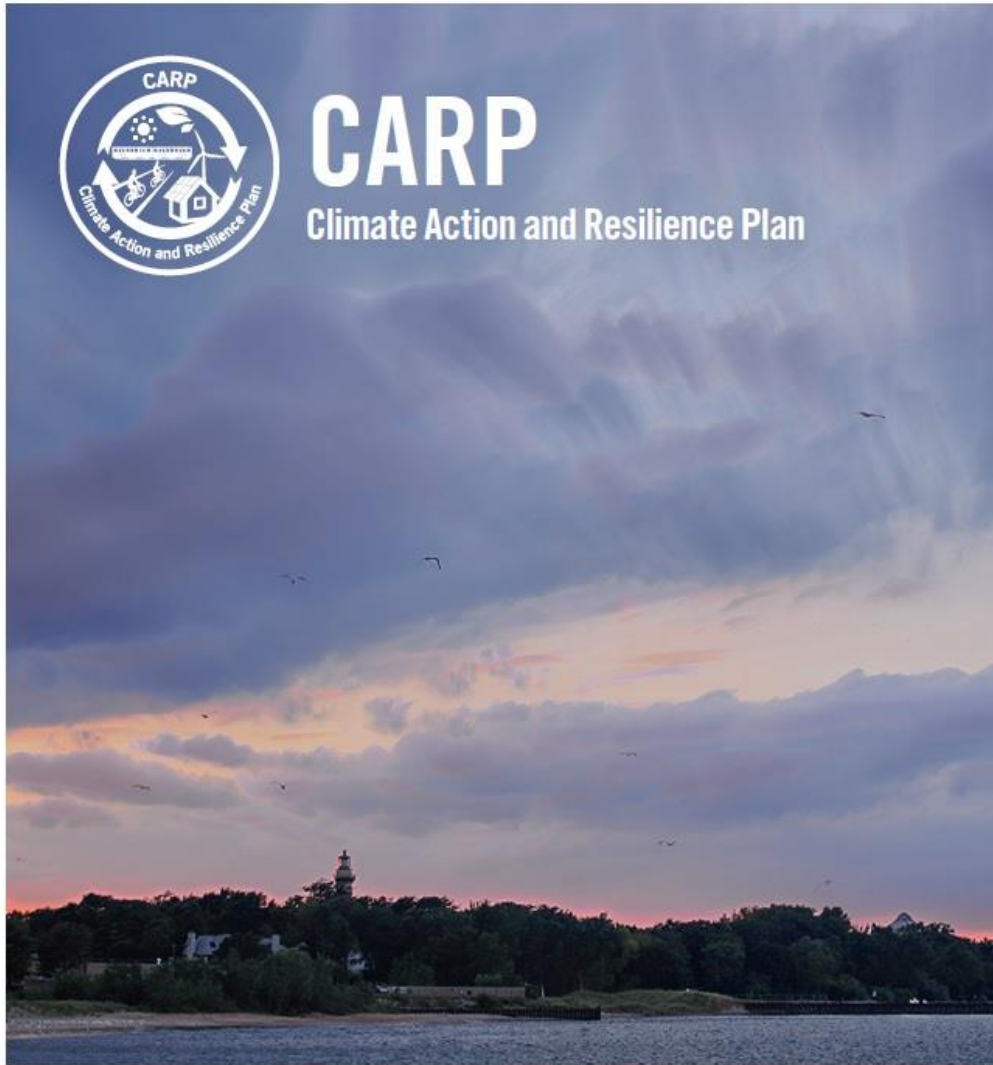
Climate Impacts	By Mid-Century 2050	By End Century 2100	Summary
Infrastructure Stress	↑	↑↑	With increased heat and sever storms physical infrastructure willl be tested
Human Migration	?	?	The Chicago region may see an influx of climate refugees
Flooding	↑	↑↑	Higher risk of flooding and associated damage
Invasive Species/Pests	↑	↑	Increase in invasive species and pests
Air Pollution	↑	↑	Increase in pollution and aeroallergens

Data taken from the **USDN Socioeconomic Mapping Tool for Climate Risk Planning**



CARP

Climate Action and Resilience Plan



Carbon Neutral by 2050

Climate Mitigation

Carbon Neutral by 2050

Goal Areas	Goal
Building Efficiency	Reduce Building Energy Consumption by 35% by 2035 (from 2005 levels).
Renewable Energy	Achieve 100% renewable electricity supply for all Evanston accounts by 2035.
Zero Waste	Increase community-wide waste diversion rate to 50% by 2025 and 75% by 2035 (from the 2011 levels).
Mobility and Transportation	Reduce vehicle miles traveled, increase trips made by walking, bicycling, and transit.
	Increase use of electric vehicles, decrease carbon emissions from vehicles and machinery.
Urban Canopy and Green Space	Preserve and restore Evanston's urban canopy, natural areas, native vegetation and green space to maintain and increase carbon sequestration, improve storm water runoff detention, improve air quality, energy efficiency and livability and reduce adverse urban impacts on humans and key species such as birds and key pollinators.
Outreach, Education and Behavior Change	Educate, motivate and empower Evanston residents, institutions and businesses to take meaningful action to fight climate change and improve the community's resilience.

Climate Resilience

The task of evaluating the changing climate and preparing the community for those changes and the impact they will have on the community and its infrastructure.

Goal Areas	Impact
Green Infrastructure	Implement green infrastructure effectively to eliminate Evanston's contribution to combined sewer overflows (CSOs)
Health Impacts of Extreme Heat	Enhance strategies to support residents most impacted by extreme heat (those susceptible to poor air quality and already vulnerable)
Community Networks and Education	Support existing community organizations and networks through education and resources to increase their resilience.
Emergency Preparedness and Management	Ensure that future climate scenarios are included and prepared for in emergency response planning.
Vulnerable Populations	Identify and prioritize support for already vulnerable residents and residents who may be made more vulnerable as a result of climate change.
Resilience Regulations	Review of relevant City Codes to ensure that sections, such as the Building Code, support climate resilience.

Municipal Operations

Municipal Goals

- 2020 – 100% Renewable Electricity
- 2030 – Achieve Zero Waste for Municipal Operations
- 2035 – Carbon Neutrality for Municipal Operations



Purchasing and Planning:

- Create a CARP checklist to provide to developers submitting projects to the City

Energy:

- Develop a Net Zero Carbon policy for new municipal buildings by 2019

Waste:

- Expand compost collection service to public spaces and city facilities

Green Infrastructure:

- Adopt policies that improve the overall health of the urban tree canopy

Advocacy:

- Advocate at state level for legislation and policies that support goals of CARP

Investments:

- Align investment strategies and advocacy initiatives with CARP goals

Implementation, Accountability, and Partnerships

Implementation and Accountability:

1. Increase City personnel dedicated to sustainability
2. Request the Working Group continue as a task force
3. City prepare annual report on the status of implementing CARP
4. Explore feasibility of instituting climate action tax/fee to be paid by residents and businesses, based on use of city resources, to pay costs of implementing CARP programs
5. Create Sustainability Innovation and Community Engagement group

Partnerships:

1. Partner with Citizens' Greener Evanston to implement CARP strategies
2. Partner with Evanston Public library system to develop citizen education and outreach efforts
3. Partner with ComEd and Nicor on CARP initiatives and maximize their incentive programs
4. Partner with all major employers to collectively implement CARP actions

LARGE EMPLOYER COMMITMENTS TO CARP

Commitments

- Commit to reduce greenhouse gas emissions 50% by 2025
- Source 100% of electricity from renewable sources
- Increase landfill diversion rates to 50% of total waste generated by 2020
- Continued conversion of standard lighting to LED lighting
- Educating the nonprofit community on actions to take to reduce their impact on climate change and support CARP
- Develop programs that will outline increased commitments to renewable energy sources resulting in a 100% utilization by 2028

Pending



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SCHOOL DISTRICT 65

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TIMELINE OF EVENTS

Upcoming Dates	Date
Draft Plan Released	September 4, 2018
Public Comment Period	September 4 – 28, 2018
Mayor's Climate Action and Resilience Plan Forum	September 22, 2018
Citizens' Greener Evanston (CGE) Green Drinks	September 26, 2018
7 th Ward Meeting	September 27, 2018
Plan Submission to City Council	November 2018

THANK YOU

Follow the process at:

cityofevanston.org/climate

@GreenEvanston 

Fill out the Public Comment Form:

cityofevanston.org/climate

Contact:

Sustainability@cityofevanston.org

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Carbon Neutral by 2050