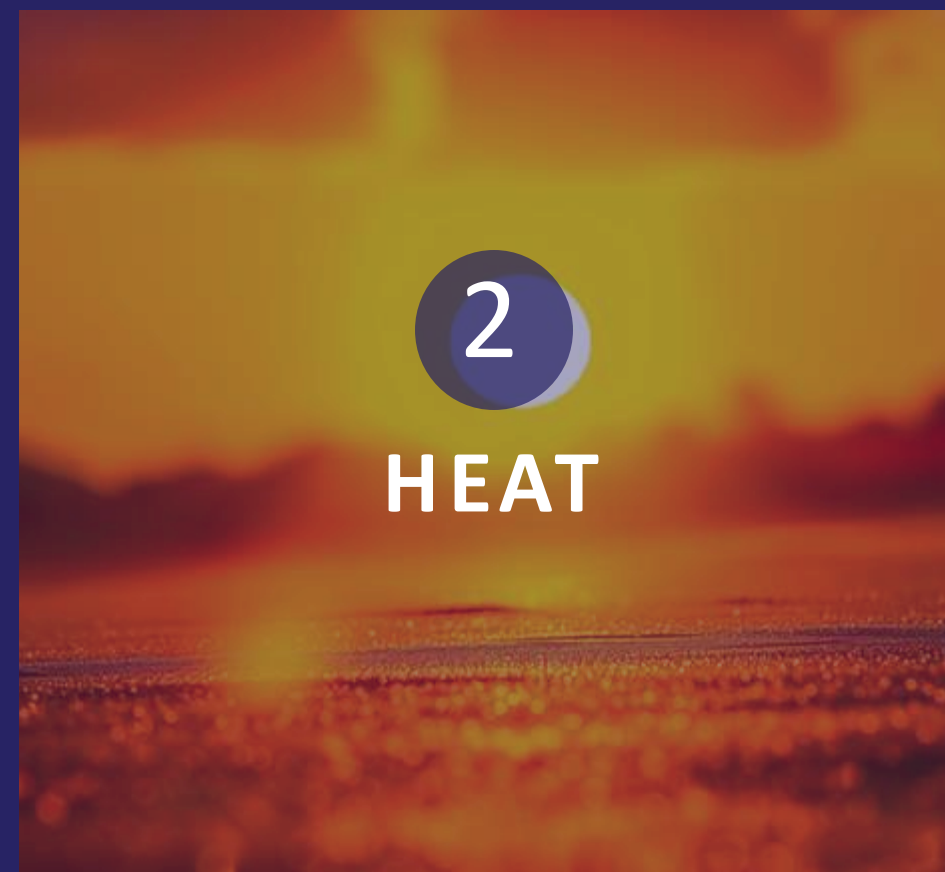
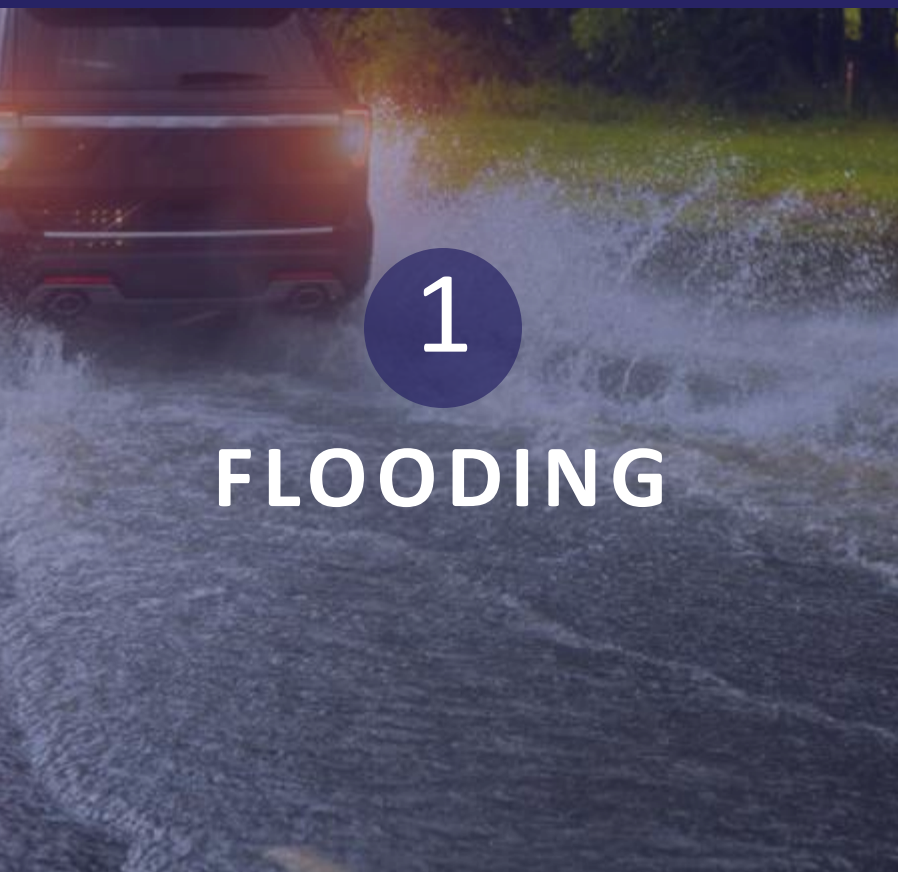


PREPARING FOR CLIMATE CHANGE THROUGH EDUCATION AND ACTION



Department of
Environmental
Conservation



This program is funded in part by the Climate Smart Communities Grant Program, Title 15 of the Environmental Protection Fund through the New York State Department of Environmental Conservation.



SUSTAINABLE SYRACUSE INITIATIVE

Engage, educate, and empower the Syracuse Community with tools to reduce their carbon footprint, mitigate the effects of climate change, and improve quality of life for all, while preserving the prosperity of future generations.

Climate Action Plan (CAP)

Consolidated Community & Municipal Climate Action Plan

Phase 1: Engage
Internal and External Stakeholders



Phase 2: Educate
Greenhouse Gas Inventory and Climate Action Plan



Phase 3: Empower
Implementation of Long-Term Planning



COMMUNITY IMPACT OF CLIMATE ACTION

Sustained Impact is present across community and municipal functions.



TODAY'S THEME: ENERGY USE & EFFICIENCY

AGENDA

- Climate Change – What is Happening?
- Topical Guest Speaker(s)
- Community Engagement
- Closing Statements

Energy Use & Efficiency

THU. OCT. 16 | 5:30 - 7:00 PM

Soule Branch Library, 101 Springfield Rd.

Transportation & Smart Growth

THU. OCT. 30 | 5:30 - 7:00 PM

STEAM at Dr. King, 416 E. Raynor Ave.

Climate Change & Syracuse

Introduction

Key Points:

“Climate change is **reshaping Syracuse’s weather patterns**, the City is experiencing the impacts of a changing climate, including **warmer temperatures, increased precipitation, and more frequent extreme weather events**. While some experts have suggested that Syracuse could be a climate haven due to its northern location and water resources, the City still faces **risks from increased heat, flooding, and potential disruptions to local ecosystems.**”

- Excerpt from the Syracuse Comprehensive Plan 2025

- Syracuse is already experiencing hotter summers, shorter winters, and heavier rains.
- By 2050: 20–40 days above 90°F each year (vs. 9 days historically).
- Winter days below freezing projected to decline by half.
- More heavy storms results in flooding, sewer backups, strain on infrastructure

Flooding & Syracuse

Public Meeting #1

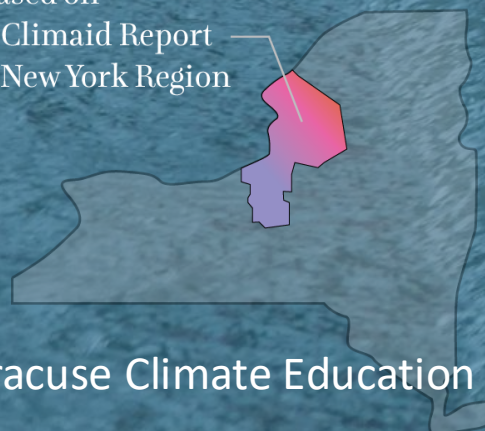
Change in Precipitation (%) *

	Low Estimate	Medium Estimate	High Estimate
2020	0%	4%	8%
2050	2%	7%	13%
2080	3%	9%	15%
2100	1%	14%	26%

Key Points:

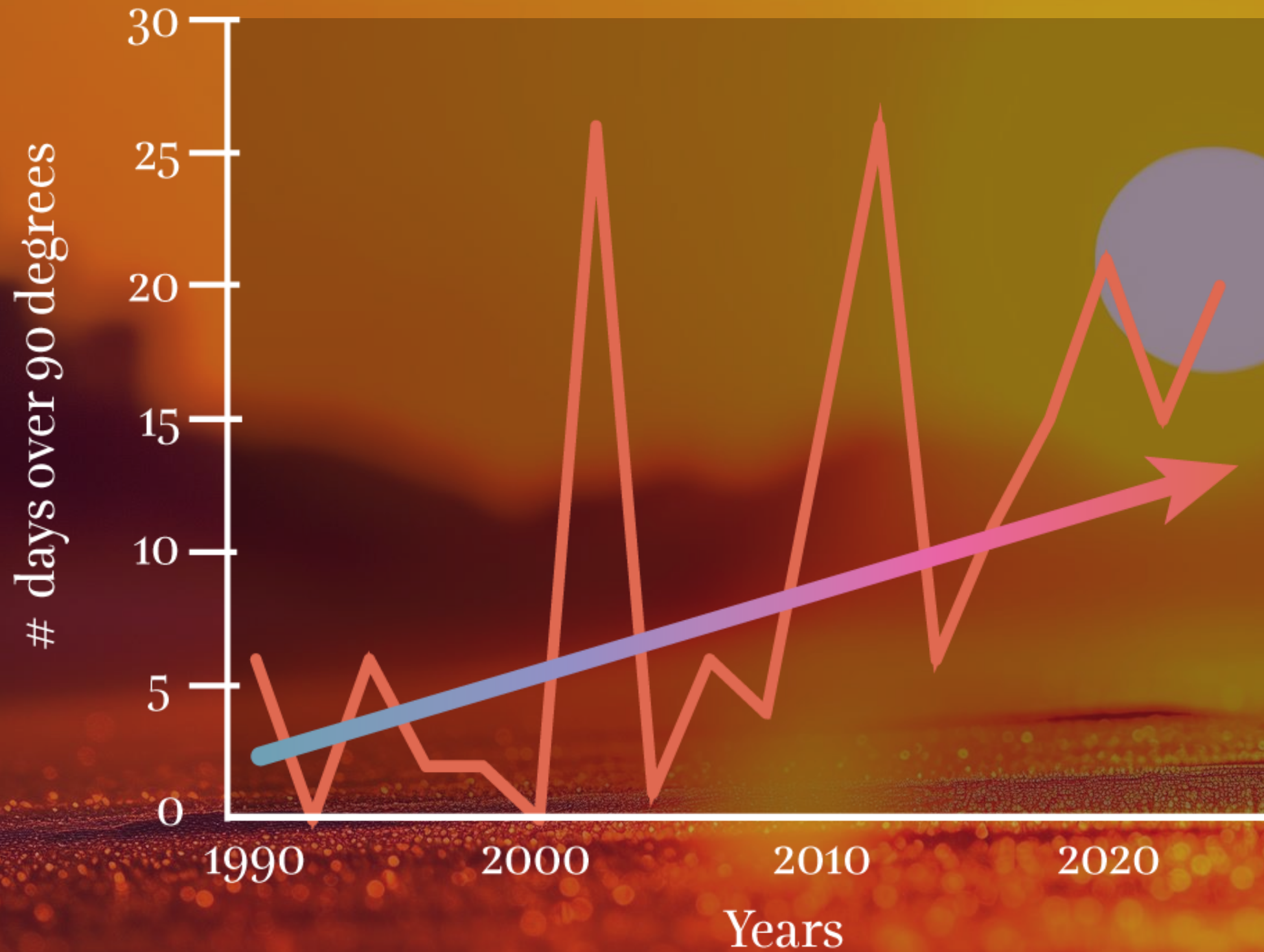
- Annual precipitation up 10–20% since 1901; projected to increase further.
- Heavy downpours more frequent and intense results in stormwater & sewer overflow risks.
- Neighborhood “nuisance flooding” already disrupts homes & businesses.
- Linked to Onondaga County Hazard Mitigation Plan.

* Predictions based on New York State Climaid Report for the Central New York Region



Extreme Heat & Syracuse

Public Meeting #2

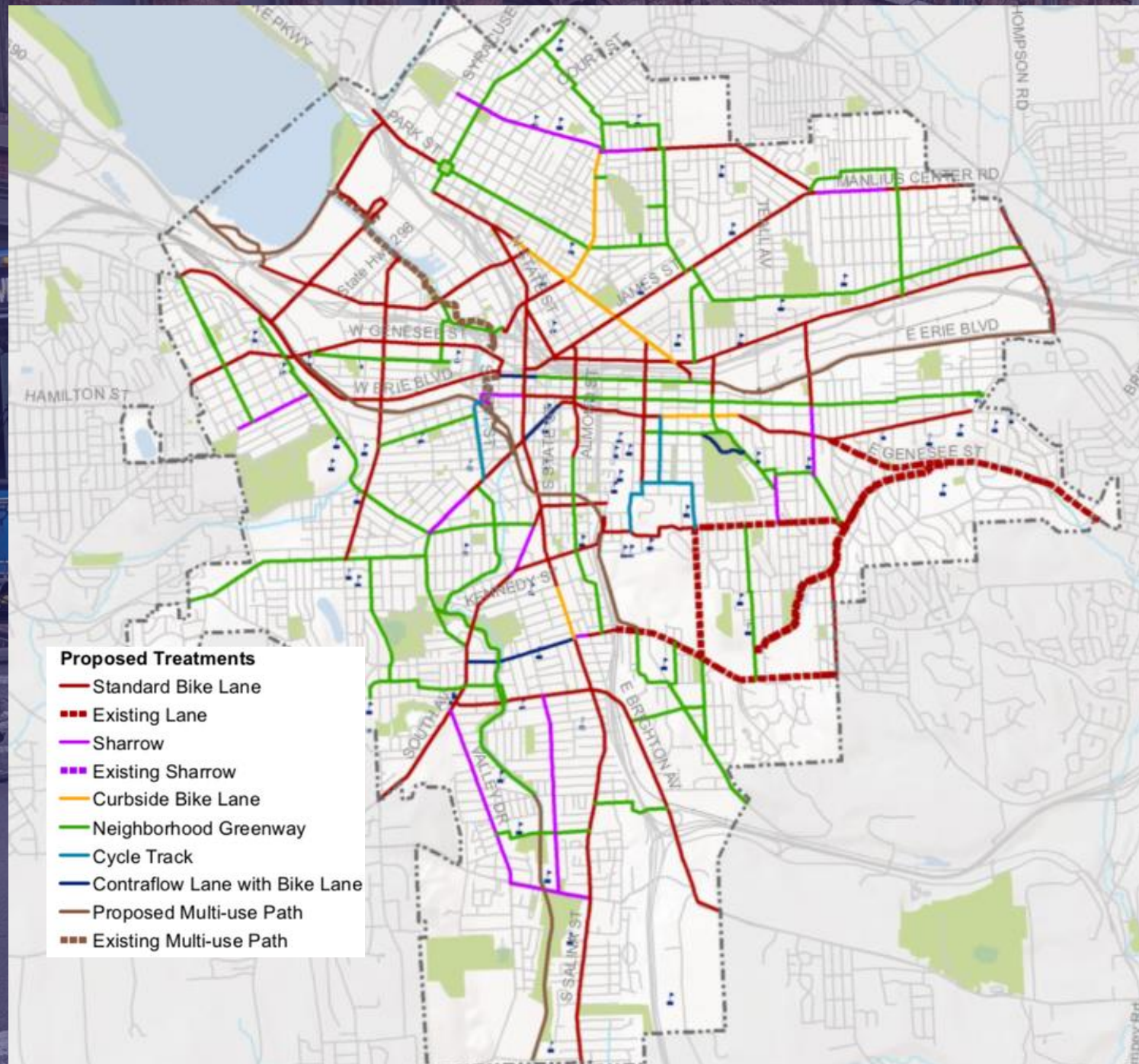


Key Points:

- Extreme heat = #1 weather-related health risk in New York.
- Syracuse projected to see 3–7x more 90°F+ days by 2080s.
- Urban heat island makes some neighborhoods hotter than others.
- Impacts: Public health, outdoor recreation, electricity demand.

Transportation & Syracuse

Public Meeting #4



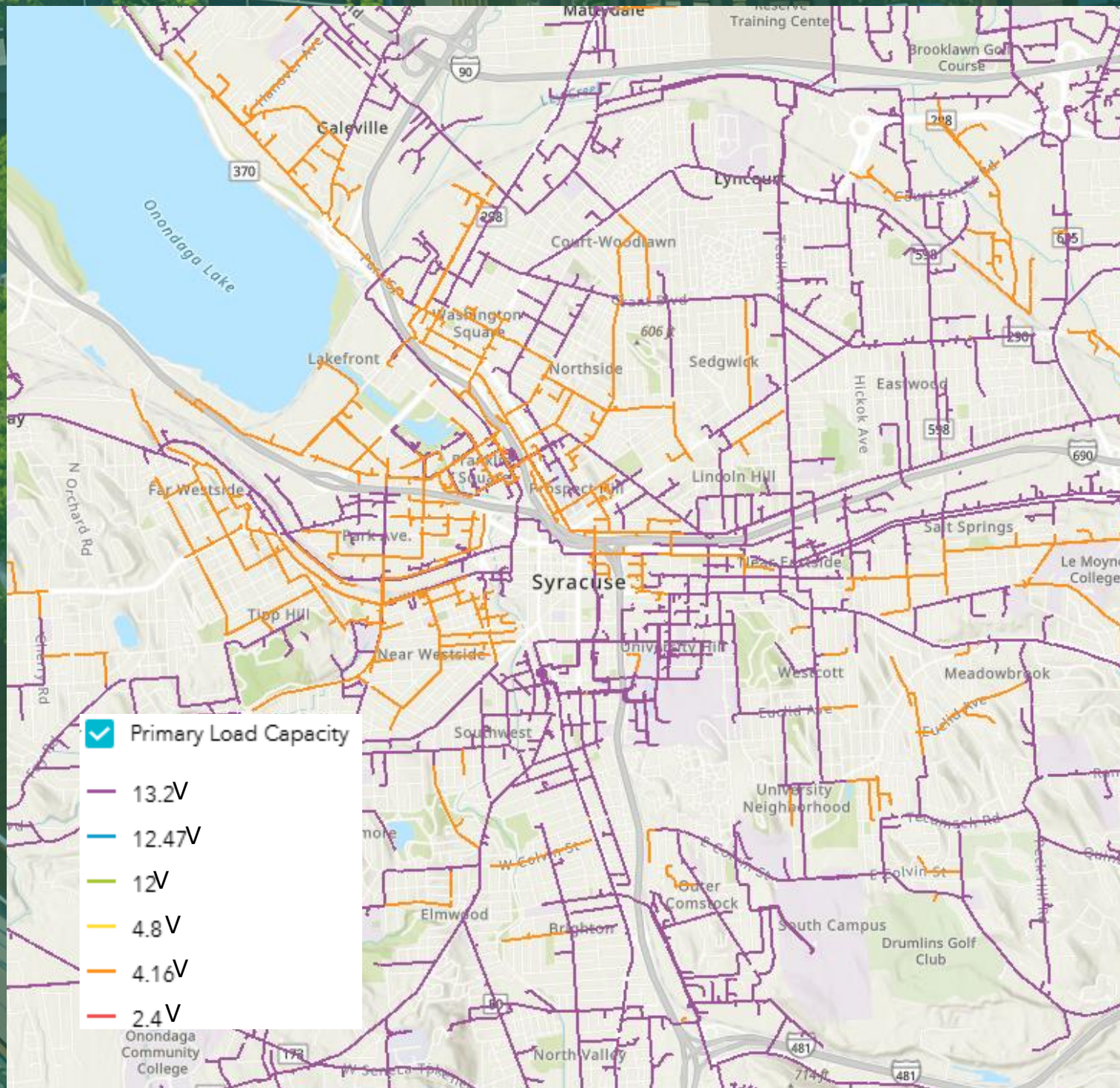
Key Points:

- Transportation is a major contributor to greenhouse gas emissions.
- Warmer, wetter weather impacts roads, sidewalks, and transit reliability.
- More heat + storms = greater wear on streets, more maintenance costs.
- Opportunities: EV adoption, bike/pedestrian infrastructure, safer transit.

Syracuse Bike Plan
Proposed Bicycle Network Treatments

Energy & Syracuse

Public Meeting #3



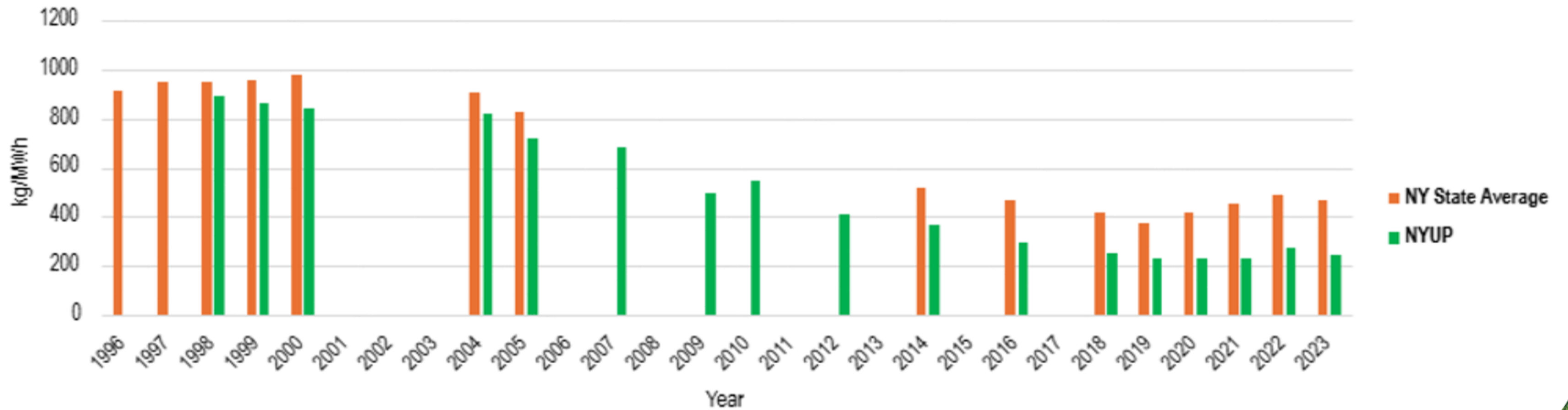
Electrification Capacity
National Grid

Key Points:

- Syracuse's electricity demand is rising after decades of decline.
- Drivers: Micron chip fab, data centers, EVs, air conditioning, heat pumps.
- Grid congestion and aging infrastructure pose challenges.
- Opportunities: renewable energy, efficiency retrofits, modern grid upgrades.

WHAT DOES GREENING THE GRID/GRID DECARBONIZATION LOOK LIKE?

NYUP Grid Region GHG Emissions Intensity





NYSERDA
Regional Clean
Energy Hub



ENERGYSMART CNY

***MISSION:** Increase awareness of clean energy solutions, connect residents to cost and energy savings, and empower our Syracuse and CNY Communities through technical advising and education, connection to affordable energy solutions, and passionate community service for clean energy futures.*

- Operate in all 5 counties of CNY
- Energy education & outreach
- Partnership with regional providers
- Connection to opportunities & programs



SOLAR TECHNOLOGIES



Community Solar

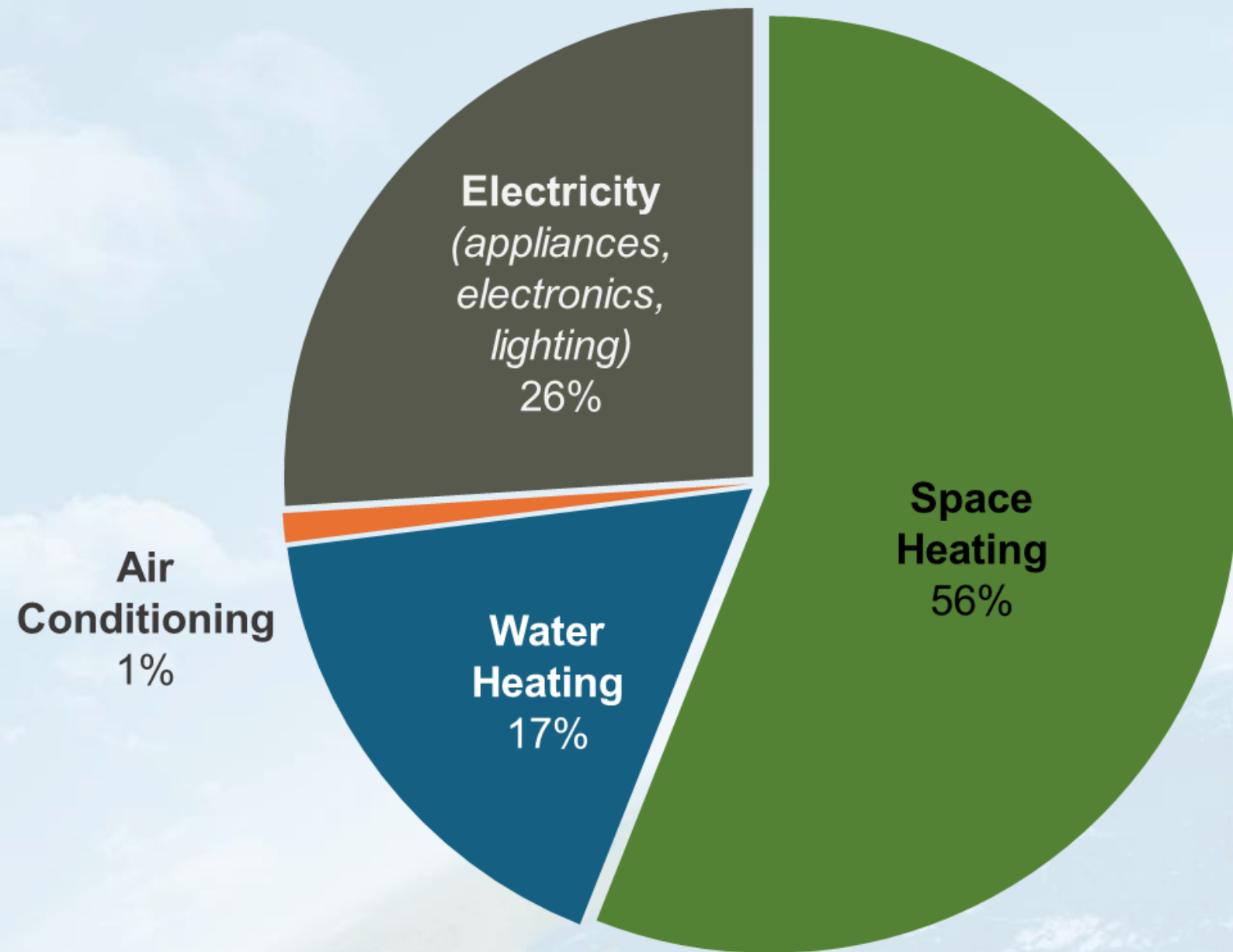
- ✓ Guaranteed savings on monthly energy bills: 5-20%
- ✓ No Panels on your house or building
- ✓ No money down
- ✓ Renters or homeowners (just need a utility bill)



Rooftop Solar

- ✓ Greater possible savings from home installation
- ✓ Sell your surplus energy to the grid (net-metering)
- ✓ Resiliency options: backup battery systems

AVERAGE HOME ENERGY USE



Almost 75% of energy used in a typical New York home is for heating, cooling, and hot water!

*The average New York household pays nearly **\$3,600** a year in energy bills**

**Note: Estimate based on EnergySage: Cost of Electricity in New York*

ENERGY EFFICIENCY OPPORTUNITIES

Heat Pumps

- ✓ Substantial cost savings possible
- ✓ Heating AND Cooling (same unit!)
- ✓ No reliance on fossil fuels
- ✓ No risk of gas leaks or harmful vapors



Insulation & Air Sealing

- ✓ Increased energy efficiency
- ✓ Increased comfort
- ✓ Prevention of mold, mildew, and condensation
- ✓ Long-term, often singular investment



ENERGY ADVISING & CAREERS

Explore Your Options

- Talk with an Energy Advisor
- Join an Energy Literacy Workshop (ELW)

Workforce Development

- Learn about clean energy careers
- Connect with employment & career opportunities



Sustainable Syracuse and EnergySmart CNY are partnered to bring these opportunities and many more to City of Syracuse residents!



REGISTER ONLINE:

Visit: energysmart.org/events

Call: (315) 313-5050



Syracuse Community Solar Webinar

Join us for a free webinar to learn about community solar. Learn how you can save 10% to 20% on your energy bill and how to sign up.

Location: Virtual Webinar

Date: November 20, 2025

Time: 6:00 to 7:00pm

CONNECT WITH US!



**General Contact Info /
Individual Assistance**

Call: 315-313-5050

Email: advisor@energysmartcny.org

Visit: energysmartcny.org



NYSERDA
Regional Clean
Energy Hub

COMMUNITY QUESTIONS - GROUP ENGAGEMENT

Working Session / Facilitated Discussion

What do you think is important about this topic?

How would you describe these kinds of home energy programs and incentives to your neighbor?