



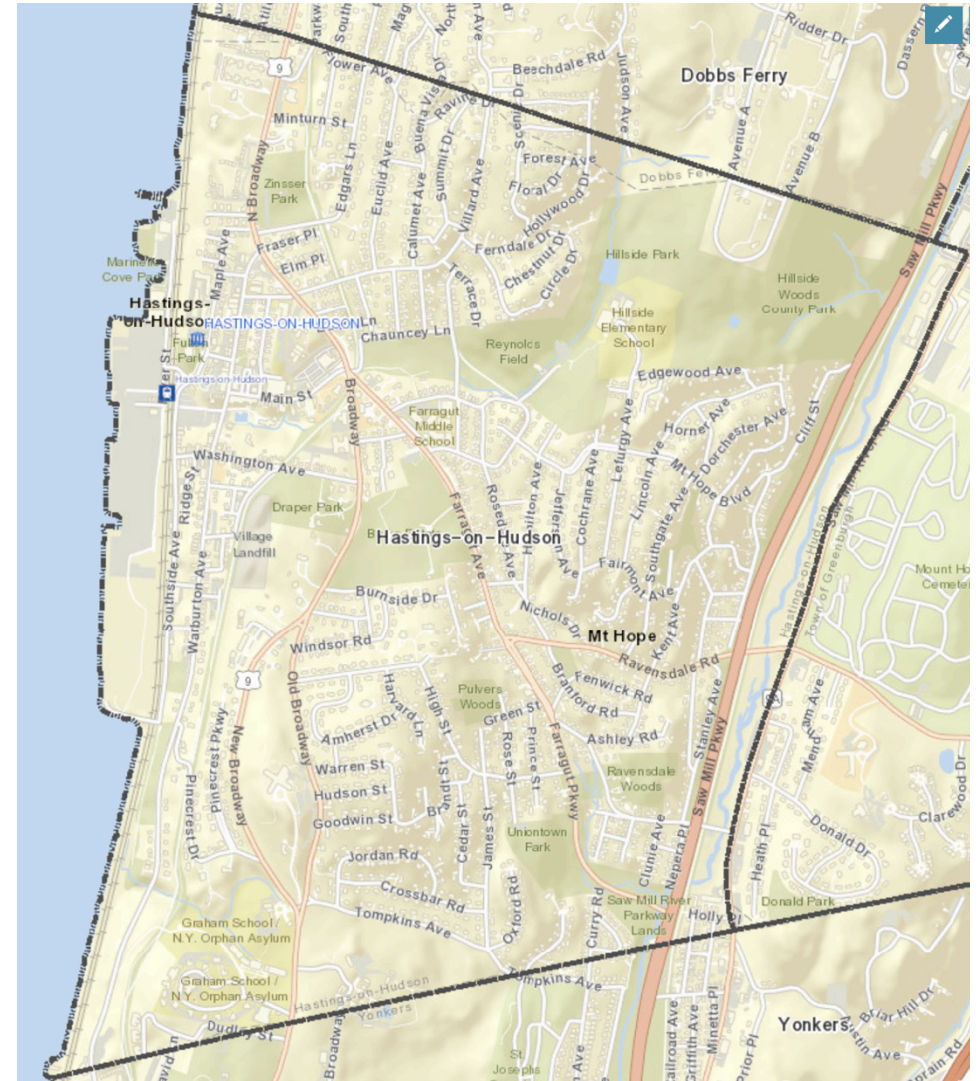
Climate Action Plan Community Workshop

April 20th, 2022

Village of Hastings-on-Hudson

Agenda

1. Background
2. Workshop Objectives
4. CAP Process
5. CAP Focus Areas
 - Transportation & Land Use
 - Buildings & Energy
 - Waste & Water
 - Adaptation & Resiliency
6. Actions Taken to Date
7. Community Brainstorm
8. Next Steps



1. Background: Climate Smart Communities

In 2009, New York State launched the Climate Smart Communities (CSC) program, an interagency initiative that encourages local communities to take action on reducing greenhouse gas emissions and adapting to climate change. The Village of Hastings-on-Hudson was designated by New York State as a Climate Smart Community in 2010.

The [Climate Smart Communities Certification Program](#) is a set of over 100 actions, developed by the NY State Department of Environmental Conservation, that provides a transformational roadmap for municipalities.

Under this program, the Village of Hastings-on-Hudson, together with participating communities across NY state, has committed to transitioning to zero carbon emissions, investing in community resilience, restoring ecosystems, building a more just, healthy, and livable future, and doing our part within our region and beyond to contribute to climate mitigation and adaptation.

HoH Local Laws and Resolutions



- Westchester County Hazard Mitigation Plan Adoption Resolution (2021)
- Hastings-on-Hudson Climate Emergency Declaration (2021)
- Fleet Efficiency and Rightsizing Policy and Resolution (2021)
- Preservation of Parkland Resolution (2021)
- Community Choice Aggregation Resolution (2020)
- Low-Embodied Carbon Concrete Resolution (2020)
- Shade Structures Policy and Resolution (2020)
- Green Procurement Policy Resolution (see Section 10) (2020)
- NYStretch Energy Code Local Law and Resolution (2020)
- Open C-PACE Financing Local Law and Resolution (2020)
- Anti-Idling Local Law and Resolution (2019)

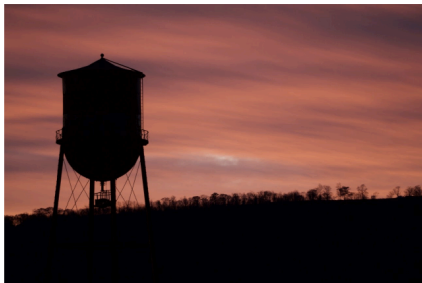
Key Documents

Village of Hastings-on-Hastings
Bicycling and Walking Infrastructure Master Plan
June 2021



Hastings-on-Hudson, NY

2019 Inventory of Community Greenhouse
Gas Emissions



2020 Natural Resources Inventory
Updated June 2021



- Climate Change Public Outreach and Engagement Plan and Achievements Report (2020 to 2021)
- Climate Smart Resiliency Planning Report (2021)
- Organics Management Plan (2021)
- Biking and Walking Master Plan (2021)
- Community GHG Inventory Report (2021)
- Natural Resources Inventory (2021)
- Climate Change Public Outreach and Engagement Plan and Achievements Report (2019 to 2020)
- Climate Vulnerability Report (2020)
- Heat Emergency Plan (2020)
- Government GHG Inventory Report (Winter 2020)
- Safe Routes to School Overview (2019)
- Hazard Mitigation Plan (2015)
- Complete Streets Policy (2014) and Implementation Report (2020) and Implementation Report (2021)

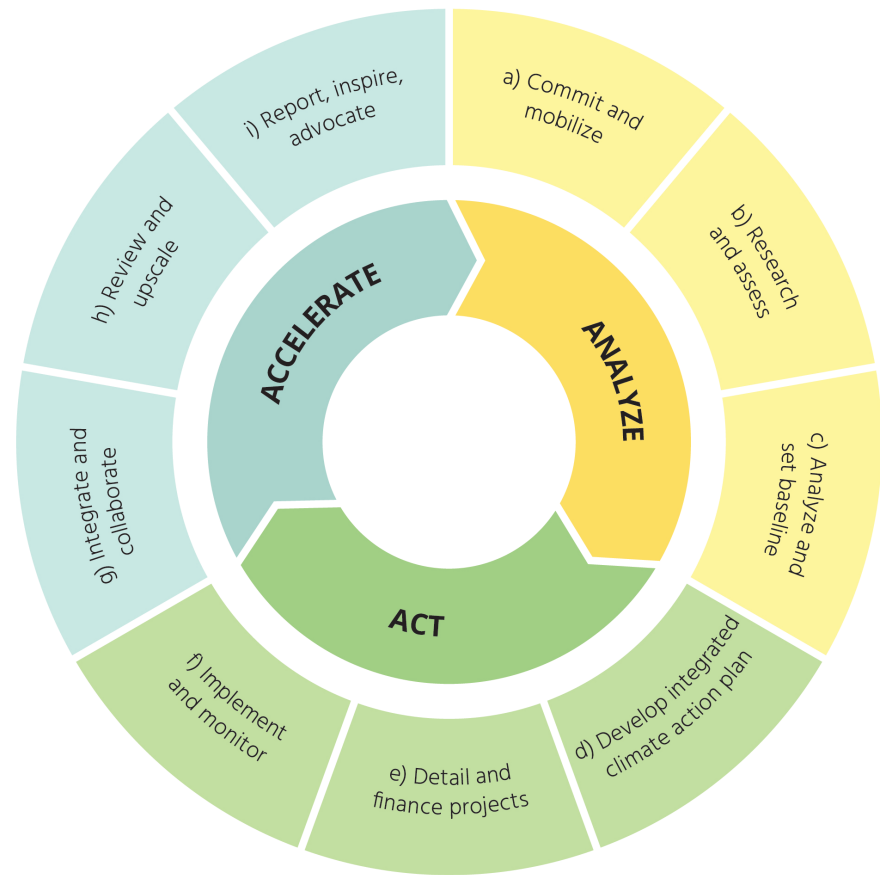
Background: Climate Action Plan (CAP)

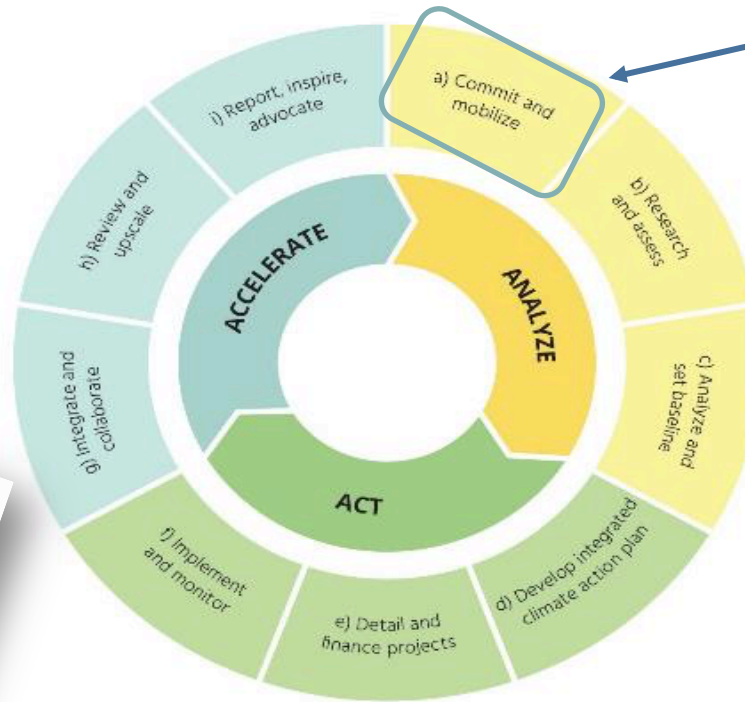
Climate Action Plans (CAPs) are an evolving state or practice. Current best practices stand CAPs on 3 pillars: decarbonization, adaptation and equity.

1. **Decarbonization** pillar details a strategic framework for measuring, planning, and reducing greenhouse gas (GHG) emissions and related climatic impacts.
2. **Adaptation** pillar recounts the primary climate hazards facing our community, our most vulnerable assets, and prioritizes actions to increase resilience.
3. **Equity** pillar addresses the social vulnerabilities that can hinder climate progress, and seeks to right historic injustices with climate action.

2. Workshop Objectives

This Workshop is designed to identify a set of agreed **goals, targets, and initiatives** that will help our community reduce emissions and address climate change locally.





Community visioning & stakeholder buy-in key to getting started



Analyze Phase: Research & Assess

Milestone 1: GHG Inventory

In 2021, with the help of ICLEI, the Village completed Milestone 1: the creation of a Community GHG inventory.

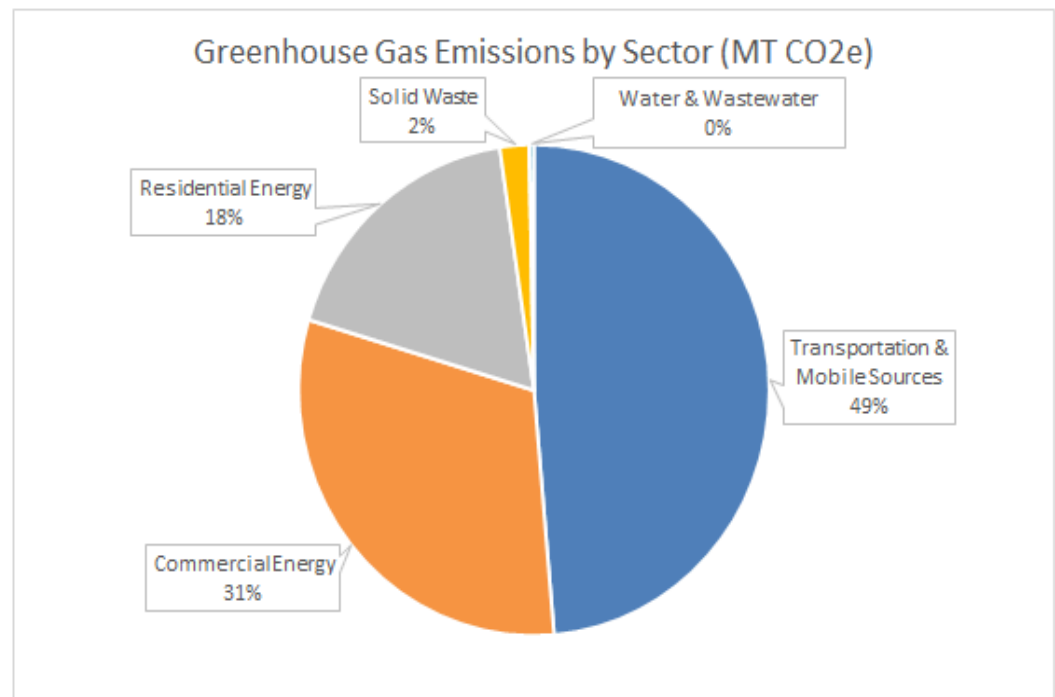


Figure 1: 2019 Hastings-on-Hudson Community Greenhouse Gas Emissions by Sector

Analyze Phase: Analyze & Set Baseline

Milestone 2: Establish Reduction Targets

In order to do its fair share in meeting the Paris Agreement Commitment, Hastings On Hudson should reduce 2019 emissions by at least

62.8%

Per Capita
by 2030

62.7%

Absolute
by 2030

In 2021, with the help of ICLEI, the Village completed Milestone 2: the establishment of reduction targets.



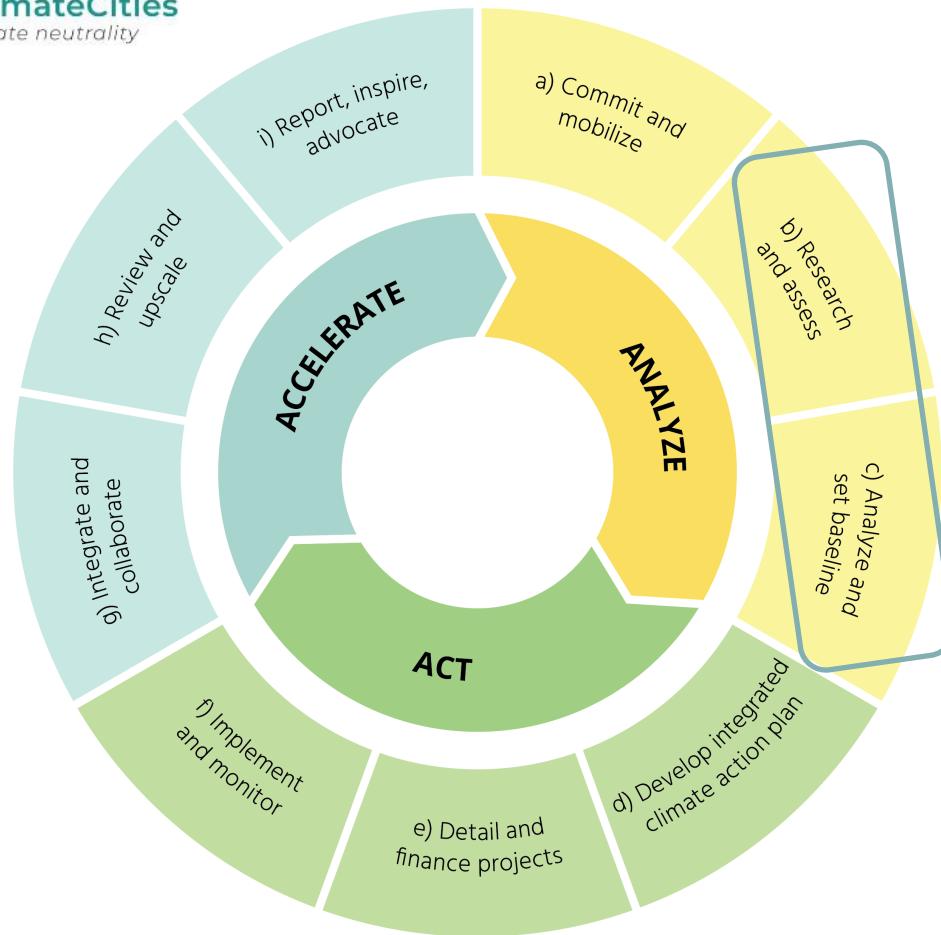
THIS 2030 SCIENCE-BASED
TARGET REPRESENTS **HASTINGS
ON HUDSON'S** FAIR SHARE OF
REDUCTIONS

Science-based targets reflect the need to maintain global temperatures below 1.5°C as laid out in the Paris Climate Agreement. "Fair share" reflects a distributed responsibility based on the human development index.





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towards climate neutrality

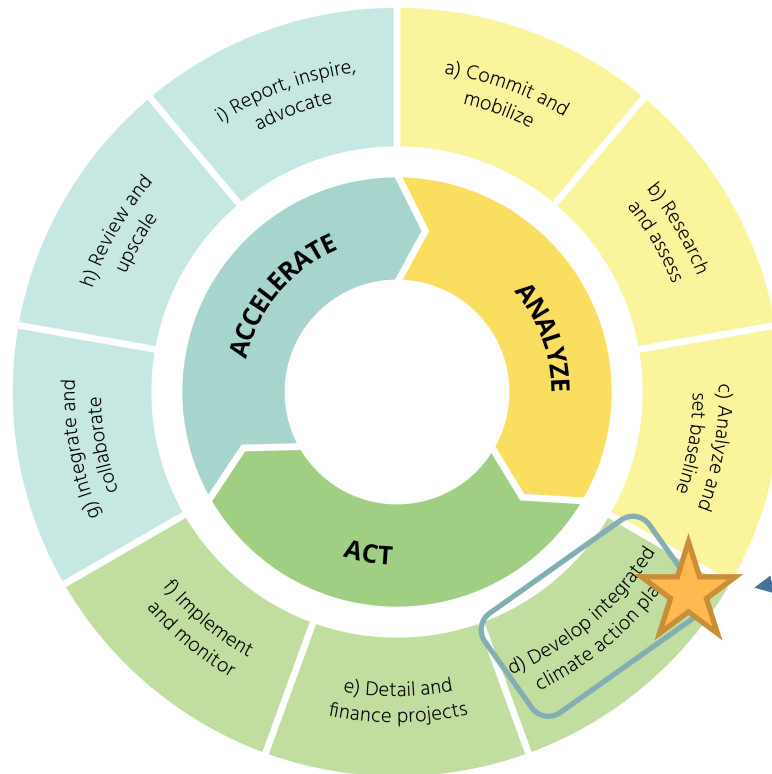


Assessing a baseline for the “three pillars” of adaptation, mitigation, and equity is among the first steps

- ✓ GHG inventory
- ✓ Climate Vulnerability Assessment
- Equity indicators



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You Are Here

Equity and resilience are
“pillars” of integrated
climate planning
alongside resource
conservation

3. CAP Process

1. Determine Climate Action Plan Framework

- Create a CAP Advisory Committee
- Determine the Scope of the Plan



2. Complete and Analyze Baseline Assessments

- Community & Municipal GHG Emission Inventories
- Assess Past and Existing Efforts



3. Develop Communication and Engagement Strategy

- Engage Local Government Officials and Staff
- Engage Local and Regional Stakeholders
- Collect Community Input

CAP Process, cont.

4. Identify Goals and GHG Emissions Reduction Targets

- Identify Goals
- Set Emissions Reduction Targets

5. Identify Existing and Potential Initiatives

6. Quantify Potential Impact of Initiatives

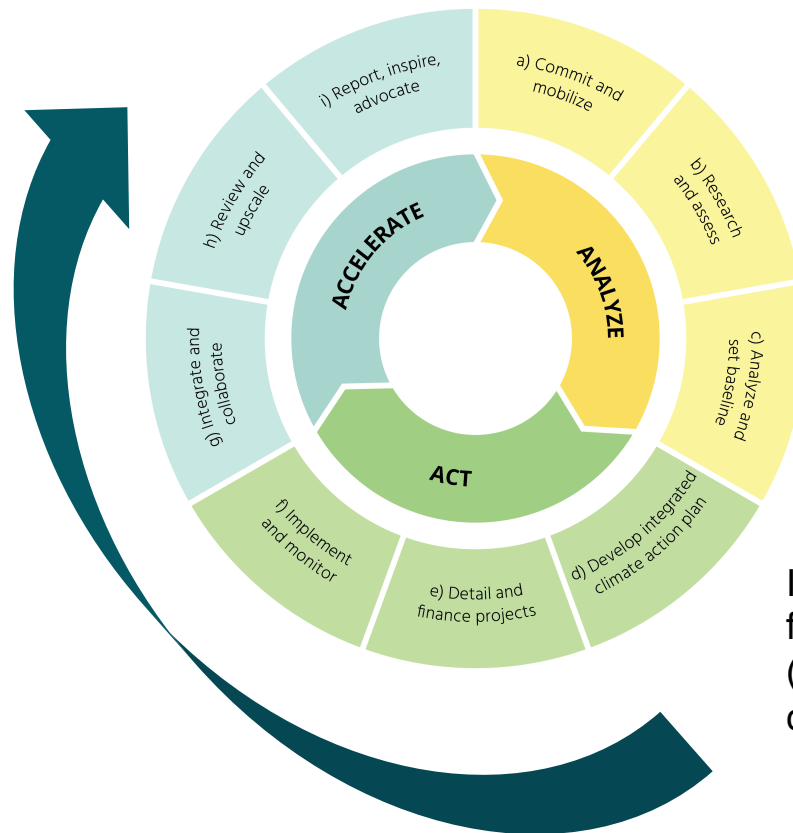
- Implementation and Funding Feasibility; Leverage Resources; Potential Health Benefits; Co-Benefits; Cost; Duration of Benefits; GHG Reduction Potential; Potential for Job Creation; Timeframe.

7. Prioritize Initiatives

8. Finalize Plan



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Inclusion is part of the full community-based (inclusive) planning cycle

ICLEI 3 Dimensions of Social Equity



ACCESS

Local governments seek to ensure more equal access to public services and infrastructures for all local residents – independent of factors like age, neighborhood, income, social group or language.



PARTICIPATION

The more programs are designed with rather than for residents, including all voices across the city and involving those affected early-on, the more they meet local needs and generate long-term impacts.



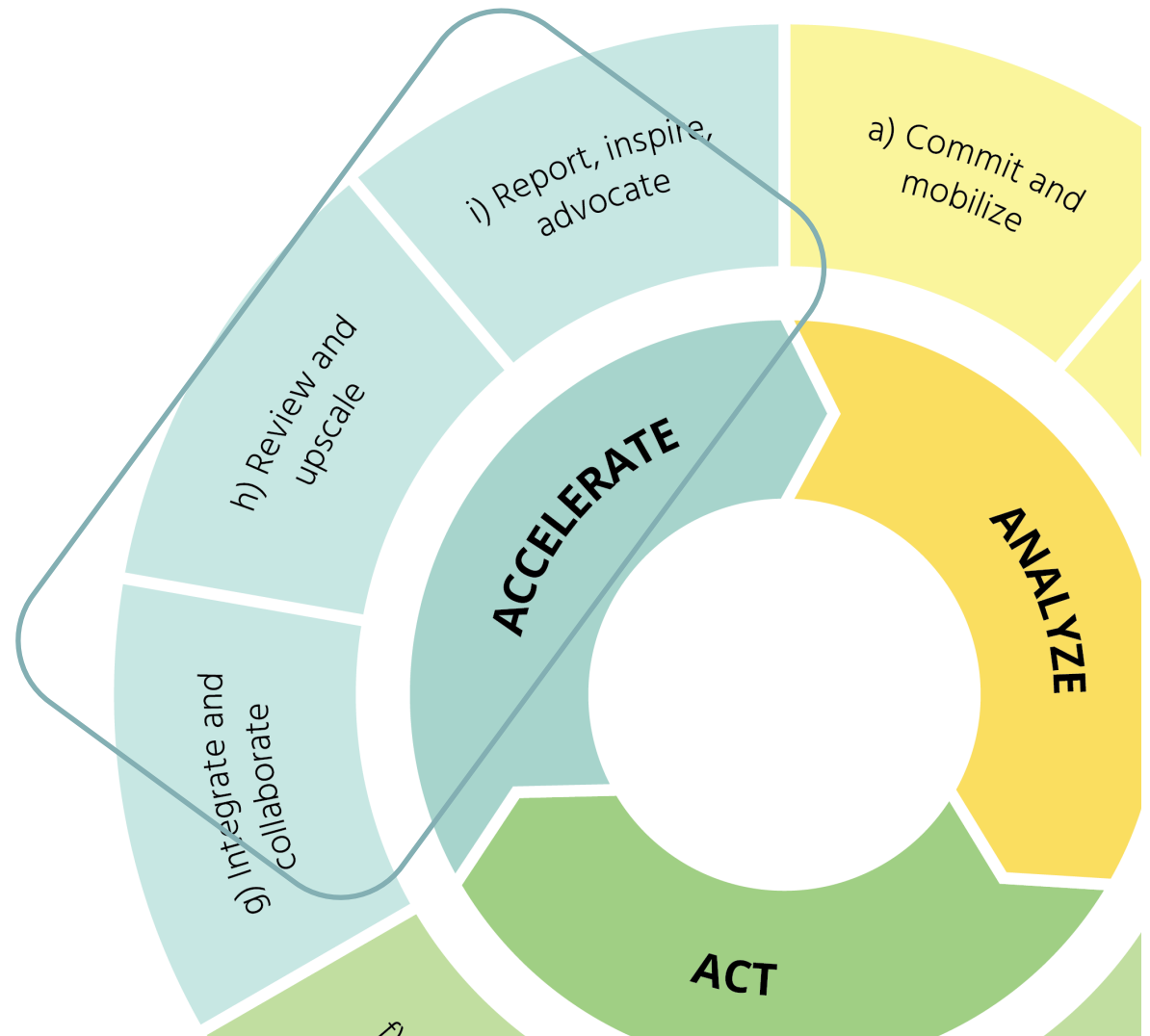
OPPORTUNITY

To offer fair perspectives for all, local governments are targeting 1) improved access to quality education for all, 2) provision of career perspectives and 3) increased diversity in employment.

Stance towards community	0 IGNORE	1 INFORM	2 CONSULT	3 INVOLVE	4 COLLABORATE	5 EMPOWER
Impact	<i>Marginalization</i>	<i>Placation</i>	<i>Tokenization</i>	<i>Voice</i>	<i>Delegated Power</i>	<i>Community Ownership</i>
Community Engagement Goals	Deny access to decision-making processes	Provide the community with relevant information	Gather input from the community	Ensure community needs and assets are integrated into process and inform planning	Ensure community capacity to play a leadership role in implementation of decisions	Foster democratic participation and equity by placing full decision-making in the hands of the community; bridge divide between community and governance
Message to Community	<i>"Your voice, needs, and interests do not matter"</i>	<i>"We will keep you informed"</i>	<i>"We care what you think"</i>	<i>"You are making us think (and therefore act) differently about the issue"</i>	<i>"Your leadership and expertise are critical to how we address the issue"</i>	<i>"It's time to unlock collective power and capacity for transformative solutions"</i>
Activities	Closed-Door Meetings Misinformation Systematic Disenfranchisement Voter Suppression	Fact Sheets Open Houses Presentations Billboards Videos	Public Comment Focus Groups Community Forums Surveys	Community Organizing & Advocacy House Meetings Interactive Workshops Polling Community Forums	MOUs with Community-Based Organizations Community Organizing Citizen Advisory Committees Open Planning Forums with Citizen Polling	Community-Driven Planning Consensus Building Participatory Action Research Participatory Budgeting Cooperatives
Resource Allocation Ratios	100% systems admin	70-90% to systems admin 10-30% to promotions and publicity	60-80% to systems admin 20-40% to consultation activities	50-60% to systems admin 40-50% to community involvement	20-50% to systems admin 50-70% to community partners	80-100% to community partners and community-driven processes that ideally generate new value and resources that can be invested in solutions



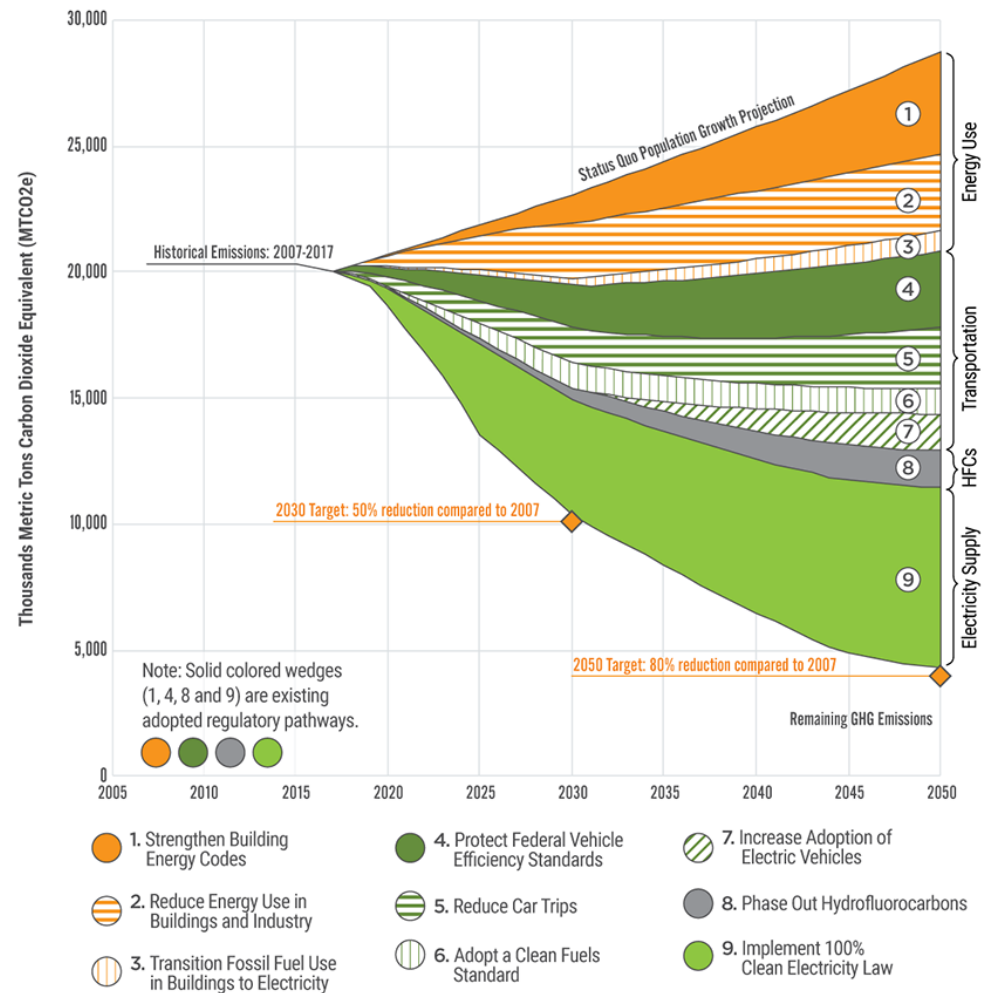
Accelerating action is
about collaboration—
this can start today!



Climate Action Plan Best Practices

- Serve as a comprehensive roadmap that outlines the **specific activities** that a municipality will undertake to reduce greenhouse gas emissions, prepare for impacts, and address equity.
- **Build on the information** gathered in greenhouse gas inventories and vulnerability assessment.
- Focus on activities that can achieve the relatively **greatest emission reductions** and resilience-building in the most cost-effective manner.
- At a minimum, analyze and **prioritize actions**.
- Ideally, include an **implementation strategy** that identifies required resources and funding mechanisms.

Modeling climate actions can take Hastings-on-Hudson's GHG inventory data forward.



Implementation includes: who, how and when.



Building Energy and Efficiency



Vehicles and Fuels



Land Use and Transportation Planning



Materials Use, Purchasing and Recovery



Natural Resources



Public Health and Emergency Preparedness

Implementation

- O** City operations
- L** City law/code
- E** City educates
- SF** City partners to lobby state and federal government

- C** City partners for collective action
- P** Partners lead

Implementation timescale

- >>** Short-term = 0 – 2 years
- >>>** Mid-term = 3 – 6 years
- >>>>** Long-term = 6+ years

Carbon impact

- ■ ■ ■ ■** Reduces annual GHG emissions by less than 500 metric tonnes or lays the foundation for other efforts, though by itself may not reduce emissions measurably
- ■ ■ ■ ■** Reduces total annual GHG emissions by 500 to 1,000 metric tonnes
- ■ ■ ■ ■** Reduces total annual GHG emissions by 1,000 to 2,500 metric tonnes
- ■ ■ ■ ■** Reduces total annual GHG emissions by 2,500 to 5,000 metric tonnes
- ■ ■ ■ ■** Reduces total annual GHG emissions by more than 5,000 metric tonnes

Cost/savings per MT CO₂e reduced

- \$** \$0 - \$40 **\$** Net savings per MT CO₂e reduced
- \$\$** \$41 - \$360 **\$** Net cost per MT CO₂e reduced
- \$\$\$** \$361 - \$680
- \$\$\$\$** \$681 - \$1,000

Co-benefits

- Addresses Milwaukee's superactions
- ⚖** Opportunity for social equity
- >>** Mitigates and adapts in one action
- \$** Revenue generation or cost avoidance
- iii** Leverages existing efforts
- 👍** Community support

Sample Implementation Schedule

MITIGATION STRATEGIES | Land Use and Transportation Planning (continued)

Action	How will this be implemented?	Implementation timescale	Potential GHG reductions	Cost/savings per MTCO ₂ e reduced	Co-benefits
Promote "neighborhood hubs" through Comprehensive Plan policies	L	»»»	■ ■ ■ ■ ■	\$ \$	3 — 2 — 1 — <div> <div>✓</div> <div>⚖</div> <div>»</div> <div>\$</div> <div>👥</div> <div>👍</div> </div>
Implement parking pricing in downtown	L	»»»	■ ■ ■ ■ ■	Data unavailable	3 — 2 — 1 — <div> <div>✓</div> <div>⚖</div> <div>»</div> <div>\$</div> <div>👥</div> <div>👍</div> </div>
Implement variable system development charges to encourage accessory dwelling unit development	L	»»»	■ ■ ■ ■ ■	\$ \$ \$ \$ \$	3 — 2 — 1 — <div> <div>✓</div> <div>⚖</div> <div>»</div> <div>\$</div> <div>👥</div> <div>👍</div> </div>
Lower parking ratios near high capacity corridors	L	»»»	Data unavailable	Data unavailable	3 — 2 — 1 — <div> <div>✓</div> <div>⚖</div> <div>»</div> <div>\$</div> <div>👥</div> <div>👍</div> </div>

○

 City operations

L

 City law/code

E

 City educates

C

 City partners for collective action

P

 Partners lead, City participates

SF

 City partners to lobby state/feds

✓

 Addresses Milwaukee's superactions

⚖

 Opportunity for social equity

»»

 Mitigates and adapts in one action

\$

 Revenue generation of cost avoidance

👥

 Leverages existing efforts

👍

 Community support

»»»

 Short term

»»»

 Mid term

»»»

 Long term

\$

 net savings

\$

 net expenditure

3

 high

2

 medium

1

 low

Source: [Milwaukie, Oregon, CAP](#)

4. Hastings-on-Hudson's Four Focus Areas

- Transportation & Land Use
- Buildings & Energy
- Waste & Water
- Adaptation & Resiliency



5. CAP Actions Taken to Date:

Transportation & Land Use

1. Expand Access to Zero Emissions Vehicles

- Municipal Fleet Inventory
- Municipal Purchase of EVs
- Municipal Green Fleet Policy
- Municipal Charging Stations
- Community EV Campaign

2. Promote Alternative Modes of Transportation

- Bicycling & Walking Master Plan
- Complete Streets & Safe Routes to School

3. Adopt Land Use Policies that Incorporate Smart Growth Principles

- Comprehensive Planning



CAP Actions Taken to Date:

Buildings

1. Revise Local Energy Codes

- Green Building Code
- NY Stretch Energy Code

2. Benchmark Buildings

- Municipal Benchmarking
- Municipal Energy Audit

3. Retrofit Buildings

- Open PACE Financing
- Clean Heating and Cooling

4. Replace Existing Lighting with LEDs

LED Lighting

5. Promote Low Carbon Infrastructure Projects

Low Embodied Carbon Concrete



CAP Actions Taken to Date:

Energy

1. Switch to Renewable Energy

- Community Choice Aggregation (CCA)
- Community Solar
- Solarize

2. Create a Pro Renewable Energy Enabling Environment

- Solar Permitting
- New York Stretch Energy



CAP Actions Taken to Date:

Waste

1. Reduce Waste

- Curbside Pick-Up Yard Waste Program
- Drop-Off Food Waste Program
- Curbside Pick-Up Food Waste Program
- Organics Management Plan



2. Promote Community Repair and Reuse Programs

- Community Repair
- Reuse Program



CAP Actions Taken to Date

Water

1. Reduce and Conserve Water Use

- Use Strategies to Reduce and Conserve Water in the Municipality
- Promote EPA WaterSense Strategies to Reduce and Conserve Water to Residents



2. Expand Water Reuse

- Employ Water Reuse Tactics on Municipal-Owned Property/Land
- Promote Water Reuse Tactics to Residents



CAP Actions Taken to Date

Adaptation & Resiliency

1. Improve Public Preparedness for Heat Emergencies

- Heat Emergency Plan
- Cooling Centers
- Shade Structures Policy
- Public Education



2. Improve Public Preparedness for Severe Storms and Flooding

- Stormwater Management
- Flood Damage Prevention
- Public Education

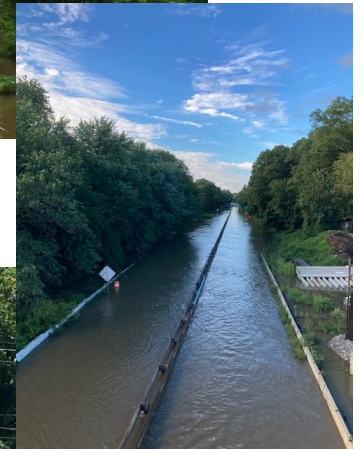


CAP Actions Taken to Date

Adaptation & Resiliency

3. Improve Community Preparedness for Climate Emergencies

- Climate Vulnerability Assessment
- Climate Smart Resiliency Planning
- Hazard Mitigation Plan
- Climate Action Planning and Climate Adaptation Planning
- Public Education



CAP Actions Taken to Date

Adaptation & Resiliency

4. Protect and Enhance Natural Resources

- Parkland Conservation
- Natural Resources Inventory
- Pollinator Pathways and Adopt-a-Spot
- Public Education

5. Protect Tree Canopy

- Commemorate Arbor Day
- Tree Inventories & Forest Management Plans
- Tree Planting Projects
- Tree Preservation and Maintenance
- Limit Ecosystem Stressors

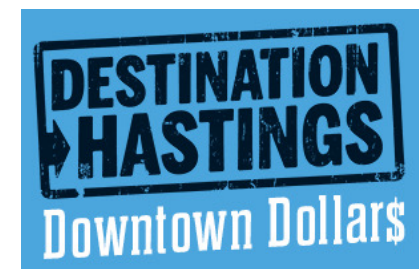


CAP Actions Taken to Date

Adaptation & Resiliency

6. Protect Other Community Systems

- Farmers' Market
- Community Gardens
- Shop Local
- Brownfield Clean-up & Redevelopment



6. Community Brainstorm

- Goals
- Ground Rules
- Process: Breakout Sessions (Focus Areas)
 - Transportation & Land Use (e.g. EVs, biking, walking & smart growth)
 - Buildings & Energy (e.g. energy efficiency & renewable energy)
 - Waste & Water (e.g. conservation & reuse)
 - Adaptation & Resiliency (e.g. preparedness & green infrastructure)

7. Next Steps

- Workshop feedback consolidated and integrated into draft **Climate Action Plan (CAP)**.
- Climate Smart Communities (CSC) Task Force creates a draft CAP.
- Recommendations presented to the Board of Trustees for adoption.
- CAP and recommendations provided to Climate Action Planning Institute (CAPI) program (ICLEI, Westchester County and 9 other municipalities).
- CAP will inform the upcoming Comprehensive Plan Update (CPU) and Local Waterfront Revitalization Program (LWRP) process.