Climate Action Plan
Community Workshop

April 20\textsuperscript{th}, 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

- 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)
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
In 2021, with the help of ICLEI, the Village completed Milestone 2: the establishment of 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

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

- GHG inventory
- Climate Vulnerability Assessment
  - Equity indicators
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 andExisting 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
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.
<table>
<thead>
<tr>
<th>Stance towards community</th>
<th>0: IGNORE</th>
<th>1: INFORM</th>
<th>2: CONSULT</th>
<th>3: INVOLVE</th>
<th>4: COLLABORATE</th>
<th>5: EMPOWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impact</td>
<td>Marginalization</td>
<td>Placation</td>
<td>Tokenization</td>
<td>Voice</td>
<td>Delegated Power</td>
<td>Community Ownership</td>
</tr>
<tr>
<td>Community Engagement Goals</td>
<td>Deny access to decision-making processes</td>
<td>Provide the community with relevant information</td>
<td>Gather input from the community</td>
<td>Ensure community needs and assets are integrated into process and inform planning</td>
<td>Ensure community capacity to play a leadership role in implementation of decisions</td>
<td>Foster democratic participation and equity by placing full decision-making in the hands of the community, bridging divide between community and governance</td>
</tr>
<tr>
<td>Message to Community</td>
<td>“Your voice, needs, and interests do not matter”</td>
<td>“We will keep you informed”</td>
<td>“We care what you think”</td>
<td>“You are making us think (and therefore act) differently about the issue”</td>
<td>“Your leadership and expertise are critical to how we address the issue”</td>
<td>“It’s time to unlock collective power and capacity for transformative solutions”</td>
</tr>
<tr>
<td>Activities</td>
<td>Closed-Door Meetings</td>
<td>Misinformation</td>
<td>Systematic Disenfranchisement</td>
<td>Voter Suppression</td>
<td>Fact Sheets</td>
<td>Open Houses</td>
</tr>
<tr>
<td>Resource Allocation Ratios</td>
<td>100% systems admin</td>
<td>70-90% to systems admin</td>
<td>10-30% to consultation activities</td>
<td>50-60% to systems admin</td>
<td>20-50% to systems admin</td>
<td>40-50% to community involvement</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Implementation</th>
<th>Cost/savings per MT CO₂e reduced</th>
</tr>
</thead>
<tbody>
<tr>
<td>City operations</td>
<td>$0 - $40</td>
</tr>
<tr>
<td>City law/code</td>
<td>$41 - $360</td>
</tr>
<tr>
<td>City educates</td>
<td>$361 - $680</td>
</tr>
<tr>
<td>City partners to lobby state and federal government</td>
<td>$881 - $1,000</td>
</tr>
</tbody>
</table>

**Co-benefits**
- Addresses Milwaukee's superactions
- Opportunity for social equity
- Mitigates and adapts in one action
- Revenue generation of cost avoidance
- Leverages existing efforts
- Community support

**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
### Sample Implementation Schedule

<table>
<thead>
<tr>
<th>Action</th>
<th>How will this be implemented?</th>
<th>Implementation timescale</th>
<th>Potential GHG reductions</th>
<th>Cost/savings per MTCO$_2$e reduced</th>
<th>Co-benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Promote “neighborhood hubs” through Comprehensive Plan policies</td>
<td>L</td>
<td></td>
<td></td>
<td>$$$$</td>
<td></td>
</tr>
<tr>
<td>Implement parking pricing in downtown</td>
<td>L</td>
<td></td>
<td></td>
<td>Data unavailable</td>
<td></td>
</tr>
<tr>
<td>Implement variable system development charges to encourage accessory dwelling unit development</td>
<td>L</td>
<td></td>
<td></td>
<td>$$$$$$$</td>
<td></td>
</tr>
<tr>
<td>Lower parking ratios near high capacity corridors</td>
<td>L</td>
<td></td>
<td></td>
<td>Data unavailable</td>
<td></td>
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</table>

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
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.