# Climate Action Planning Institute Westchester County

Preparing Climate Action Planning: Prioritizing Actions Table Exercises

August 3, 2023

CAPI Westchester is funded by the NYS Department of Environmental Conservation and the and is a partnership between Westchester County, HVRC, and ICLEI.

# What We'll Do

Intro: Stakeholder engagement in Climate Planning (5 min.)

Table Exercise 1 (15 min.)

Prioritizing for Highly Effective Implementation (10 min.)

Table Exercise 2 with Report Out (10 min. + 3 min per group)

# Part 1: Stakeholder Engagement in Government Operations
# Climate Planning

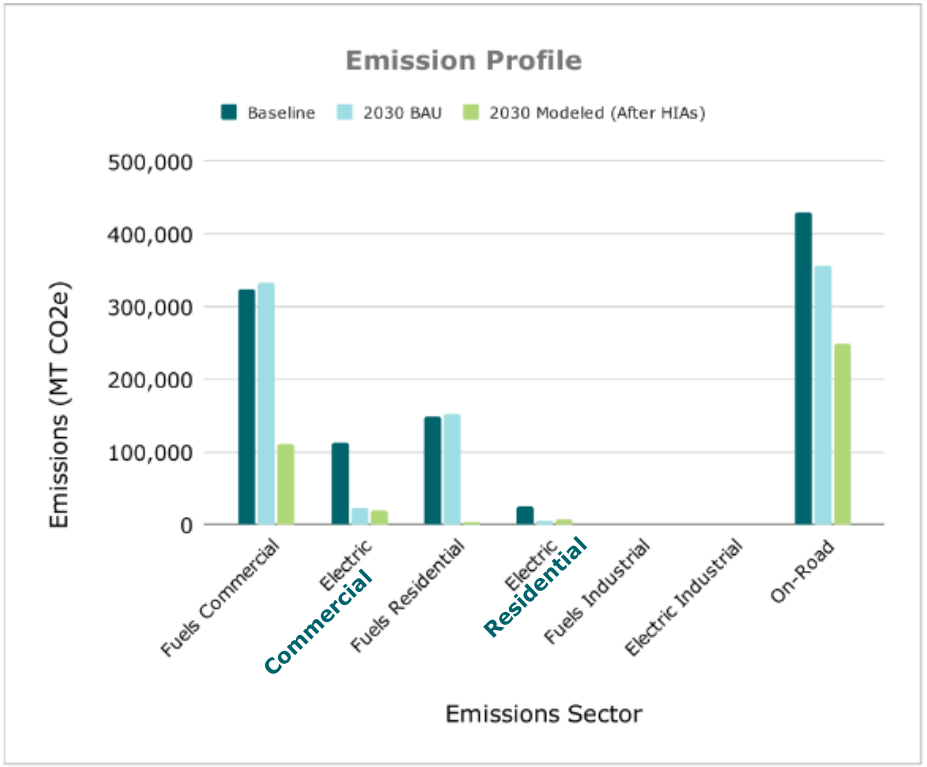
# Establishing Reduction Targets

- **GHG Inventory** reveals current emissions
- **A Forecast** projects future emissions
- **A Target allows a local government to quantify its commitment** to fighting climate change.

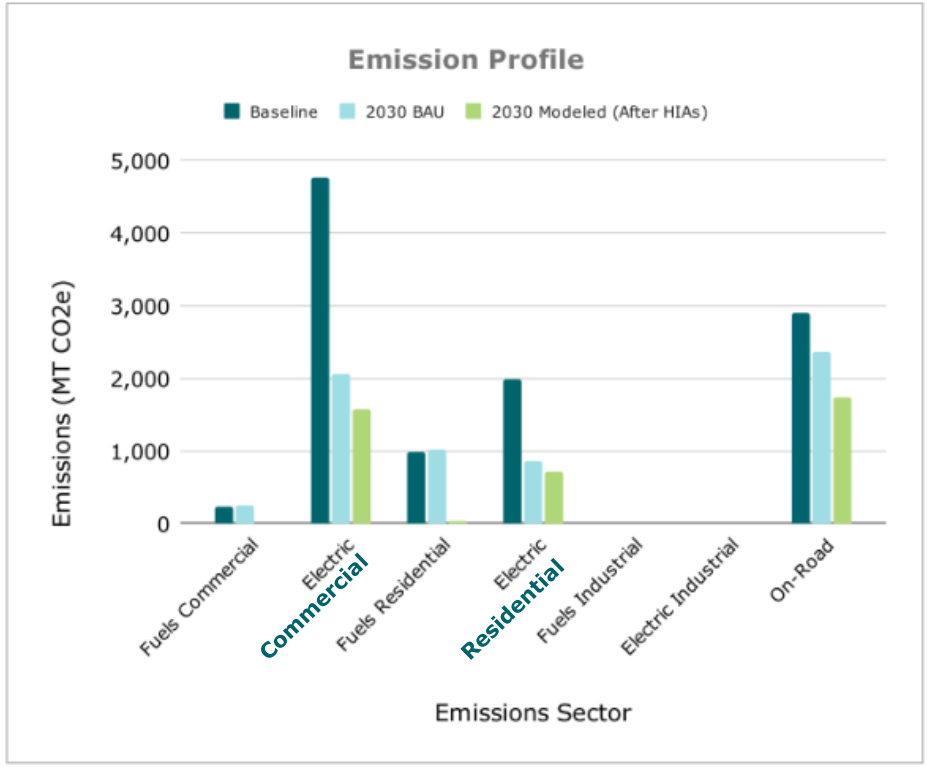
1. Include clear dates (targets and baselines)
2. emissions levels (%),
3. GHGs covered ($CO_2$ only or all GHGs measured in $CO_2$-equivalent ($CO_2e$))

**Actions are designed to meet your targets!**

# City of Albany




# Village of Nyack



# City of Albany

**HIA Overview**

| Type | Name | Net Reduction (MT CO2e) | Description |
|---|---|---|---|
| **Grid Decarbonization** | CES | **112,757** | Clean Energy Standard: 80% Reduction in carbon intensity (kg CO2/MWH) by 2030. |
| **High Level VMT Reduction** | Aggressive (10% VMT Reduction) | **35,606** | 10% Reduction in total VMT |
| **On-Road Electric Vehicles Adoption** | Moderate (4.5% Annual Growth) | **70,529** | 22.5% of VMT is EV by 2030. This action influences an increase in Residential & Commericial buildings electricty emissions. |
| **Commercial Building Efficiency** | IECC New + 10% Existing | **6,199** | All new buildings and 1% of existing Sq FT (renovations and turnover) will meet IECC 2018 (36.95% reduction in building EUI) & 10% Existing Sq FT (renovations and turnover) EUI is reduced by 20%. |
| **Residential Building Efficiency** | 10% EB Renovated | **1,136** | 10% of all SF (existing) per year is reduced by 20% (energy) |
| **Commercial Building Electrification** | New + 6% EB Electrified | **220,718** | All new buildings & 6% Existing Sq FT per year are electrified. This action influences an increase in Commericial buildings electricty emissions. |
| **Residential Building Electrification** | 10% EB Electrified | **147,066** | 10% of existing SF per year is electrified. This action influences an increase in Residential buildings electiricty emissions. |

# Village of Nyack

**HIA Overview**

| Type | Name | Net Reduction (MT CO2e) | Description |
|---|---|---|---|
| **Grid Decarbonization** | Custom | **4,025** | The change in carbon intensity (kg CO2/MWH) from the baseline year to 2030. The 2030 carbon intensity was acquired from Custom input % reduction. This equates to a 58% reduction in Grid Carbon Intensity. |
| **High Level VMT Reduction** | Moderate (5% VMT Reduction) | **118** | 5% Reduction in total VMT |
| **On-Road Electric Vehicles Adoption** | Moderate (4.5% Annual Growth) | **480** | 22.5% of VMT is EV by 2030. This action influences an increase in Residential & Commericial buildings electiricty emissions. |
| **Commercial Building Efficiency** | 10% EB Renovated | **493** | 10% of all SF (existing) per year is reduced by 20% (energy) |
| **Residential Building Efficiency** | 10% EB Renovated | **207** | 10% of all SF (existing) per year is reduced by 20% (energy) |
| **Commercial Building Electrification** | 10% EB Electrified | **225** | 10% of existing SF per year is electrified. This action influences an increase in Commericial buildings electiricty emissions. |
| **Residential Building Electrification** | 10% EB Electrified | **948** | 10% of existing SF per year is electrified. This action influences an increase in Residential buildings electiricty emissions. |

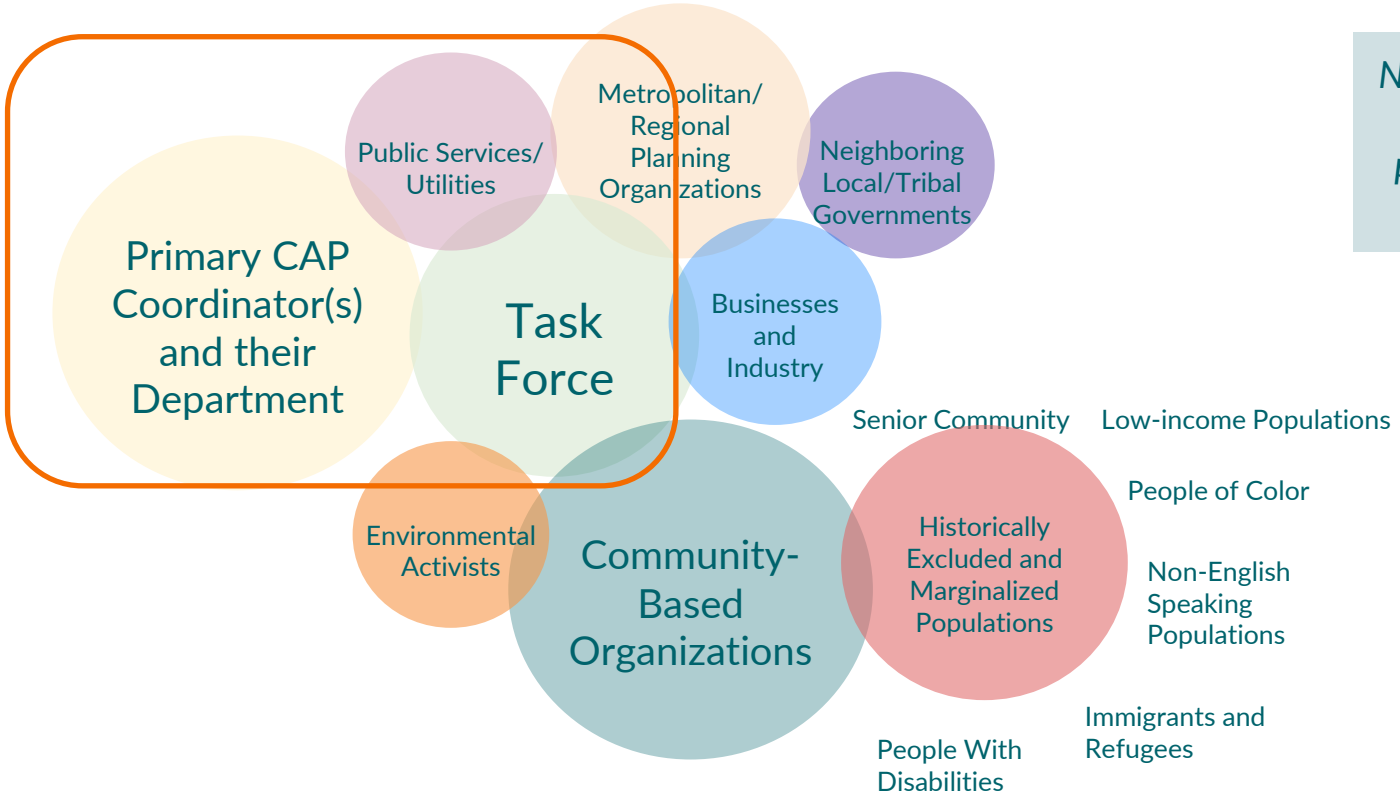
# Preface

- There is no one-size-fits-all approach and nobody has all of the right answers
  - Nothing presented here is meant to be prescriptive–we aim to provide guiding principles, examples, and possible steps
  - One community's process may not be completely replicable or appropriate for yours

# Preface

- **Be motivated by accountability and commitment to change**
  - Strive for improvement, not perfection
  - Be transparent about shortcomings and failures

# Who are your stakeholders?




*Now is the time to start reaching out to key people who should be involved.*

# Who is the team?

CAPI Working Team (You)

Government Department Staff

Wider Community

- Meets regularly, with clear roles
- Form working groups based on interest/expertise, as necessary

- One-off involvement (e.g. tabling at community events, open houses)
- Platforms e.g. Bang the Table, surveys

# Rigorous Stakeholder Engagement

Stakeholders are meaningfully involved in:

- Helping define the problem
- Assessing the community's needs
- Organizing and leading engagement activities
- Imagining and proposing potential solutions
- Dialogues with elected officials and decision makers
- Creating and/or conducting an "equity impact assessment" to assess impacts of potential policy/project options
- Implementing solutions
- Monitoring progress and evaluating outcomes

# Part 1 Table Exercise
# 15 min

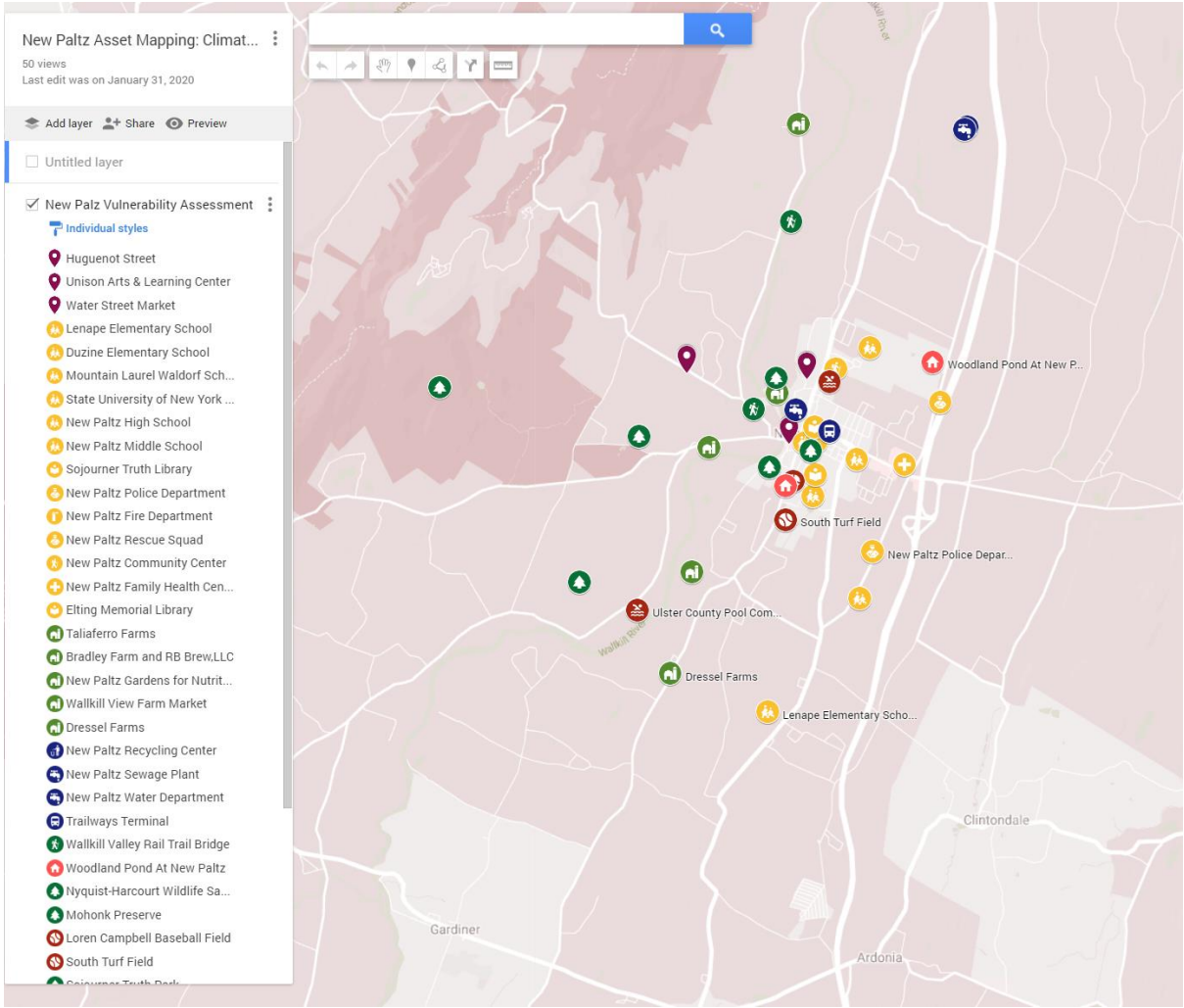
# Part 2: Highly Implementable Climate Acitons

# Planning a Community Workshop

Agenda should include, at minimum:

- A presentation of key GHG Inventory takeaways
- Activities that allow for participants to provide input on potential solutions - make it fun and engaging
    - Recommend breakout groups + open-ended prompts related to different sectors + notetaker & facilitator in each room/table

# Asset Mapping: My Maps Activity



# Formative

## GOVERNANCE
- Ensuring plan implementation and accountability by the District Government.

## EQUITY
- Improving equity in District Government planning, starting with Sustainable DC

## BUILT ENVIRONMENT
- Equitably accommodating population growth
- Strengthening existing neighborhoods
- Making existing buildings more sustainable
- Making new buildings more sustainable

## CLIMATE
- Reducing greenhouse gas emissions (climate mitigation)
- Increasing resilience to climate change (climate adaptation)

## $ | ECONOMY
- Growing green jobs and economy
- Training residents for green jobs

## EDUCATION
- Educating students about the environment
- Educating community members about sustainability

## ENERGY
- Improving energy efficiency
- Increasing renewable energy
- Modernizing energy infrastructure

## FOOD
- Expanding urban agriculture
- Increasing access to healthy food
- Growing the food economy
- Reducing wasted food

## HEALTH
- Enabling active lifestyles for residents
- Increasing healthy places for residents
- Improving community-level health

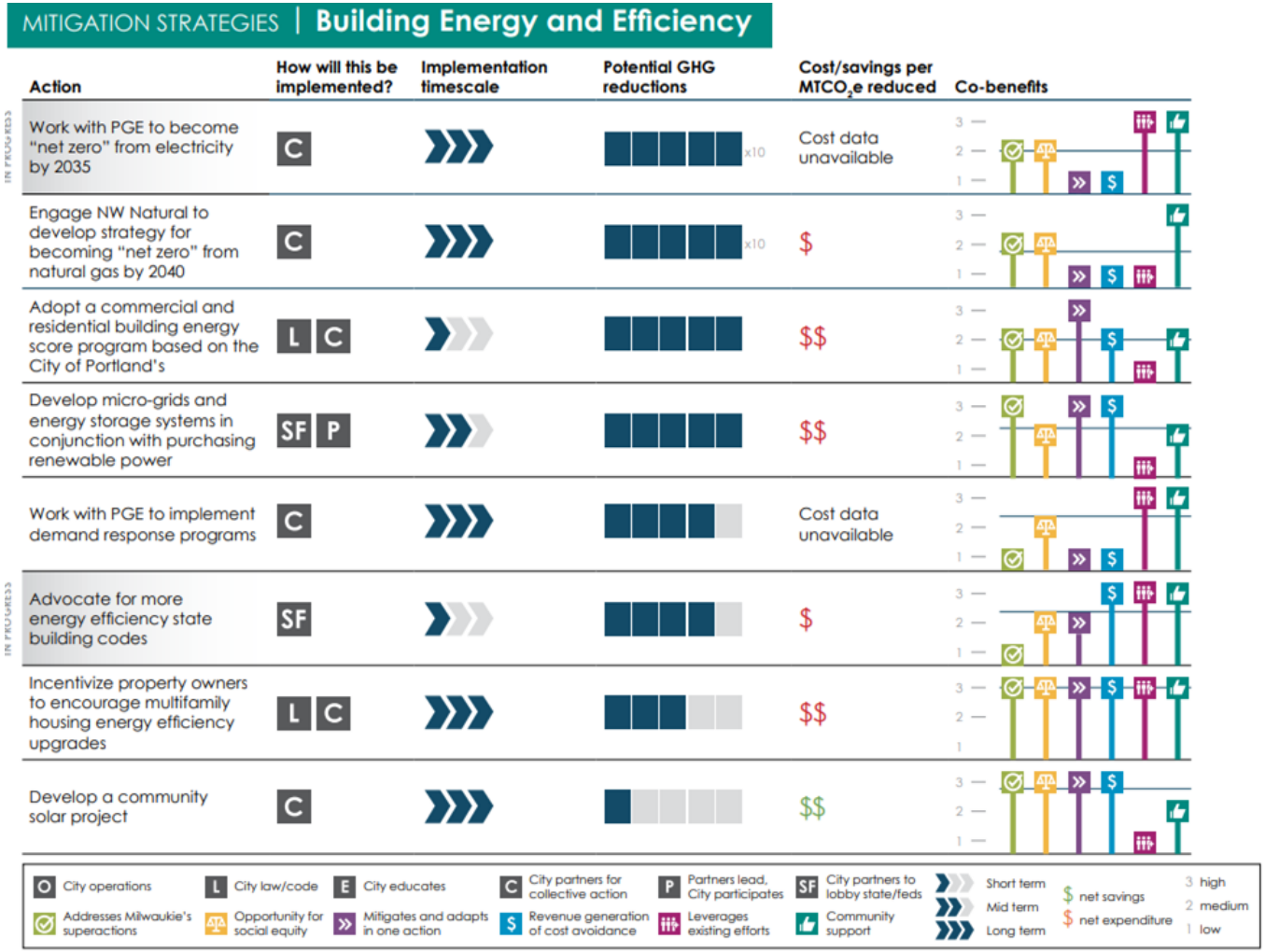
## NATURE
- Protecting and expanding aquatic wildlife and habitat
- Protecting and expanding land wildlife and habitat
- Improving residents' access to nature

## TRANSPORTATION
- Increasing transit use
- Increasing the number of bikers and walkers
- Reducing dependency on single occupant vehicles
- Reducing emissions from transportation

## WASTE
- Reducing the amount of waste created
- Increasing reuse and recovery of materials
- Increasing recycling and composting

## WATER
- Making waterways fishable and swimmable
- Reducing the amount of stormwater runoff
- Reducing the amount of potable water used
- Ensuring safe drinking water

# Intermediate



# Intermediate

## MITIGATION STRATEGIES | Building Energy and Efficiency

| Action | How will this be implemented? | Implementation timescale | Potential GHG reductions | Cost/savings per $MTCO_2e$ reduced | Co-benefits |
|---|---|---|---|---|---|
| Work with PGE to become "net zero" from electricity by 2035 | C | Long term | x10 | Cost data unavailable | 3 high, 2 medium, 1 low; Addresses Milwaukie's superactions; Opportunity for social equity; Mitigates and adapts in one action; net savings |

O 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 Milwaukie'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

# Advanced

## Ann Arbor, MI

**STRATEGY 1:** Power Our Electrical Grid with 100% Renewable Energy

### 3. DEVELOP COMMUNITY SOLAR PROGRAM

Not all residents and businesses are able to install solar on their property. This may be because of inadequate solar exposure, not owning one's home, or financial barriers associated with renewable energy. To provide options to all who want to invest in solar locally, the City of Ann Arbor, in partnership with our utility, will create and support a robust community solar program which allows solar installations on public properties. Community solar programs allow residents and business to purchase solar panels from an existing solar farm and receive an on-bill credit as if those panels were actually on their roof. State legislation is needed to enable community solar programs but the City is already working with state legislators to move this idea forward.

**Vision for Developing Community Solar Program**

By 2030, 11 MW of community solar has been established locally. As our community builds demand for community solar, the landfill solar site in opened for public subscriptions and the City's demand for renewable energy is moved to create even more local renewable energy generation.

**Party Responsible for Implementation**

Office of Sustainability and Innovations

**Collaborators / Project Co-Designers**

- DTE Energy
- State of Michigan
- Partner organizations

**Assumptions**

- Community solar is enabled at the state
- Demand for community solar reaches at least 11MW by 2030
- On-bill financing is possible

**Equity Impacts**

Community solar primarily benefits those without the ability to install their own renewable energy projects.

**Indicators of Success / Goals**

By 2030, 11MW of new renewable energy has been created and is subscribed through a community solar program.

**Target Demographic**

Those who face barriers to installing solar on the buildings they inhabit, including renters, low-income residents, and those with shaded or obstructed roofs

**Timeline and Initial Actions**

**2021** — Enabling legislation passed and City works with DTE Energy to create local pilot community solar program.

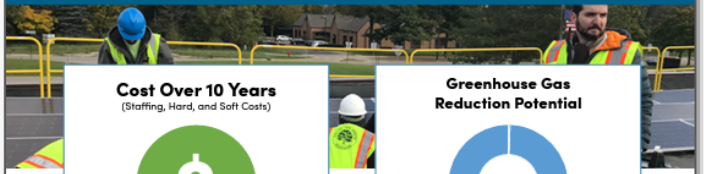
**2022** — Local pilot program launches.

**2024** — Expansion of community solar program locally. Includes recruitment of individuals into program.

**2026** — Landfill solar site opens up for community subscriptions given the success of the initiative. Allows City to take its demand to stimulate more renewable energy development.



**ACTION 3:** Develop Community Solar



**Cost Over 10 Years**
(Staffing, Hard, and Soft Costs)

Costs to the City are
**$205,000**
over 10 years to help administer the program. If the City becomes an anchor tenant, the costs would rise.

**Greenhouse Gas Reduction Potential**

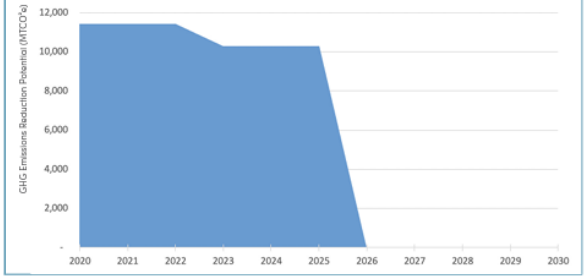
.5%

11,500 metric tons carbon dioxide equivalent (.5% of community-wide emissions)

By 2026, the Develop **Community Solar Program** strategy will have achieved all of its potential greenhouse gas emissions reductions.

The figure below shows the total emissions reduction potential of onsite renewable energy generation (in light blue) assuming the community and University participate in the program.

**DEVELOP COMMUNITY SOLAR PROGRAM**



# Advanced

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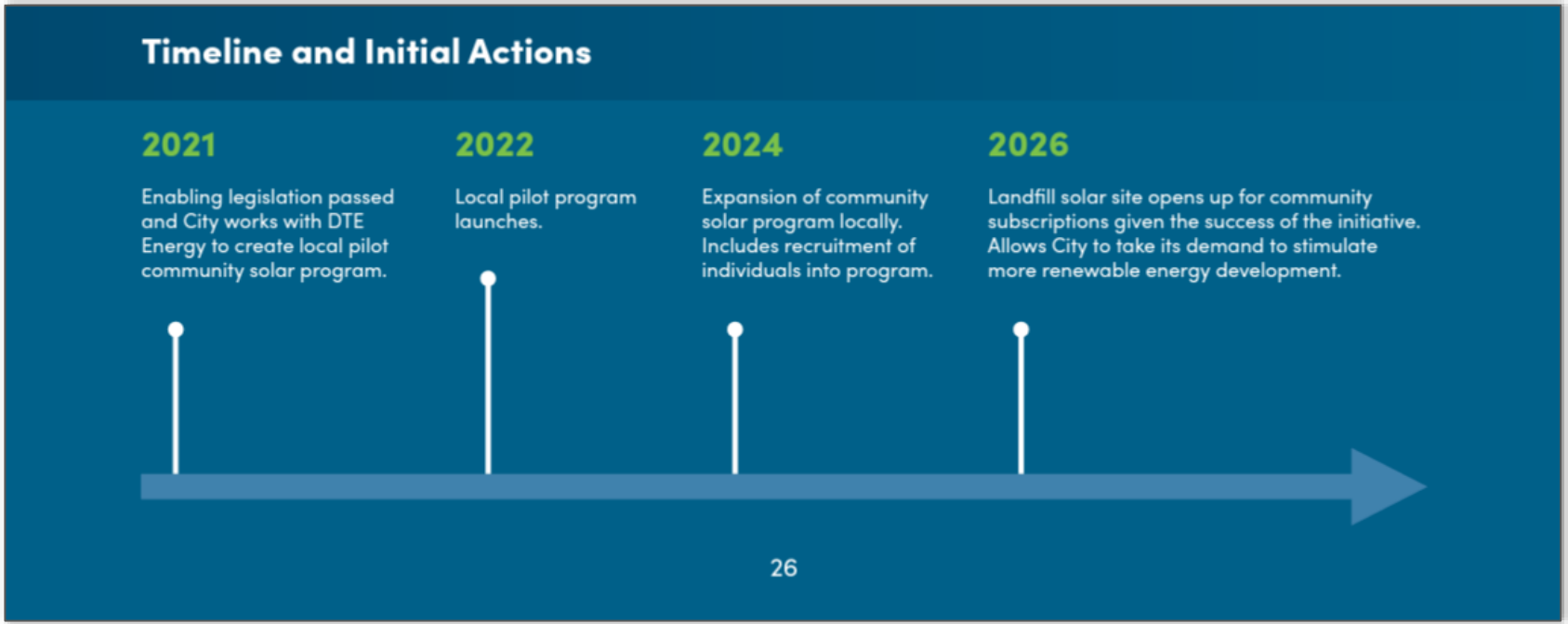
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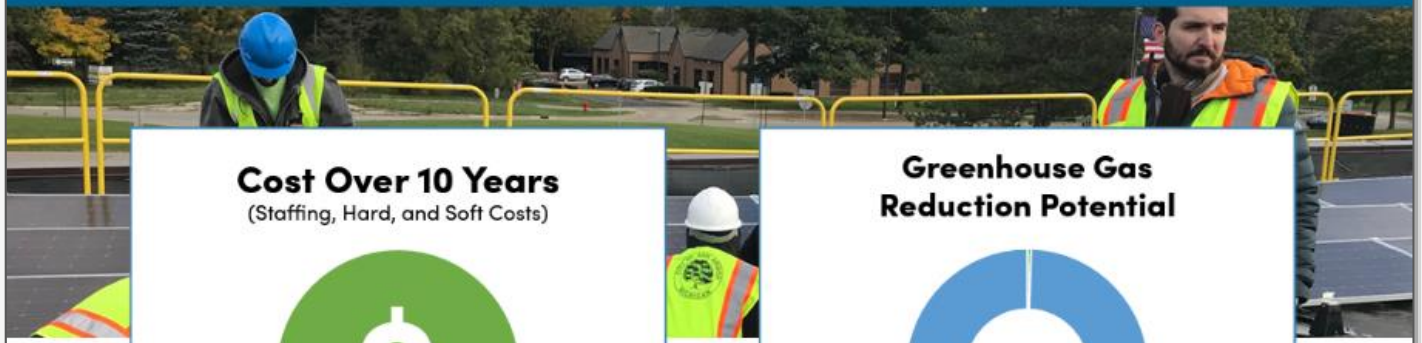
26

# Advanced

## ACTION 3: Develop Community Solar



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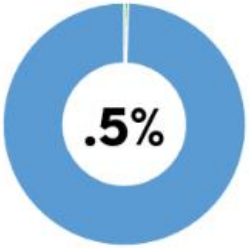


11,500 metric tons carbon dioxide equivalent (.5% of community-wide emissions)

By 2026, the Develop **Community Solar Program** strategy will have achieved all of its potential greenhouse gas emissions reductions.

# Part 2 Exercise: Prioritize Your Actions and Report Out
# 10 min + 3 min presentation per group

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