LINKS: Because City of Richmond staff do not have the ability to contribute to the chat feature in MS Teams, we will create a list of links to be shared with the WG here - slides, agenda, other materials, etc.

- Meeting slides
- <u>Equity Screening Tool</u>
- <u>Feedback survey</u>
- New! Volunteer survey

Because City of Richmond staff do not have the ability to contribute to the chat feature in MS Teams, we will use this slide to communicate questions and answers throughout the meeting

• Type your questions here!

# oy-cherry-blossoms-in-the-richmond-area/

# RVAgreen 2050 Waste Reduction and Recovery Working Group

Thursday, February 10, 2022

Introducing RVAgreen 2050: Climate Equity Action Plan 2030





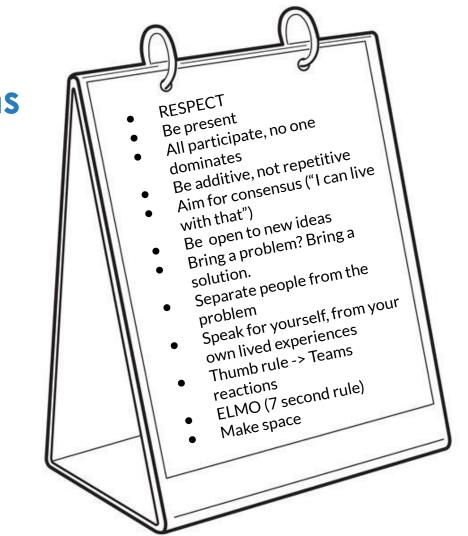
# **Agenda**

- I. Intro: Settling in & ground rules
- II. Partner Updates: What are your recent "wins" for equitable climate action and resilience?
- III. Review: Where we've been
- IV. Presentation: Introducing the draft Climate Action Plan 2030
- V. Discussion: Engagement and advocacy
- VI. Conclusion: Wrap-up and next steps

# Today's Objectives

- Review and discuss any questions on the RVAgreen 2050 planning process
- Provide an orientation to the Climate Equity Action Plan 2030, particularly this group's Pathway and new content
- Look forward to community-wide engagement in April-May and approval/adoption in summer-early fall: what should we be doing and what can you help us with?

# Ground Rules / Group Expectations



# **Partner Updates**

What are your recent "wins" for equitable climate action and resilience?

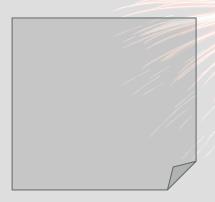
USDA grant for City of Richmond composting pilot! (Parks + Public Works) drop off locations at community gardens, libraries, and other partner locations

Launching in the spring!

Spring is around the corner!
Prepare for sustainable landscaping!

State released Coastal Resiliency Master Plan











# Timeline review

#### **Timeline** Jan-Mar 2021 Foundation-setting and drafting strategies Nov-Dec 2020 Apr-May 2022 Apr 2021 Equity training and Community-wide Community-wide foundation-setting engagement engagement Jun-Jul 2022 May-Aug 2021 Finalizing plan Refining strategies and content drafting implementation and accountability framework Summer/Fall 2022 Seeking approval Understanding Nov 2021-Mar 2022 and adoption Development Review draft plan and Pre-Planning Community provide feedback <sup>Im</sup>plement 2017-2019 40001 & Priorities Developing and refining Rounatable copocity building Mayorsioney RVA OMOUNCEY Green 2050 Data collection and analysis Equity Cabacity building Ambasodo. Oquiy tamana Commering Vinari Vinari Moundonch Moking Gobe + Creating feedback on blan <sup>Im</sup>olementation!

# RVAgreen 2050: Climate Equity Action Plan 2030

DRAFT | February 2022 City of Richmond **Climate Equity Action Plan** 2030 Equitable climate action for a healthy and resilient Richmond

DRAFT | February 2022



# **Climate Equity Action Plan** 2030



## **Table of Contents**

Vision for an Equitable, Healthy, and     Resilient Richmond	1-1
2. Background: Getting to RVAgreen 2050	2-1
3. Climate Equity	3-1
4. Climate Action	4-1
5. Climate Resilience	5-1
6. RVAgreen 2050 Planning Process	
7. Richmond 2030 Action Plan	
Pathways: Buildings and Energy	BE-1
Pathways: Community	C-1
Pathways: Environment	ENV-1
Pathways: Transportation and Mobility	TM-1
Pathways: Waste and Reduction Recovery	WR-1
8. Accountability and Measuring Progress	8-1
9. Act on our Shared Responsibility	9-1
References and Endnotes	
Appendices	

DRAFT | February 2022



# Climate Equity Action Plan 2030



## **Table of Contents**

Resilient Richmond	1-1
2. Background: Getting to RVAgreen 2050	2-1
3. Climate Equity	3-1
4. Climate Action	4-1
5. Climate Resilience	5-1
6. RVAgreen 2050 Planning Process	6-1
7. Richmond 2030 Action Plan	7-1
Pathways: Buildings and Energy	BE-1
Pathways: Community	C-1
Pathways: Environment	ENV-1
Pathways: Transportation and Mobility	TM-1
Pathways: Waste and Reduction Recovery	WR-1
8. Accountability and Measuring Progress	8-1
9. Act on our Shared Responsibility	9-1
References and Endnotes	
Appendices	

# Waste Reduction and Recovery

Fostering sustainable methods of waste reduction wasting less, reusing more.

#### **Objective WR-1**

Lead by example and model zero-waste strategies in all municipal operations.

WR-1.1: Zero Waste Practices: Demonstrate high-impact zero-waste practices through a commitment to meeting the standards set forth by Governor Northam's Executive Order 77.

WR-1.2: Waste Stream Reporting: Track and make available the impact of the city's waste reduction programs in order to provide a model for other institutions, business, organizations, and Richmonders.

#### Objective WR-2

Encourage community waste reduction by equitably prioritizing a circular economy.

WR-2.1: IncentMze & Reward Institutional Waste Reduction: Promote institutional and corporate best practices for zero waste initiatives.

WR-2.2: Consumer Education: Better inform Richmonders about the impacts of waste, litter, and consumer choices.

WR-2.3: Recycle Specialty Materials: Better inform Richmonders about the impacts of waste, litter, and consumer choices.





#### **Objective WR-3**

Develop and implement a comprehensive and equitable citywide composting plan.

WR-2.1: Municipal Composting Initiatives: Provide education about and options for composting at city-owned properties and events, including opportunities for the distribution of matured organic matter.

WR-2.2: Citywide Composting Program: Develop an equitable residential organic waste composting program that includes regular curbside pickup and accessible dropoff locations.

#### **Objective WR-4**

Ensure that policies and standards for waste generation and disposal reflect the community's priorities for an equitable, clean, and sustainable Richmond.

WR-4.1: Public Advocacy for Waste Reduction: Engage Richmonders to develop and mobilize support for legislation, policies and programs aimed at reducing waste.

WR-4.2: Construction & Disposal Standards: Require new and updated standards for site development and waste management.

WR-4.3: Transparency & Environmental Justice: Protect communities from industrial waste by requiring regular waste audits and impact assessments for all new and existing facilities.

#### Guide to the 2030 Action Plan Strategy Name Strategy Reference Context: Relevant Objective Number: Shorthand used background information and Reference Number Objective Pathway to refer to the Strategy rationale for the Strategy RVAg een 2050 | Climate Equity Action Plan 2030 RVAgreen 2050 | Climate Equity Action Plan 203 Achieve climate neutrality and increase resilience in **Objective BE-1** Strategy BE-1.1 overnment buildings, infrastructure, and operations Municipal Energy Efficiency Program OUTCOMES How does this Objective contribute to a more equitable, RVAgreen 2050 and Richmond 300. healthy, and resilient Richmond? The City of Richmond has an obligation to lead by example and act expeditiously to reduce its energy usage in buildings and Advanced green economy Increased flood resilience operations. Efficiency has the benefit of saving taxpayer dollars budgeted for utility costs and often reducing maintenance costs Cleaner and more efficient buildings Increased heat resilience providing an even bigger benefit. Cleaner and more efficient Increased support for climate action and resilience I. Convert all city-owned streetlights to LED, integrate solar options where feasible, and streamline efficiency Climate-ready community Less landfill waste measures; Prioritize improvements in formerly redlined neighborhoods and proactively communicate climate Engaged and involved community Lower greenhouse gas emissions Impact and resilience benefits with the communities. Improved air quality More green space and trees II. Track energy usage in all City-owned Public Works-buildings and set energy usage Special Capital benchmarks according to building type and climate impacts. STRATEGIES BE-11: Municipal Energy Efficiency Program: Develop a program to achieve Public Works - \$\$\$ 2022 - Special Capital II. Equitably prioritize energy efficiency retrofits of City-owned buildings in areas that serve the public Public Works -Special Capital Projects the energy efficiency goals of RVAgreen 2050 and Richmond 300. A 0 A therefore improving their health, safety, and accessibility while rating the highest return on investment in BE-1.2: Municipal Clean Energy and Net Zero Construction: Incorporate measures toward the goal of converting all city buildings to clean energy by 2050 cost savings and CHG reductions. Deputy Chief \$ 2022 - Administrative Officer-BE-13: Municipal Climate Impact Mapping: Establish a protocol for tracking with authority to identify equity gaps in energy management, work across all departments and coordinate 40 4 greenhouse gas emissions and planning for climate impacts. partnerships in frontline communities BE-1.4: Municipal Resilient Infrastructure Assessment: Conduct a climate vulnerability and risk assessment of all city property (including buildings and parcels). Identify and prioritize properties for specific resilience projects. BE-4 | Buildings and Energy BE-5 | Buildings and Energy Status: Where the Action is in Actions: Specific Cost: An estimate of the Resilience: Climate change steps to take to terms of implementation as of cost of implementation of impacts that the Action addresses implement the writing of this plan the Action through 2030 Flooding and the Strategy sea level rise \$ = <\$1M Ongoing = already started or underway Extreme Community \$\$ = \$1M-\$50M City Steward: The weather events resilience Ready to go = ready to City of Richmond \$\$\$ = >\$50M be implemented or is in department or unit another city plan with primary Equity: Community priorities that responsibility for the Action addresses Mitigation: An estimate Requires policy change = implementing the of how much the Action requires city or state law Action Racial equity and environmental justice will reduce greenhouse or policy change in order gas emissions to be implemented Government ### Affordable Time: accountability all housing Timeframe for implementation Mealth and Neighborhoods well-being Community Engagement and communications 7 0 1 Dishara - 1 2070 Astis - Disa

# Waste Reduction and Recovery

Fostering sustainable methods of waste reduction - wasting less, reusing more.

#### **OBJECTIVES**

WR-1: Lead by example and model zero-waste strategies in all municipal operations.

**WR-2:** Encourage community waste reduction by equitably prioritizing a circular economy.

**WR-3:** Develop and implement a comprehensive and equitable citywide composting plan.

WR-4: Ensure that policies and standards for waste generation and disposal reflect the community's priorities for an equitable, clean, and sustainable Richmond.

RVAgreen 2050 | Climate Equity Action Plan 2030



# Waste Reduction and Recovery

Fostering sustainable methods of waste reduction - wasting less, reusing more.

#### OBJECTIVES

WR-1: Lead by example and model zero-waste strategies in all municipal operations.

WR-2: Encourage community waste reduction by equitably prioritizing a circular economy.

WR-3: Develop and implement a comprehensive and equitable citywide composting plan.

WR-4: Ensure that policies and standards for waste generation and disposal reflect the community's priorities for an equitable, clean, and sustainable Richmond.

#### **Objective WR-1**

Lead by example and model zero-waste strategies in all municipal operations.

#### OUTCOMES

How does this Objective contribute to a more equitable, healthy, and resilient Richmond?

- Advanced green economy

Cleaner and more efficient buildings

- Cleaner and more efficient transportation
- Climate-ready community
- Engaged and involved community
- Improved air quality

- Increased flood resilience
- Increased heat resilience
- Increased support for climate action and resilience
- Less landfill waste
- Lower greenhouse gas emissions
- More green space and trees

#### STRATEGIES

WR-1.1: Zero Waste Practices: Demonstrate high-impact zero-waste practices through a commitment to meeting the standards set forth by Governor Northam's Executive Order 77.

WR-1.2: Waste Stream Reporting: Track and make available the impact of the city's waste reduction programs in order to provide a model for other institutions, business, organizations, and Richmonders.

RVAgreen 2050 | Climate Equity Action Plan 2030



#### **Waste Reduction** and Recovery

Fostering sustainable methods of waste reduction wasting less, reusing more.

#### **OBJECTIVES**

WR-1: Lead by example and model zero-waste strategies in all municipal operations.

WR-2: Encourage community waste reduction by equitably prioritizing a circular economy.

WR-3: Develop and implement a comprehensive and equitable citywide composting plan.

WR-4: Ensure that policies and standards for waste generation

osal reflect the nity's priorities for an e, clean, and ble Richmond.

#### Objective WR-1

Lead by example and model zero-waste strategies in all municipal operations.

#### OUTCOMES

How does this Objective contribute to a more equitable, healthy, and resilient Richmond?



Increased flood resilience

















Cleaner and more efficient buildings







#### STRATEGIES

WR-1.1: Zero Waste Practices: Demonstrate high-impact zero-waste practices through a commitment to meeting the standards set forth by Governor Northam's Executive Order 77.

WR-1.2: Waste Stream Reporting: Track and make available the impact of the city's waste reduction programs in order to provide a model for other institutions, business, organizations, and Richmonders.

#### Strategy WR-1.1

#### Zero Waste Practices:

#### Demonstrate high-impact zero-waste practices through a commitment to meeting the standards set forth by Governor Northam's Executive Order 77.

The City of Richmond must lead by example to model sustainable waste management practices in city operations by modifying purchasing decisions, implementing training, and changing employee behaviors.

ACTIONS	STATUS	CITY STEWARD	COST	TIME	GHG REDUCTIONS	RESILIENCE	EQUITY
i. Align city operations with Executive Order 77 to demonstrate high-impact zero waste practices in design and expansion.	8	Sustainability; Procurement Services	\$	2026 - 2030	11.	** +	
ii. Implement strategies that incentivize behavior change among city employees, such as elimination of desk-side trash bins, promotion of recycling and composting, removal of single-use plastics and Styrofoam, and regular waste minimization and sustainability trainings.	<b>Ø</b>	Public Works	\$	2026 - 2030	11.	*1 +	中央企会

DRAFT | February 2022



# **Climate Equity Action Plan** 2030



## **Table of Contents**

Vision for an Equitable, Healthy, and     Resilient Richmond	1-1
2. Background: Getting to RVAgreen 2050	2-1
3. Climate Equity	3-1
4. Climate Action	4-1
5. Climate Resilience	5-1
6. RVAgreen 2050 Planning Process	6-1
7. Richmond 2030 Action Plan	7-1
Pathways: Buildings and Energy	BE-1
Pathways: Community	C-1
Pathways: Environment	ENV-1
Pathways: Transportation and Mobility	TM-1
Pathways: Waste and Reduction Recovery	WR-1
8. Accountability and Measuring Progress	8-1
9. Act on our Shared Responsibility	9-1
References and Endnotes	
Appendices	

												•						
		ì	Č	C	3		L		7	è	7		Ţ	-	Ç	7	U	
1	)		1			í	n	3			5		Ų		J		J	

ОИТСОМЕ	INDICATOR	DATA SOURCE & NOTES	OUTCOME
Advanced green economy	# and % of green jobs	To be determined: In 2013 the U.S. Bureau of Labor Statistics eliminated its Green Goods and Services Occupations data and publications program. Alternative methodology to be identified using best practices and peer city research.	Increased flood resillence
	Number of residents completing training, education, and apprenticeship programs related to climate action and resilience by race and ethnicity	City departments, higher education institutions, and partner organizations	
	Total building energy use (Btu)	Dominion Energy	Increased heat
Cleaner and more efficient buildings	Percentage of households with high energy burden by race and ethnicity	U.S. Census	resilience
Cleaner and	Percentage of travel (mode share) not with single-occupancy internal combustion engine vehicles	U.S. Census	
more efficient transportation	Percentage of population within a 10 minute walk of a fixed-route transit stop with amenities by race and ethnicity	U.S. Census + Greater Richmond Transit Company (GRTC)	Increased support for climate action and resilience
Climate-ready	Number of residents receiving information on climate change impacts through website, social media, events, trainings, and other communications channels (to be defined)	To be determined; methodology to be developed using Office of Sustainability communications platforms and tracking information.	
	Percentage of population facing "high vulnerability" to climate change per the Climate Equity Index by race and ethnicity	RVAgreen 2050 Climate Equity Index	Less landfill waste
mari sa wi	Number of respondents to annual sustainability survey (online, paper, phone, and in-person)	Annual community survey	Lower greenhouse
Engaged and involved community	Number of respondents to annual sustainability survey (online, paper, phone, and in-person) by race, ethnicity, and income - compare to citywide demographics	Annual community survey	More green space
Improved air quality	Citywide average Air Quality Equity Score	To be determined: methodology to be developed with community partners modeled after Tree Equity Score; data to be gathered when air quality monitoring network is established (est. 2023/24).	and trees
	Average Air Quality Equity Score by race and ethnicity	To be determined: methodology to be developed with community partners modeled after Tree Equity Score; data to be gathered when air quality monitoring	

network is established (est. 2023/24).

#### TCOME INDICATOR **DATA SOURCE & NOTES** Number of incidents of standing water, Assemble data from RVA311, emergency

#### flooding, and emergency service during heavy precipitation events reased flood Number of calls/311 requests for standing

Assemble data from RVA311, emergency llence water, flooding, and emergency service service providers, and other sources to be during heavy precipitation events by identified census tract (and/or race and ethnicity if

available)

and coolest areas of the city Percent of population facing "high heat RVAgreen 2050 Climate Equity Index vulnerability" to climate change per

the Climate Equity Index by race and ethnicity-race and ethnicity don't predict vulnerability Percentage of RVAgreen 2050 actions City budget

Temperature difference between hottest

funded eased support Annual \$ allocated directly from the city climate action

Total community GHG emissions

Citywide average Tree Equity Score

space by race and ethnicity

Percentage of population within a 10

minute walk of a public park with green

(MTCO2e)

(MTCO2e)

City budget or facilitated through a partnership with the city to community organizations for neighborhood-based climate action and resilience projects Total waste going to landfill (tons)

Percentage of households that have access to curbside/on-site recycling services by census tract

Per capita GHG emissions by census tract

Transfer station operator and private haulers U.S. Census Office of Sustainability Greenhouse gas

Office of Sustainability Greenhouse

gas emissions inventory - calculation methodology to be developed with

American Forests Tree Equity Score Tool

U.S. Census + Department of Parks and

emissions inventory

community partners

Recreation data

service providers, and other sources to be

Urban heat island study and/or satellite

identified

### RVAgreen 2050 Shared Accountability Framework

#### **Purpose**

A critical concern for RVAgreen 2050 stakeholders throughout the planning process was ensuring the Action Plan does not end up sitting on a shelf. Equitable implementation of the Plan is just as important as the Plan itself.

#### Commitments

- » Regular Evaluation: Taking concrete steps to plan for and measure progress to stay on track toward goals.
- » Transparency: Publicly communicating goals, plans, and outcomes. Identifying needs and potential impact up front.
- » Culture of Improvement: Receive feedback. Revise plans and measures over time to stay on track toward goals.

» Trusting Relationships: Relationships entered into mutually and oriented around a commitment that

parties make each other.

» Institutionalizing
Sustainability in City
Government: Creating an
organizational backbone to
combat climate change
through organizational
structure, culture, staffing,
and decision-making.

#### Helps answer the questions:

"Are we\* on track toward equitable implementation of RVAgreen 2050?"

"Who is responsible for what as part of that implementation?"

\*We = the entire Richmond community working towards the goals of RVAgreen 2050



Figure 8.1. Shared Accountability Graphic

WHO?	WHAT?
	» Steward development, adoption and implementation of the RVAgreen 2030 Action Plan
	» Champion actions to institutionalize sustainability in city government, including:
	» Building awareness among all city employees through new employee orientation and other training opportunities, incorporating climate competencies into job descriptions and performance evaluations, and other initiatives
	» Mobilizing employees through a climate ambassadors program to promote a culture of sustainability
Office of	» Evaluating and updating city policies and programs to reduce greenhouse gas emissions and address the impacts of climate change (such as procurement, hazard mitigation, social services, and others)
Sustainability	» Incorporating climate considerations into the city's annual budgeting processes
Primary convener	» Convene and support Implementation Teams, including quarterly convenings by RVAgreen 2050 Pathway
providing support to city and	» Convene and support the Racial Equity and Environmental Justice Roundtable
community leaders	» Track data for annual progress report and additional updates as needed, including:
	» Indicators
	» Biannual greenhouse gas inventories
	» Climate Equity Index project tracker
	» Website updates
	» Organize annual convening of implementation partners
	» Conduct annual community-wide sustainability survey
	» Provide annual reports to Green City Commission, Mayor and Chief Administrative Officer, City Council, and Planning Commission
	» Steward development and adoption of plan updates (2035, 2040, 2045)

WHO?	WHAT?
Implementation	» Implement RVAgreen 2050 strategies and actions
Teams  Groups of stakeholders from	<ul> <li>Use the Equity Screening Tool, equitable implementation guide, Climate Equity Index, and other equity-centered tools to guide implementation</li> <li>Provide updates to the Office of Sustainability at regular intervals</li> </ul>
city departments, partner organizations, and community	
	» Develop and update as needed an equitable implementation guide (as a next iteration of the RVAgreen 2050 Equity Screening Tool)
	» Two members per RVAgreen 2050 Pathway assist Implementation Teams to ensure equitable implementation of strategies and actions
Racial Equity and Environmental	» Work with Office of Sustainability to conduct an annual evaluation of plan objectives and strategies; review and approve changes
Justice Roundtable	» Create an annual report on implementation using the Shared Accountability Framework
10-member group of residents paid for	» Members commit to:
their time and lived	» Monthly Roundtable meetings
experience expertise	» Quarterly Implementation Team meetings by Pathway
to center equity in implementation	» Staggered 2-year terms
	» Living or working in communities on the frontlines of climate change (census tracts with above-average social vulnerability via the Climate Equity Index)
	» Assist with recruiting new members at the end of their terms
	» Members receive a stipend payment of \$500 every 6 months for their service

WHO?	WHAT?
	» Ensure overall accountability for RVAgreen 2050
Mavor and Chief	» Review and approve 2030 Action Plan to be adopted into the Richmond 300 Master Plan
Administrative	» Review annual reporting information
Officer	» Provide annual updates, highlights, and priorities in State of the City address
	» Ensure there is dedicated and consistent city funding for implementation
	» Review and approve plan updates (2035, 2040, 2045)
City Council	» Ensure overall accountability for RVAgreen 2050
	» Review and adopt 2030 Action Plan into the Richmond 300 Master Plan
	» Review annual reporting information
	» Ensure there is dedicated and consistent city funding for implementation
	» Review and adopt plan updates (2035, 2040, 2045)
Planning	» Review and approve 2030 Action Plan to be adopted into the Richmond 300 Master Plan
Commission	» Review annual reporting information
	» Review and approve plan updates (2035, 2040, 2045)
Green City Commission	» Review annual reporting information
	» Provide recommendations and input on updates, particularly in technical areas
00111111331011	» Adopt priorities annually to support RVAgreen 2050 strategy implementation
Richmond Community	» Participate in planning, implementation, and update processes (read more on our community's shared responsibility in the next section)

DRAFT | February 2022



# **Climate Equity Action Plan** 2030

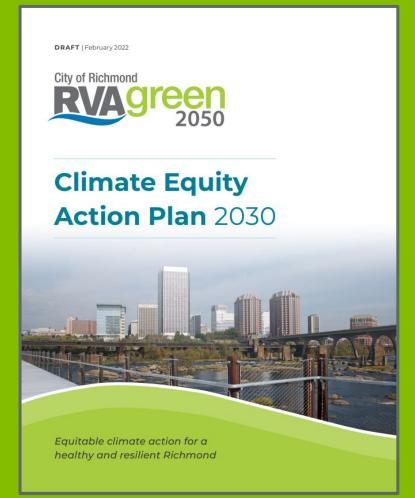


## **Table of Contents**

Resilient Richmond	1-1
2. Background: Getting to RVAgreen 2050	2-1
3. Climate Equity	3-1
4. Climate Action	4-1
5. Climate Resilience	5-1
6. RVAgreen 2050 Planning Process	6-1
7. Richmond 2030 Action Plan	7-1
Pathways: Buildings and Energy	BE-1
Pathways: Community	C-1
Pathways: Environment	ENV-1
Pathways: Transportation and Mobility	TM-1
Pathways: Waste and Reduction Recovery	WR-1
8. Accountability and Measuring Progress	8-1
9. Act on our Shared Responsibility	9-1
References and Endnotes	

Appendices

# Questions?



## What's next for the document?

Working Groups and Roundtable review: now through <u>March 11</u>

Does this reflect your work?

Do you feel ownership, particularly of the content in the Pathway?

If we don't hear from you, we'll assume YES!

• Late February - early March: City staff and leadership review

 Mid-March - early-April: Office of Sustainability prepares document for community-wide engagement in April...more on that......

## Spring 2022 community-wide engagement (and beyond)

- Mid-April through mid-May
- Goals for the Office of Sustainability: transparency and accountability
  - At this point we are not seeking new strategies; instead we are looking to:
    - Bring what we heard back to the community
    - Improve climate literacy and raise awareness and reach new audiences
    - Build support for adoption
    - Use any specific new ideas and input during implementation

#### Discussion

- General reflections, thoughts, and ideas
- o How have you been engaging the community recently?
- What can we align with during the April-May timeframe (any events you know of)?
- Where should we put our energy, with an eye towards advocacy for adoption in summer/early fall?
- Can you anticipate any potential hurdles or blind spots towards adoption?
- What questions or information would you like us to ask/promote to engage?
- We need your help! (quick survey)

# Wrap-up and next steps

#### NEXT STEPS:

- Early April: one all-working groups meeting to share community engagement information and ask for your help
- Mid-April through mid-May community engagement period
- June: final meeting to discuss community input, advocacy for plan adoption, and look forward to implementation

#### NOW:

- VOLUNTEER SURVEY! <u>link</u>
- Share updates, upcoming events, and resources

## **THANK YOU!**