AGENDA SPECIAL MEETING OF THE AMES CITY COUNCIL CITY COUNCIL CHAMBERS - CITY HALL 515 CLARK AVENUE APRIL 5, 2022

CALL TO ORDER: 6:00 p.m.

WORKSHOP ON CLIMATE ACTION PLAN:

1. Discussion on proposed low-carbon scenario

DISPOSITION OF COMMUNICATIONS TO COUNCIL:

COUNCIL COMMENTS:

ADJOURNMENT:

Please note that this agenda may be changed up to 24 hours before the meeting time as provided by Section 21.4(2), *Code of Iowa*.





To: Mayor and City Council

From: Deb Schildroth, Assistant City Manager

Date: April 1, 2022

Subject: Objectives for the Fourth Climate Action Plan Steering Committee Meeting

At the December 21, 2021 Steering Committee meeting, the Committee established a target of 83% reduction of community greenhouse gases by 2030 and net-zero emissions by 2050. SSG has taken this target and modeled a draft low carbon scenario including Six Big Moves and a financial assumption totaling the six combined moves (\$2.4 billion capital costs/\$1.5 billion net returns and avoided costs). At the Tuesday, April 5 Steering Committee meeting, SSG will present the scenario with 29 proposed action steps that would as closely as possible achieve the selected GHG reduction target. In addition, the results of recent engagement activities will be presented at the meeting.

The main objective of the Steering Committee meeting is to review the information and gain a better understanding of what is needed to obtain the stated target. City staff believes the next step in the CAP process is for staff to work with the consultant to generate the following information for the proposed tasks:

- Feasibility to implement each task
- Legal authority to fund and legal authority to implement the tasks
- Cost to citizens

Charged by the City: utility fees/property tax payments/permit fees Charged by non-City: apartment rent payments/building lease payments/construction costs

• Reduction of greenhouse gas emissions per \$100,000 of investment

This helps prioritize the tasks that provide the greatest carbon reduction

for the least investment

Council may wish to add to this list requested information to understand the feasibility of each task.

Once the information is generated, a Staff Report will be presented to the Steering Committee. This will allow the Steering Committee to give direction regarding which of the low carbon tasks should be included in the overall low carbon scenario.

The steps that follow the final acceptance of the low carbon scenario include emissions and financial modeling and analysis, development of the implementation strategies, drafting the plan, and finalization of the plan.

Determining the most effective tasks for Ames continues to require thoughtful review and community input and feedback so that relevant, achievable, and cost-effective strategies are all included in the final Climate Action Plan.

City of Ames

Climate Action Plan + Target Setting

City Steering Committee: Introductory Workshop

April 5th, 2022 6:00 PM-8:00 PM







Meeting Agenda

- Six Big Moves review
- Engagement results overview
- Low carbon scenario inputs
- Low carbon scenario results
- Financial analysis results

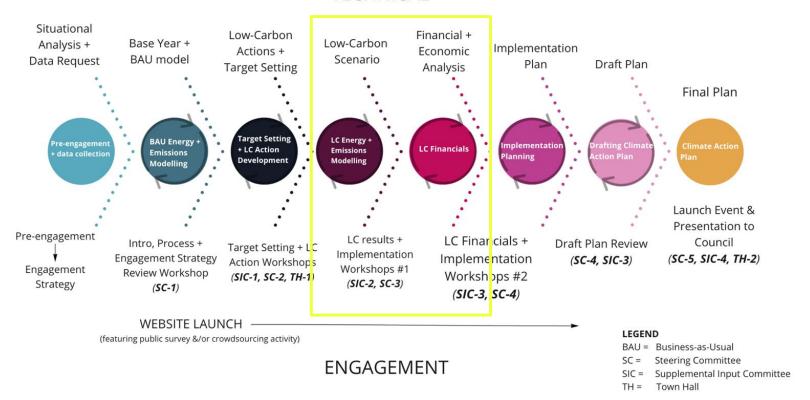


Meeting Objectives

- **To inform** Steering Committee members about:
 - The low carbon scenario development
 - Public engagement results
 - The draft low carbon scenario and financial results

Project Overview

TECHNICAL

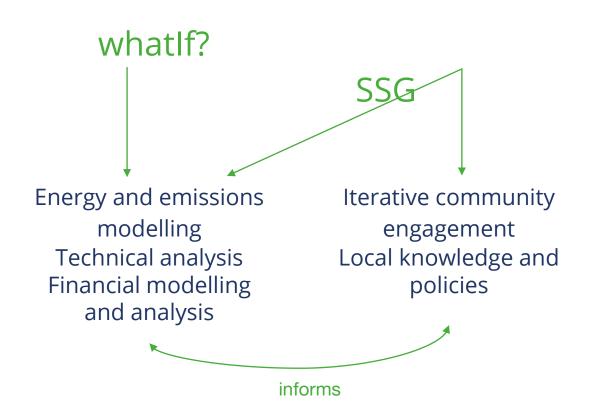






APPROACH

Analyze and Engage



Iterative Process

Technical

- What actions
- How much, how fast
- How to sequence to maximize benefits

Engagement

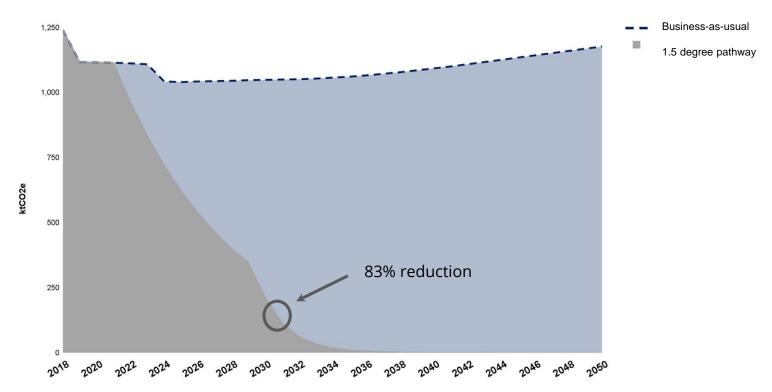
- Local opportunities
- Local constraints/challenges
- Support needed and wanted
- Co-benefits







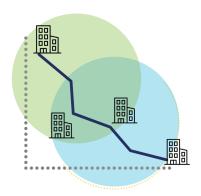
A reminder of the low carbon pathway selected



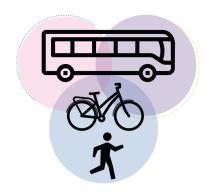


Building Retrofits





Net-Zero New Construction



Increase Active Transportation and Transit Use



Renewable Energy Generation





Engagement Results



Engagement in this phase

Supplemental Input Committee meetings

Community survey

Focus groups

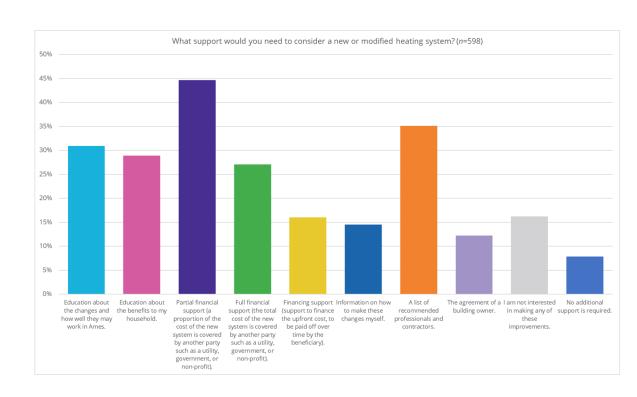
Staff Engagement

Survey Overview

- Open from March 2nd 2022 March 20th 2022
- Available online and as a printed copy
- Promoted via a press release, City social media, City-led community outreach (in-person), and via Supplemental Input Committee member distribution to sectors
- Education pieces within the survey
- 626 responses

Survey Key Takeaways

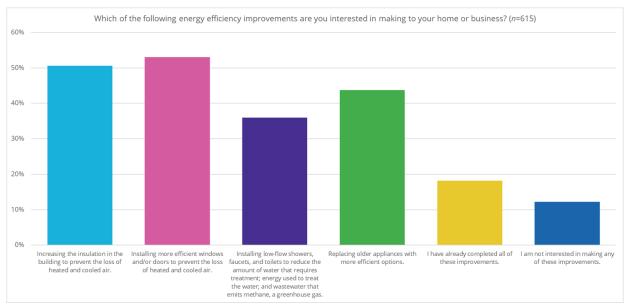
Across all actions, the highest ranked supports respondents want are partial financial assistance, a list of qualified contractors and/or suppliers, and education



Survey Key Takeaways

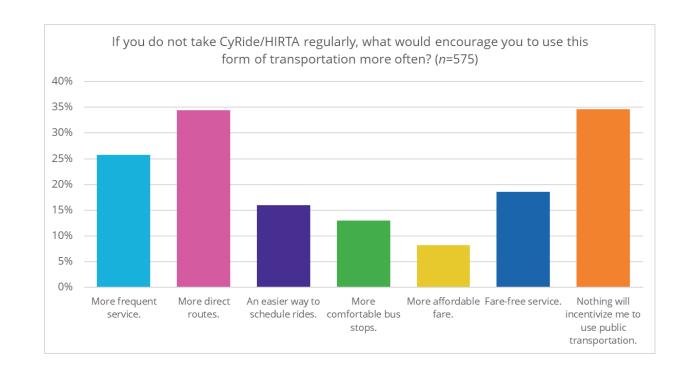
Regarding interest in and willingness to act, survey respondents responded most positively to:

- Waste reduction
- Building retrofits
- Heating system replacements
- Net-zero new homes
- Renewable energy



Survey Key Takeaways

- Support is divided for electric vehicle purchases
- There is lower support to move to active transportation and transit for those not already taking it



Focus Groups Overview

- Six focus groups
 - Business, training and labor sectors
 - Youth and students
 - Construction and development sectors
 - Non-profit sector and equity-seeking groups
 - Transportation sector
 - Residents and resident-led groups
- Short presentation on the CAP development process
- Roundtable discussion customized based on sector/group
- Equity question asked to each group

Supplemental Input Committee Overview

- Two Supplemental Input Committee meetings
 - Presentation of the big moves and feedback
 - Presentation of the low carbon scenario and financials and feedback

Supplemental Input Committee

Some mixed reactions and some disappointment with the outcome of the low carbon scenario



Supplemental Input Committee

Education, cost, and technical challenges noted as challenges.

Education of public, affordability, cooperation Need more leadership. Create positions whose Finance and education about how between community schools and city jobs it is to carry out the plan Our governor:) Electric distribution deficiencies, costs to Communication implement, not enough people willing to work Knowledge to implement deep home retrofits, Customization is a challenge. Each house is large amount of renewable energy on grid, Better message to combat political different. If a hire expert can help consistently creative financing for home retrofits apply changes it will help misinformation.

Supplemental Input Committee

Waste reduction, City-led action, and building retrofits seen as opportunities.

ISU: Reduced waste emissions, net-zero new construction, Home retrofits/electrification, waste diversion/reduction, Free Recycling and composting programs Shared vehicle renewable energy, access to electric vehicles program Increase education of the community on climate change More convenient composting Don't invest in any infrastructure that doesn't serve the emission reduction goals Would like to see City be the example then huge educational campaign More awareness/education, equity in green infrastructure implementation, start with municipal changes (not personal) Building retrofits/energy efficiency; renewable energy investment, and changes to our waste management. Waste reduction, use of more public and active transportation

Staff Engagement Overview

- Low carbon assumptions review
 - Provided staff with an opportunity to comment on low carbon assumptions and provide feedback
 - Offered one-on-one meetings with technical advisory committee members
- Financial assumptions review
 - Provided staff with an opportunity to comment on financial assumptions and provide feedback
 - Offered one-on-one meetings with technical advisory committee members





Low Carbon Action Development

- Develop a list of potential actions and strategies
 - Based on target, local context, and best practices
 - Met with staff (Technical Advisory Committee) to review
- Identify the technical potential of each action or group of actions to reduce energy and emissions
- Identify any actions that are overlapping and/or include dependencies on other actions
- Translate the actions into quantified assumptions over time
- Apply the assumptions to relevant sectors in the model to develop a low-carbon scenario
- Analyze results of the low-carbon scenario against the overall target, and adjust as needed (with rationale)

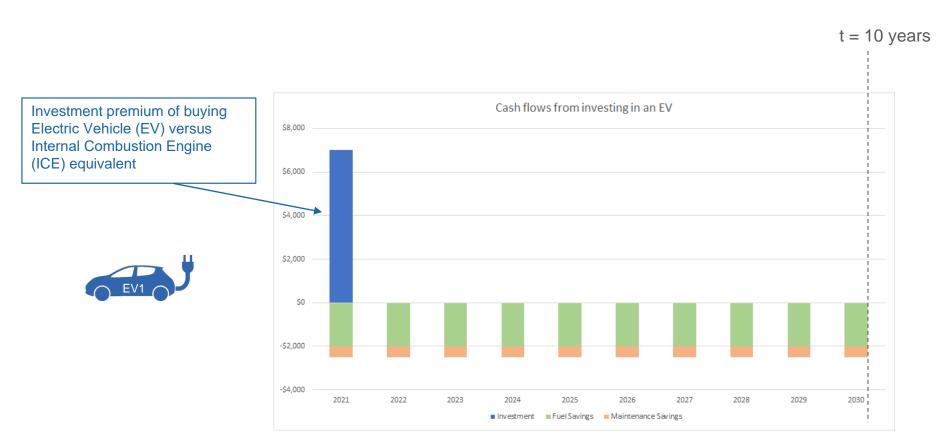
Financial Modeling Process

- Develop a financial dictionary/assumptions sheet
 - Based on most reliable and localized data possible
 - For each asset and process added and modified from the baseline scenario
 - Provide to staff technical team for review
 - Swap out any assumptions for local data provided (e.g. based on real data and studies staff have available)
- Load financial data in the model with views

Financial Modeling Process (cont'd)

- Export data
 - Compares actions over BAP results
 - Differences in physical stock, energy use, emissions
 - These differences coupled with financial coefficients produce financial results by action
- Results analysis sheet
 - Cash flows
 - Net Present Value (NPV)
 - Marginal Abatement Cost Curves (MACCs)
 - High level graphs

NPV example: undiscounted cash flows



What did we model?

Capital Investments

Community based, result in jobs, create new economic development activities

Operating Expenses

Decrease up to 50% due to increased efficiency across all sectors

Energy Expenses

Energy expenses increase or decrease due to type and amount of energy being used

Carbon Savings

Calculated if carbon pricing is place. Currently zero in Ames.

Return on Investment



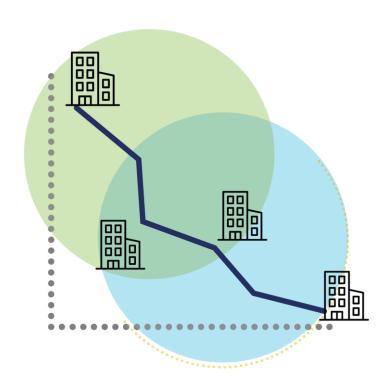




Building Retrofits

What

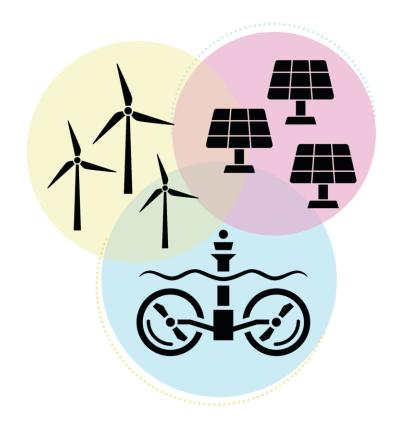
- 90% of residential buildings retrofit by 2035
- 90% of industrial, commercial and institutional buildings retrofit by 2035
- 30% energy savings below BAU through process efficiency in industrial buildings by 2030
- All municipal buildings retrofit by 2030
- Add air-source heat pumps for all buildings by 2040.
- Replace hot water heating systems with electric by 2040.
- Bring renewable natural gas online 2028-



What

- All buildings constructed in 2026 and after will be net-zero ready
- Linear increase 2023-2026
- Passive house standard by 2030 in residential and commercial buildings
- All new Municipally-owned buildings to be net-zero energy ready (NZER) beginning in 2023 and passive house by 2025.

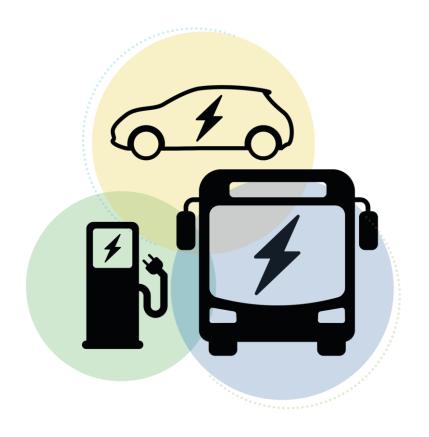
Net-Zero New Construction



What

- Max out rooftop solar potential (220 MW)
- 50 megawatt solar farm by 2025, additional 50 MW by 2030 and an additional 200 MW between 2035 and 2045
- 20 MW wind farm by 2026
- Add Tesla power walls or other homescale battery storage to every home when an electric vehicle is acquired
- Local production: Moved to electric (2024) and RNG (2030)

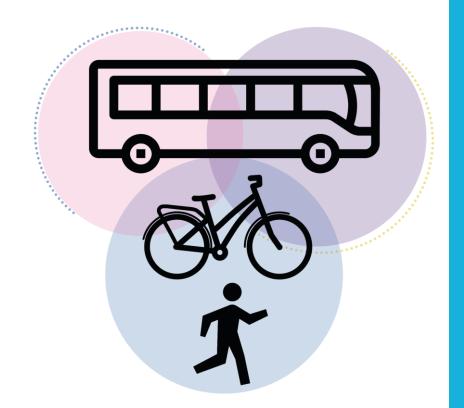
Renewable Energy Generation



What

- All light and medium duty vehicles sold in 2030 are zero emissions vehicles
- All heavy duty vehicles sold in 2030 and after are electric
- Between 2023 and 2030 proportion of biodiesel use increasing by 5% each year
- Transit electrification

Reducing Vehicle Emissions



Increase Active Transportation and Transit Use

What

- By 2050, 10% of trips in the City completed using transit
- 17 buses replaced with electric by 2027;
 Then replace at end of lifecycle for remaining buses.
- By 2050, 40% of trips under 1.25 miles completed by walking, 25% of trips 1.25 miles - 3 miles completed by biking
- Car and bike share programs
- Reduction in vehicle miles travelled



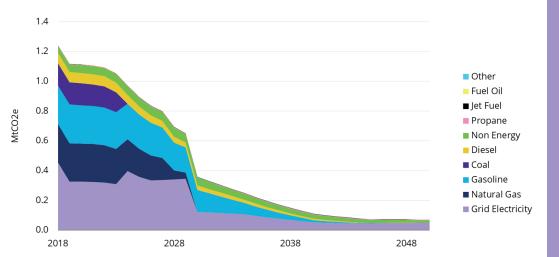
What

- Waste decreases by 20% per household at the source by 2030; 50% per household at the source by 2050 below the BAU
- 50% of commercial waste is diverted at source by 2030 below the BAU
- 90% of organic/food waste is diverted by 2028
- 90% of glass, metal, and paper, cardboard, and other paper products are recycled by 2028

Reduce Waste Emissions

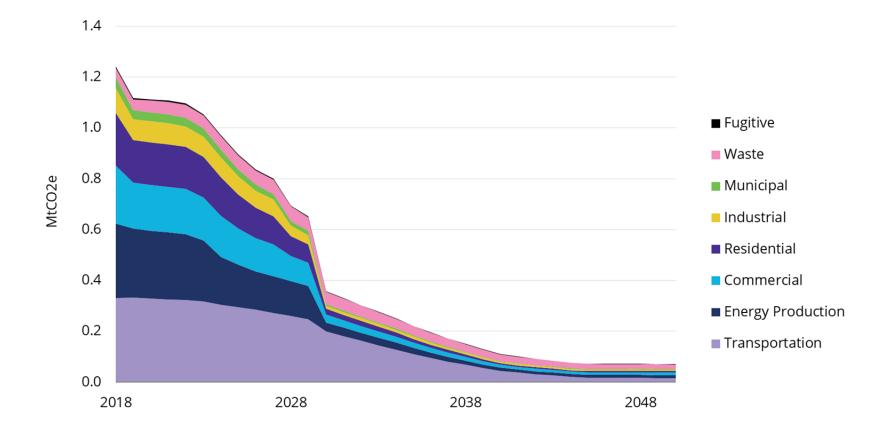


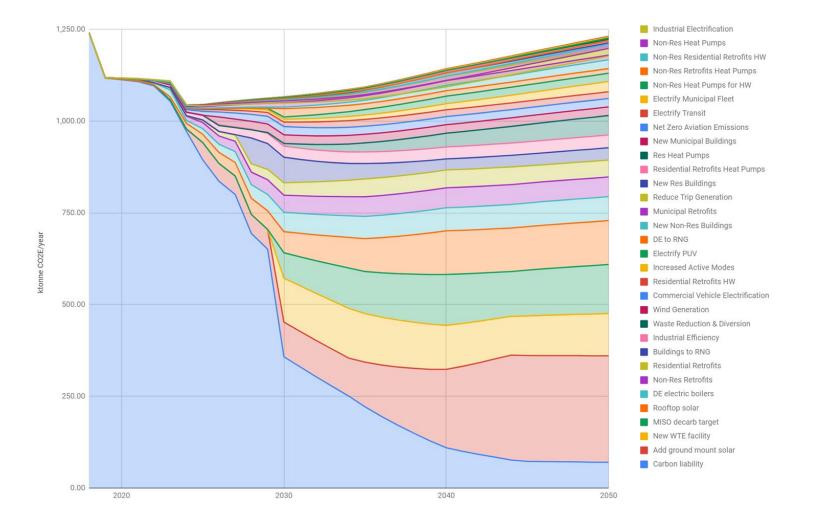




Results

- 70% reduction by 2030
- 94% reduction by 2050
- 4.8 tonnes GHG emissions per capita by 2030
- 0.8 tonnes GHG emissions per capita by 2050





Net Investments and Returns/Avoided Costs

Capital expenditures

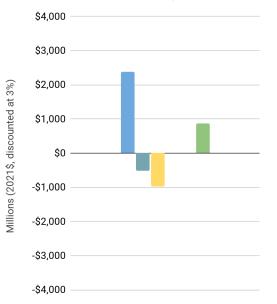
Energy Cost Savings

Avoided Carbon Taxes

Net Present Value

Renewable Energy Revenue

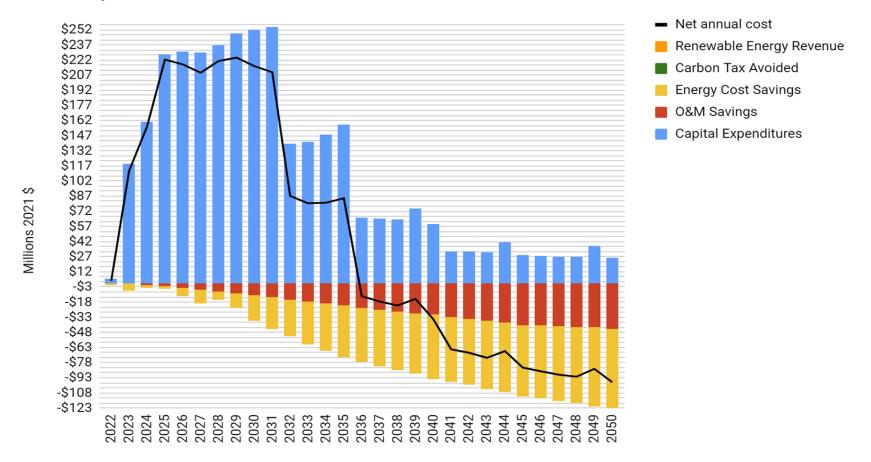
O&M Savings



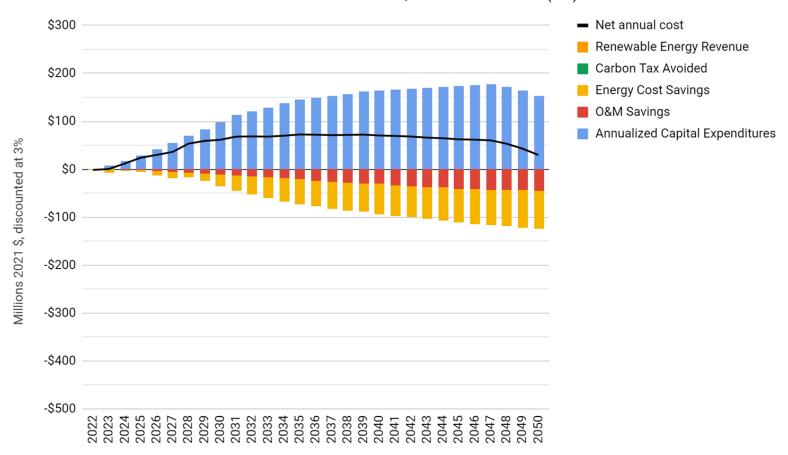
Draft Financial Results

- Overall capital expenditures ~\$2.4 billion
- Net returns and avoided costs ~1.5 billion
- NPV ~\$850 million over 28 years

Year-over-year Incremental Investment and Returns/Avoided Costs

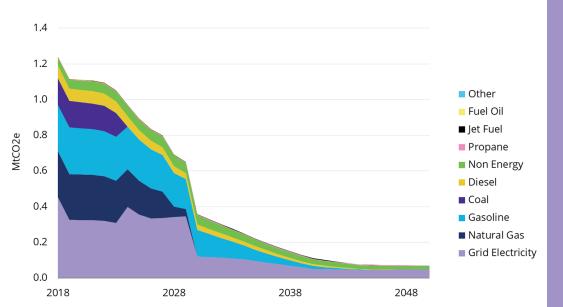


Year-Over-Year Investment and Returns/Avoided Costs, Amortized CAPEX (3%)









Results

- 78% reduction by 2030
- 98% reduction by 2050
- 3.2 tonnes GHG emissions per capita by 2030
- 0.2 tonnes GHG emissions per capita by 2050
- Achieved through Renewable Energy Certificate purchases
- Additional cost = ~\$621million

Financial Insights

- Cheap natural gas and expensive electricity impact financials
- Investments can be amortized to reduce capital requirement
- The savings are long term- renewable energy has no fuel costs
- If natural gas prices or gasoline prices increase, the financial benefits increase significantly
- There are costs but also community economic development opportunities

Key takeaways

- Outreach reflected the need for the plan to be equitable
- There is a gap between Council's target and what has been modeled to date due to the transportation sector - it is up to Council to decide how to proceed
- The plan is meant to be a living plan that adapts with changing conditions over time
- The plan has a net present value of \$850,000 over 28 years approximately \$500 per resident per year
- The financials are highly volatile, especially in the current national and global context
- There is a cost to inaction as well
 - \$96 billion cost and 440 deaths in the Midwest in the past decade (2020)

"When Franklin D. Roosevelt became president in 1933, most of rural America still had no electricity. In 1935, he created the Rural Electrification Administration, and in just five years the nation built 250,000 miles of power lines and hooked up nearly a million farms. By the early 1950s, virtually the entire country had electricity."

- Energy Innovation Policy and Technology LLC

Thank You!







Actions Survey Summary

Prepared for the Ames Climate Action Plan



March 2022



Disclaimer

Reasonable skill, care and diligence has been exercised to assess the information acquired during the preparation of this analysis, but no guarantees or warranties are made regarding the accuracy or completeness of this information. This document, the information it contains, the information and basis on which it relies, and factors associated are subject to changes that are beyond the control of the author. The information provided by others are believed to be accurate but have not been verified.

This report presents analysis of public survey results. The public survey was released with the intent to receive public feedback on greenhouse gas emissions reduction actions. The authors do not accept responsibility for the use of this analysis for any purpose other than that stated above and does not accept responsibility to any third party for the use, in whole or in part, of the contents of this document. This analysis applies to Ames and cannot be applied to other jurisdictions without analysis. Any use by the Ames, its sub-consultants or any third party, or any reliance on or decisions based on this document, are the responsibility of the user or third party.

About the Survey

The Ames Climate Action Plan (CAP) Actions Survey is a component of the broader project engagement plan that is aimed at collecting broad public input on the CAP.

The survey provided an opportunity for members to be involved in of the community to shaping the development of actions for the Climate Action Plan (CAP), submit feedback on the Big Moves being proposed to reach the greenhouse gas (GHG) emissions reduction target for the CAP, voice their concerns, and provide the City of Ames with insights on how they want to participate in reducing emissions in the community.

As part of the Ames Climate Action Plan, Ames City Council set a target of reducing greenhouse gas emissions by 83% below 2018 levels by 2030 and reaching netzero emissions by 2050.

Reaching that target will require action by the City, residents, and businesses, and support from other levels of government.

Survey Summary

- Open from March 2nd 2022 March 20th 2022
- Available online and as a printed copy
- Promoted via a press release, City social media, City-led community outreach (inperson), and via Supplemental Input Committee member distribution to sectors
- 626 responses

Note that this summary provides an overview of the preliminary survey analysis. This includes aggregated results for each question (e.g. not broken down by demographics collected). During the next phase of the project survey results will be further disaggregated to inform program, policy, and incentive suggestions.

SECTION ONE RESULTS

Big Moves



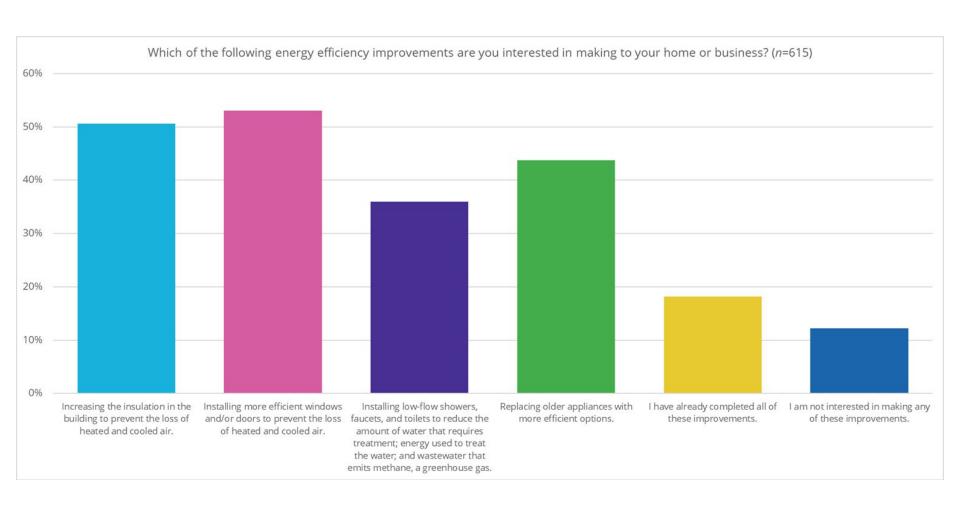


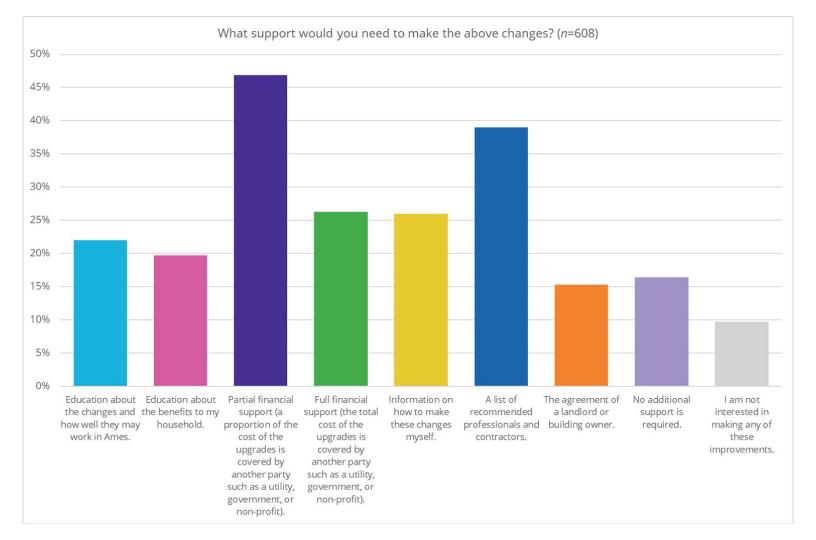
BIG MOVE ONE

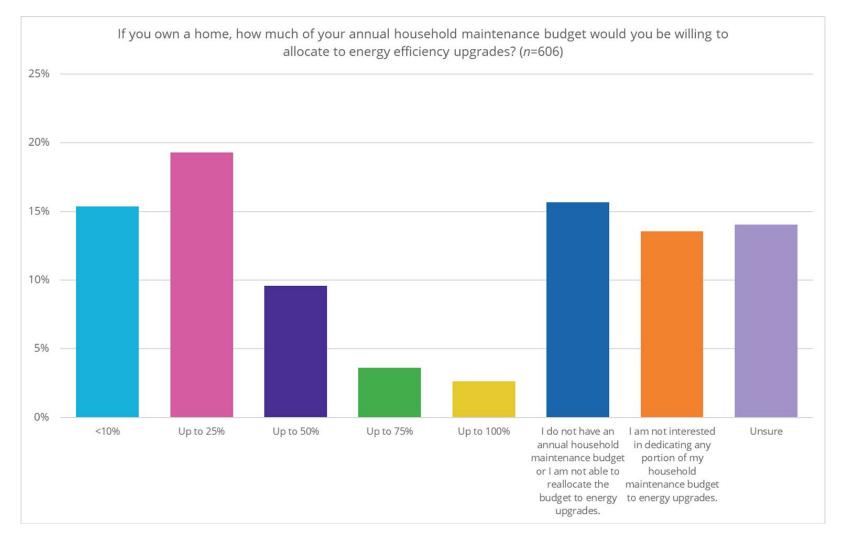
Building Retrofits

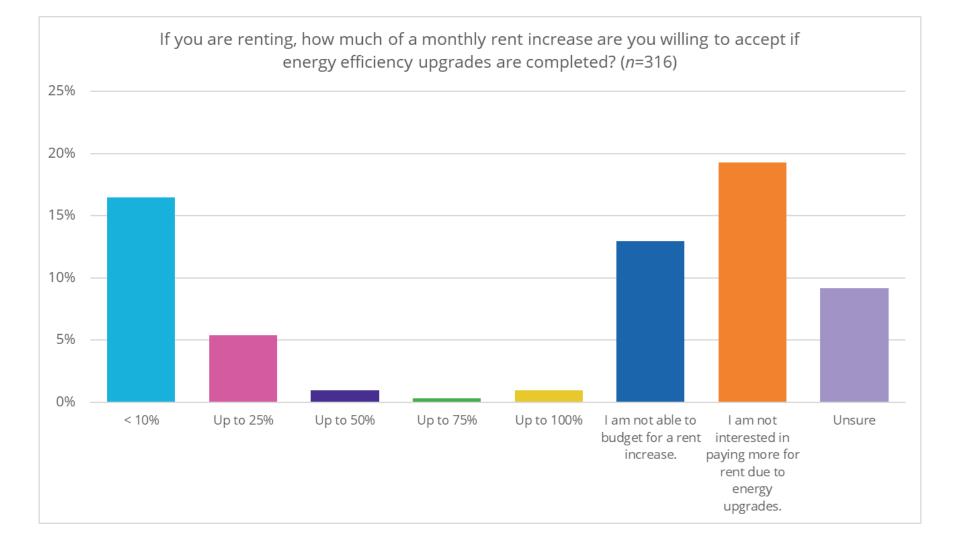


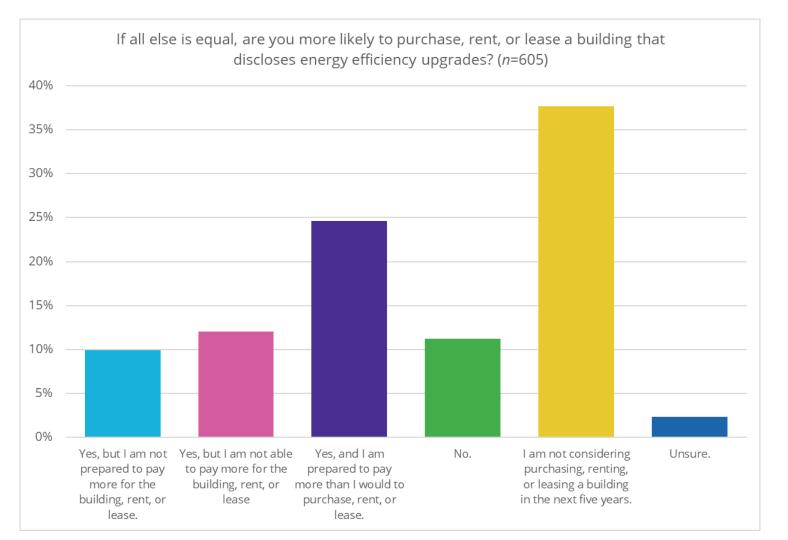


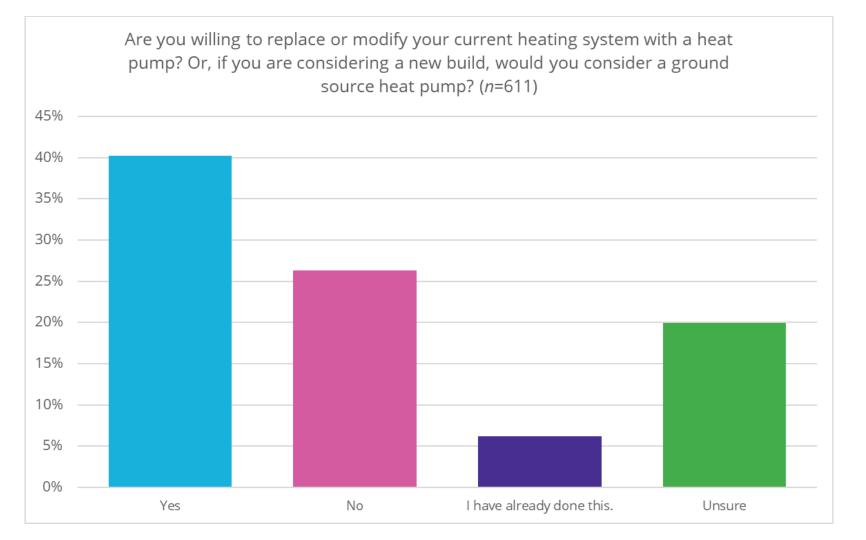


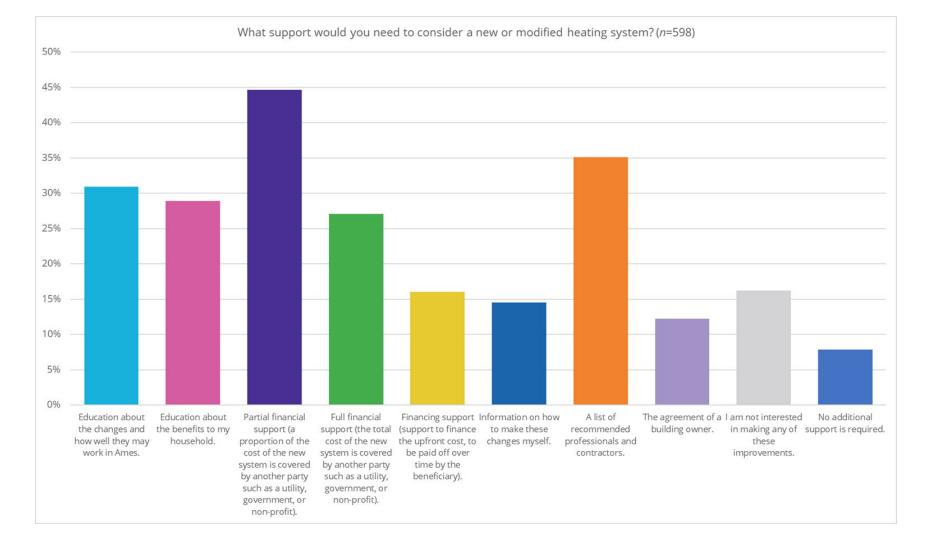


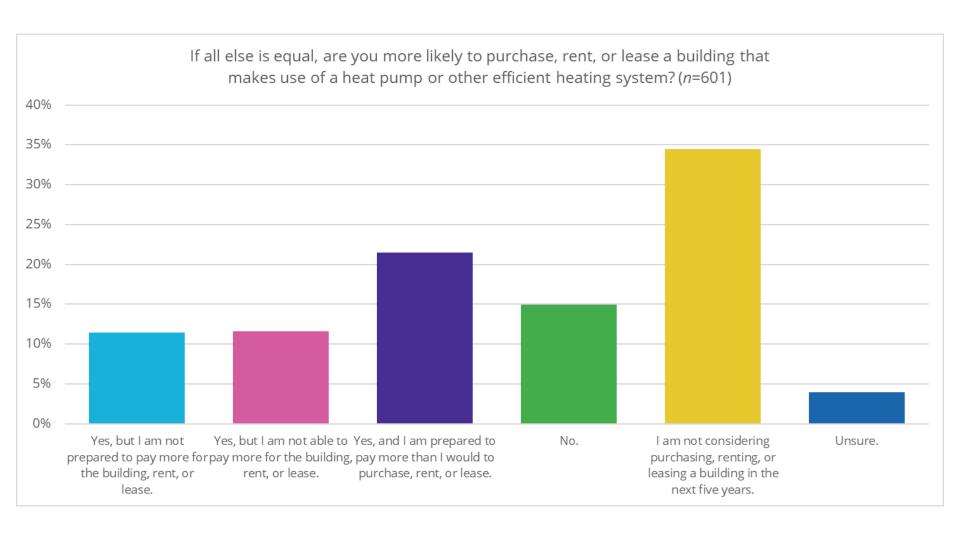










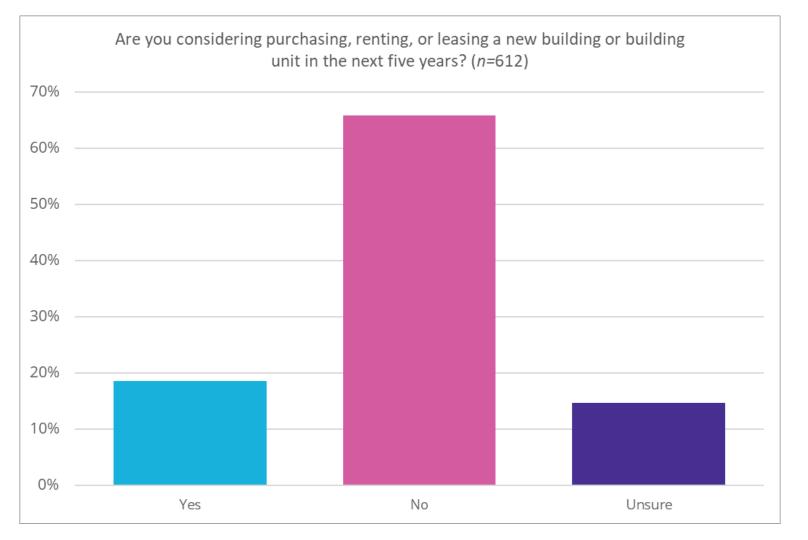


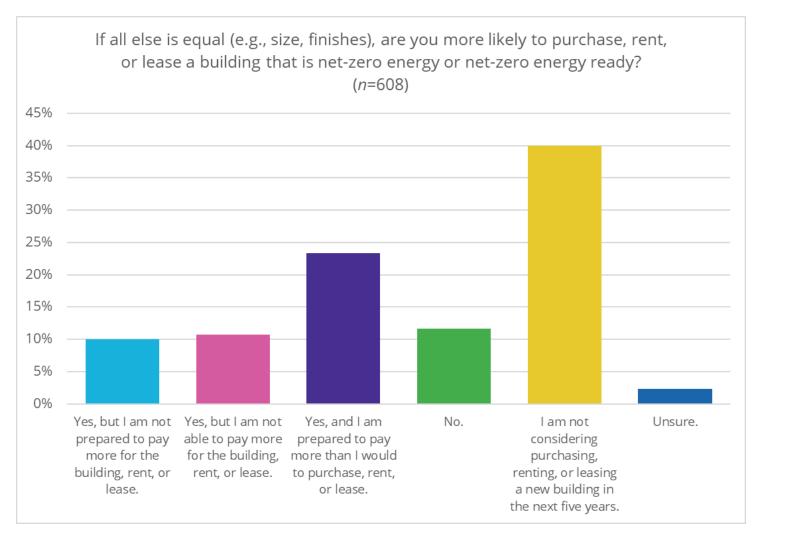
BIG MOVE TWO

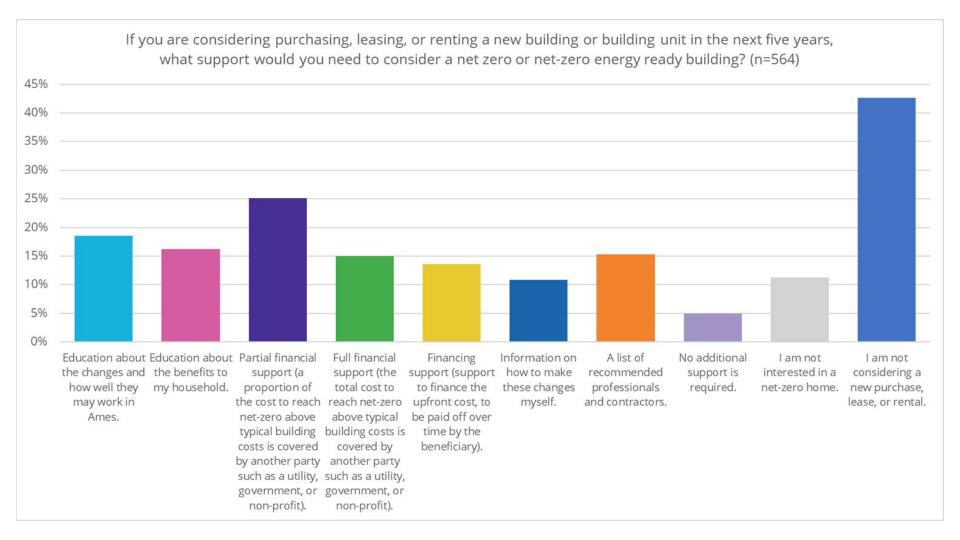
Net Zero New Construction







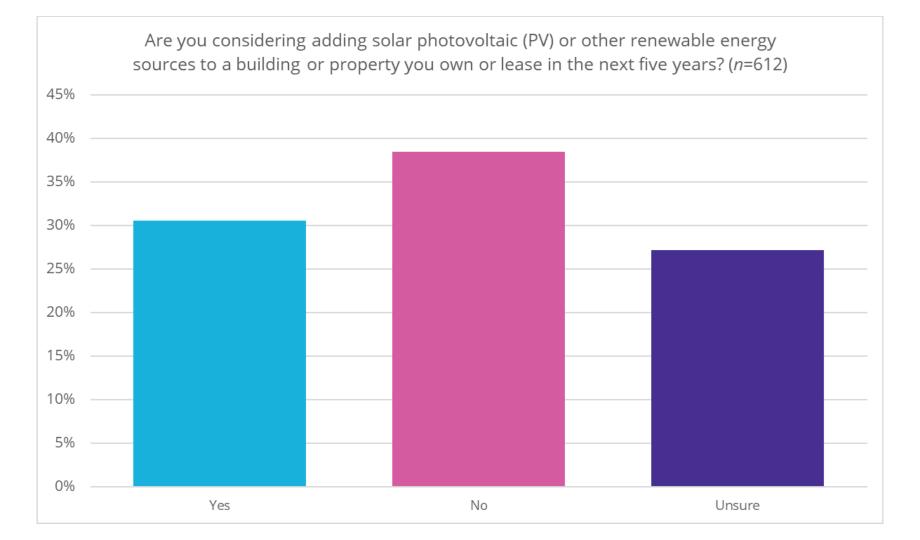


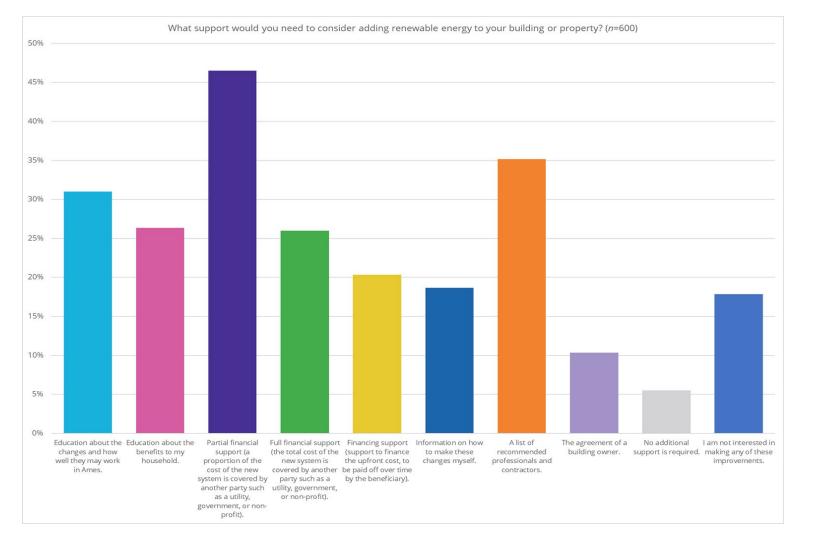


BIG MOVE THREE

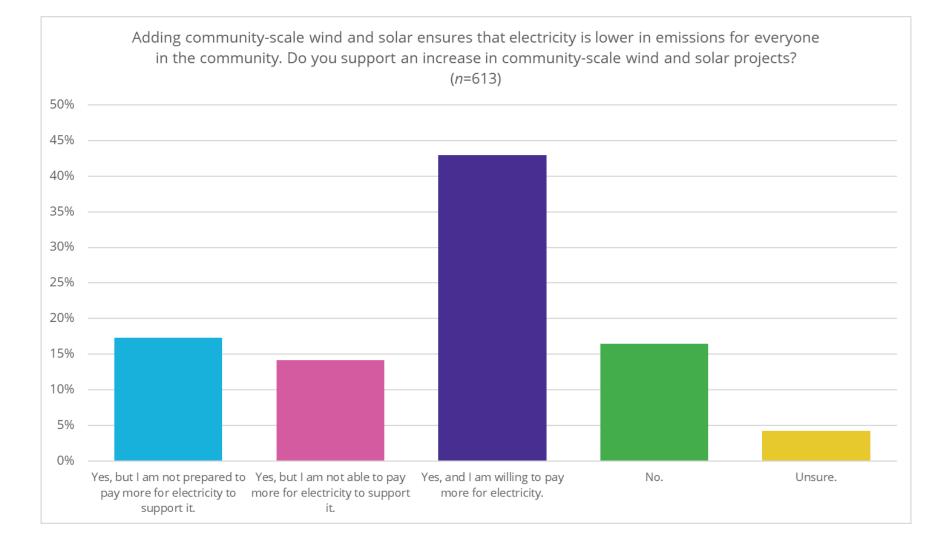
Renewable Energy Generation









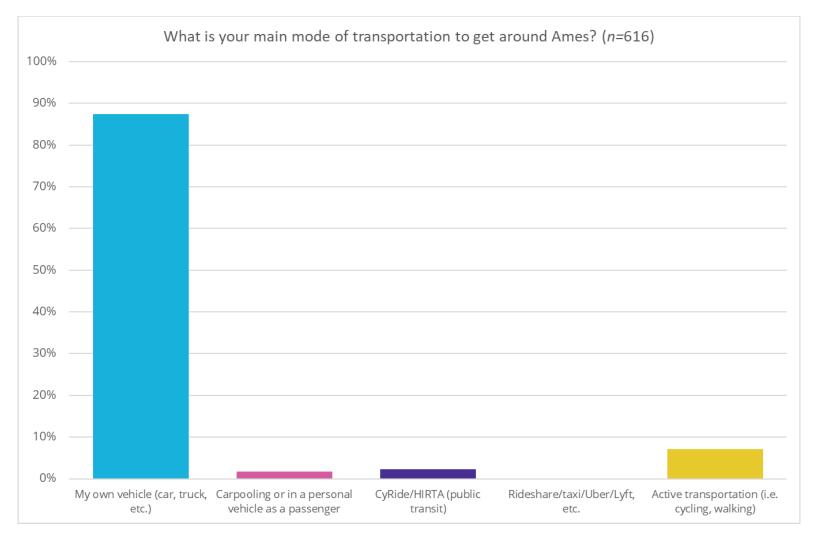


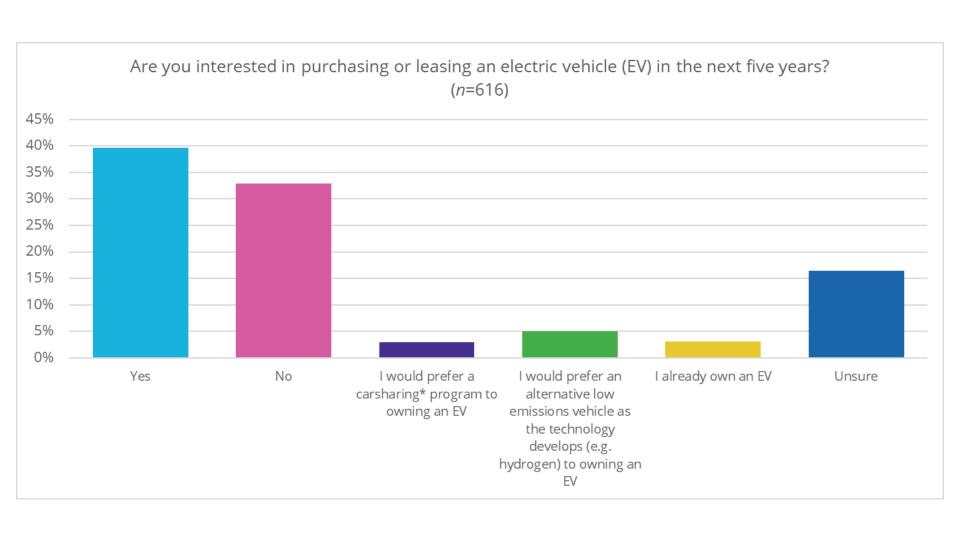
BIG MOVE FOUR

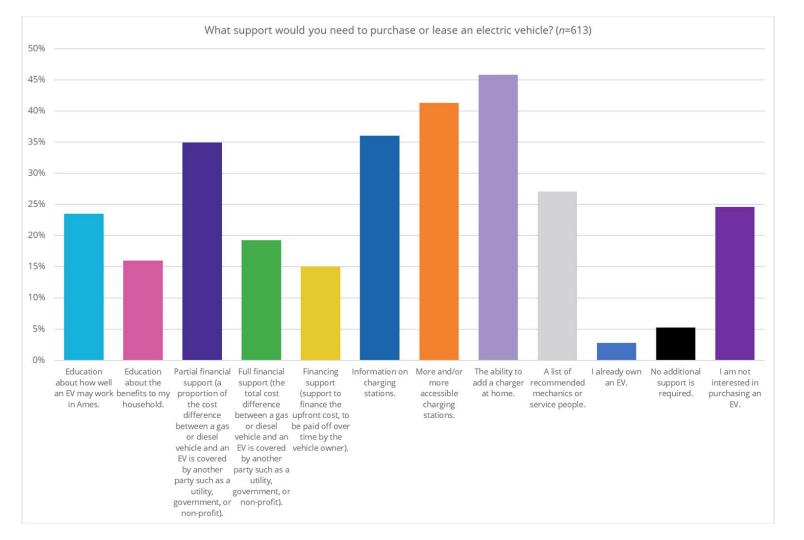
Reducing Vehicle Emissions

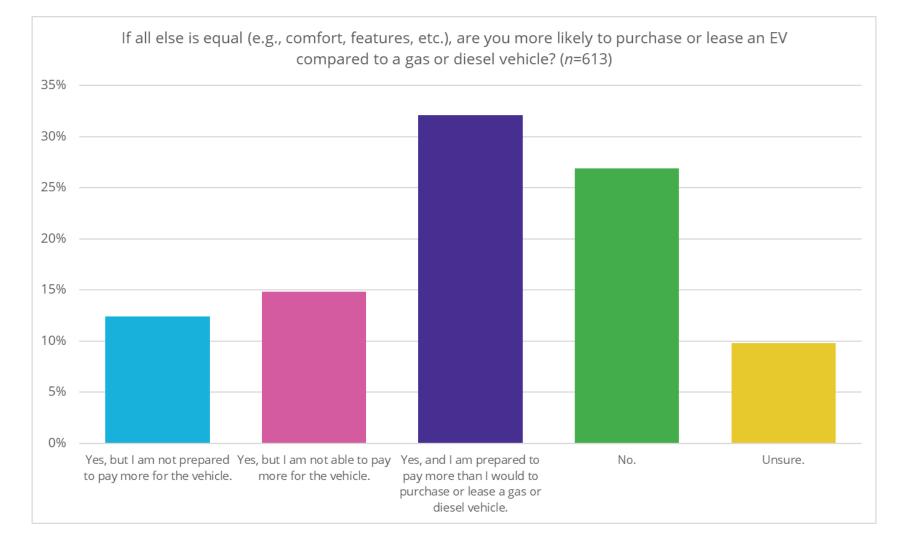










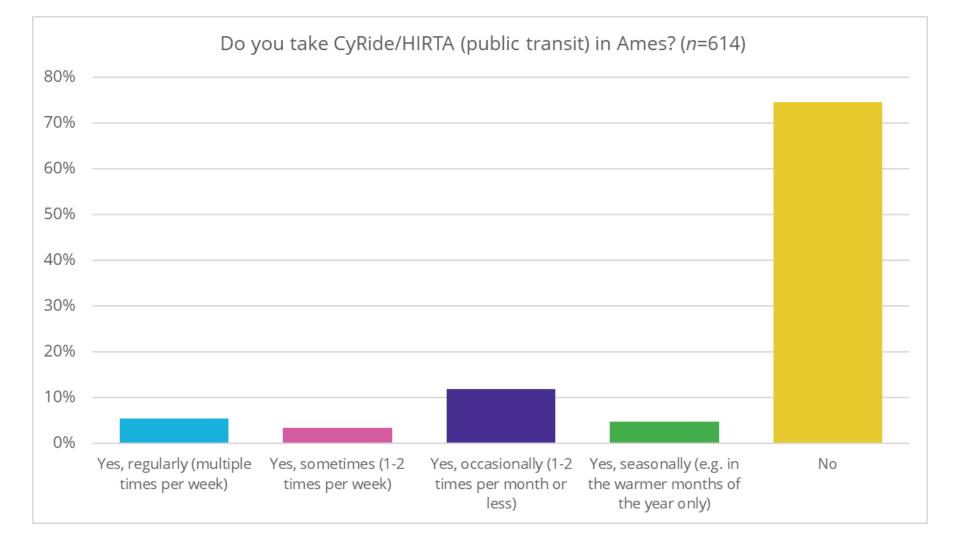


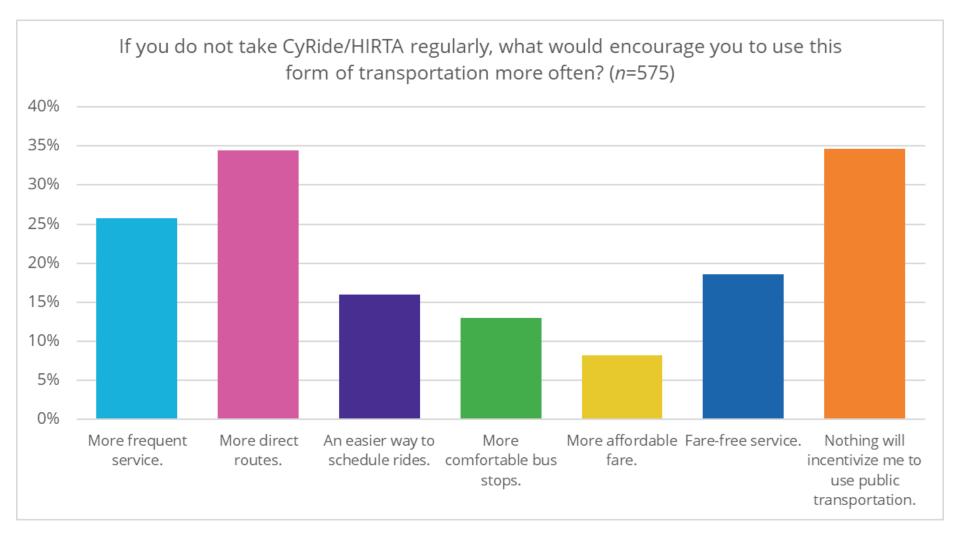
BIG MOVE FIVE

Increasing Active Transportation and Transit Use

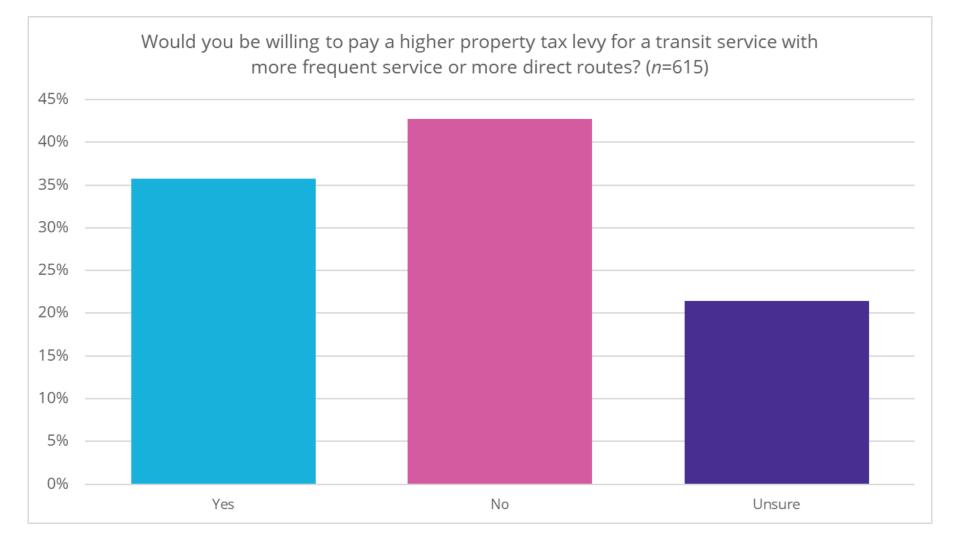


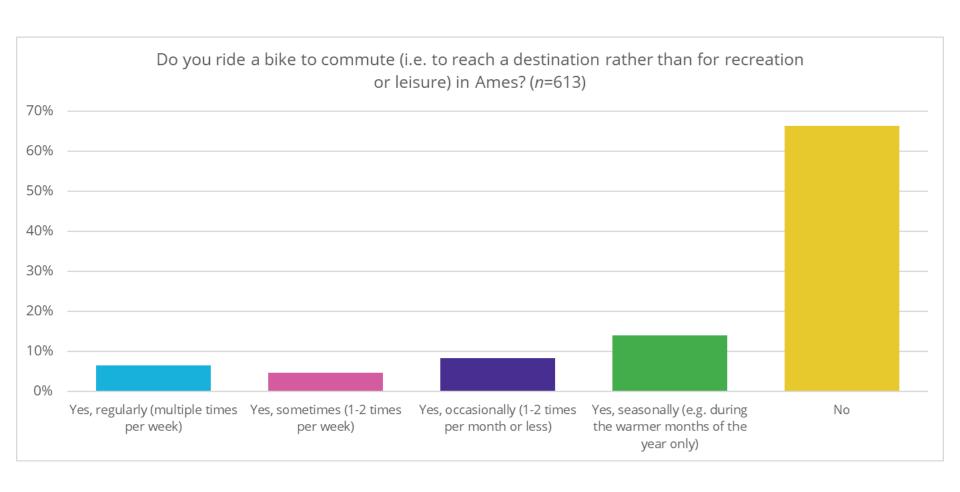


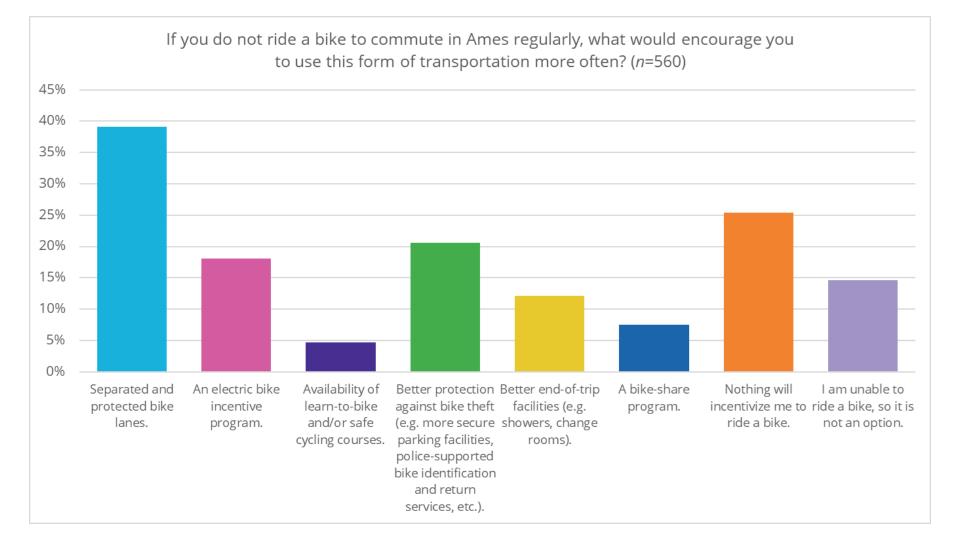


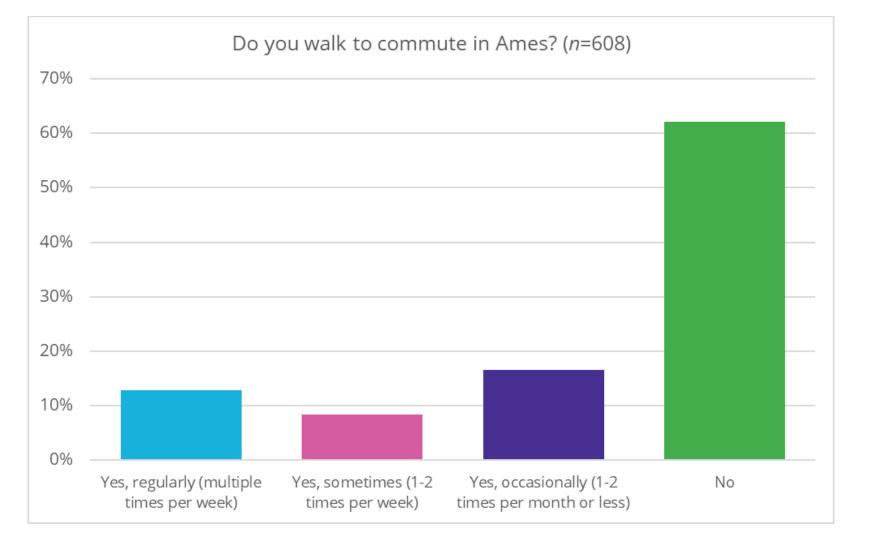


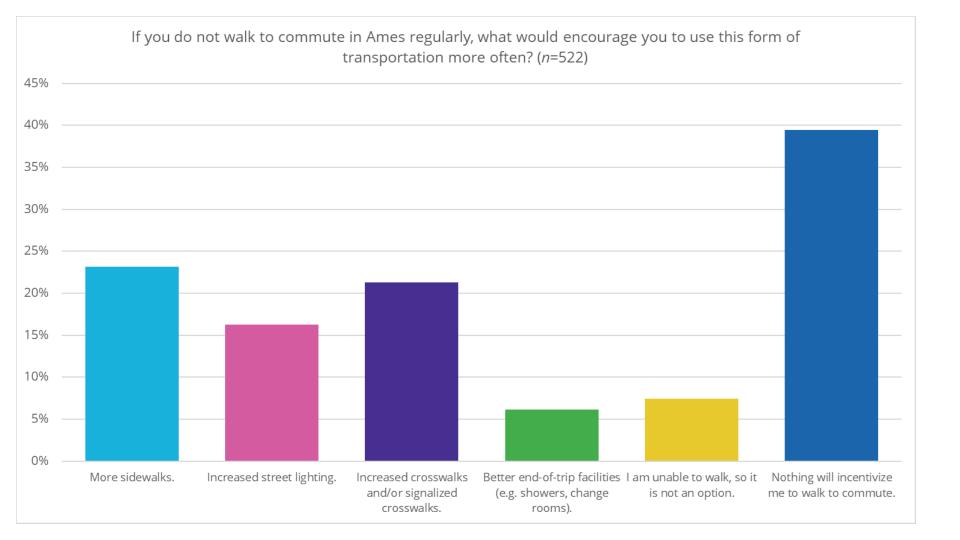


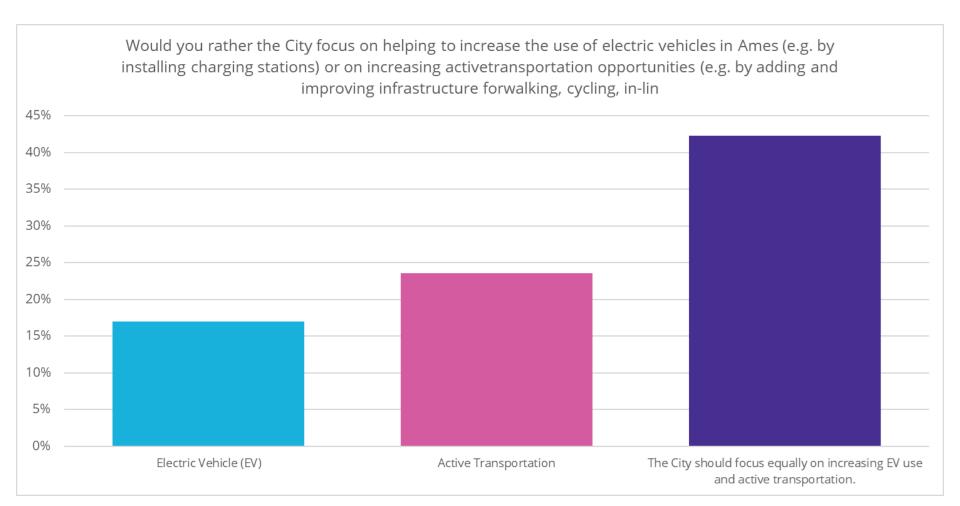










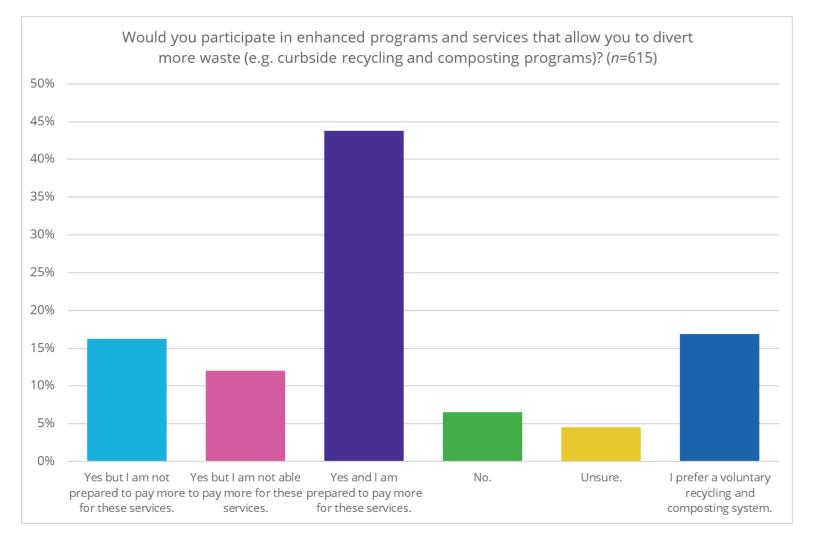


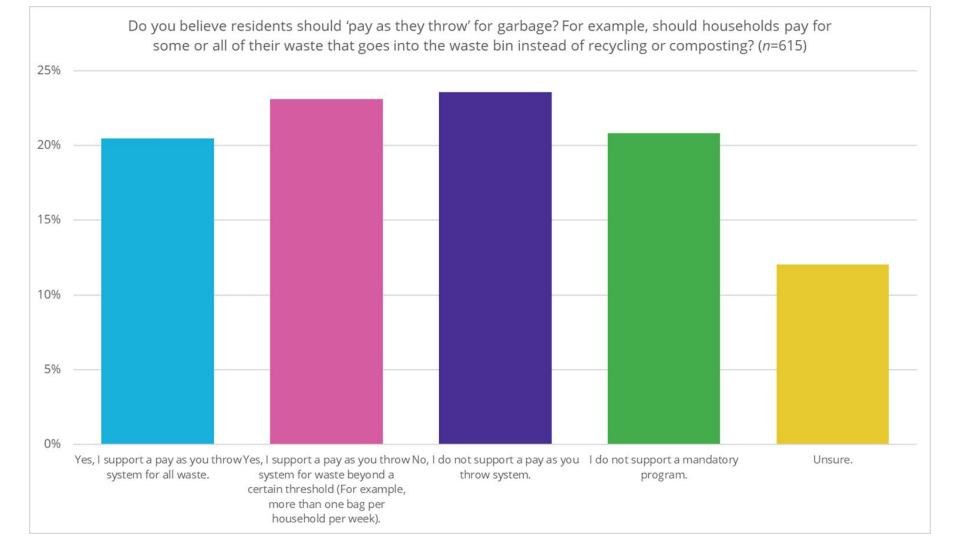
BIG MOVE SIX

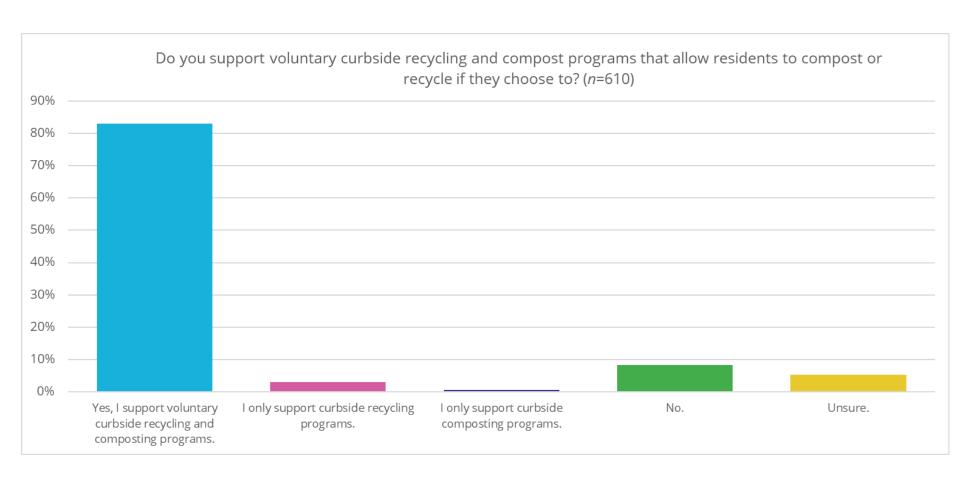
Reducing Waste Emissions

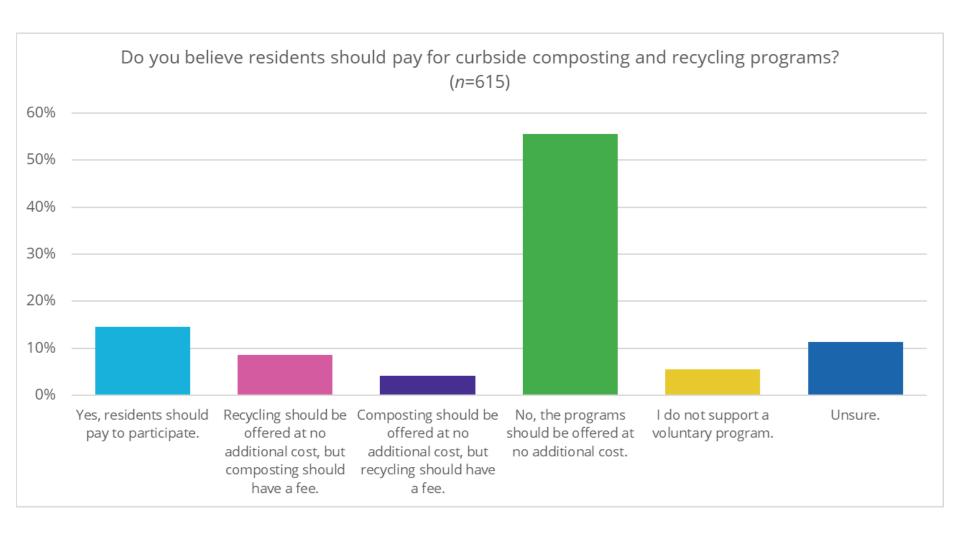




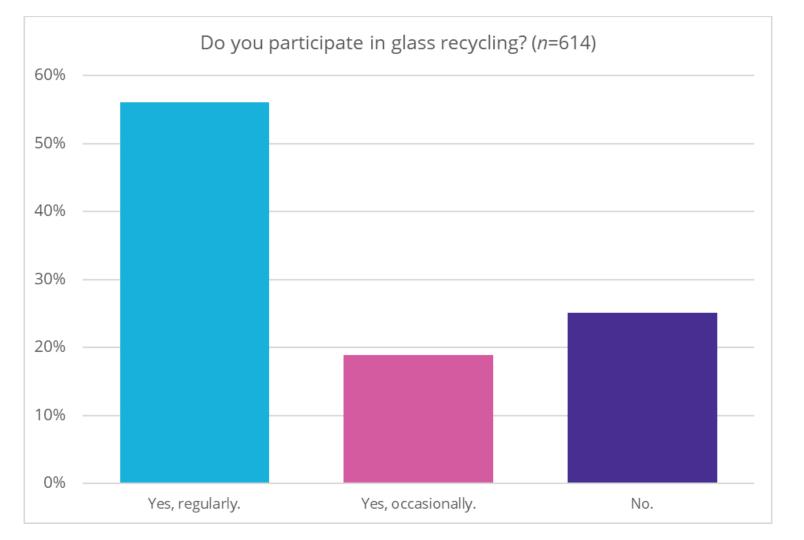


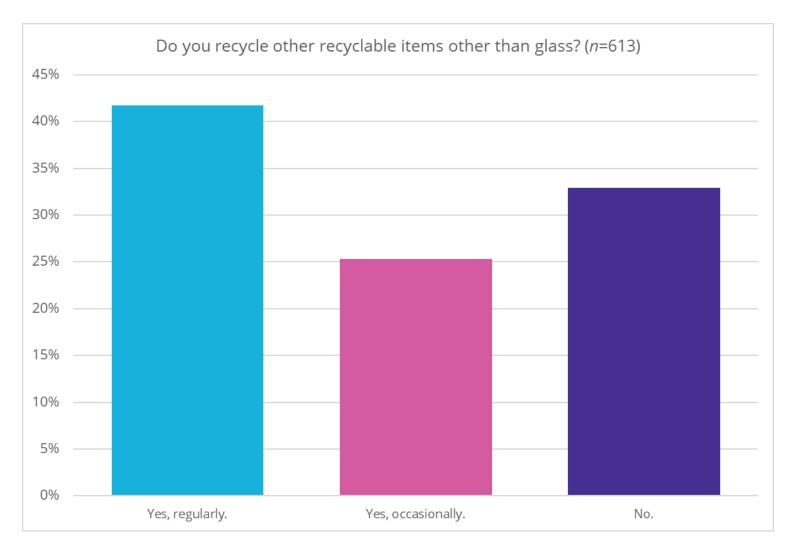


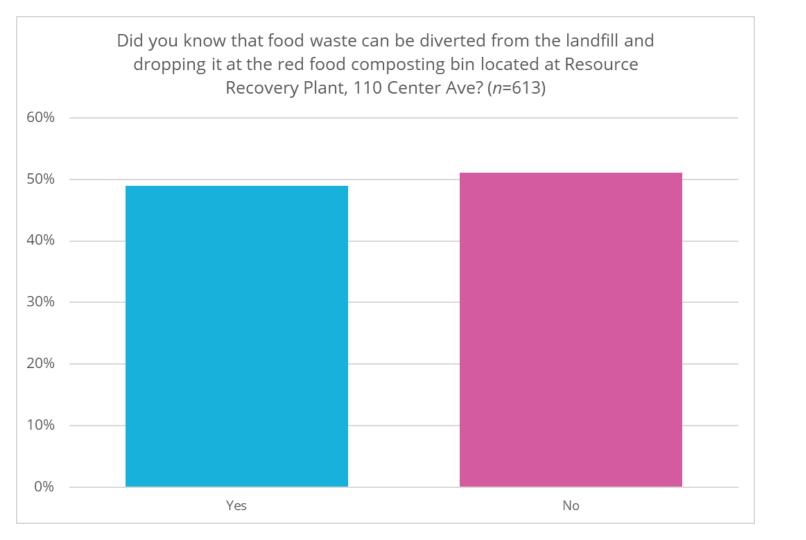


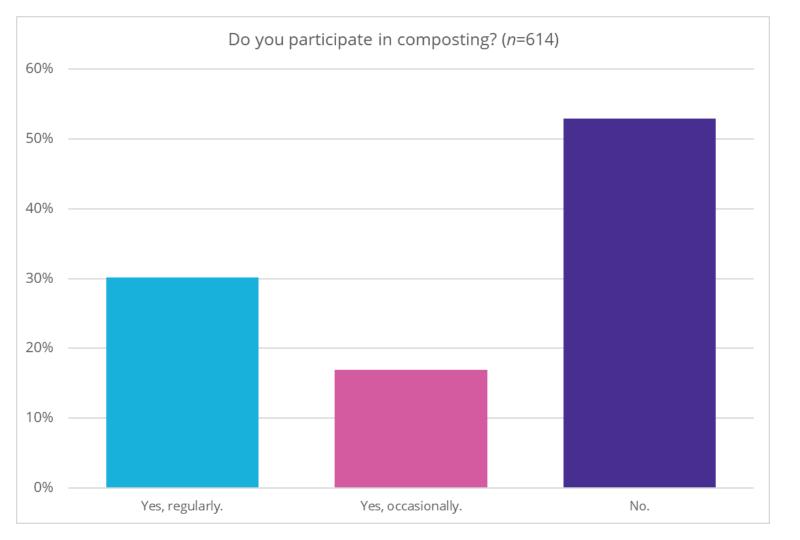










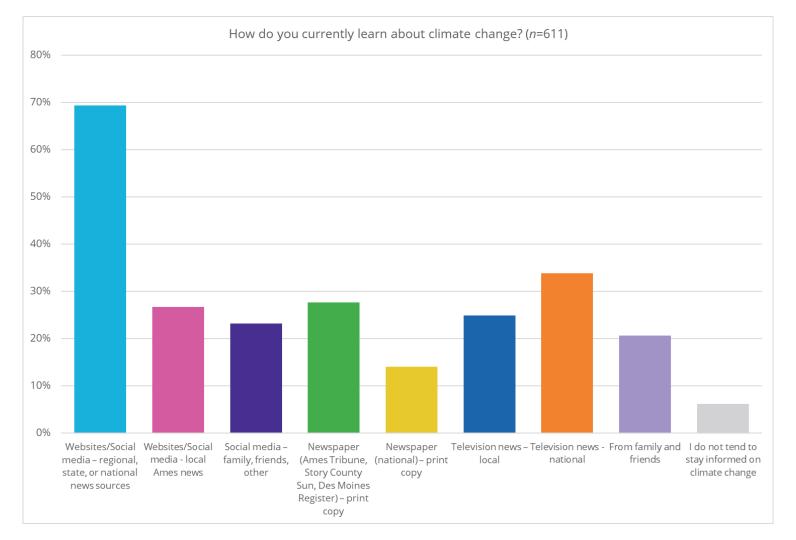


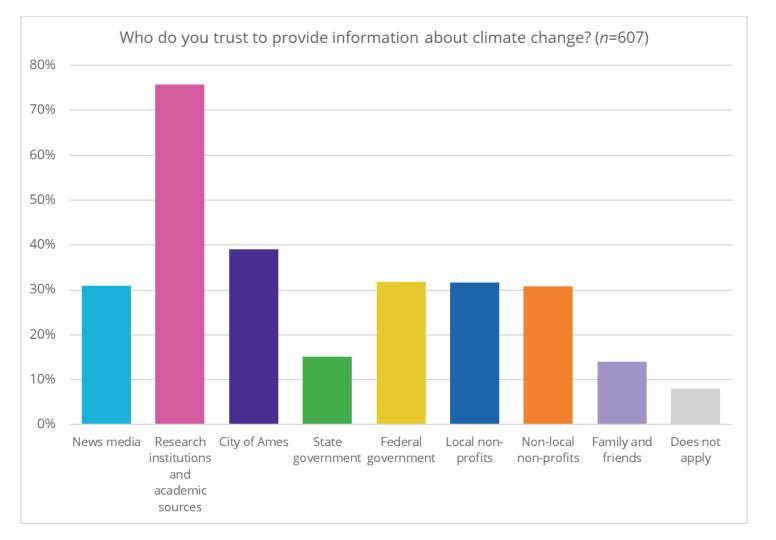
SECTION TWO RESULTS

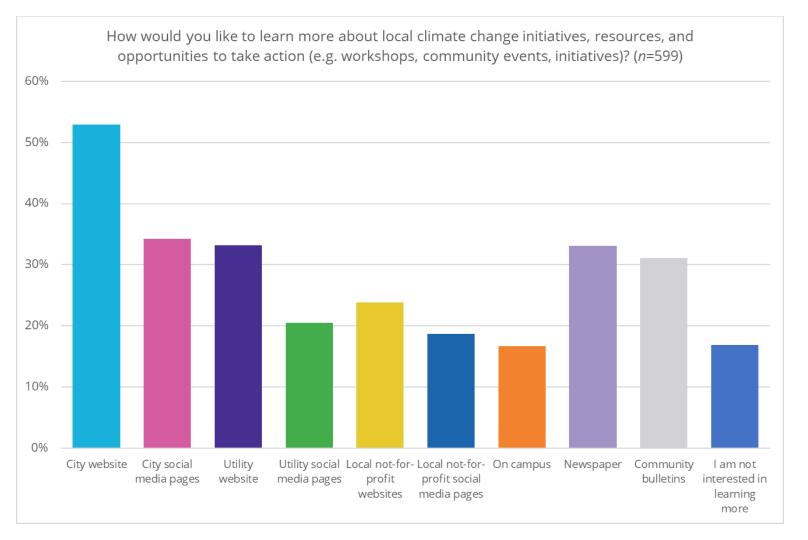
Information and Resources











SECTION THREE RESULTS

Additional Input



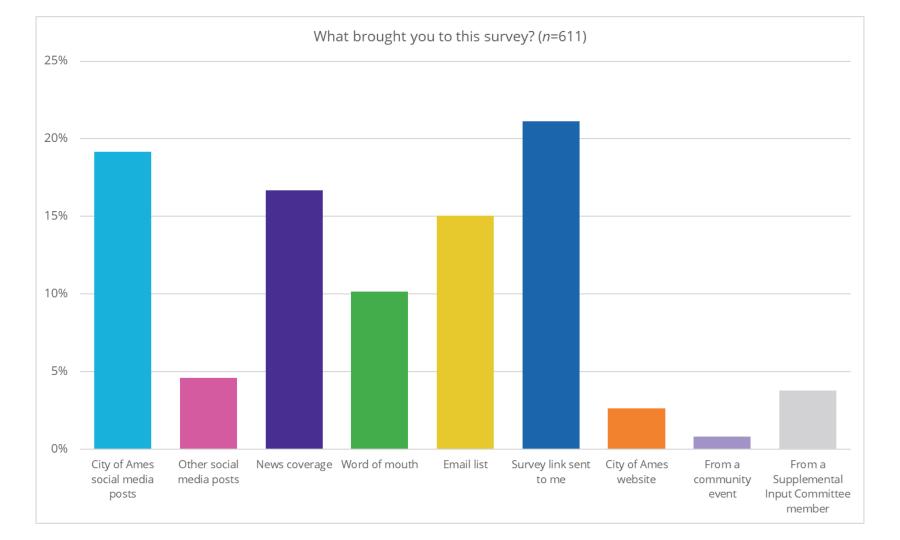


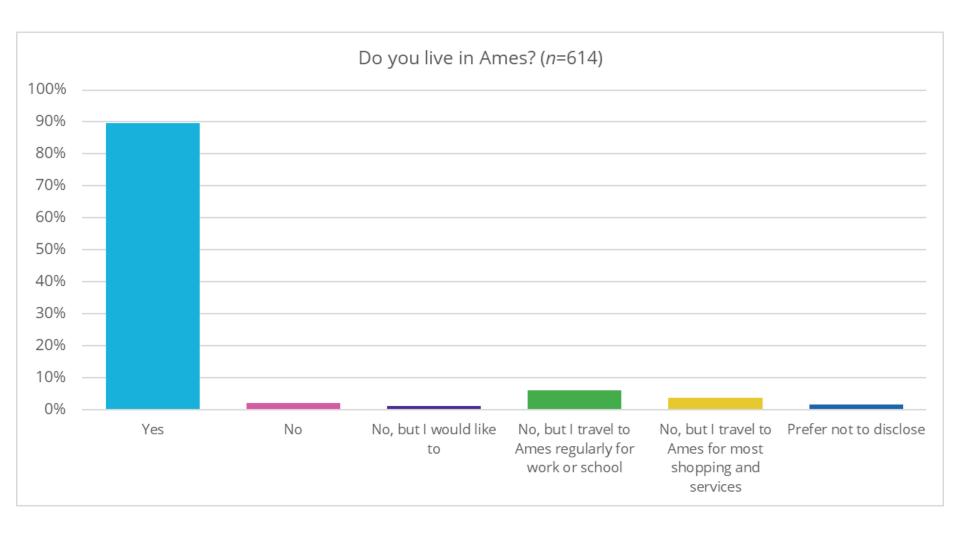
SECTION FOUR RESULTS

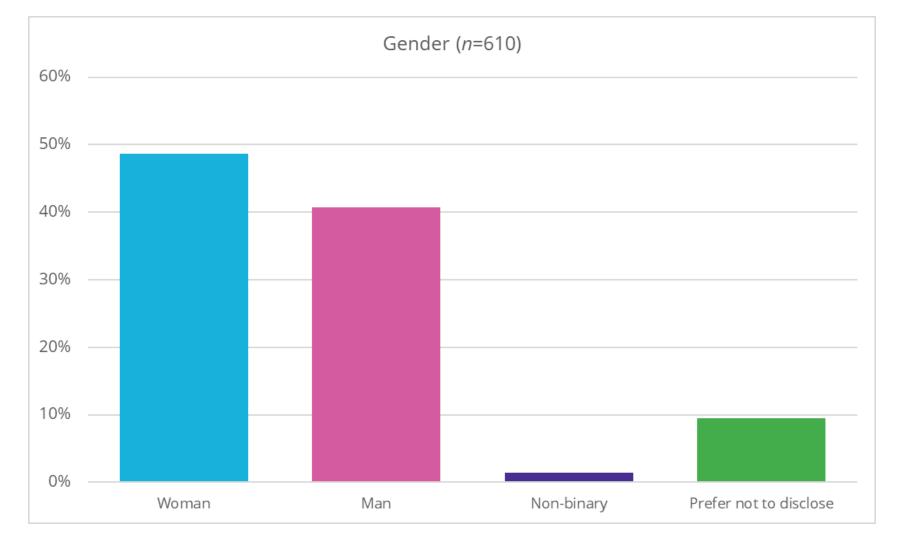
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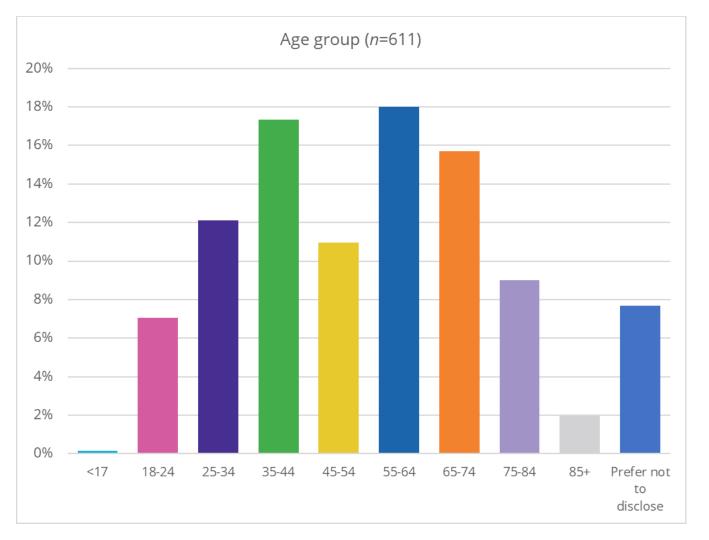


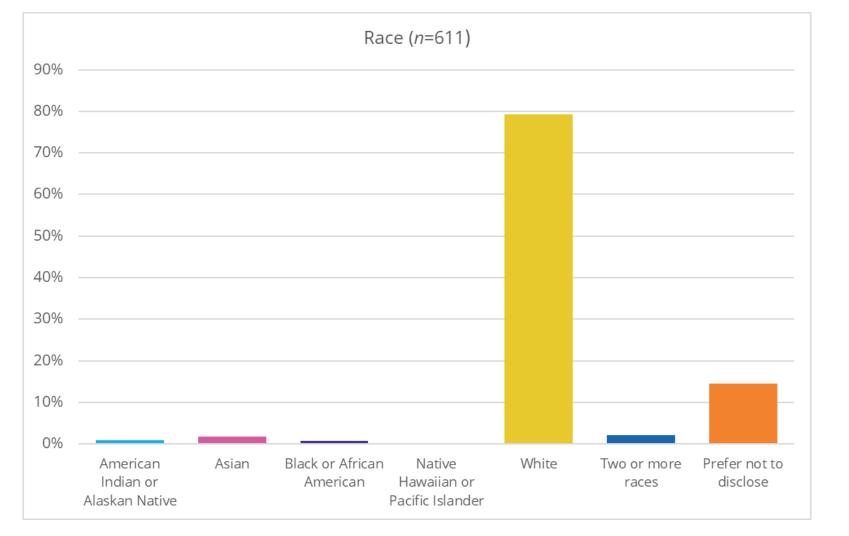


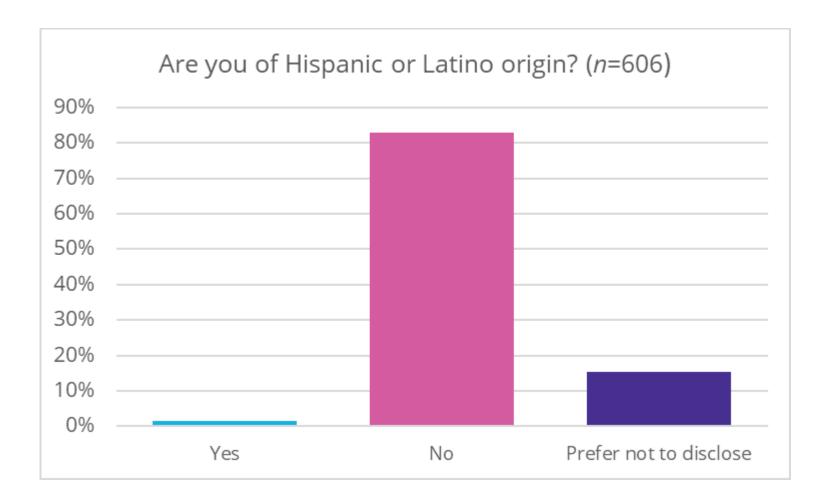


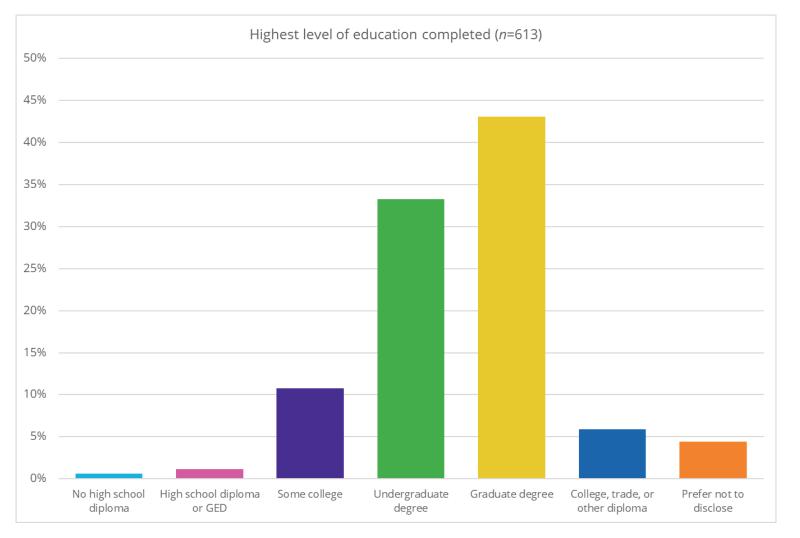


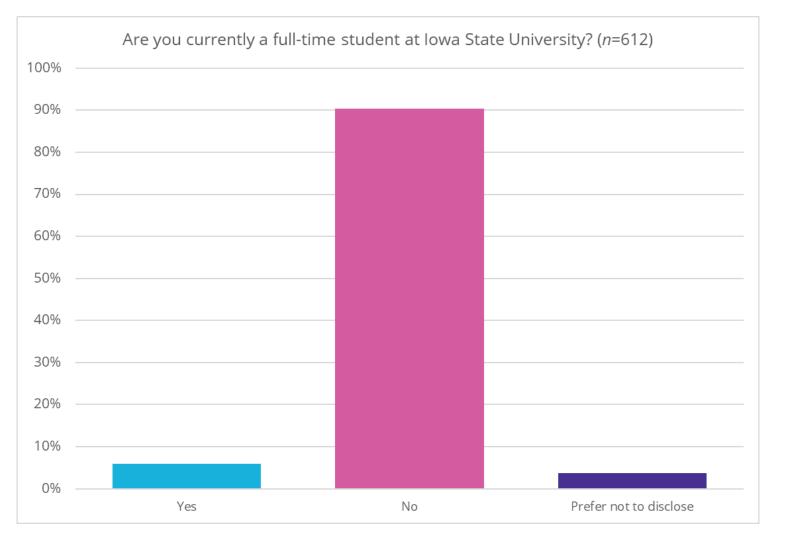


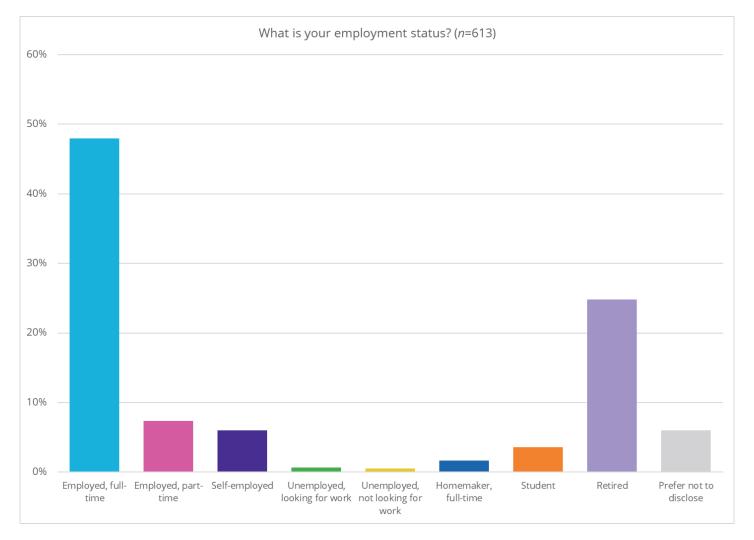


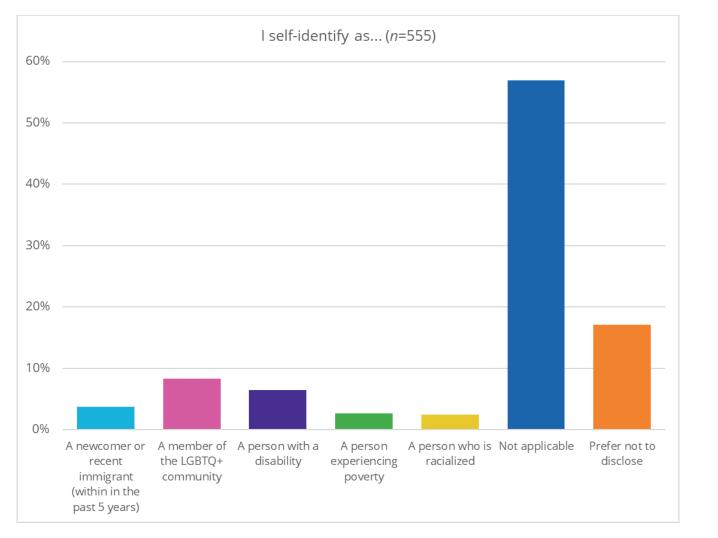


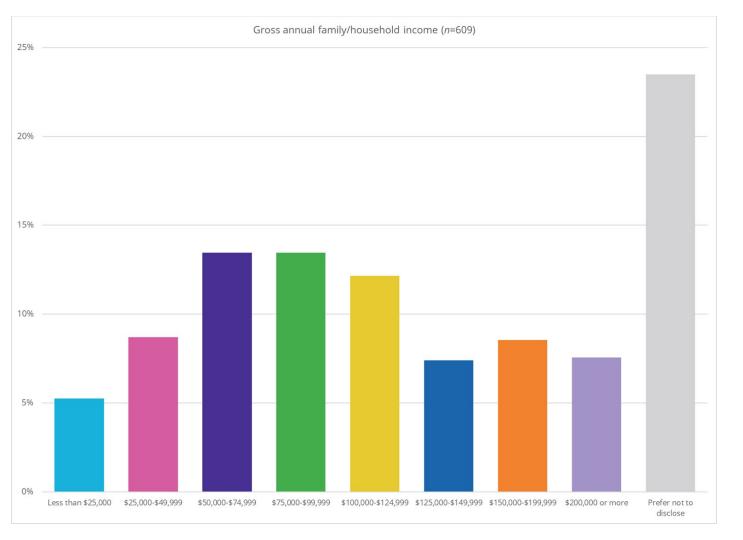


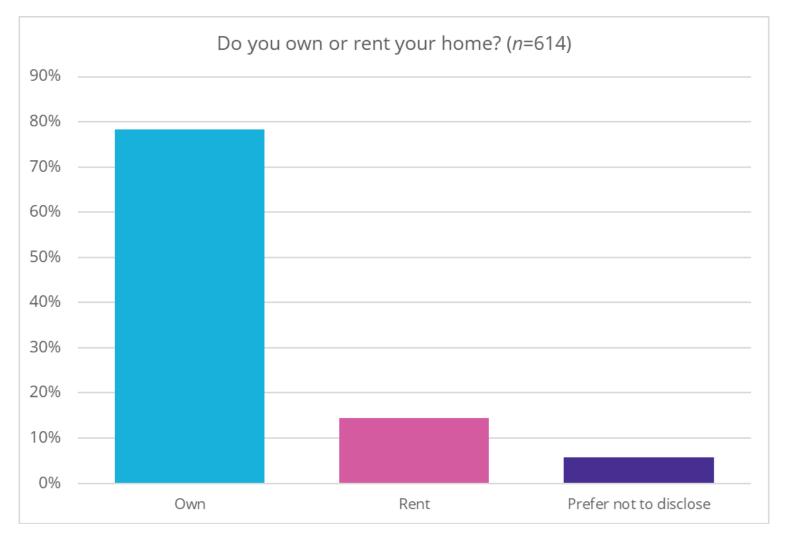












What is your initial reaction to the low carbon pathway and the results it is projected to produce?

That people are going to complain about how much money it will cost.

Any effort sounds great. Glad we're taking a relatively strong approach

Good but need more reduction for ISU and transportation to meet 2030 gpal

Utility is key

I see challenges - particularly in transportation and the slow turnover of vehicles

honestly, a little disappointed. Climate change is actively happening, big changes HAVE to happen, and for that to happen people HAVE to be uncomfortable.

Given that we have ISU which Ames has very limited jurisdiction over, I think it's pretty promising

Unsure at this time

Some of the actions seem unrealistic and we still don't reach target—very disappointing. Also feels like there are opportunities (notably sequestration) that aren't being leveraged.



What is your initial reaction to the low carbon pathway and the results it is projected to produce?

It's not enough. There is a cost to NOT meeting the target, too. It's just not quantified.

Adequate pacing and timeline but not sure about how the community will react

Encouraged by retrofitting interest

Disappointed but I understand

Skeptical as to wide participation

Lots of building retrofits is good

It is unrealistic. These are huge costs - housing is skyrocketing and adding more costs doesn't help.. Electric vehicles can't be made fast enough - electric grid can't handle the projected load

Disappointed in slim focus on just emissions, need more holistic approach -sequestration and climate resilience

I'm glad we're at least doing something and hope we can continue to do more if there's community will



What is your initial reaction to the low carbon pathway and the results it is projected to produce?

Cost ok but some people may oppose this

Is there a way to retrofit existing personal Vehicles

We need a cost-benefit analysis: what are the costs of doing nothing?

Good goals for retrofit, new buildings, waste reduction

Interesting. Estimated carbon fee and dividend impacts would be very interesting for even modest scenarios.

Sometimes these costs are going to be taken regardless. Do these projections consider the costs that would happen without reducing emissions?

People want positive change

Politics not helpful



How does it align with feedback you have heard from your sector to date?

EV and retrofit fits my sector

Waste reduction

People want positive change

Need for partial financial help

Waste reduction is wanted.

They will balk at cost

Transportation is a huge challenge.

The university is trying to move toward a low-carbon scenario, but not clear how the magnitudes of changes match these goals.

The equity considerations are being somewhat addressed



How does it align with feedback you have heard from your sector to date?

That we have to do something, so let's start somewhere.

Lack of nature-based solutions disappoints my sector

A lot of people say they don't know enough

People skeptical about battery issues.

People want our institutions to lead us and help us make big changes together

We need to start somewhere

Will still want more detail on how to implement

People are looking for city leadership

We need to more fully market and incentivize active transportation



How does it align with feedback you have heard from your sector to date?

We knew there would be costs. This model does not capture the cost of doing nothing.

Build on good work Ames is already doing

I felt like the survey results aligned well with much of what I heard.

Heavy need for ed on changes, why change and up front costs have many benefits long term

Are we sure we're utilizing all options? We could do WAY more biodiesel now

More people are just not convinced of climate change and feel it is political rather than science.

City has to overcome inertia and start taking actions. Even little steps would be encouraging

Plan largely focused on infrastructure.

Many having noted need for behavioral change.



How does it not align with feedback you have heard from your sector to date?

No nature based solutions

New construction goals are unattainable

It relies a lot on people doing the right thing. Which people often don't do...

Concerned the amount of action will be overwhelming

Retrofitting university buildings does not seem to be viable.

People want more definitive action and creativity.

Anything is possible if there's collective will and leadership.

Not as heavy as hoped for on active transportation

A want more active transportation and EV options. Education needs to be extremely worked on. Education should be the first thing on the list.

I hear people talk about needing more active transportation but the survey reflects people can't be convinced to change their transportation methods



How does it not align with feedback you have heard from your sector to date?

It should include an adaptive implementation plan

Need to get people out of fossil fueled cars

Work to convert those who are "unsure"

More folks completely resistantBut still significant support

Really need more EV stations

Are there adequate markets for recycling

Plan largely focused on infrastructure. Many are anticipating some incorporation of behavioral change.

Too little emphasis on transportation, more awareness programs, focus on resilience methods, lowering the individual impact

Need to focus on low hanging fruit and really juice it, whereas some things that are more difficult may be avoided



What is going to be a challenge and/or what is pushing too far or too fast?

Working with lowa state given its unique relationship with Ames.

High cost perception

Convincing people to take transit when its really cold/hot

Getting the community as a whole to take significant/costly/complicated action.

turnover of assets before end of useful life

Switching to biofuels has been raised as a concern because of issues with extreme cold

The cost will present a challenge.

Garnering community support is difficult and hard to do later in the process

Getting people out of their cars before end of life cycle



What is going to be a challenge and/or what is pushing too far or too fast?

ISU has a carbon reduction plan going on, and it is not clear how well that will align with city interests nor how adaptable it is to city interests.

Net zero in new construction by 2026 is too fast. We are told our current transformers aren't suited for powering homes and charging EV's

All growth will involve pain, we need to try

Challenge is helping homeowners come up with cost to convert

Moving the "unsure" into supporters

ISU not turning to more clean renewables

Being equitable, not everyone can afford higher cost of housing or transportation

Impacts of climate change are going to continue to be increasing challenges to goals of society.

Getting agreement among all sector of the community, especially the typically underrepresented (usually silent) groups.



What is going to be a challenge and/or what is pushing too far or too fast?

Retrofitting buildings presents a lot of pushback because of past experience with building codes, permits, inspections etc Getting more people to use active and shared transportation

Education on climate change.

Engaging the marginal

Physical conversion requires more time based on resources than plan

Lag time for installment of infrastructure and availability based on increased demand

Providing appropriate incentives that result in desired actions

Residential efficiency seems like a stretch. It would be helpful for public to understand the many ways it can be approached e.g., through innovative financing, group purchasing, etc





Having seen the community engagement results what feels really well aligned with your sectors input at this point? And with the low carbon scenario?

A need for more education

Interest in moving forward

Need for new building codes

People are ready for home retrofit and recycling with financial supports

Little desire to use public transit

Education. Education. Say it again for the people in the back, education!!!!!

People seem generally supportive but still have no concrete idea of what it's going to take

People are willing to pay more for better things

University would be very interested in net-zero new construction.





Having seen the community engagement results what feels really well aligned with your sectors input at this point? And with the low carbon scenario?

A somewhat well done balance between personal convenience and everyone being willing to do their part

New waste solutions

The importance of building retrofits, importance of renewable energy, and importance of changes to our waste management systems all seem very well aligned.





Having seen the community engagement results what does not feel well aligned with your sectors input at this point? And with the low carbon scenario?

Vehicle sharing and active transportation improvements

Surprised at the responses that say they would pay more for utilities

More talk about making green transportation accessible in my sector

Unwillingness to change transportation methods

Cost

It appears it will challenging to ramp up capacity to implement changes at required rate

Need to realize that things change over time. Electric cars aren't super attractive now but in a few years they likely will be

Unsure people

Sunk costs is always issue opposing change





Having seen the community engagement results what does not feel well aligned with your sectors input at this point? And with the low carbon scenario?

Better information as to how to determine approx cost of retrofit items

40% not plan to buy, rent, or lease space in next 5 years

I have heard lots of support for investment in active transportation in Ames, especially considering we are a university town.

People won't change car culture

Ames transit designed around transport to campus. Much harder to serve scattered emplo you ment

There may be support for various aspects, but there is concern about how to pay for it on a limited budget. Will it force people out of Ames due to cost to live here?

Concern regarding overall participation /input



From the perspective of your sector, what are the top three opportunities for getting started on implementation?

Decrease reliance on personal nonEV cars

Use ed to move the "unsure" into supporters

Waste reduction, use of EV's, building retrofits

City should buy lots of renewable energy on large scale (with plans for much more than we currently need, because we'll be using more electricity in the near future) Anything that the city itself can control

More education is needed and desired2. People want help finding experts (list of contractors)3. Some financial assistance or incentives

Increased public transportation availability/useRetrofits in homesChange in transportation habits (better pedestrian/bicycle infrastructure)

Build on readiness for free curbside recycling and composting-low hanging fruit

Renewable utilitiesSequestration related to ag surroundings Education



From the perspective of your sector, what are the top three opportunities for getting started on implementation?

ISU: Reduced waste emissions, net-zero new construction, renewable energy,

Home retrofits/electrification, waste diversion/reduction, access to electric vehicles

Free Recycling and composting programs Shared vehicle program Increase education of the community on climate change

More convenient composting

Don't invest in any infrastructure that doesn't serve the emission reduction goals

Would like to see City be the example then huge educational campaign

More awareness/education, equity in green infrastructure implementation, start with municipal changes (not personal)

Building retrofits/energy efficiency; renewable energy investment; and changes to our waste management.

Waste reduction, use of more public and active transportation



From the perspective of your sector, what are the top three opportunities for getting started on implementation?

Easy steps - 1 minimum efficiency standards for rental housing, 2 reduce waste burned in power plant to buy more from grid, 3 begin diversifying utility generating assets with more renewables

Build collaborative models to bring together sectors

Create holistic centralized strategies that are consistently applied. For example whenever retrofits are happening anyway (eg replacing siding) it can be done better (eg add Insualtion)

Viewing retrofits as good investment for aging structures as well as good for climate plan.

Mandate curbside collection of plastic

Finance and education

Increased help with residential conversions. Increased access to EVs Help get charging sites

Propose concrete rebate and tax credits for retrofit

How to implement deep home retrofits, creative financing, making the electric grid green



From the perspective of your sector, what are the top three challenges to address?

The state of Iowa government

Need more cheap renewable energy. And lots of it

Cost, buy in, lack of understanding

Education, equity, and our state government leaders:)

retrofitting of university buildings; energy consumption for cooling university buildings

Educating the public, managing the relationship between lowa state and Ames, the power purchasing stuff

Equitable implementation, keeping life normal while making strong changes, increasing community awareness

Non EV car Transportation, the unsure, and costs

Overcome the high level of climate change denial among members of one of the two major political parties



From the perspective of your sector, what are the top three challenges to address?

Education of public, affordability, cooperation between community schools and city

Need more leadership. Create positions whose jobs it is to carry out the plan

Finance and education about how

Electric distribution deficiencies, costs to implement, not enough people willing to work

Communication

Our governor:)

Better message to combat political misinformation.

Customization is a challenge. Each house is different. If a hire expert can help consistently apply changes it will help

Knowledge to implement deep home retrofits, large amount of renewable energy on grid, creative financing for home retrofits



From the perspective of your sector, what are the top three challenges to address?

Education; accessing financial levers for community investment; and the climate crisis itself will present challenges to society.

Reward those that buy in

Offer up incentives.

Not convinced of need or the chance of success

Have people volunteer to help educate and build systems. Can build a community solar system with volunteers



If Council were to adopt this pathway on Tuesday, April 5th, how do you think your sector members would feel?

To be honest a tad disappointed.

I think my sector would be very pleased.

Challenged - not sure how Council goal aligns with university's ongoing plan.

Excited but pensive. Need leadership to lead the way forward

Like that change is being made, unsure on how possible/effective it will be

Let's get started and the sooner the better.

Excited that we are moving forward and trying to address the issues

Still confused, somewhat deflated, lack of trust that we know what we're doing

Ok but disappointed there are no nature-based and resiliency solutions



If Council were to adopt this pathway on Tuesday, April 5th, how do you think your sector members would feel?

Somewhat okay but disappointed with the lack of prioritization of transportation needs

Relieved with the fact that there is at least a plan, but maybe some will choose to abstain from making opinions about the plan before they see concrete results

Impatient that change is so slow

Take it to the statehouse to overrule

Supportive of the intent, but very challenged with regard to implementaion

Happy with the goal

They would be ok because they understand all of the moving parts and balancing act with cost

Residential sector- some will be pleased about action, some will not support the cost, some will want more

Many of my sector members feel the urgency of the climate crisis and will want more ambitious action. However, lots of hope to keep the conversation positive and constructive.



If Council were to adopt this pathway on Tuesday, April 5th, how do you think your sector members would feel?

Glad future generations and social justice are being considered

Hopeful about potential incentives and other supports for change

Thanks

