



Calgary



# 2022 Citizen Perspectives Survey Report Climate Change

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**Prepared by:**

Corporate Research Team  
Customer Service & Communications  
The City of Calgary  
[research@calgary.ca](mailto:research@calgary.ca)



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# Background & Methodology

## Background

To help support City decisions, The City of Calgary surveys citizens about their opinions, preferences and attitudes. To help in “making life better every day” for Calgarians, The City conducts the Citizen Perspectives Survey at various intervals throughout the year. In 2018, The City ran a wave of the survey on the topic of extreme weather and home energy efficiency. In 2019, the survey was conducted again but with the addition of questions about climate change. The survey, including the new climate change questions and minor revisions, was conducted in 2020, 2021 and 2022. This report presents the results of the 2022 survey as well as results from the previous surveys for tracking purposes, where applicable.

## Methodology

The survey was conducted by Advanis October 11 – 20, 2022 with 500 Calgarians (aged 18 years or older) via phone using random digit dialing (RDD). The survey was conducted using numbers from both landlines (15% of completed surveys) and cell phones (85%) to obtain a random and statistically representative sample of Calgarians. The survey averaged 15 minutes in duration. The margin of error (MOE) for the total sample of n=500 is  $\pm 4.4$  percentage points, 19 times out of 20.

To ensure the data were gathered from a representative group of Calgarians, sample quotas were set by age, gender, and city quadrant of the general population aged 18 and older. Data were then weighted to the 2019 Civic Census for age and gender.

Where applicable, statistically significant differences from one year to the next are noted with:

- ↑ Statistically higher than previous year
- ↓ Statistically lower than previous year

Survey	Data collection dates	n=
2022	Oct 11 – 20, 2022	500
2021	Nov 22 – Dec 1, 2021*	500
2020	Oct 19 – 29, 2020	500
2019	Sep 16 – 23, 2019	504
2018	Sep 11 – 21, 2018	500

\*In 2021, data collection took place after Calgary City Council voted in favour of declaring a Climate Emergency on November 15, 2021.



# Highlights

- Consistent with results dating back to 2018, the majority of Calgarians think the current state of Calgary's environment is 'good,' are satisfied with the job The City is doing to protect the environment and with The City's programs and services aimed at helping Calgarians reduce their environmental impact.
- On par with the 2021 survey results, the majority of Calgarians:
  - Agree they are concerned about the causes and impacts of climate change and we need to act now to address them;
  - Agree they are taking action to help prevent climate change, they want to do more personally and Calgarians should be doing more;
  - Agree climate change is caused mostly by human activities and their individual actions contribute to global climate change; and
  - Support the city (municipal government and city residents) moving to net-zero emissions by the year 2050.
- Despite concern about climate change, a small majority of Calgarians agree they are taking action to prepare for a changing climate.
- Consistent with results from 2021, a slight majority think The City should be doing more than it is to address climate change.
- Since 2018, there has been an increase in the proportion of Calgarians who think there will be more heat waves/extreme heat events, droughts, hailstorms, wildfires/smoke, severe winds and tornados in the next ten years. There has also been an increase in the proportion of Calgarians who are concerned about the impact extreme weather events are having or might have on their life.
- Female Calgarians are more likely than their male counterparts to be concerned about climate change, to think we need to act now to address it and to agree their individual actions contribute to global climate change. They are also more likely than males to say they have been negatively impacted by extreme weather events in the past five years, to be concerned about the impact of extreme weather events on their life and to expect there to be more extreme weather events in the next ten years.

# Detailed Findings





## Perceptions of Calgary's Environment and The City's Protection Efforts



# Summary: Calgary's Environment

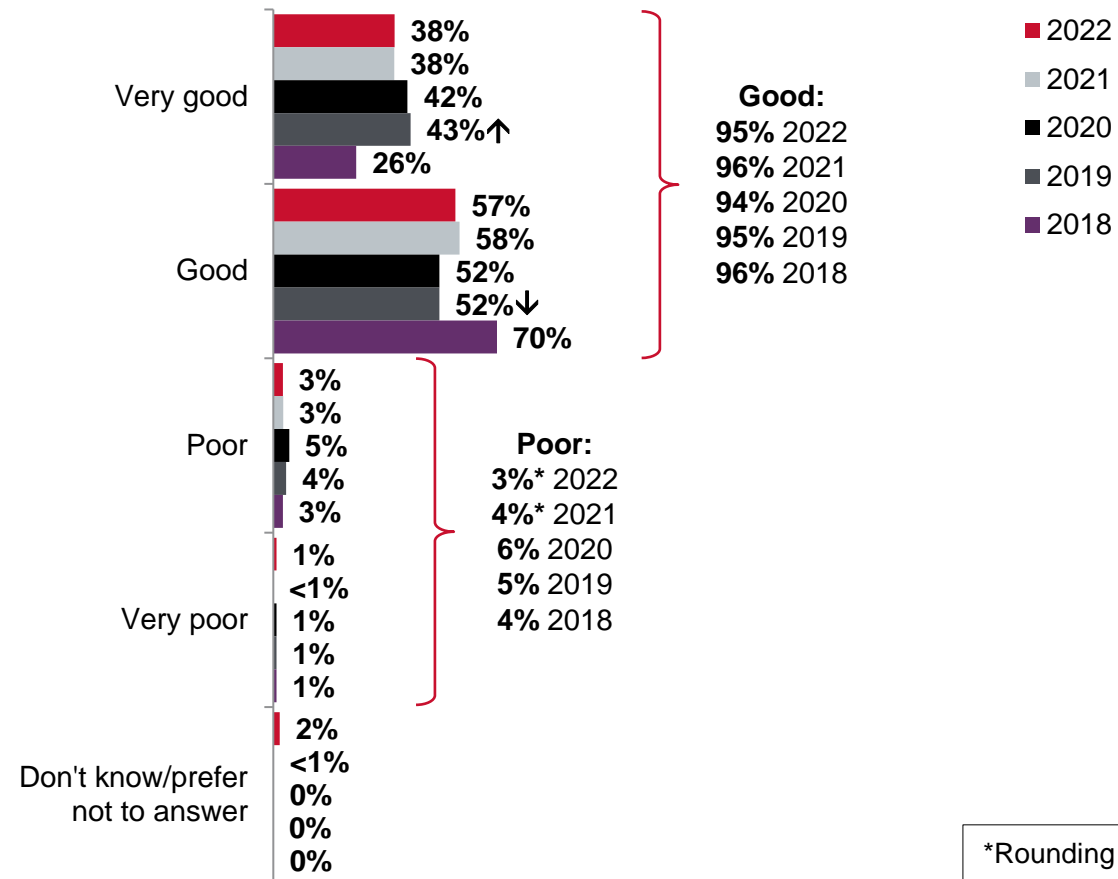
**The majority of Calgarians rate Calgary's environment as good and are satisfied with The City's efforts in protecting the environment and helping residents reduce their environmental impact.**

- Nearly all Calgarians (95%) rate the overall state of Calgary's environment as 'good' ('very good' or 'good'), consistent with results since 2018.
- Around four-fifths (82%) of Calgarians are satisfied ('very' or 'somewhat') with the job The City is doing to protect the environment, on par with results since 2018.
- Three-quarters (75%) of Calgarians are satisfied ('very' or 'somewhat') with The City's programs and services aimed at helping residents reduce their environmental impact, consistent with 2021 but down from 83% in 2019.
  - Those who were not born in Canada are more likely than Canadian-born Calgarians to be satisfied (82% vs. 72%, respectively).



# Perception of State of Calgary's Environment

Perception of the Overall State of Calgary's Environment



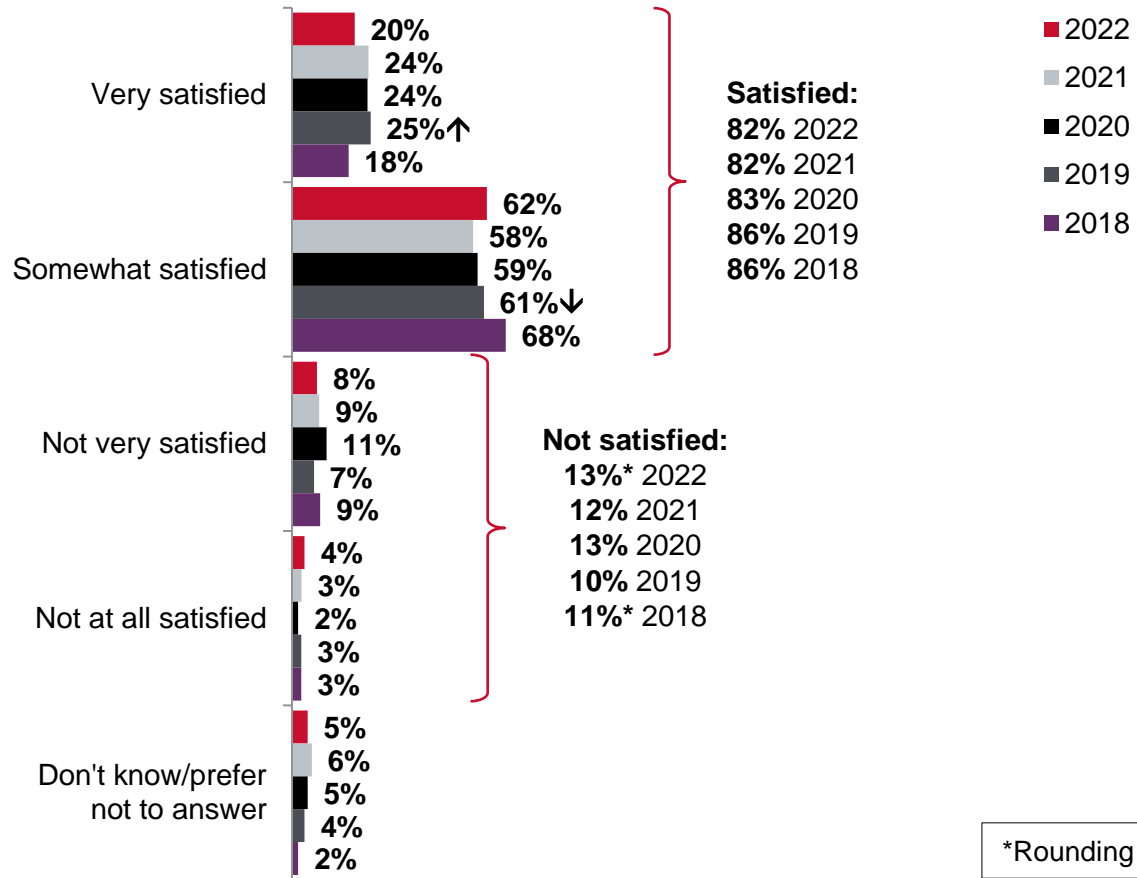
Thinking about things such as air, water, and land quality in the city, how would you rate the overall state of Calgary's environment today?  
 Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)





# Satisfaction with The City's Protection of the Environment

Satisfaction with the Job The City is Doing to Protect the Environment



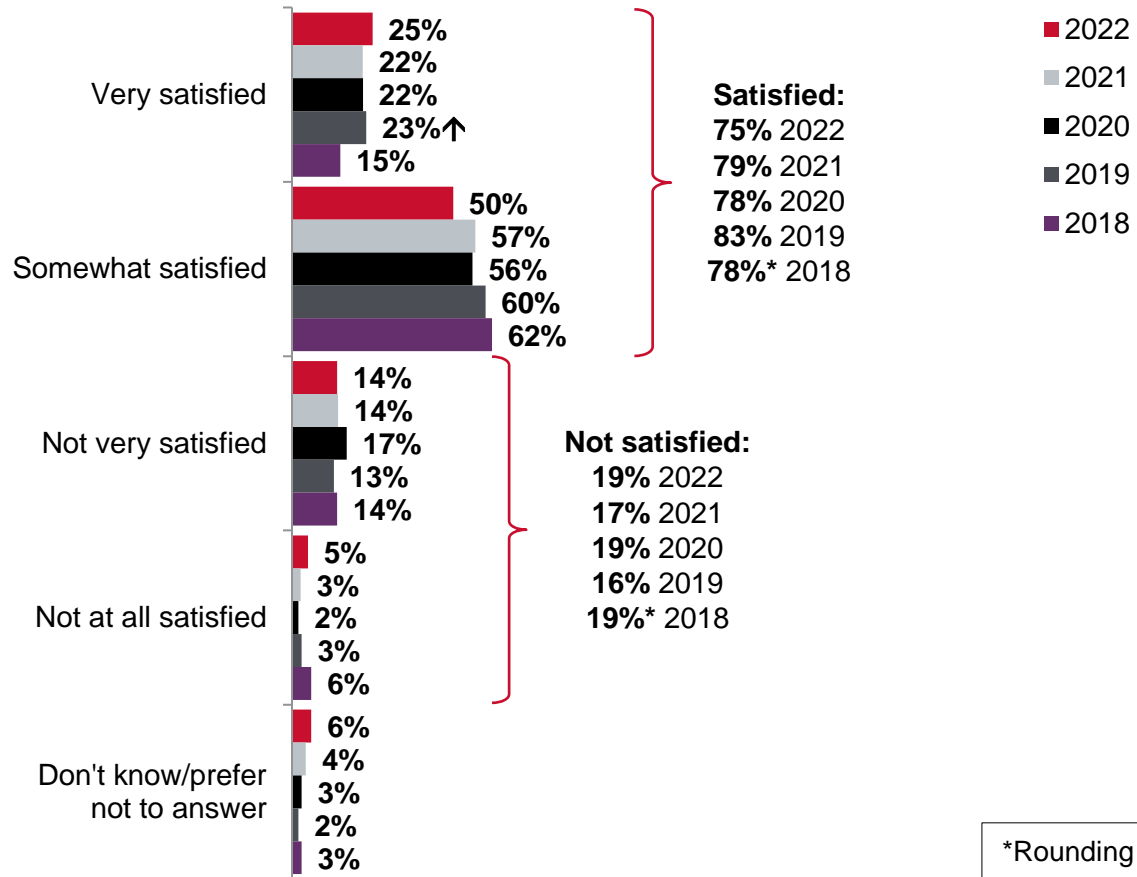
How satisfied are you with the job The City of Calgary is currently doing to protect the environment?

Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)



# Satisfaction with The City's Programs/Services to Help Calgarians Reduce Environmental Impact

Satisfaction with The City's Programs and Services to Help Calgarians Reduce Environmental Impact



How satisfied are you with The City of Calgary's programs and services aimed at helping Calgarians reduce their environmental impact?  
 Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)



# Climate Change



# Summary: Climate Change

**The majority of Calgarians are concerned about the causes and impacts of climate change and think we need to act now to address them, although fewer say they are taking action to prepare for a changing climate.**

- Four-fifths (79%) of Calgarians agree ('strongly' or 'somewhat') they are concerned about the causes of climate change and nearly as many (76%) agree they are concerned about the impacts of climate change on Calgarians.
- Four-fifths (80%) of Calgarians agree they think we need to act now to address the causes of climate change and as many (81%) agree they think we need to act now to prepare for local impacts of climate change.
- A slight majority (57%) agree they are taking action to prepare for a changing climate.

**The majority of Calgarians think climate change is caused mostly by human activities and their individual actions contribute to global climate change.**

- Seven-in-ten Calgarians (71%) agree ('strongly' or 'somewhat') with the statement "Climate change is caused mostly by human activities" and around as many (69%) agree their individual actions contribute to global climate change.

**The majority of Calgarians say they are taking action to help prevent climate change but think they and other Calgarians should be doing more.**

- Three-quarters (75%) of Calgarians agree ('strongly' or 'somewhat') they are taking action to help prevent climate change.
- Three-quarters (74%) agree they want to do more personally to help prevent climate change and nearly as many (71%) agree they think Calgarians should be doing more to help prevent climate change.



## Summary: Climate Change – cont'd

### **A slight majority of Calgarians think The City should be doing more to address climate change.**

- On par with results dating back to 2019, more than one-half (55%) of Calgarians think The City should be doing more than it currently is to address climate change, three-in-ten (29%) think The City is doing the right amount, and more than one-in-ten (14%) think The City should be doing less to address climate change.

### **The majority of Calgarians say that one year ago, they supported taking action on climate change and around as many report their support has not changed in the past year.**

- Three-quarters (76%) of Calgarians say that one year ago, they supported taking action on climate change, on par with results in 2021 when this question was first asked. More are 'somewhat' rather than 'very' supportive (42% vs. 34%, respectively). Nearly one-fifth (17%) were opposed to taking action on climate change (10% 'somewhat' and 7% 'very' opposed).
- For the majority (74%) of Calgarians, their support for taking action on climate change has not changed in the past year. Around one-fifth (18%) say they have become more supportive in the past year while only 4% say they have become less supportive.
  - For those who are more supportive of taking action on climate change than they were one year ago, the top reasons given for the change in support are the occurrence of severe weather events/natural disasters (35%) and an increased awareness of climate change/the effects of climate change (33%).

### **The majority of Calgarians support the city – including the municipal government and city residents – moving to net-zero emissions by 2050.**

- Three-quarters (74%) of Calgarians support the city (municipal government and city residents) moving to net-zero emissions by the year 2050, on par with 2021.



## Summary: Climate Change – cont'd

### Trust in The City as a source of information about climate change is not strong.

- Nearly one-half (47%) of Calgarians trust The City as a source of information about climate change (20% trust 'a great deal' and 27% trust 'a little'). The proportion of Calgarians who neither trust nor distrust The City in this regard is 29%, up from 18% in 2021. Around one-quarter (23%) distrust The City as a source of climate change information (11% distrust 'a great deal' and 12% distrust 'a little').

### Awareness is higher for The City's Climate Strategy than for other components of The City's Climate Program.

- One-half (50%) of Calgarians say that before taking the survey, they were aware The City's Climate Program includes a Climate Strategy.
- Around two-fifths of Calgarians (42%) were aware of the Clean Energy Improvement Program, up from 35% in 2021. Fewer Calgarians were aware of the Climate Ready Home Guide (33%) and the annual, virtual Calgary Climate Symposium (18%).



## Summary: Climate Change – cont'd

### **Females are more likely than males to be concerned about climate change, think we need to act now to address it and that The City should be doing more to address climate change.**

- Females are more likely than males to agree ('strongly' or 'somewhat'):
  - They are concerned about the causes of climate change (83% vs. 75%, respectively);
  - They are concerned about the impacts of climate change on Calgarians (85% vs. 68%);
  - They think we need to act now to address the causes of climate change (85% vs. 76%);
  - They think we need to act now to prepare for local impacts of climate change (86% vs. 77%);
  - Their individual actions contribute to global climate change (75% vs. 65%); and
  - They are taking action to prepare for a changing climate (64% vs. 52%).
- Females are more likely than males to think The City should be doing more than it currently is to address climate change (42% vs. 30%, respectively) and males are more likely than females to think The City is doing the right amount (24% vs. 14%, respectively).

### **Males are more likely than females to say they were opposed to taking action on climate change one year ago, that this has not changed in the past year, and they are more likely to distrust The City as a source of information about the topic.**

- Males are more likely than females to say they were opposed to taking action on climate change one year ago (22% vs. 12%, respectively) and that their opinion has not changed in the past year (79% vs. 70%).
- Males are more likely than females to distrust ('a great deal' or 'a little') The City as a source of information about climate change (27% vs. 16%, respectively).



## Summary: Climate Change – cont'd

**Younger Calgarians are more likely than their older counterparts to think climate change is caused mostly by human activities, to be concerned about the causes and to be supportive of taking action to address climate change.**

- Younger Calgarians are more likely than older Calgarians to agree ('strongly' or 'somewhat'):
  - Climate change is caused mostly by human activities (80% 18 to 34 vs. 69% 35 to 64 vs. 61% 65 or older);
  - They are concerned about the causes of climate change (87% 18 to 34 vs. 70% 65 or older);
  - They think we need to act now to address the causes (89% 18 to 34 vs. 79% 35 to 64 and 70% 65 or older);
  - They are taking action to help prevent climate change (79% 18 to 34 and 78% 35 to 64 vs. 64% 65 or older);
  - They think Calgarians should be doing more to help prevent climate change (77% 18 to 34 vs. 65% 65 or older); and
  - They want to do more personally to help prevent climate change (82% 18 to 34 and 73% 35 to 64 vs. 62% 65 or older).
- Calgarians 18 to 34 years of age are more likely than seniors (65 or older) to say that one year ago, they were supportive of taking action on climate change (81% vs. 67%, respectively) and more likely to support the city (municipal government and city residents) moving to net-zero emissions by the year 2050 (78% vs. 67%).

**Younger Calgarians are more likely than older Calgarians to neither trust nor distrust The City as a source of information about climate change.**

- Younger Calgarians are more likely than older Calgarians to say they neither trust nor distrust The City as a source of information about climate change (38% 18 to 34 vs. 25% 35 to 64 and 23% 65 or older).
- Seniors (65 or older) are more likely than those 18 to 34 to distrust ('a great deal' or 'a little') The City as a source of information on this topic (31% vs. 18%, respectively).





## Summary: Climate Change – cont'd

**Southeast residents are less likely than those of other quadrants to agree climate change is caused mostly by human activities and that we need to act now to address the causes. They are also more likely to distrust The City as a source of information about climate change.**

- Residents of the Southeast (S.E.) are less likely than those of the Southwest (S.W.), Northwest (N.W.) and Northeast (N.E.) to agree ('strongly' or 'somewhat') climate change is caused mostly by human activities (59% vs. 72%, 75% and 77%, respectively).
- Residents of the S.E. are less likely than those of the S.W. and the N.W. to agree they think we should act now to address the causes of climate change (71% vs. 85% and 85%, respectively) and to agree they think Calgarians should be doing more to help prevent climate change (61% vs. 78% and 75%).
- Residents of the S.E. are more likely than those of the other quadrants to say they distrust The City as a source of information about climate change (33% vs. 19% S.W., 20% N.W. and 19% N.E.).



## Summary: Climate Change – cont'd

**Calgarians who identify<sup>1</sup> as being of Asian descent<sup>2</sup> are more likely than those who identify as White/Caucasian or European<sup>3</sup> to be concerned about climate change, support taking action regarding it and to trust The City as a source of information about the topic.<sup>4</sup>**

- Calgarians who identify as being of Asian descent are more likely than those who identify as White/Caucasian or of European descent to agree ('strongly' or 'somewhat'):
  - They are concerned about the impacts of climate change on Calgarians (92% vs. 63% and 74%);
  - They think we need to act now to prepare for local impacts of climate change (91% vs. 67% and 80%);
  - They are concerned about the causes of climate change (90% vs. 70% and 74%, respectively);
  - They think we need to act now to address the causes of climate change (90% vs. 67% and 79%);
  - Climate change is caused mostly by human activities (88% vs. 56% and 68%);
  - Their individual actions contribute to global climate change (86% vs. 63% and 65%);
  - They want to do more personally to help prevent climate change (86% vs. 67% and 69%);
  - They think Calgarians should be doing more to help prevent climate change (84% vs. 61%, and 67%); and
  - They are taking action to prepare for a changing climate (73% vs. 48% and 51%).
- Calgarians who identify as being of Asian descent are more likely than those who identify as White/Caucasian or of European descent to trust ('a great deal' or 'a little') The City as a source of information about climate change (70% vs. 27% vs. 41%, respectively).

<sup>1</sup>Respondents answer in their own words (i.e. are not read a list of answer options) and the interviewer uses a list to code responses.

<sup>2</sup>"Asian" descent includes South Asian, East Asian, Southeast Asian, West Asian and Middle Eastern.

<sup>3</sup>"European" descent includes British, Western European, Southern European and Eastern European.

<sup>4</sup>Sample sizes for other ethnicities are too small to report results.



## Summary: Climate Change – cont'd

**Calgarians who identify<sup>1</sup> as being of Asian<sup>2</sup> or European<sup>3</sup> descent are more likely than those who identify as White/Caucasian to have been supportive of taking action on climate change one year ago and those of Asian descent are more likely to have become more supportive in the past year.<sup>4</sup>**

- Those of Asian or European descent are more likely than those who identify as White/Caucasian to say that one year ago, they were supportive of taking action on climate change (85% and 79% vs. 59%, respectively) and those of Asian descent are more likely to say they have become more supportive in the past year (33% vs. 18% White/Caucasian and 12% European).

<sup>1</sup>Respondents answer in their own words (i.e. are not read a list of answer options) and the interviewer uses a list to code their response.

<sup>2</sup>“Asian” descent includes South Asian, East Asian, Southeast Asian, West Asian, and Middle Eastern.

<sup>3</sup>“European” descent includes British, Western European, Southern European and Eastern European.

<sup>4</sup>Sample sizes for other ethnicities are too small to report results.



## Summary: Climate Change – cont'd

### **Foreign-born Calgarians are more likely than those who were born in Canada to be concerned about the causes and impacts of climate change, to support taking action to address climate change and to have become more supportive of taking action in the past year.**

- Calgarians who were born outside of Canada are more likely than those born in Canada to agree ('strongly' or 'somewhat'):
  - They are concerned about the causes of climate change (86% vs. 76%, respectively);
  - They are concerned about the impacts of climate change on Calgarians (86% vs. 72%);
  - Their individual actions contribute to global climate change (77% vs. 65%);
  - They want to do more personally to help prevent climate change (82% vs. 70%);
  - They think we need to act now to address the causes of climate change (87% vs. 77%);
  - They think Calgarians should be doing more to help prevent climate change (79% vs. 68%); and
  - They are taking action to prepare for a changing climate (65% vs. 54%).
- Although foreign-born Calgarians are no more likely than their Canadian-born counterparts to have been supportive of taking action on climate change one year ago, they are more likely to say they are more supportive this year (25% vs. 15%, respectively). Those born in Canada are more likely than those not born in Canada to have been opposed to taking action on climate change one year ago (20% vs. 12%, respectively) and more likely to say their level of support has not changed in the past year (77% vs. 68%).

### **Foreign-born Calgarians are more likely than those who were born in Canada to trust The City as a source of information about climate change and to support the city overall moving towards net-zero emissions by 2050.**

- Calgarians who were born outside of Canada are more likely than those born in Canada to say they trust ('a great deal' or 'a little') The City as a source of information about climate change (65% vs. 39%, respectively).
- Foreign-born Calgarians are more likely than Canadian-born Calgarians to support the city (municipal government and city residents) moving towards net-zero emissions by the year 2050 (81% vs. 71%, respectively).



# Climate Change Opinions

## Perceptions about Climate Change

		Strongly agree	Somewhat agree	Neutral	Somewhat disagree	Strongly disagree	Don't know	Agree	Neutral	Disagree	
I think we need to act now to prepare for local impacts of climate change	2022	54%	27%	5%	5%	7%	↓	81%	5%	12%↓	
	2021	52%	26%	4%	7%	11%		78%	4%	18%	
	2020	Not asked in 2019 and 2020									
	2019	Not asked in 2019 and 2020									
I think we need to act now to address the causes of climate change	2022	58%	22%	5%	7%	6%	↓	80%	5%	13%	
	2021	57%	20%	5%	5%	11%		77%	5%	16%	
	2020	Not asked in 2019 and 2020									
	2019	Not asked in 2019 and 2020									
I am concerned about the causes of climate change	2022	50%	29%	6%	6%	7%		79%	6%	12%*↓	
	2021	51%	27%	4%	7%	10%		78%	4%	18%*	
	2020	Not asked in 2019 and 2020									
	2019	Not asked in 2019 and 2020									
I am concerned about the impacts of climate change on Calgarians	2022	43%	33%	6%	8%	8%	↓	76%	6%	16%	
	2021	45%	29%	6%	7%	12%		74%	6%	19%	
	2020	Not asked in 2019 and 2020									
	2019	Not asked in 2019 and 2020									
I am taking action to help prevent climate change	2022	25%	50%	8%	↑	8%	6%	↓	75%	8%↑	14%
	2021	27%	52%	4%	6%	10%	↑	79%	4%	15%*	
	2020	26%	54%	5%	9%	5%	↓	79%*↑	5%	15%*↓	
	2019	25%	48%	4%	12%	10%		73%	4%	23%*	

\*Rounding

The next few statements are about how you personally feel about climate change. To what extent do you agree or disagree with the following?

Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504)



# Climate Change Opinions – cont'd

## Perceptions about Climate Change

■ Strongly agree 
 ■ Somewhat agree 
 ■ Neutral 
 ■ Somewhat disagree 
 ■ Strongly disagree 
 ■ Don't know

						Agree	Neutral	Disagree			
I want to do more personally to help prevent climate change	2022	44%	31%	8%	7%	7%	4%	74%*	8%	14%	
	2021	42%	34%	7%	7%	11%		75%*	7%	17%*	
	2020	43%	35%	6%	9%	7%		78%	6%	16%↓	
	2019	39%	34%	4%	11%	11%		73%	4%	22%	
I think Calgarians should be doing more to help prevent climate change	2022	40%	31%	9%	7%	10%		71%	9%	17%	
	2021	44%	28%↓	7%	7%	12%		72%	7%	19%	
	2020	41%	35%	6%	8%	9%		77%*	6%	16%*↓	
	2019	40%	32%	4%	10%	13%		72%	4%	23%	
Climate change is caused mostly by human activities	2022	44%	27%	5%	11%	12%		71%	5%	22%*	
	2021	45%	26%	5%	9%	13%		71%	5%	22%	
	2020	51%↑	25%	3%	11%	9%↓		76%↑	3%	20%↓	
	2019	43%	24%	4%	12%	16%		67%	4%	28%	
My individual actions contribute to global climate change**	2022	33%	37%	6%	10%	12%		69%*	6%	23%*	
	2021	35%	38%	5%	6%	15%↑		73%	5%	21%	
	2020	39%↑	38%	4%	8%	10%↓		77%↑	4%	18%↓	
	2019	31%	37%	3%	12%	16%		68%	3%	28%	
I am taking action to prepare for a changing climate	2022	21%	36%	14%	14%	11%	4%	57%	14%	26%*	
	2021	21%	38%	10%	17%	12%		60%*	10%	29%	
	2020	Not asked in 2019 and 2020									
	2019	Not asked in 2019 and 2020									

\*\*In 2019 and 2020, the wording was: My individual actions contribute to global impacts of climate change

\*Rounding

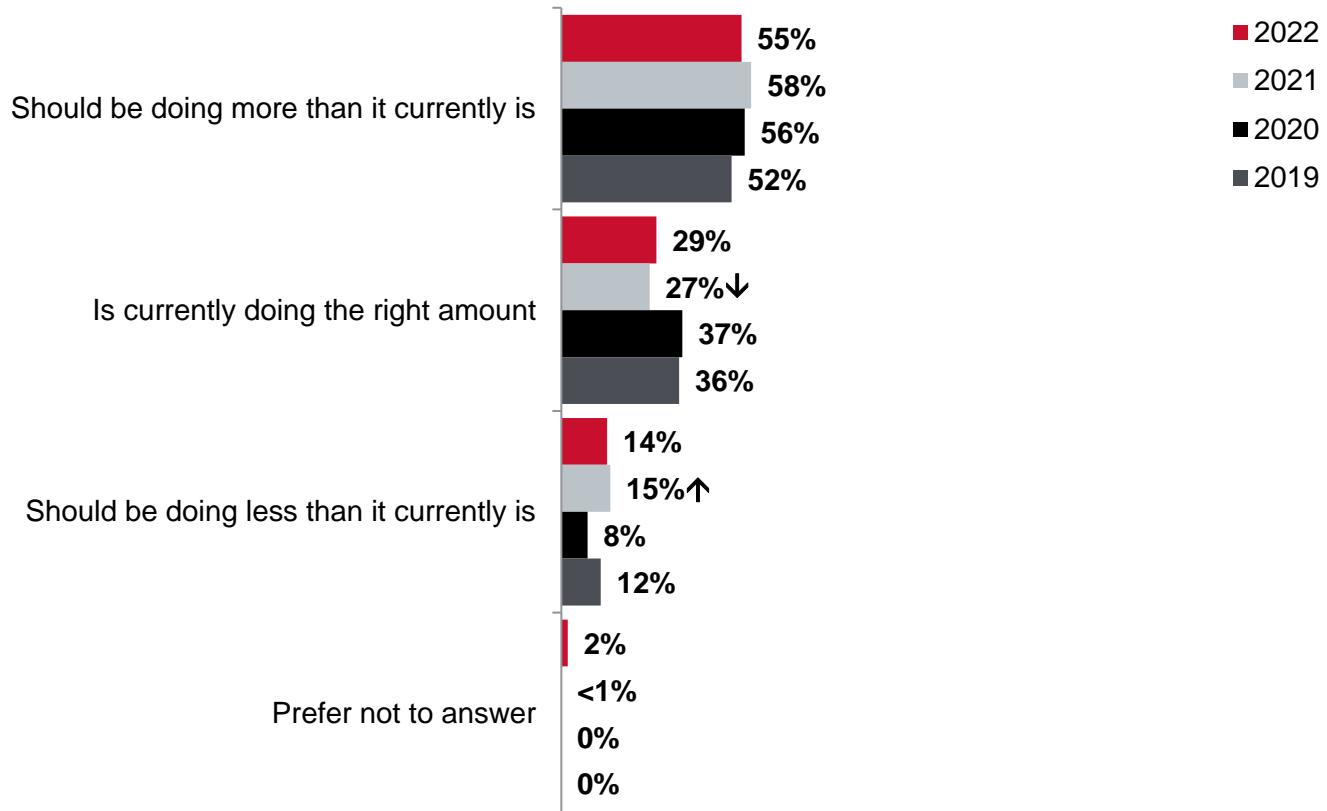
The next few statements are about how you personally feel about climate change. To what extent do you agree or disagree with the following?

Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504)



# Perception of The City's Efforts to Address Climate Change

Opinion about the Work The City is Doing to Address Climate Change



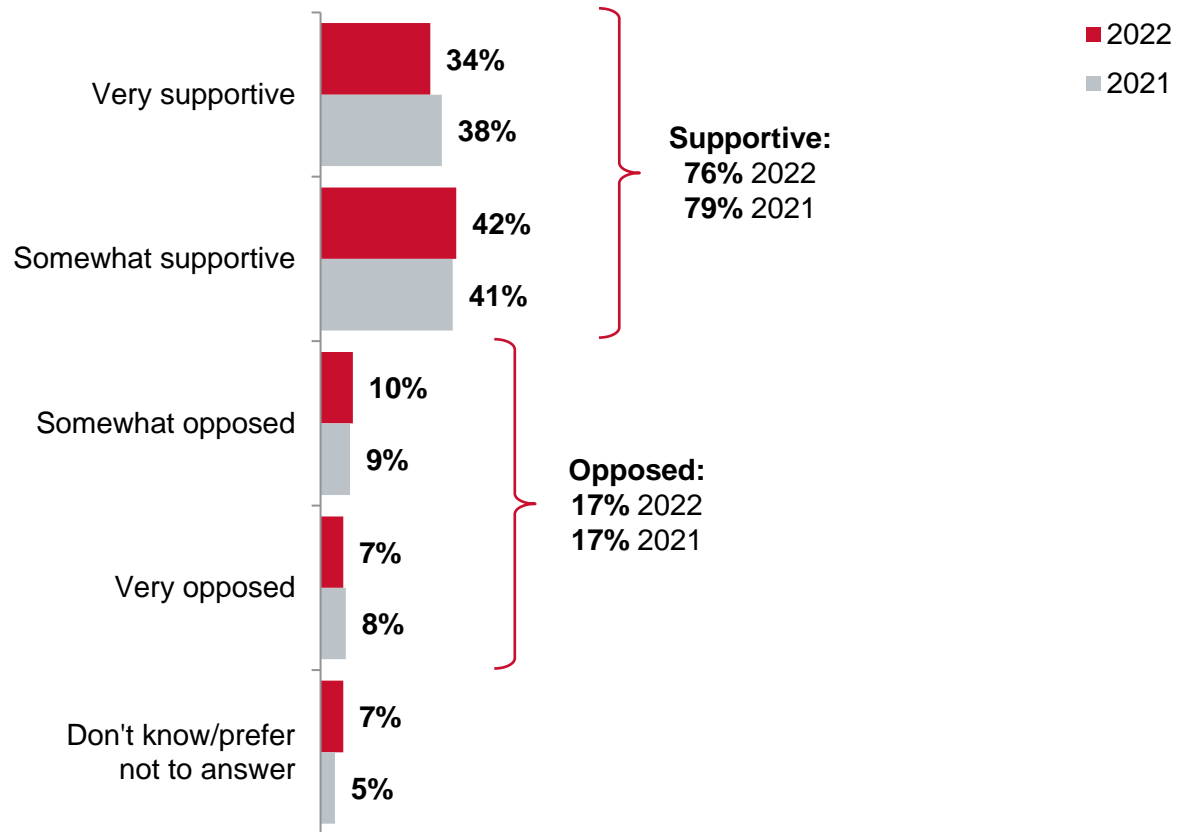
Please tell me which of the following statements best describes your opinion about what The City of Calgary is doing to address climate change?  
Do you think The City . . .

Base size: All respondents excluding those who responded 'not sure' (2022: n=325; 2021: n=364; 2020: n=456; 2019: n=327)



# Support for Taking Action on Climate Change One Year Ago

Support for Taking Action on Climate Change One Year Ago



Thinking back to one year ago, to what extent did you support or oppose taking action on climate change? Were you ...

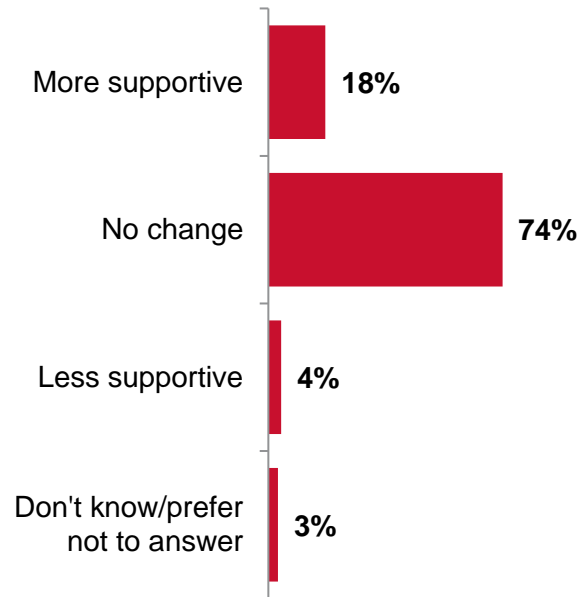
Base size: All respondents (2022: n=500; 2021: n=500)





# Change in Support for Taking Action on Climate Change

**Change in Support for Taking Action on Climate Change in the Past Year**



NOTE: Due to a change in the way the question was asked in 2022, results are not compared to those from previous years.

In the past year, has your support for taking action on climate change changed? + Have you become more or less supportive?

Base size: All respondents (n=500)



# Change in Support for Taking Action on Climate Change – cont'd

**Change in Support for Taking Action on Climate Change in the Past Year by Level of Support One Year Ago**

	Very supportive one year ago (n=162)	Somewhat supportive one year ago (n=207)	Somewhat opposed one year ago (n=52*)	Very opposed one year ago (n=44*)
<b>More supportive</b>	19%	22%	15%	6%
<b>No change</b>	79%	68%	79%	83%
<b>Less supportive</b>	1%	6%	4%	11%
<b>Don't know/prefer not to answer</b>	1%	3%	2%	0%

Note: Columns don't total 100% due to responses of "don't know" and "prefer to not answer"

**How to read this table:**

Example: Among those who were "very supportive" of taking action on climate change one year ago, 79% say there has been no change in their support in the past year.

Example: Among those who were "very opposed" to taking action on climate change one year ago, 6% are more supportive now.

\*Caution:  
Small sample size

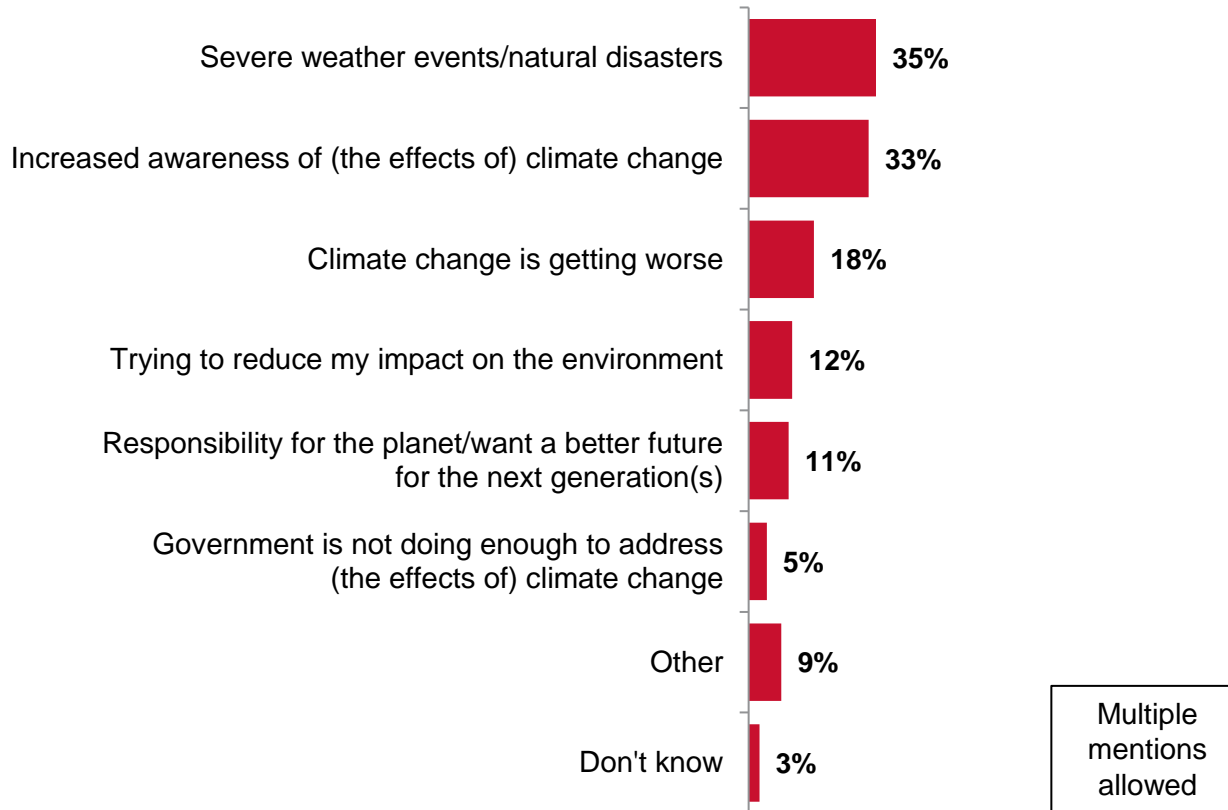
Thinking back to one year ago, to what extent did you support or oppose taking action on climate change?

In the past year, has your support for taking action on climate change changed? + Have you become more or less supportive?



# Reasons for Increase in Support in Past Year

## Reasons for Being More Supportive of Taking Action on Climate Change in the Past Year



NOTE: Due to a change in the coding of the responses to this question, results are not compared to those from previous years.

Why has your level of support for taking action on climate change changed in the past year?

NOTE: Response options were not read to the respondent.

Base size: Respondents who answered 'more supportive' in the past year (n=85)



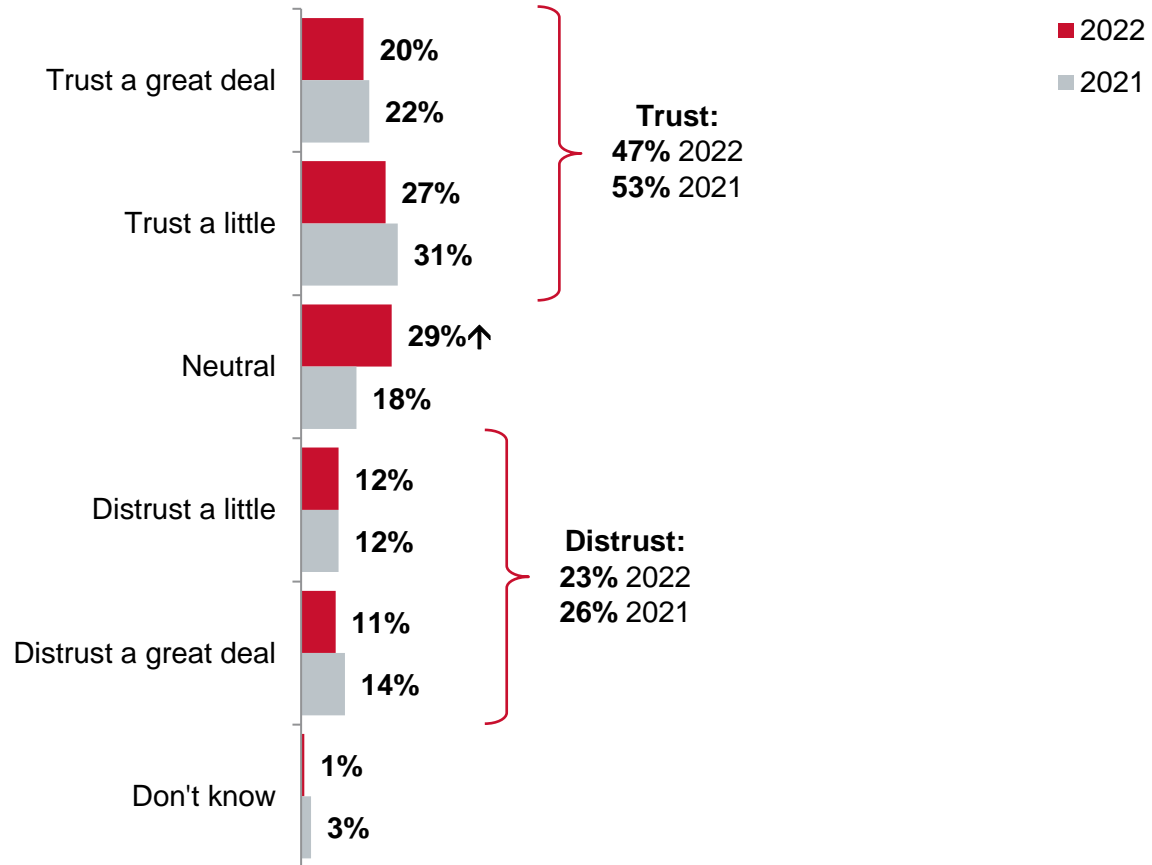
## Reasons for Decrease in Support in Past Year

**Due to a very small base size of respondents who say they have become less supportive of taking action on climate change in the past year (n=22), results for this question cannot be reported.**



# Trust in The City as a Source of Information about Climate Change

Trust in The City as a Source of Information about Climate Change

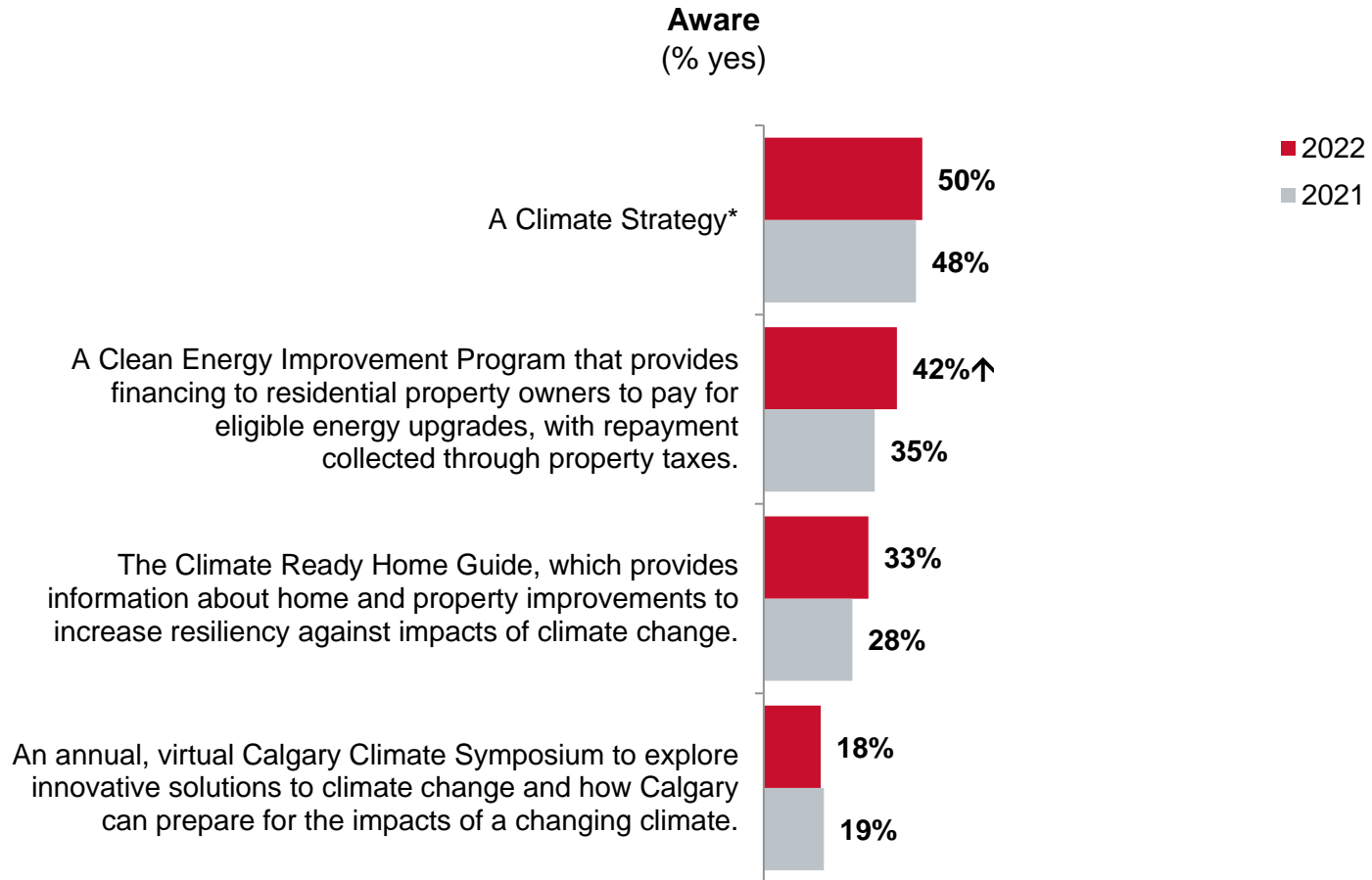


To what extent do you trust or distrust The City as a source of information about climate change?

Base size: All respondents (2022: n=500; 2021: n=500)



# Aware of Elements of The City’s Climate Program



\*In 2021, the wording was “A climate action plan”

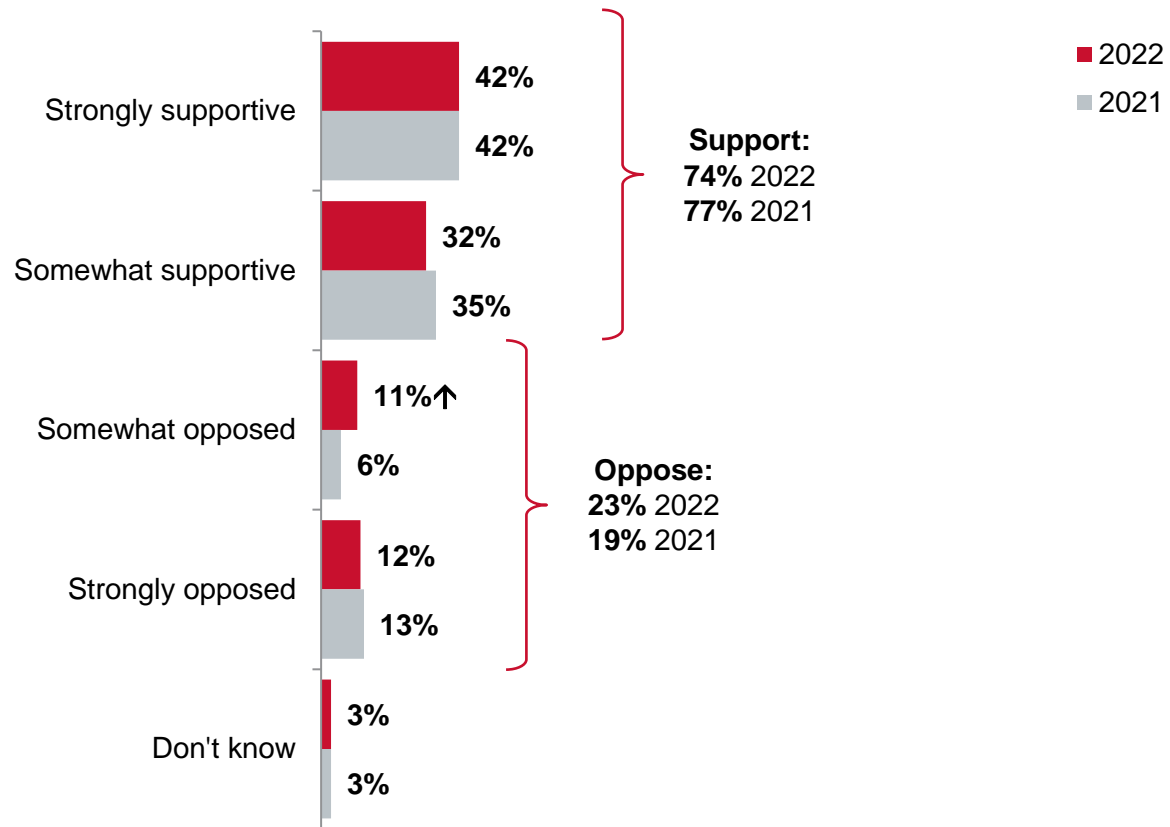
Before now, were you aware that The City’s Climate Program includes the following:

Base size: All respondents (2022: n=500; 2021: n=500)



# Support for Net-Zero Emissions Target for Calgary

Support for Calgary Moving to Net-Zero Emissions by the Year 2050



The next question is about net-zero emissions. This means reducing the amount of man-made greenhouse gas released into the atmosphere and removing an equivalent amount of emissions from the environment. To what extent do you support or oppose the city, meaning the municipal government and citizens, moving to net-zero by the year 2050?

Base size: All respondents (2022: n=500; 2021: n=500)



## Extreme Weather Events



## Summary: Extreme Weather

### **Wildfires/smoke have impacted more Calgarians in the past five years than other extreme weather events.**

- More than two-fifths (43%) of Calgarians say they have been impacted (i.e. experienced damage, incurred costs, and/or had health impacts or injury) by wildfires/smoke in the past five years, on par with results in 2021.
- Compared to 2021, fewer Calgarians report being impacted by hailstorms (29%, down from 38%) and snow/ice storms (22%, down from 29%).
- Around one-fifth (22%) have been impacted by a heat wave or extreme heat and/or severe winds (18%) in the past five years, consistent with results in 2021.
- The extreme weather events that have impacted the fewest Calgarians in the past five years are extreme rain events and associated flooding, excluding river flooding (10%), drought (5%), river flooding (4%) and tornados (2%).
- One-half (51%) of Calgarians say they have not been impacted by any of these extreme weather events in the past five years, up from 28% in 2021.

### **The majority of Calgarians expect there will be more heat waves/extreme heat events and wildfires/smoke in the next ten years while one-half or fewer think there will be an increase in other types of extreme weather events.**

- Seven-in-ten Calgarians (71%) think there will be more heat waves/extreme heat in the next ten years, up from 62% in 2021.
- The majority (68%) think there will be more wildfires/smoke, one-half (51%) think there will be more hailstorms and as many (50%) think there will be more drought events.
- Fewer than one-half think there will be more extreme rain events and associated flooding, not including river flooding (41%), severe winds (40%), snow or ice storms (39%), river flooding (36%) or tornados (31%).

# Summary: Extreme Weather

## Compared to 2018, more Calgarians now say they expect there to be more of certain extreme weather events in the next ten years.

- Since 2018, there has been an increase in the proportion of Calgarians who think there will be more of the following extreme weather events in the next ten years:
  - Heatwaves or extreme heat (46% in 2018 vs. 71% in 2022);
  - Drought (33% in 2018 vs. 50% in 2022);
  - Hailstorms (37% in 2018 vs. 51% in 2022);
  - Wildfires/smoke (59% in 2018 vs. 68% in 2022);
  - Severe winds (31% in 2018 vs. 40% in 2022); and
  - Tornadoes (17% in 2018 vs. 31% in 2022).

## A minority of Calgarians have taken actions to reduce the impacts of extreme weather events on themselves/their property.

- Two-fifths (40%) of Calgarians have sought to reduce the impacts of extreme weather events by installing air conditioning (40%), while around one-third have improved water drainage on their property (36%), purchased an air purifier (34%) and/or planted trees for shade (32%).
- One-quarter (25%) have planted drought-resistant plants and as many (24%) have purchased flood insurance. One-fifth (19%) have installed hail-resistant roofing, more than one-in-ten (14%) have installed hail-resistant siding, and as many (16%) have moved to a different location to reduce the impact of extreme weather events on them.
- Nearly one-fifth (16%) of Calgarians say they have not done any of these things.



## Summary: Extreme Weather – cont'd

### **Concern among Calgarians about the impact extreme weather events are having or might have on their life is the highest it has been to date.**

- Seven-in-ten Calgarians (70%) are concerned about the impact extreme weather events are having or might have on their life. Although this is not statistically different than in 2021, it is up from 61% in 2018.

### **Calgarians are split on who they think should be leading citizens in taking action to help reduce the potential impacts of extreme weather events, with the municipal government/The City of Calgary edging out other levels of government and individuals/citizens.**

- When asked, unaided, who they think should be leading citizens in taking action to help reduce the potential impacts of extreme weather events, the top first mention is municipal government/The City of Calgary (29%), on par with results in 2021 but trending up from 20% in 2019 following a drop from 32% in 2018. Municipal government/The City is followed by individuals/citizens (16%), provincial government (14%) and the federal government (14%).
- When additional mentions are taken into account, municipal government/The City of Calgary still tops the list (52%), up from 42% in 2021), followed by provincial government (45%), the federal government (36%), and individuals/citizens (30%).



## Summary: Extreme Weather – cont'd

**Females are more likely than males to have been impacted by an extreme weather event in the past five years, to think there will be more extreme weather events in the next ten years and to be concerned about the impact of these events on their life.**

- Females are more likely than males to have been impacted (i.e. experienced damage, incurred costs, and/or had health impacts or injury) by extreme weather events in the past five years (54% vs. 44%, respectively). In particular, females are more likely than males to say they have been impacted by drought (8% vs. 1%), extreme rain events and associated flooding, not including river flooding (14% vs. 6%) and severe winds (24% vs. 12%).
- Females are more likely than males to think there will be more:
  - Droughts (59% vs. 42%, respectively);
  - Severe winds (49% vs. 32%);
  - Heat waves or extreme heat (79% vs. 64%,);
  - Wildfires/smoke (75% vs. 61%);
  - Hailstorms (58% vs. 44%);
  - Tornados (37% vs. 25%);
  - River flooding (41% vs. 30%);
  - Extreme rain events and associate flooding, not including river flooding (46% vs. 36%); and
  - Snow or ice storms (45% vs. 34%).
- Females are more likely than males to be concerned about the impact extreme weather events are having or might have on their life (81% vs. 59%, respectively).



## Summary: Extreme Weather – cont'd

**Younger Calgarians are more likely than their older counterparts to say they have been impacted by heat waves/extreme heat in the past five years, to expect there will be more of certain extreme weather events in the next ten years and to be concerned about the impact of extreme weather events on their life.**

- Calgarians 18 to 34 years of age are more likely than those 35 or older to say they have been impacted by a heat wave/extreme heat in the past five years (30% vs. 18% and 17%, respectively).
- Younger Calgarians are more likely than older Calgarians to think there will be more of the following events in the next ten years:
  - Heat waves or extreme heat (81% 18 to 34 vs. 70% 35 to 64 vs. 58% 65 or older);
  - Wildfires/smoke (77% 18 to 34 and 67% 35 to 64 vs. 55% 65 or older); and
  - Snow or ice storms (47% 18 to 34 vs. 31% 65 or older).
- Calgarians 18 to 64 years of age are more likely than seniors (65 or older) to be concerned ('very' or 'somewhat') about the impact extreme weather events are having or might have on their life (76% 18 to 34 and 70% 35 to 64 vs. 58% 65 or older).
- Calgarians 18 to 64 years of age are more likely than seniors (65 or older) to have purchased an air purifier to reduce the impact of extreme weather events on them (49% 18 to 34 vs. 31% 35 to 64 vs. 20% 65 or older). Calgarians 35 or older are more likely than those 18 to 34 to have planted drought-resistant plants (32% 35 to 64 and 27% 65 or older vs. 11% 18 to 34).



## Summary: Extreme Weather – cont'd

**Calgarians who identify<sup>1</sup> as being of Asian descent<sup>2</sup> are more likely than those who identify as White/Caucasian or European<sup>3</sup> to be concerned about the impact of extreme weather events on them and to have purchased flood insurance and/or installed hail-resistant roofing.<sup>4</sup>**

- Calgarians who identify as being of Asian descent are more likely than those who identify as White/Caucasian or of European descent to be concerned about the impact extreme weather events are having or might have on their life (86% vs. 65% and 64%, respectively).
- Calgarians of Asian decent are more likely than those who identify as White/Caucasian or of European descent to have purchased flood insurance (38% vs. 17% and 22%, respectively) and/or to have installed hail-resistant roofing (35% vs. 20% and 16%).

**Although Canadian-born Calgarians are no more likely than those born outside of Canada to have been impacted by drought in the past five years, they are more likely to think there will be more droughts in the next ten years and to be concerned about the impact of extreme weather events on their life.**

- Calgarians who were born in Canada are more likely than foreign-born Calgarians to expect there will be more droughts in the next ten years (56% vs. 39%, respectively), to have planted drought-resistant plants to reduce the impact on them (28% vs. 17%). Foreign-born Calgarians are more likely than their Canadian-born counterparts to have purchased flood insurance (33% vs. 20%, respectively).
- Foreign-born Calgarians are more likely than those born in Canada to be concerned about the impact extreme weather events are having or might have on their life (76% vs. 66%, respectively).

<sup>1</sup>Respondents answer in their own words (i.e. are not read a list of answer options) and the interviewer uses a list to code their response.

<sup>2</sup>“Asian” descent includes South Asian, East Asian, Southeast Asian, West Asian, and Middle Eastern.

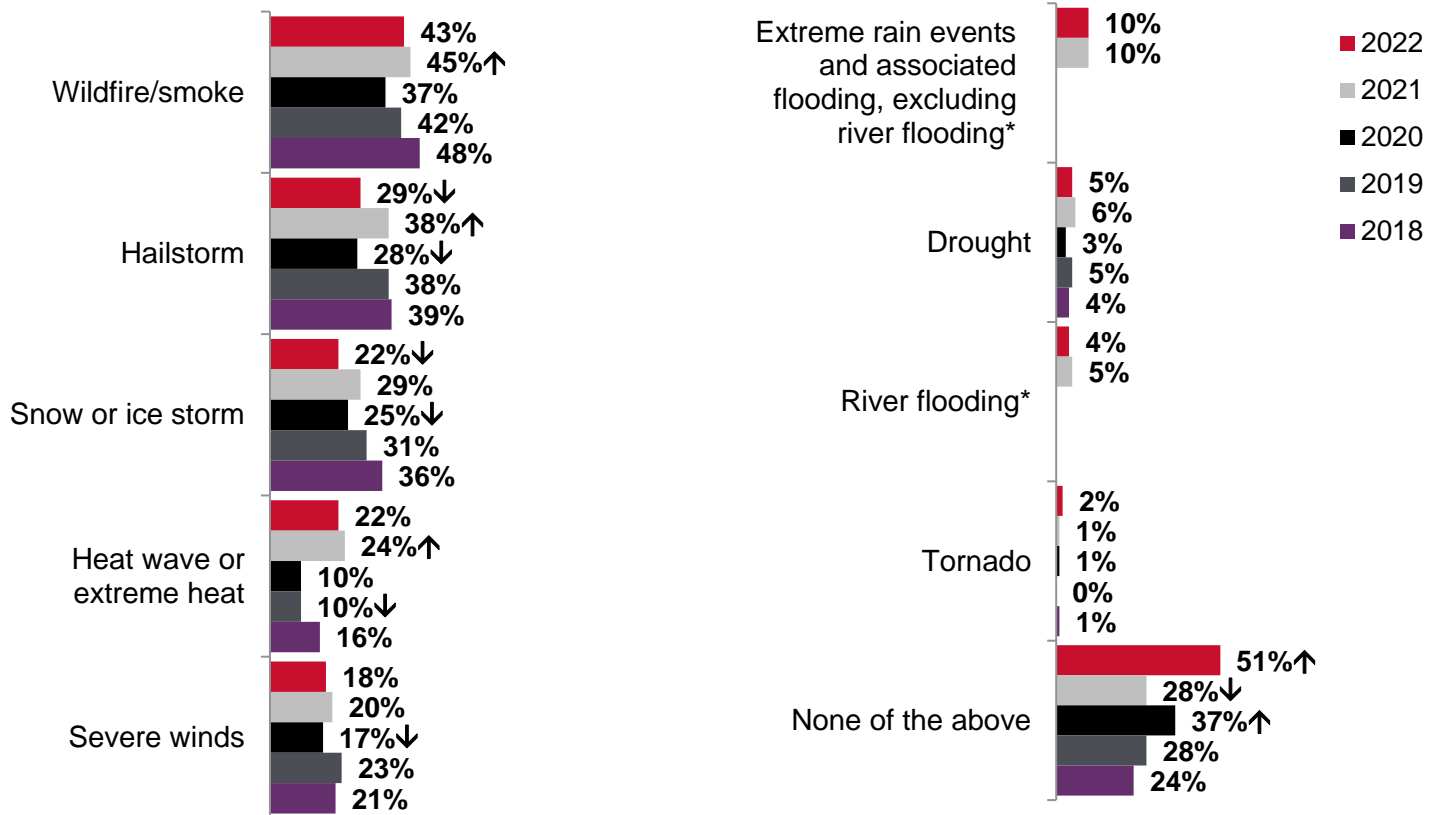
<sup>3</sup>“European” descent includes British, Western European, Southern European and Eastern European.

<sup>4</sup>Sample sizes for other ethnicities are too small to report results.



# Extreme Weather Events

Percentage of Calgarians Impacted by Types of Extreme Weather Events in Past 5 Years



\*Prior to 2021, the question asked about “flooding” and in 2021, this was broken out into “river flooding” and “extreme rain events and associated flooding, not including river flooding.”

Have you been impacted by any of the following weather events in the past 5 years? By impacted, I mean where there has been damage, you have incurred costs, health impacts or injury.

Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)



# Expectations about Future Weather Events

## Opinions about Frequency of Weather-Related Events in the Next 10 Years

- More
- Same amount
- Less

	2022	2021	2020	2019	2018		2022	2021	2020	2019	2018
Heat wave or extreme heat	71%↑	62%↑	49%	42%	46%	Severe winds	40%	44%	38%	39%↑	31%
	22%↓	28%↓	38%	43%	42%		50%	45%↓	52%	52%↓	61%
	3%↓	7%	9%	11%	10%		4%	6%	5%	5%	5%
Wildfire/smoke	68%	64%	61%	56%	59%	Snow or ice storm	39%	36%	43%	42%	41%
	22%	26%	29%	34%	33%		45%	44%	45%	48%	53%
	5%	6%	6%	7%	6%		10%↓	15%↑	7%	6%	4%
Hailstorm	51%	53%	54%↑	40%	37%	River flooding**	36%	41%	Due to a wording change in 2021, past data points are not reported**		
	39%	37%	38%↓	50%	56%		42%	43%			
	4%	6%	4%	6%	6%		16%	12%			
Drought	50%	48%↑	38%	34%	33%	Tornado	31%	29%	29%	29%↑	17%
	36%	37%↓	44%	47%	48%		50%	50%	50%	48%↓	59%
	7%↓	11%	13%	14%	14%		12%	14%	16%	18%	22%
Extreme rain events and associated flooding*	41%	47%	Due to a wording change in 2021, past data points are not reported**			*Excluding river flooding **Prior to 2021, the question asked about “flooding” and in 2021, this was broken out into “river flooding” and “extreme rain events and associated flooding, not including river flooding.”					
	44%	40%									
	10%	7%									

Note: Percentages do not total 100% due to responses of “don’t know.”

Please tell me if you think there will be more, less or about the same amount of each of the following weather-related events in the next 10 years.

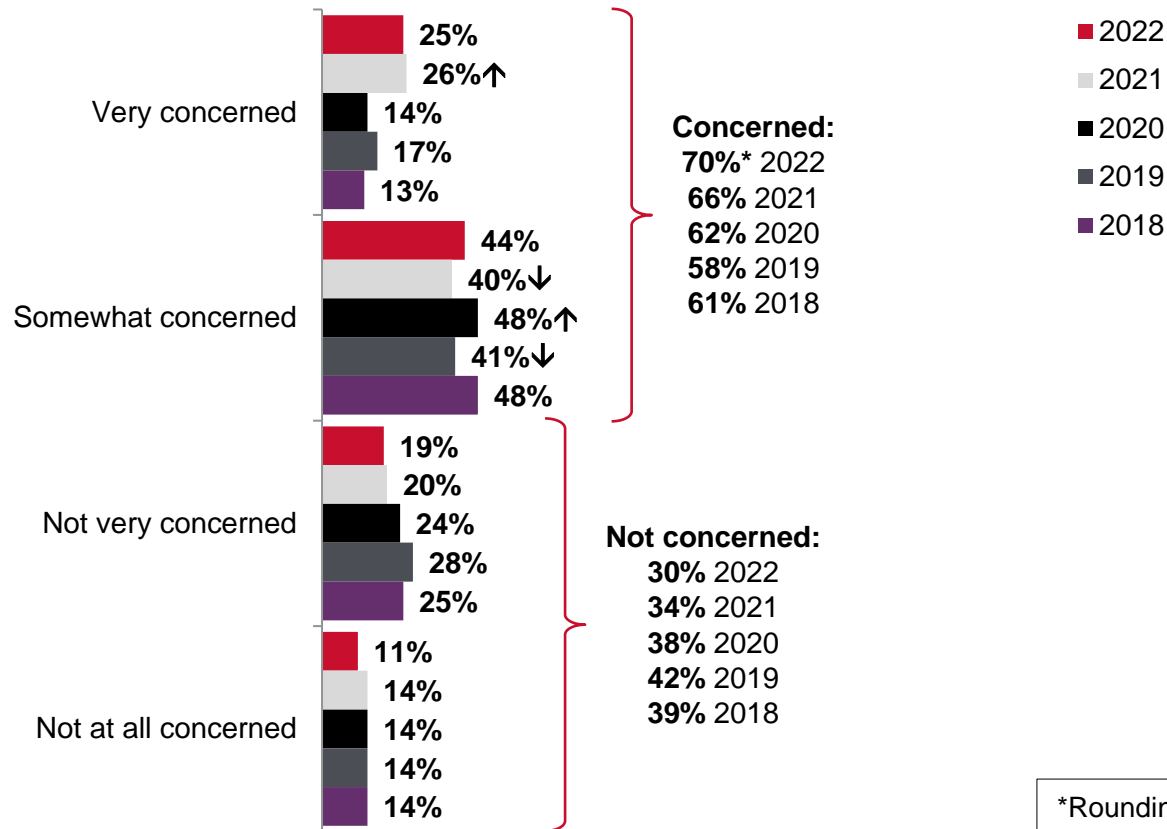
Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)





# Concern about Impact of Extreme Weather

## Concern about Impact of Extreme Weather Events on One's Life



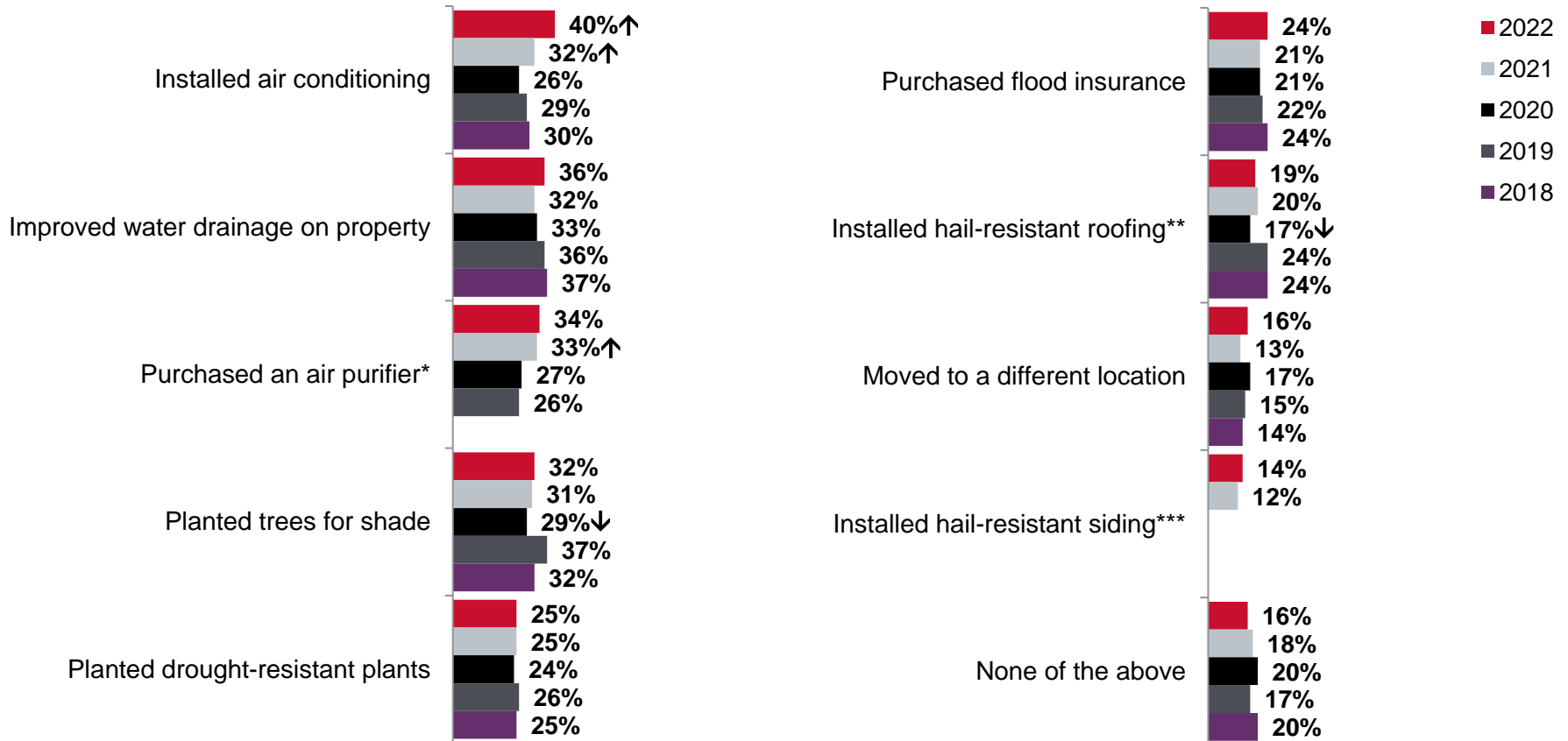
How concerned are you about the impact that extreme weather events are having, or might have, on your life?

Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)



# Actions Taken to Reduce Impact

Actions Taken by Calgarians to Reduce Impact of Extreme Weather Events on Them



\*Not asked in 2018

\*\*Wording prior to 2021: Upgraded to hail-resistant shingles

\*\*\*Not asked in 2018 – 2020

Please indicate if you have done any of the following to reduce the impact of these types of events on you:.

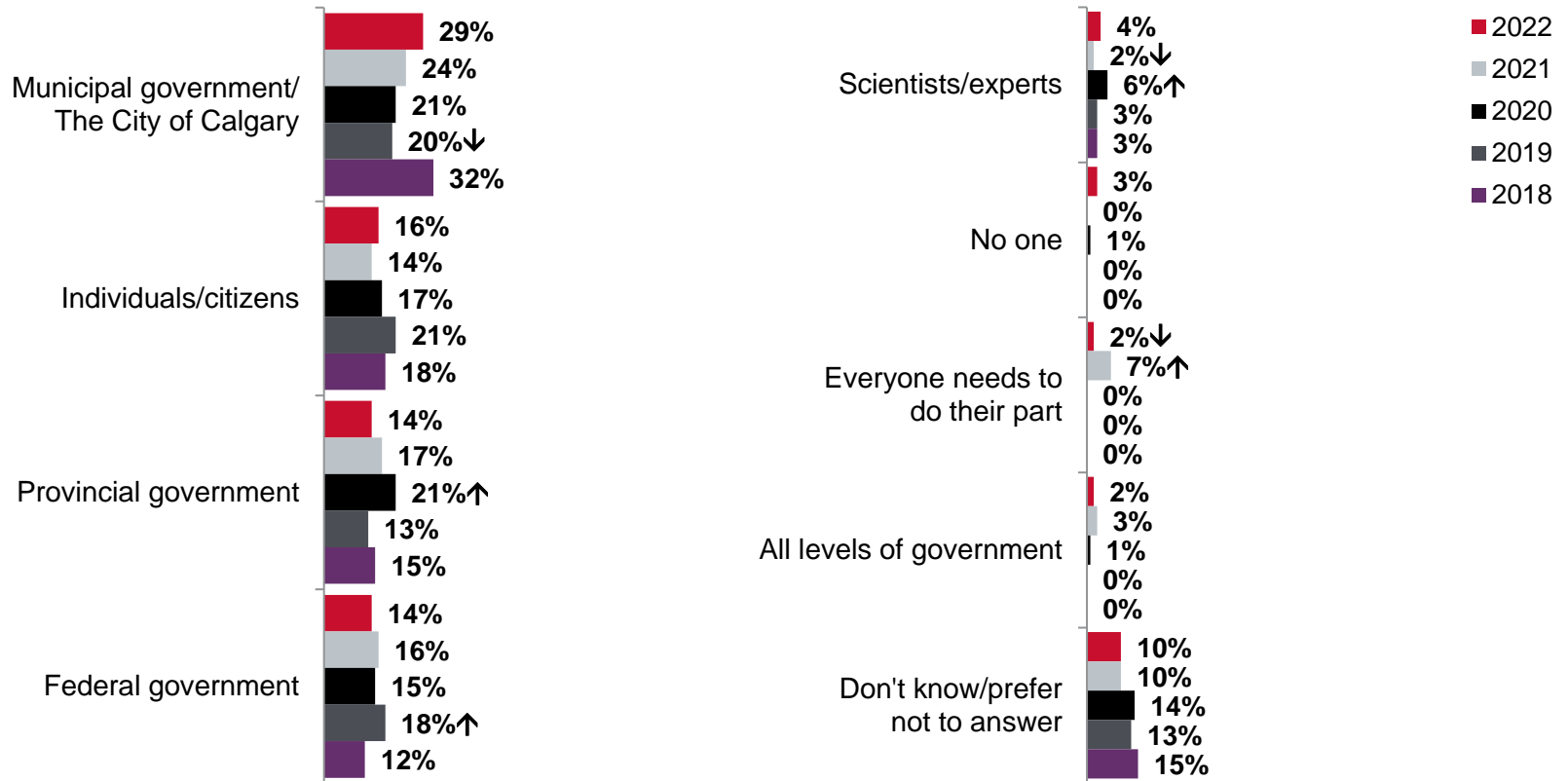
Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)



# Perceived Leadership Responsibility

## Perception of Who Should be Leading Citizens in Taking Action to Reduce Impacts of Extreme Weather Events

### Top-of-Mind (First) Mention



Responses of <2% in 2022 not included

In your opinion, who should be leading citizens in taking action to help reduce the potential impacts of extreme weather events?

NOTE: Response options were not read to the respondent.

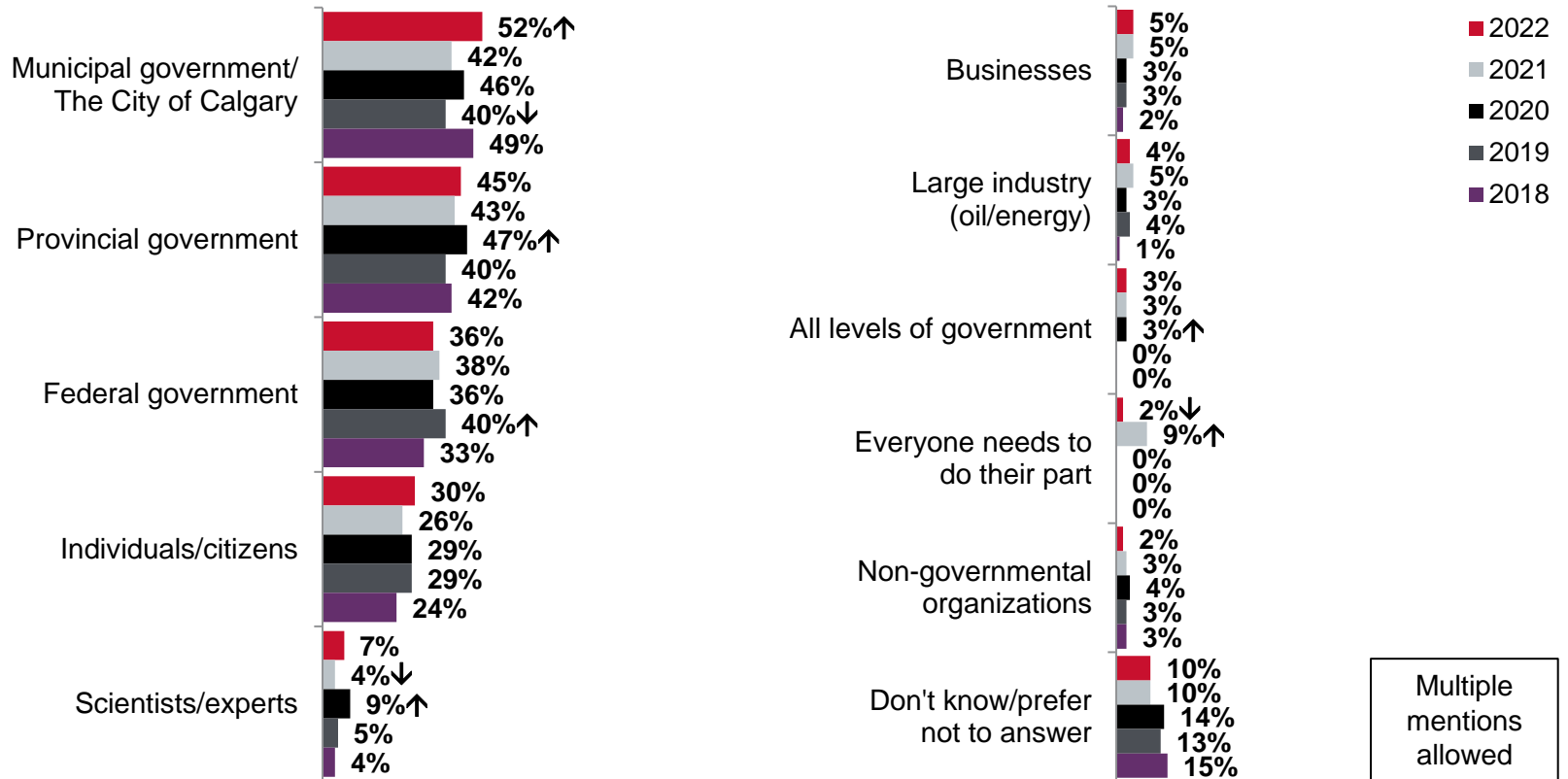
Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)



# Perceived Leadership Responsibility

## Perception of Who Should be Leading Citizens in Taking Action to Reduce Impacts of Extreme Weather Events

### Total (First + Other) Mentions



Responses of <2% in 2022 not included

In your opinion, who should be leading citizens in taking action to help reduce the potential impacts of extreme weather events? Any others?

NOTE: Response options were not read to the respondent.

Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)



## Home Energy Efficiency

# Summary: Home Energy Efficiency

## The most common home energy improvements among those tested are energy efficient appliances, a programmable thermostat and basement insulation.

- Home energy improvements reported by the most Calgarians are energy efficient appliances (67%), a programmable thermostat (67%), and weather-stripping or caulking around doors/windows (61%). Nearly one-half (48%) have energy efficient windows. These results are generally consistent with those dating back to 2018.
- Among Calgarians living in a single-detached home, duplex/triplex/fourplex or townhouse/rowhouse, two-thirds (67%) have an insulated basement and around three-fifths (58%) have an energy efficient furnace. Insulated exposed hot water pipes and increased insulation in the attic are less common at 35% and 33%, respectively. Only 3% have solar panels. These results are generally consistent with those dating back to 2018.

## The majority of Calgarians say they regularly take actions to save energy in their home and the main reason is to save money.

- Virtually all Calgarians (98%) say they turn off lights when not needed and nearly as many (94%) use energy efficient bulbs.
- More than three-quarters (78%) of those with air conditioning in their home say they minimize the use of it in summer, nearly three-quarters (72%) keep the heat set to a lower temperature in the winter and as many (72%) wash laundry in cold water to save energy in their home.
- Three-fifths (60%) say they unplug electronics when not in use in order to save energy.
- When asked, unaided, their reason for taking actions to save energy, the top mention is to save money, with 59% of Calgarians saying this is the main reason and 75% saying it is one of the reasons. This is consistent with results dating back to 2018. Far fewer Calgarians say their main reason is to protect the environment/reduce global warming/reduce greenhouse gas emissions/climate change (22%), although it is one of the reasons for around one-half of Calgarians (52%).
- Fewer than one-half (45%) of Calgarians say the main reason for not doing more to save energy is the cost/not having the money needed to do so, with just more than one-half (53%) saying it is one of the reasons.



## Summary: Home Energy Efficiency – cont'd

### **Calgarians are split on who they think should be leading citizens in taking action to improve home energy efficiency.**

- When asked, unaided, who they think should be leading citizens in taking action to improve home energy efficiency, the top first mentions are municipal government/The City of Calgary (24%) and individuals/citizens (23%).
- When additional mentions are taken into account, municipal government/The City of Calgary still tops the list (49%), followed by provincial government (42%), the federal government (36%) and individuals/citizens (31%).

## Summary: Home Energy Efficiency – cont'd

### Older Calgarians are more likely than their younger counterparts to have certain home energy improvements in place.

- The homes of Calgarians 35 or older are more likely than those of 18 to 34 year olds to have energy efficient appliances (71% 35 to 64 and 75% 65 or older vs. 57%), energy efficient windows (53% and 57% vs. 34%) and increased attic insulation (46% 65 or older vs. 34% 35 to 64 vs. 22% 18 to 34).
- The homes of seniors (65 or older) are more likely than those of 18 to 34 year olds to have weather-stripping or caulking around doors and windows (70% vs. 53%, respectively) and an energy efficient furnace (63% vs. 48%).

### Calgarians born in Canada are more likely than foreign-born Calgarians to have certain home energy improvements in place and to cite cost as the reason for not doing more to save energy in the home.

- The homes of Canadian-born Calgarians are more likely than those of their foreign-born counterparts to have energy efficient appliances (71% vs. 59%, respectively), weather-stripping or caulking around doors and windows (66% vs. 49%), an energy efficient furnace (61% vs. 49%) and energy efficient windows (54% vs. 34%).
- Calgarians born in Canada are more likely than those born outside of Canada to say costs/not having the money needed as the main reason for not doing more to save energy in the home (51% vs. 34%, respectively). Foreign-born Calgarians are more likely than Canadian-born Calgarians to respond “don’t know” when asked what prevents them from doing more to save energy (19% vs. 5%, respectively).





## Summary: Home Energy Efficiency – cont'd

**Calgarians who identify<sup>1</sup> as being White/Caucasian or of European<sup>2</sup> descent are more likely than those who identify as being of Asian descent<sup>3</sup> to have certain home energy improvements in place.**

- The homes of Calgarians who identify as White/Caucasian or of European descent are more likely than homes of those who identify as being of Asian descent to have energy efficient appliances (75% and 70% vs. 56%), weather-stripping or caulking around doors and windows (71% and 66% vs. 46%) and energy efficient windows (51% and 59% vs. 29%).
- Calgarians of Asian descent are more likely than those who identify as White/Caucasian or of European descent to respond “don’t know” when asked what prevents them from doing more to save energy (22% vs. 6% and 2%, respectively).

<sup>1</sup>Respondents answer in their own words (i.e. are not read a list of answer options) and the interviewer uses a list to code their response.

<sup>2</sup>“European” descent includes British, Western European, Southern European and Eastern European.

<sup>3</sup>“Asian” descent includes South Asian, East Asian, Southeast Asian, West Asian, and Middle Eastern.

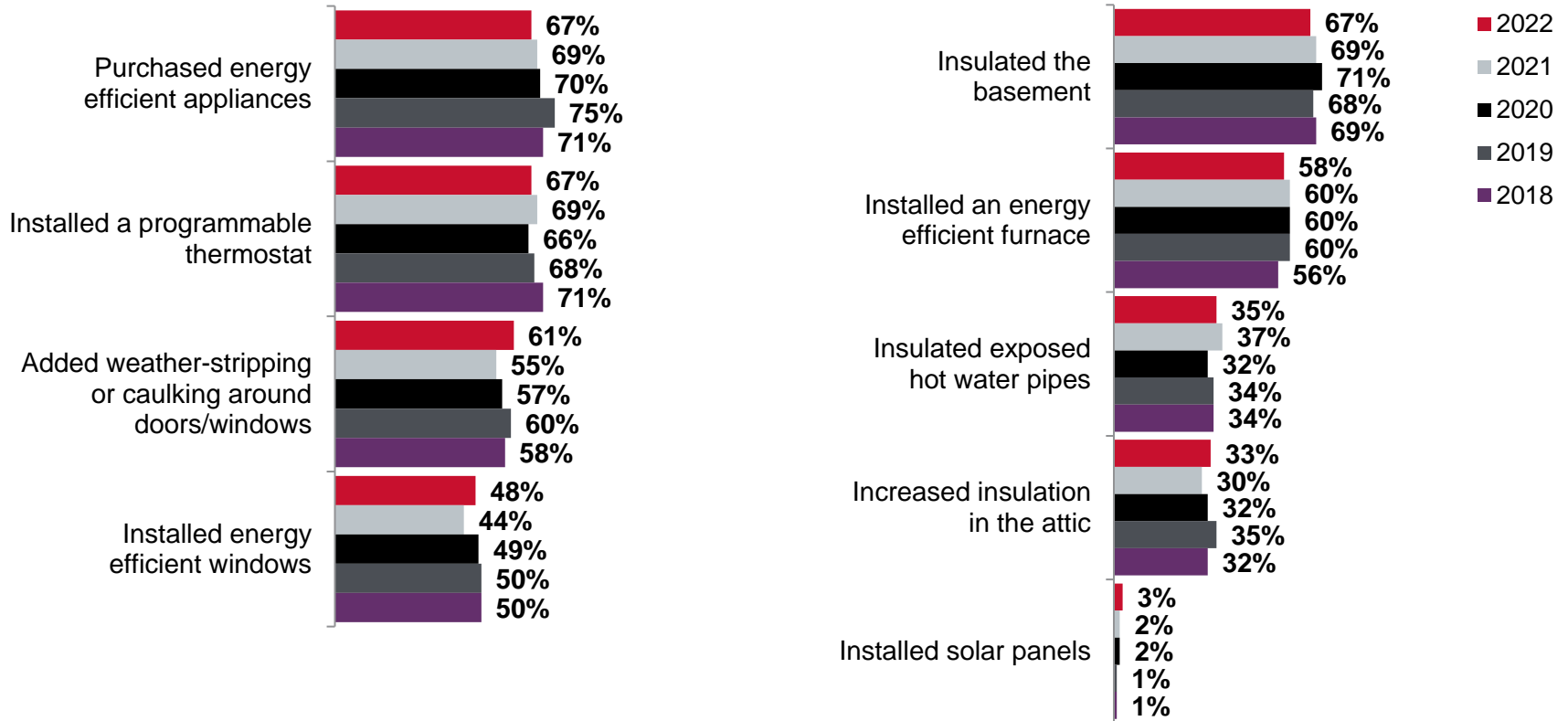
<sup>4</sup>Sample sizes for other ethnicities are too small to report results.



# Home Energy Efficiency Improvements

## Energy Efficiency Improvements Made to Home

The following were asked only of respondents living in a single-detached home, duplex/triplex/fourplex or townhouse/rowhouse\*:



\*Base size: 2022: n=410; 2021: n=425; 2020: n=397; 2019: n=441; 2018: n=446

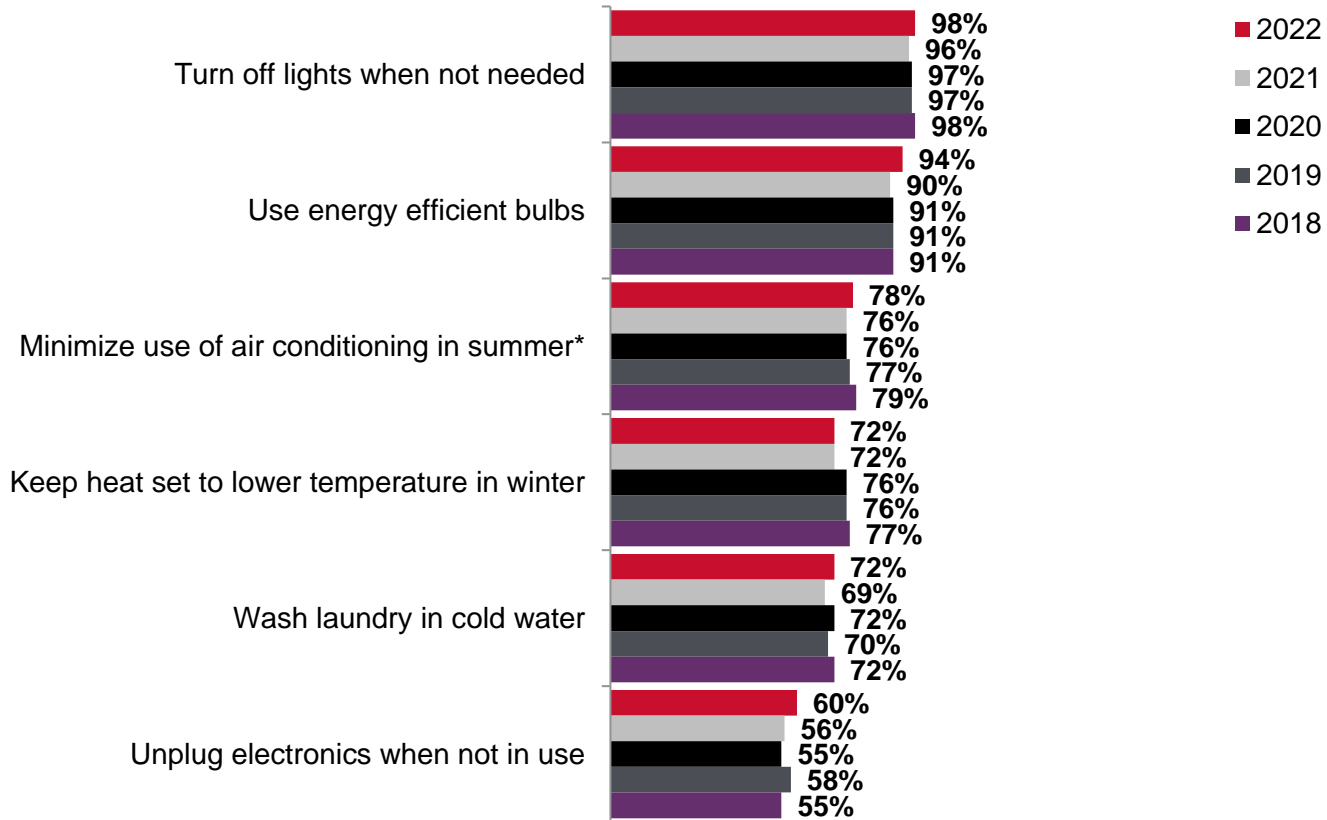
Please tell me which of the following actions you've done to your home or was done to your home by a previous owner.

Base size: All respondents, unless otherwise specified (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)



# Home Energy Efficiency Behaviours

Home Energy Efficiency Behaviours Regularly Done by Calgarians



\*Adjusted to exclude those who answered “not applicable.”

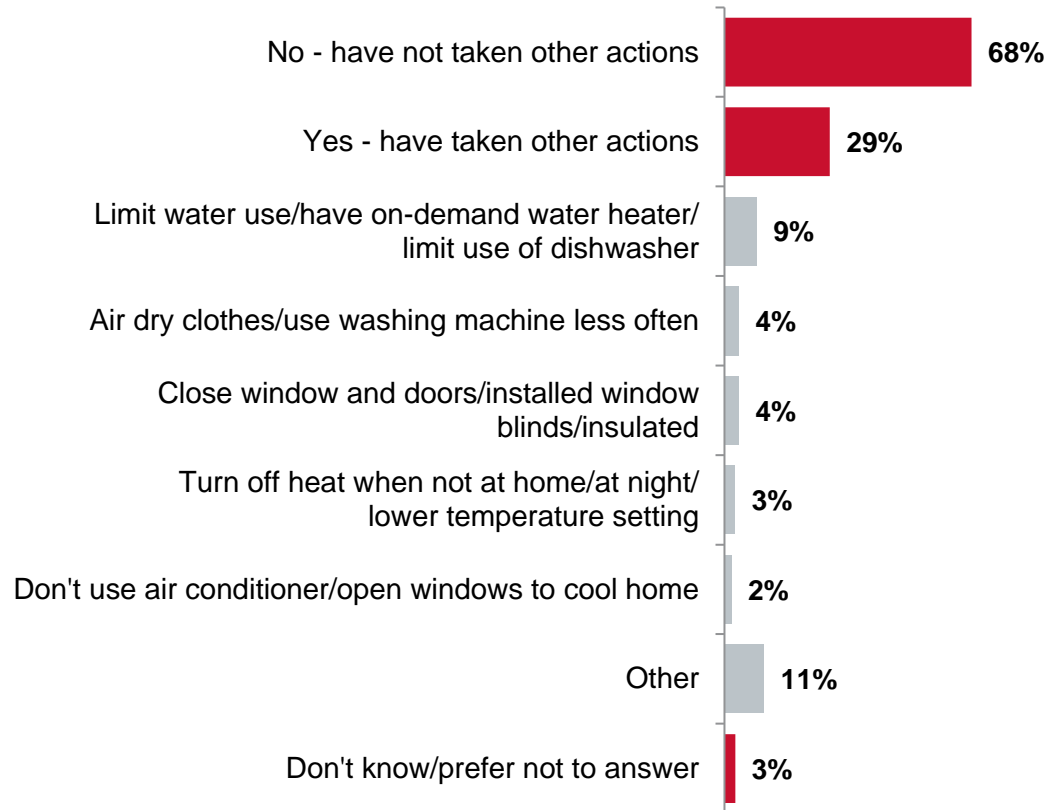
And which of the following do you regularly do to save energy in your home?

Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)



# Other Home Energy Efficiency Behaviours

## Other Home Energy Efficiency Behaviours Done by Calgarians



NOTE: Due to a change in the coding of the responses to this question, results are not compared to those from previous years.

Are there any other actions you've taken to save energy in your home?

NOTE: Response options were not read to the respondent.

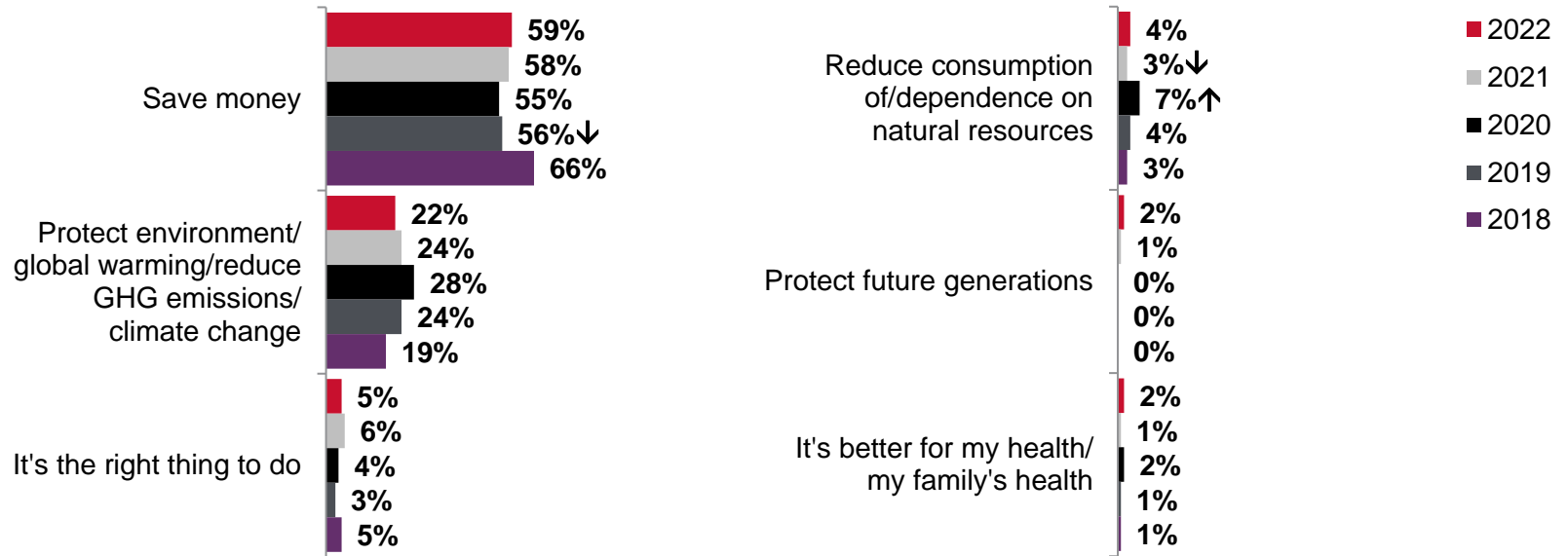
Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)



# Main Reason for Taking Actions to Save Energy

## Main Reason for Taking Actions to Save Energy

### Top-of-Mind (First) Mention



Responses of <2% in 2022 not included

What is your main reason for taking actions to save energy?

NOTE: Response options were not read to the respondent.

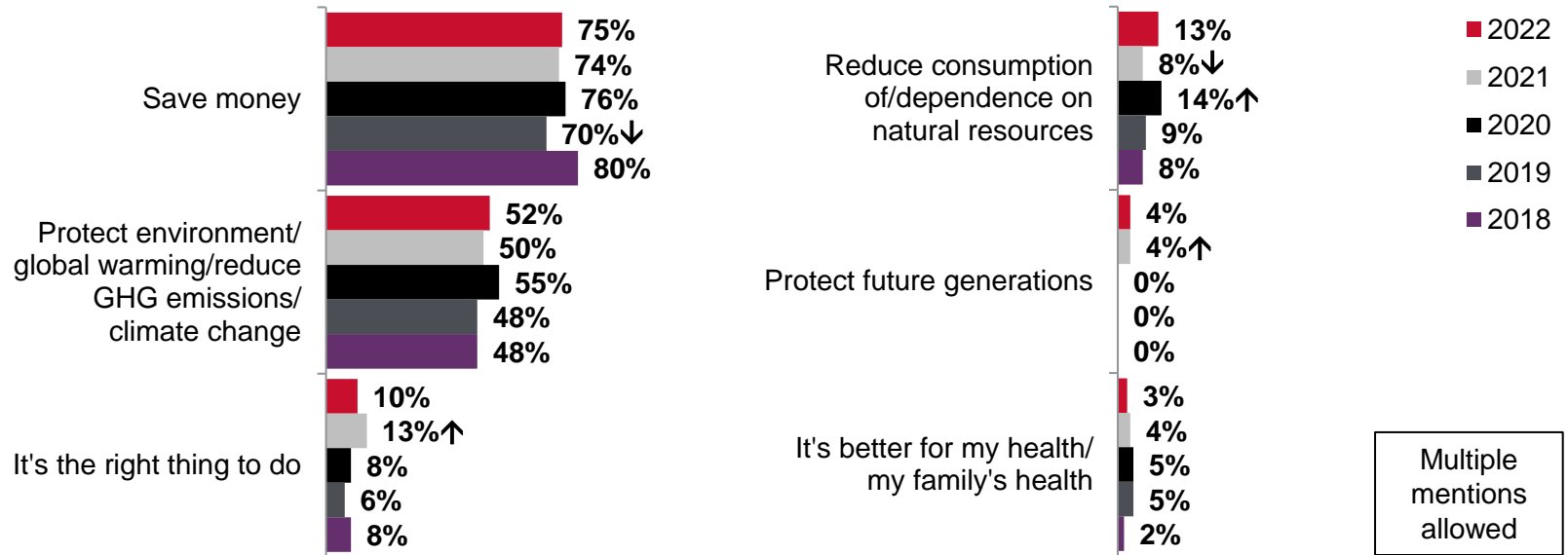
Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)



# All Reasons for Taking Actions to Save Energy

## All Reasons for Taking Actions to Save Energy

### Total (First + Other) Mentions\*



Multiple mentions allowed

Responses of <2% in 2022 not included

What is your main reason for taking actions to save energy? + Are there any other reasons?

NOTE: Response options were not read to the respondent.

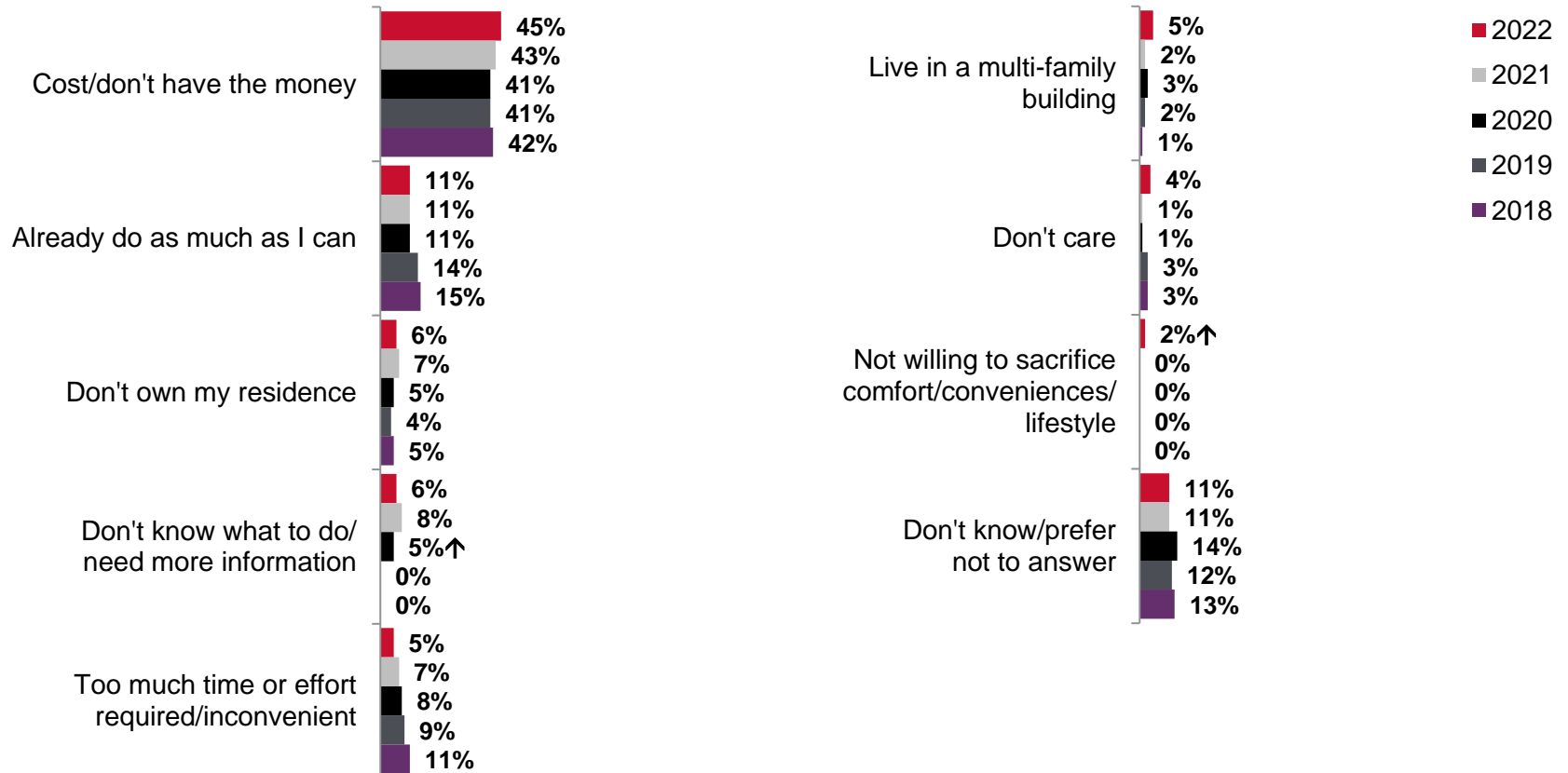
Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)



# Main Reason for Not Doing More to Save Energy

## Main Reason for Not Doing More to Save Energy

### Top-of-Mind (First) Mention



Responses of <2% in 2022 not included

What prevents you from doing more to save energy?

NOTE: Response options were not read to the respondent.

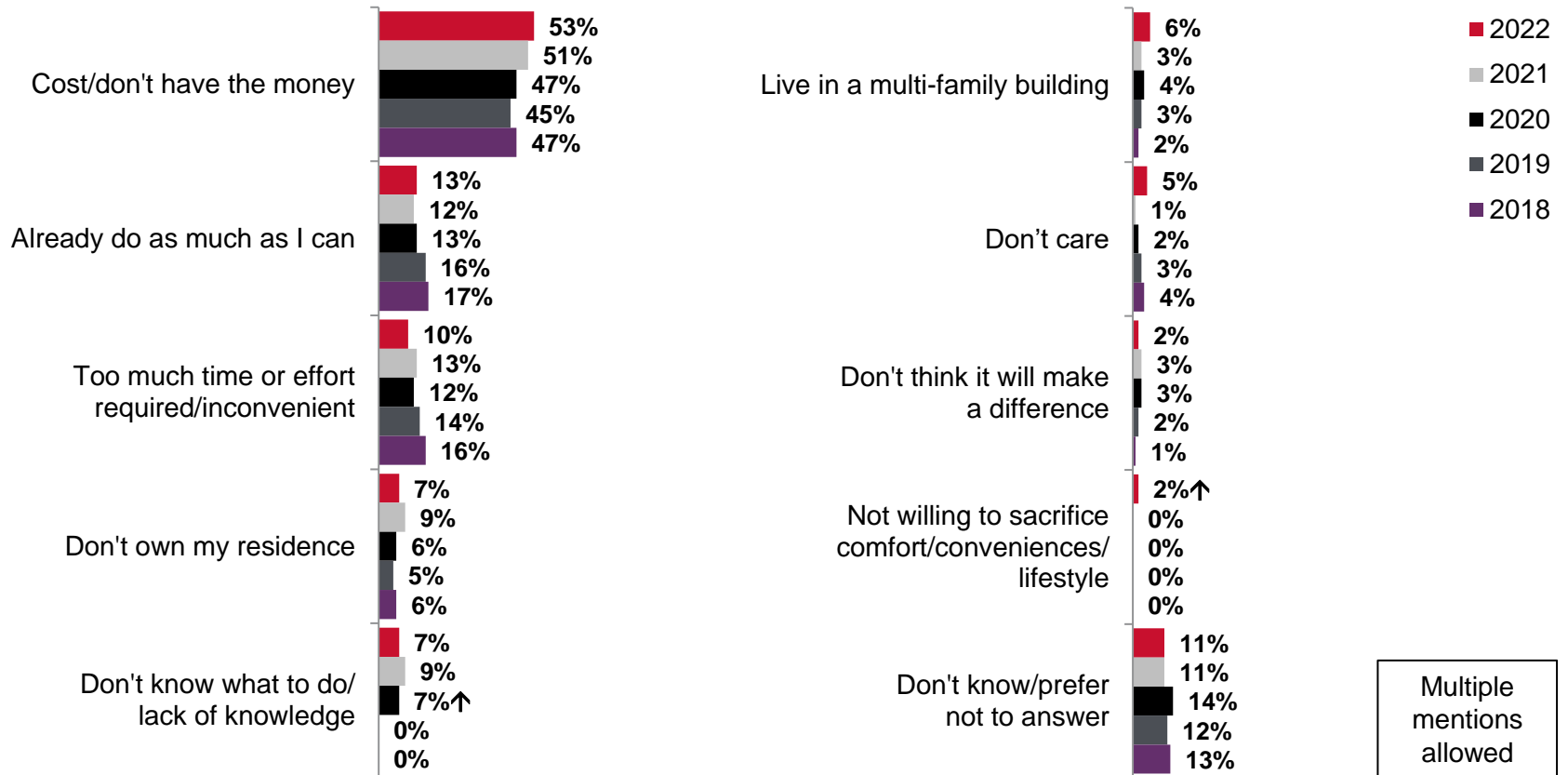
Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)



# All Reasons for Not Doing More to Save Energy

## All Reasons for Not Doing More to Save Energy

### Total (First + Other) Mentions



Responses of <2% in 2022 not included

Multiple mentions allowed

What prevents you from doing more to save energy? + Are there any other reasons?

NOTE: Response options were not read to the respondent.

Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)

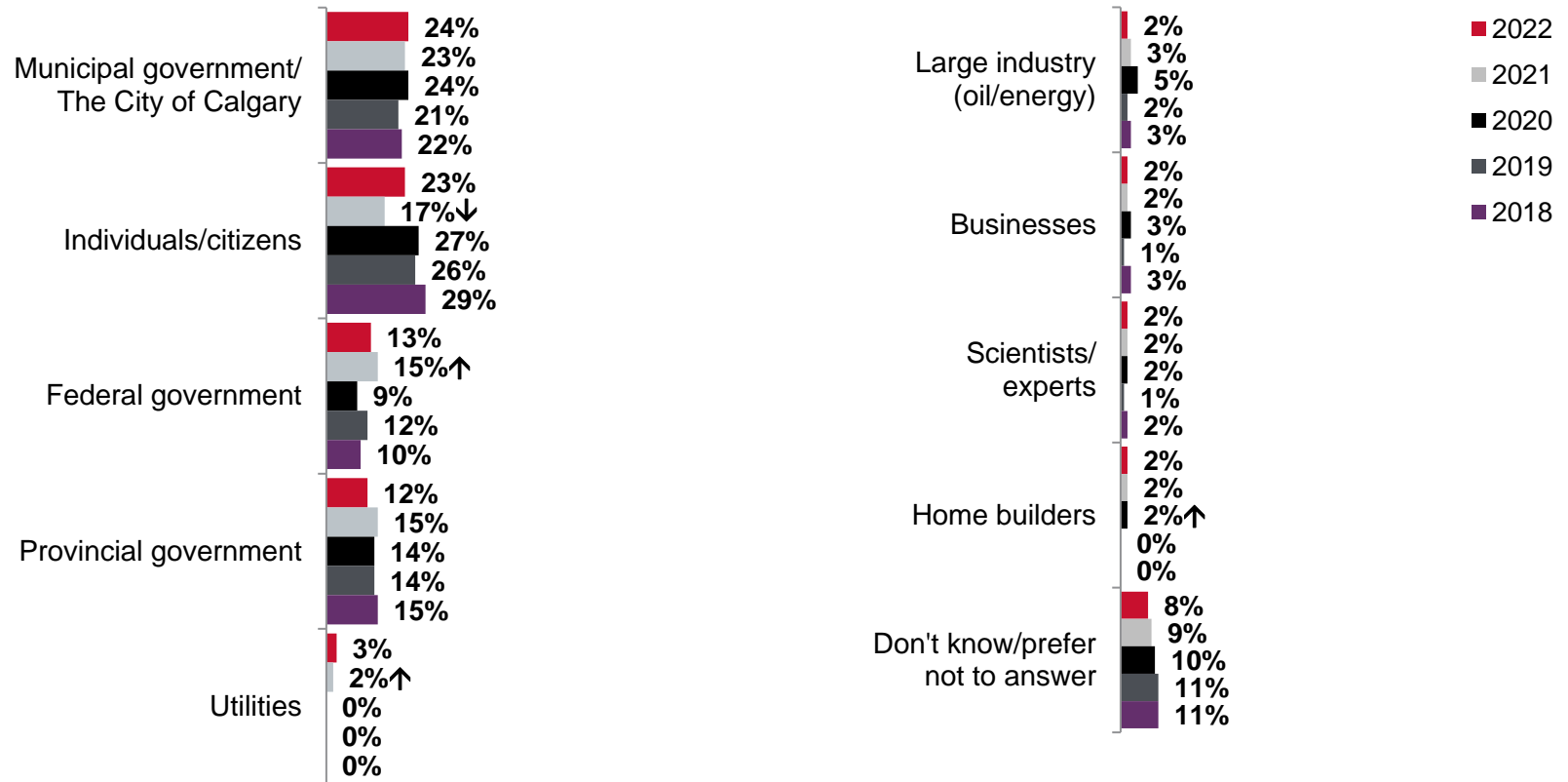




# Perceived Leadership Responsibility

## Perception of Who Should be Leading Citizens in Taking Action to Improve Home Energy Efficiency

### Top-of-Mind (First) Mention



Responses of <2% in 2022 not included

In your opinion, who should be leading citizens in taking action to improve home energy efficiency? Any others?

NOTE: Response options were not read to the respondent.

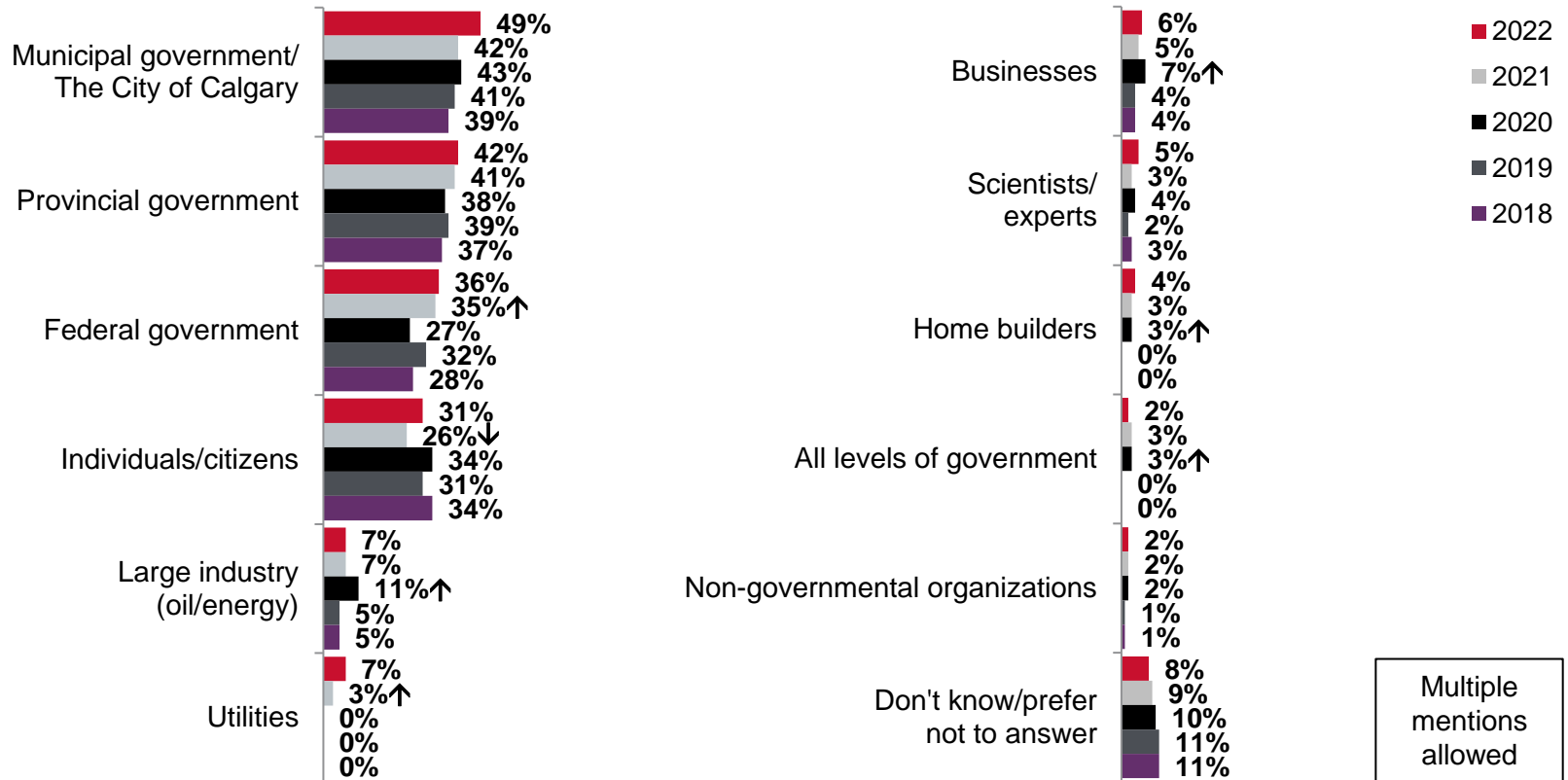
Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)



# Perceived Leadership Responsibility

## Perception of Who Should be Leading Citizens in Taking Action to Improve Home Energy Efficiency

### Total (First + Other) Mentions



Responses of <2% in 2022 not included

Multiple mentions allowed

In your opinion, who should be leading citizens in taking action to improve home energy efficiency? Any others?

NOTE: Response options were not read to the respondent.

Base size: All respondents (2022: n=500; 2021: n=500; 2020: n=502; 2019: n=504; 2018: n=500)

# Demographics

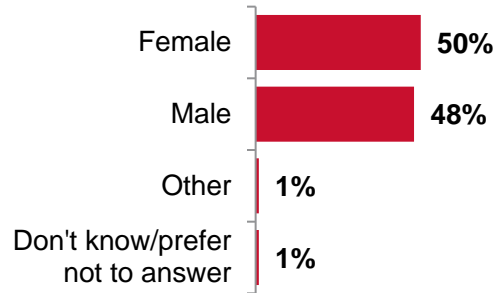




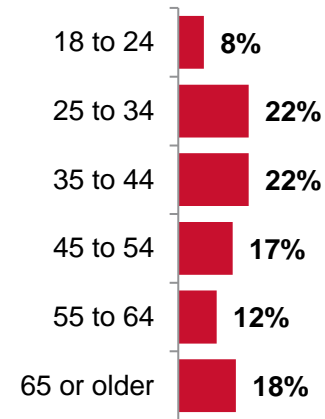
# Demographics

## Gender

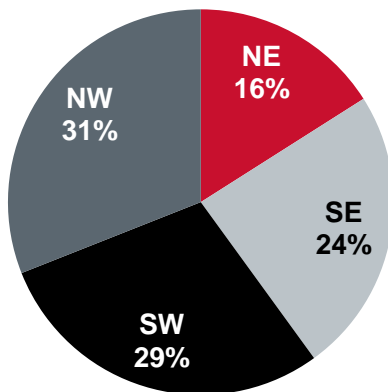
(asked, not inferred)



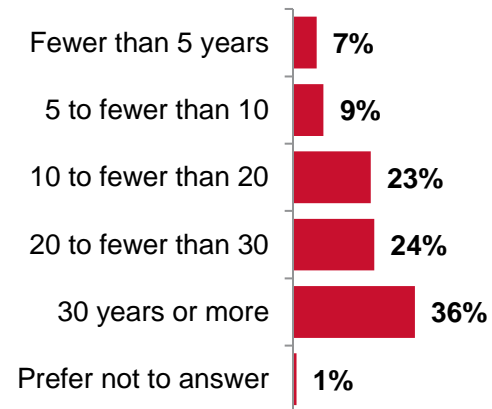
## Age



## Quadrant of Residence



## Years Lived in Calgary



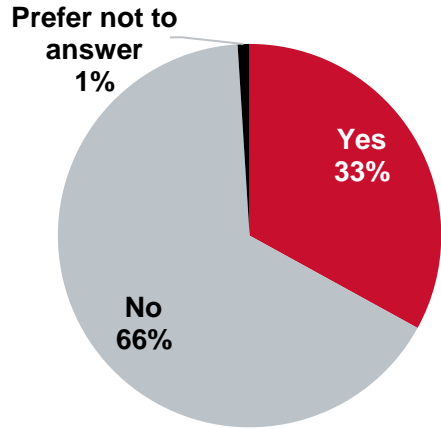
Base: All respondents (n=500)

NOTE: Totals may not add to 100% due to rounding.

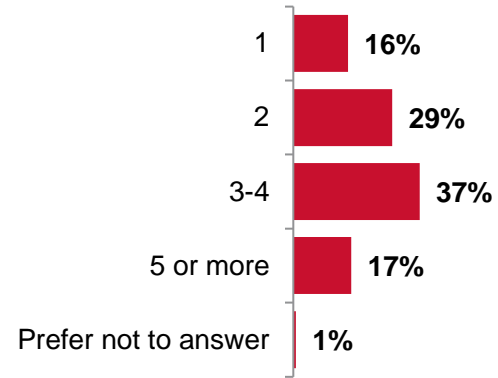


# Demographics – cont'd

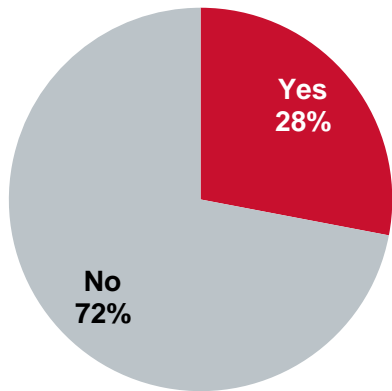
**Children Under the Age of 18 in the Household**



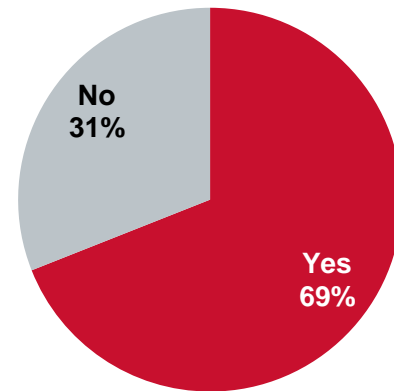
**Household Size**



**Senior (aged 65+ years) in the Household**



**Born in Canada**



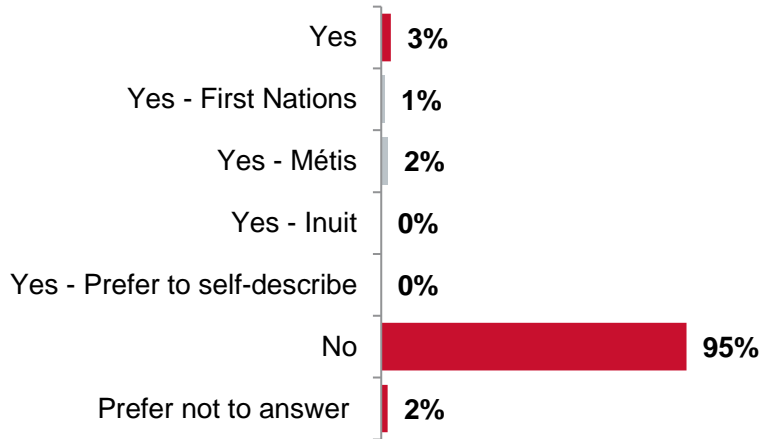
Base: All respondents (n=500)

NOTE: Totals may not add to 100% due to rounding.

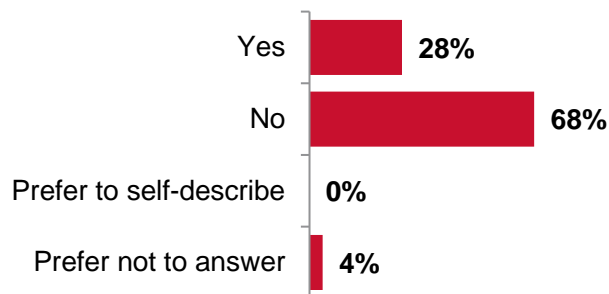


# Demographics – cont'd

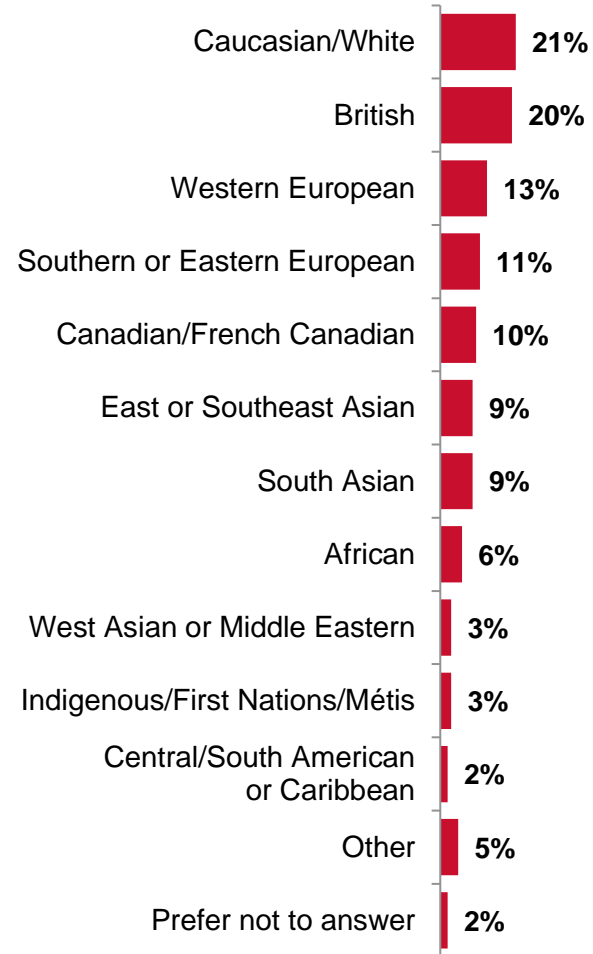
## Indigenous (self-reported)



## Identify as a Racialized Person



## Main Ethnic Background\*



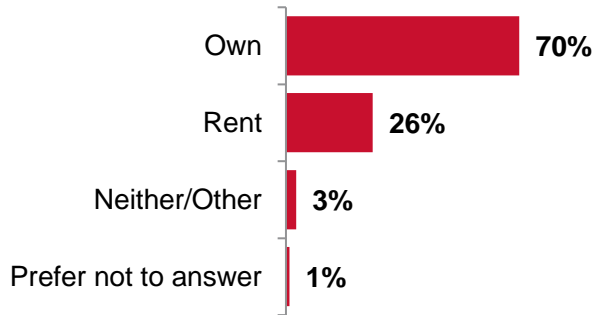
Multiple responses allowed

\*Response options are not read to the respondent

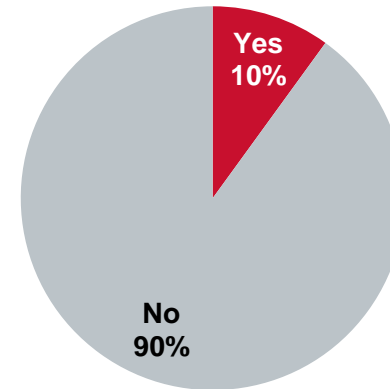


# Demographics – cont'd

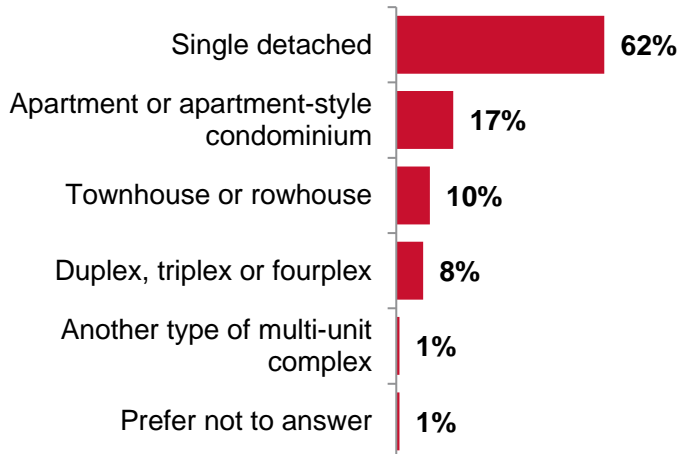
## Home Ownership



## Primarily or Jointly Responsible for Paying Taxes or Rent in Household



## Dwelling Type



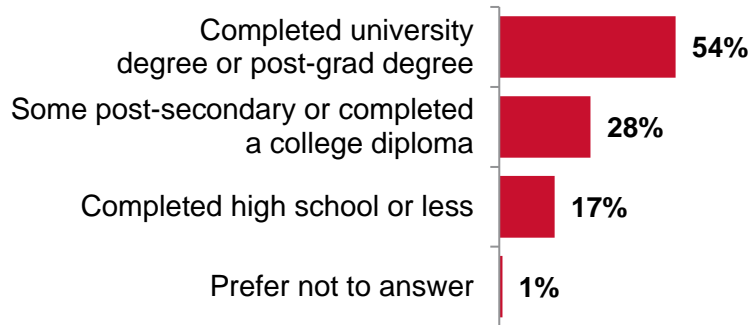
Base: All respondents (n=500)

NOTE: Totals may not add to 100% due to rounding.

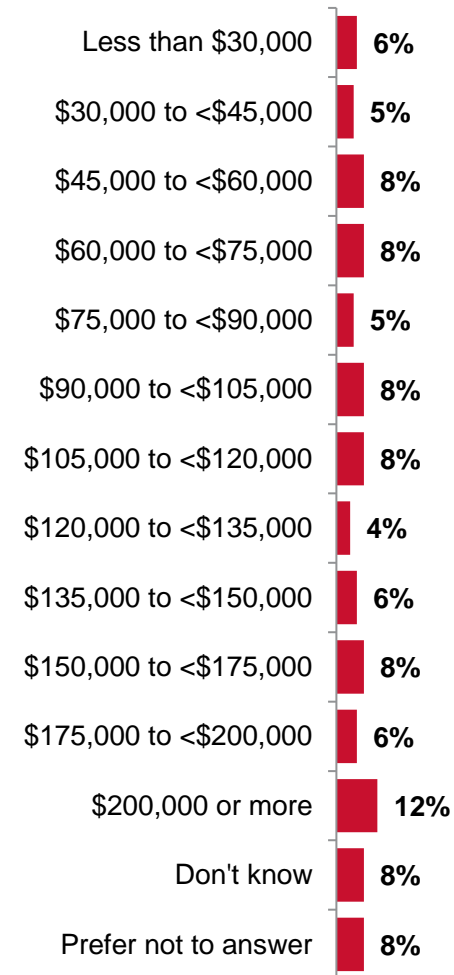


# Demographics – cont'd

## Highest Level of Schooling Obtained



## Annual Household Income



Base: All respondents (n=500)

NOTE: Totals may not add to 100% due to rounding.



# Questionnaire





## INTRODUCTION

Hello, I'm \_\_\_\_\_ with Advanis, calling on behalf of The City of Calgary. We are conducting a study among adult Calgarians about life in Calgary and would like to include your input, which should only take about 20 minutes. Is now a good time?

(INTERVIEWER NOTE: IF CREDIBILITY IS AN ISSUE OR IF RESPONDENT HAS A CONCERN SAY: If you wish to talk to a City official about this survey, we encourage you to contact The City at 311 and specifically mention the "2022 Citizen Perspectives Survey." City staff would be happy to address your concerns.)

## PREQ.

Before we get started, I want to let you know that the personal information collected in this survey is done so under the authority of the Freedom of Information and Protection of Privacy Act, Section 33(c) and is used to provide guidance to The City of Calgary when it comes to making decisions regarding municipal matters. If you have questions about the collection or use of your information, please contact a City of Calgary Research Coordinator at 403-268-3617 and specifically mention the "2022 Citizen Perspectives Survey", send an email to [research@calgary.ca](mailto:research@calgary.ca) or send a letter to "Research Coordinator, The City of Calgary, Mail code 8305, P.O. Box 2100, Station M, Calgary, AB Canada T2P 2M5."

Your participation is voluntary and this call may be recorded for quality control purposes.

## SCREENERS

QS7. To confirm, are you 18 years of age or older and do you currently live in Calgary?

1. Yes [CONTINUE]
2. No → may I please speak with someone who is? [REPEAT INTRODUCTION – INCLUDING THE FOIP STATEMENT]
3. No → not qualified / no one available [THANK & TERMINATE]

## [TRACK GENDER QUOTAS WITHIN QUADRANTS – BASED ON QS1 AND QSEX]

QSEX. Record Gender (DO NOT ASK)

Male  
Female

QS4. And which of the following age groups do you belong to? Just stop me when I get to your age group.

1. 18 to 19 yrs
2. 20 to 24 yrs
3. 25 to 34 yrs
4. 35 to 44 yrs
5. 45 to 54 yrs
6. 55 to 64 yrs
7. 65 to 74 yrs

8. 75 and older
99. Refused [DO NOT READ] [THANK AND END SURVEY]

## AGESEX. [TRACK AGE QUOTAS WITHIN QUADRANTS/GENDER – BASED ON QSEX, QS1 AND QS4]

Male 18 to 34  
Male 35 to 54  
Male 55 Plus  
Female 18 to 34  
Female 35 to 54  
Female 55 Plus

QS1. Can you tell me which quadrant of the city you live in? (WAIT FOR RESPONSE – READ LIST TO CLARIFY IF NEEDED)

1. Southwest
2. Southeast
3. Northwest
4. Northeast
99. (DO NOT READ) Refused [THANK AND END SURVEY]
96. (DO NOT READ) Does not live in Calgary [THANK AND END SURVEY]

## ENVIRONMENT

1. Thinking about things such as air, water, and land quality in the city, how would you rate the overall state of Calgary's environment today? Would you say that it is (READ LIST)

Very good  
Good  
Poor  
Very poor  
Don't know (DO NOT READ)  
Prefer not to answer (DO NOT READ)

In this survey, when we say 'The City of Calgary' or 'The City', we mean the Municipal government including Council and Administration.

2. How satisfied are you with the job The City of Calgary is currently doing to protect the environment? Are you (READ LIST)?

Very satisfied  
Somewhat satisfied  
Not very satisfied  
Not at all satisfied  
Don't know (DO NOT READ)  
Prefer not to answer (DO NOT READ)



# Questionnaire – cont'd

3. And how satisfied are you with The City of Calgary's programs and services aimed at helping Calgarians reduce their environmental impact? (REPEAT SCALE IF NEEDED)?

(INTERVIEWER NOTE: programs and services include such things as Blue cart recycling, multi-family recycling, Green Cart, water use reduction programs, carpooling support, and public education including school programming)

- Very satisfied
- Somewhat satisfied
- Not very satisfied
- Not at all satisfied
- Don't know (DO NOT READ)
- Prefer not to answer (DO NOT READ)

**WEATHER EVENTS**

4. Have you been impacted by any of the following extreme weather events in the past 5 years? By impacted, I mean where there has been damage, you have incurred costs, health impacts, or injury. [READ AND SELECT ALL THAT APPLY]

[RANDOMIZE]

- Snow or ice storm
- Hailstorm
- Severe winds

[KEEP NEXT 2 TOGETHER AND IN ORDER]

- Extreme rain events and associated flooding, not including river flooding
- River flooding
- Drought
- Tornado
- Heat wave or extreme heat
- Wildfire/smoke

- Yes
- No
- Don't know (DO NOT READ)
- Prefer to not answer (DO NOT READ)

5. Please tell me if you think there will be more, less, or about the same amount of each of the following extreme weather events over the next 10 years.

[RANDOMIZE]

- Snow or ice storm
- Hailstorm
- Severe winds

[KEEP NEXT 2 TOGETHER AND IN ORDER]

- Extreme rain events and associated flooding, not including river flooding
- River flooding
- Drought
- Tornado
- Heat wave or extreme heat
- Wildfire/smoke

- More
- Less
- About the same
- Don't know (DO NOT READ)
- Prefer to not answer (DO NOT READ)

6. How concerned are you about the impacts that extreme weather events are having, or might have, on your life? Would you say you are ...

- Very concerned
- Somewhat concerned
- Not very concerned
- Not at all concerned
- Don't know (DO NOT READ)
- Prefer to not answer (DO NOT READ)

7. Please indicate if you have done any of the following to reduce the impact of these types of events on you. Please answer yes or no for each.

[RANDOMIZE, READ EACH ITEM]

- Installed hail-resistant roofing
- Installed hail-resistant siding
- Purchased flood insurance
- Planted drought-resistant plants
- Planted trees for shade
- Improved water drainage on your property
- Moved to a different location
- Installed air conditioning
- Purchased an air purifier
- Have you done anything else to reduce the impact of extreme weather events on you? (please specify):
- Nothing
- Don't know
- Prefer to not answer



# Questionnaire – cont’d

8. In your opinion, who should be leading citizens in taking action to help reduce the potential impacts of extreme weather events?

**IF RESPONDENT MENTIONS "(THE) GOVERNMENT", PROBE FOR MUNICIPAL, PROVINCIAL, OR FEDERAL GOVERNMENT.**

**[PRE-CODE LIST; DO NOT READ; MULTI-PUNCH; RECORD FIRST MENTION SEPARATELY]**

- Individuals/citizens
- Businesses
- Municipal government
- Provincial government
- Federal government
- Insurance industry
- Large industry (e.g. oil/energy companies)
- Utilities
- Non-governmental organizations
- Scientists/Experts
- Other (please specify):
- None
- Don't know
- Prefer to not answer

**ENERGY EFFICIENCY**

9. To ensure we ask only questions that are relevant to you, please tell me which of the following best describes the type of home you live in:

- Single detached house **(INTERVIEWER NOTE: This includes bungalow, split level, 2-story, suite in a house, etc.)**
- Duplex, triplex or fourplex
- Townhouse or rowhouse
- Apartment or apartment-style condominium
- Another type of multi-unit complex **(INTERVIEWER NOTE: This includes mobile home park, trailer park, seniors' home, etc.)**
- Don't know **(DO NOT READ)**
- Prefer to not answer **(DO NOT READ)**

10. Please tell me which, if any, of the following actions you've done to your home or was done to your home by a previous owner.

**(INTERVIEWER NOTE: Repeat the question if needed after first few items in list.)**

**[RANDOMIZE; READ LIST]**

- Installed a programmable thermostat
- Purchased energy efficient appliances
- Added weather-stripping or caulking around doors and windows
- Installed energy efficient windows
- [DO NOT ASK THE FOLLOWING 5 ITEMS IF Q9 IS "APARTMENT/APARTMENT-STYLE CONDO" OR "ANOTHER TYPE OF MULTI-UNIT COMPLEX"]**
- Installed an energy efficient furnace
- Insulated your basement
- Increased insulation in your attic
- Insulated exposed hot water pipes
- Installed solar panels

- Yes
- No
- Not applicable **(DO NOT READ; SELECT ONLY IF RESPONDENT INDICATES IT DOESN'T APPLY TO THEM)**
- Don't know **(DO NOT READ)**
- Prefer to not answer **(DO NOT READ)**

11. And which of the following, if any, do you regularly do to save energy in your home?

**[ASK ALL; RANDOMIZE; READ LIST; MULTI-PUNCH]**

- Keep the heat set at a lower temperature in the winter
- Minimize use of air conditioning in the summer
- Turn off lights when they are not needed
- Wash laundry in cold water
- Unplug electronics when not in use
- Use energy efficient light bulbs

- Yes
- No
- Not applicable **(DO NOT READ; SELECT ONLY IF RESPONDENT INDICATES IT DOESN'T APPLY TO THEM)**
- Don't know **(DO NOT READ)**
- Prefer to not answer **(DO NOT READ)**

12. Are there any other actions you've taken to save energy in your home?

**[OPEN END]**

- No **(DO NOT READ)**
- Don't know **(DO NOT READ)**
- Prefer to not answer **(DO NOT READ)**



# Questionnaire – cont’d

**[IF “YES” TO ANY IN Q11, ASK Q13; ELSE SKIP TO Q14]**

13. What is your main reason for taking actions to save energy? Are there any other reasons?

**[PRE-CODE LIST; DO NOT READ; MULTI-PUNCH; RECORD FIRST MENTION SEPARATELY]**

- Save money
- Protect the environment/pollution
- Reduce greenhouse gas emissions/global warming
- Climate change
- It's better for my health/my family's health
- Reduce consumption of/dependence on natural resources
- It's the right thing to do
- Pressure from family/other members of the household
- Received grant/program assistance
- Protect animals and/or other non-human species
- Other (please specify):
- Don't know (DO NOT READ)
- Prefer to not answer (DO NOT READ)

14. What prevents you from doing more to save energy in your home? Are there any other reasons?

**[PRE-CODE LIST; DO NOT READ; MULTI-PUNCH; RECORD FIRST MENTION SEPARATELY]**

- Cost/don't have the money
- Too much time or effort required/inconvenient
- Don't think it will make a difference
- Don't care
- Don't own my residence
- Live in a multi-family residence/building
- Already do as much as I can
- Don't know what to do
- Other (please specify):
- Don't know (DO NOT READ)
- Prefer to not answer (DO NOT READ)

15. In your opinion, who should be leading citizens in taking action to improve home energy efficiency? Any others?

**IF RESPONDENT MENTIONS "(THE) GOVERNMENT", PROBE FOR MUNICIPAL, PROVINCIAL, OR FEDERAL GOVERNMENT.**

**[PRE-CODE LIST; DO NOT READ; MULTI-PUNCH; RECORD FIRST MENTION SEPARATELY]**

- Individuals/citizens
- Businesses
- Municipal government
- Provincial government
- Federal government
- Large industry (e.g. oil/energy companies)
- Utilities
- Non-governmental organizations
- Scientists/Experts
- Other (please specify):
- Don't know (DO NOT READ)
- Prefer to not answer (DO NOT READ)

## CLIMATE CHANGE

16. The next few statements are about how you personally feel about climate change. For each of the statements, please tell me if you strongly agree, somewhat agree, neither agree nor disagree, somewhat disagree, strongly disagree, or aren't sure. The first is ...

**[RANDOMIZE]**

- I am concerned about the causes of climate change.
- I am concerned about the impacts of climate change on Calgarians
- Climate change is caused mostly by human activities.
- My individual actions contribute to global climate change.
- I think Calgarians should be doing more to help prevent climate change.
- I want to do more personally to help prevent climate change.
- I think we need to act now to address the causes of climate change.
- I think we need to act now to prepare for local impacts of climate change
- [KEEP LAST 2 TOGETHER; ASK LAST]**
- I am taking action to help prevent climate change.
- I am taking action to prepare for a changing climate.

- Strongly agree
- Somewhat agree
- Neither agree nor disagree
- Somewhat disagree
- Strongly disagree
- Not sure
- Prefer to not answer (DO NOT READ)



# Questionnaire – cont'd

17. Please tell me which of the following statements best describes your opinion about what The City of Calgary is doing to address climate change. Do you think The City ...

- Should be doing more than it currently is,
- Is currently doing the right amount,
- Should be doing less than it currently is, or
- You're not sure
- Prefer to not answer (DO NOT READ)

18. Thinking back to one year ago, to what extent did you support or oppose taking action on climate change? Were you ...

- Very supportive
- Somewhat supportive
- Somewhat opposed
- Very opposed
- Don't know (DO NOT READ)
- Prefer to not answer (DO NOT READ)

19. a) And in the past year, has your support for taking action on climate change changed?

- Yes
- No
- Don't know
- Prefer to not answer

**[IF 'YES' IN Q19a ASK Q19b]**

b) Have you become more or less supportive?

- More supportive
- Less supportive
- Don't know (DO NOT READ)
- Prefer to not answer (DO NOT READ)

**[IF 'MORE SUPPORTIVE' OR 'LESS SUPPORTIVE' IN Q19b, ASK Q20]**

20. Why has your level of support for taking action on climate change changed in the last year?

Please be as specific as possible.

- [OPEN END]**
- Don't know (DO NOT READ)
- Prefer to not answer (DO NOT READ)

21. To what extent do you trust or distrust The City as a source of information about climate change? Would you say ...

- Trust a great deal
- Trust a little
- Neither trust nor distrust
- Distrust a little
- Distrust a great deal
- Don't know (DO NOT READ)
- Prefer to not answer (DO NOT READ)

22. Before now, were you aware that The City's Climate Program includes the following?:

**[RANDOMIZE]**

A Clean Energy Improvement Program that provides financing to residential property owners to pay for eligible energy upgrades, with repayment collected through property taxes.

The Climate Ready Home Guide, which provides information about home and property improvements to increase resiliency against impacts of climate change.

An annual, virtual Calgary Climate Symposium to explore innovative solutions to climate change and how Calgary can prepare for the impacts of a changing climate.

A Climate Strategy.

- Yes
- No
- Don't know (DO NOT READ)
- Prefer to not answer (DO NOT READ)

23. The next question is about net-zero emissions. This means reducing the amount of man-made greenhouse gas released into the atmosphere and removing an equivalent amount of emissions from the environment. To what extent do you support or oppose the city, meaning the municipal government and citizens, moving to net-zero by the year 2050?

**[INTERVIEWER NOTE: If respondent thinks the city is already net-zero, respond with "The City is not yet net-zero."]**

- Strongly support
- Somewhat support
- Somewhat oppose
- Strongly oppose
- Don't know (DO NOT READ)
- Prefer to not answer (DO NOT READ)



# Questionnaire – cont'd

**DEMOGRAPHICS**

And finally, I have a few questions that will be used to help us classify responses.

24. How many people, including yourself, live in your household?

RECORD NUMBER (RANGE 1 – 10)  
Prefer to not answer (DO NOT READ)

[IF 2 OR MORE IN Q24 ASK Q25 AND Q26, ELSE SKIP TO Q27]

25. Do you have children under the age of 18 living in your household?

Yes  
No  
Prefer to not answer (DO NOT READ)

26. Is there anyone aged 65 years or older living in your household?

[PROGRAMMER: IF RESPONDENT IS 65 OR OLDER, PREFACE QUESTION WITH "BESIDES YOURSELF"]

Yes  
No  
Prefer to not answer (DO NOT READ)

**[ASK ALL]**

27. Are you either primarily or jointly responsible for paying property taxes or rent in your household?

Yes  
No  
Prefer to not answer (DO NOT READ)

28. Do you own or rent your current place of residence?

Own  
Rent  
Neither (DO NOT READ)  
Other (please specify) (DO NOT READ)  
Prefer to not answer (DO NOT READ)

29. How many years have you lived in Calgary?

ENTER NUMBER (IF LESS THAN 1 YEAR ENTER 0) [ ]

30. We want to make sure our research is reflective of all Calgarians. Were you born in Canada?

Yes  
No  
Prefer to not answer (DO NOT READ)

31. Are you Indigenous - that is, First Nations, Métis, or Inuit? [MULTIPLE RESPONSES ACCEPTED]

Yes - First Nations  
Yes - Métis  
Yes - Inuit  
Yes - Prefer to self-describe (specify)  
No  
Prefer to not answer (DO NOT READ)

[IF Q31=NO OR PREFER NOT TO ANSWER, ASK Q32]

32. Do you consider yourself a Racialized person? A Racialized person means someone, other than Indigenous people, who are non-Caucasian in race or non-white in colour.

Yes  
No  
Prefer to self-describe (please specify)  
Prefer to not answer (DO NOT READ)

[IF YES TO ANY IN Q31, SKIP Q33]

33. As you know, Canadians come from many different ethnic backgrounds. What is your main ethnic background? (DO NOT READ LIST. ACCEPT UP TO 2 RESPONSES.) (PROBE TO CLARIFY ONLY IF NECESSARY)

- Canadian/French Canadian*
- Caucasian/White*
- British* (English/Scottish/Welsh/Irish)
- Western European* (from Austria, Belgium, France, Germany, Netherlands, or other)
- Southern or Eastern European* (from Greece, Italy, Portugal, Spain, Bosnia, Croatia, Serbia, Czech Republic, Hungary, Poland, Slovakia, Ukraine, former Soviet Republics, or other)
- South Asian* (Punjabi, Indian, Tamil, Sri Lankan, Pakistani, Bangladeshi, Nepalese)
- East or Southeast Asian* (from China, Hong Kong, Japan, North or South Korea, Indonesia, Malaysia, Philippines, Singapore, Thailand, Vietnam or other)
- West Asian or Middle Eastern* (from Afghanistan, Iran, Iraq, Israel, Lebanon, Saudi Arabia, Syria, Turkey or other)
- African*
- Central/South American or Caribbean* (from Argentina, Brazil, Columbia, El Salvador, Guatemala, Mexico, Venezuela, Barbados, Jamaica, or other)
- Indigenous/First Nations/Métis/Inuit*
- Other (please specify)
- Prefer to not answer (DO NOT READ)



# Questionnaire – cont'd

34. What is the highest level of schooling that you have obtained? Have you ... (READ LIST)

- Not completed high school or equivalent
- Completed high school or equivalent
- Completed a Registered Apprenticeship or other trades certificate or diploma
- Completed a college or other non-university certificate or diploma
- Or completed a university or post-graduate certificate, diploma or degree
- Prefer not to answer (DO NOT READ)

35. Which of the following categories best describes the total annual income, before taxes, of all the members of your household? Please stop me when I get to your category. (READ LIST – ACCEPT RESPONSE BEFORE FINISHING LIST)

- Less than \$90,000
- \$90,000 to just under \$150,000
- \$150,000 and over
- Don't know (DO NOT READ)
- Prefer not to answer (DO NOT READ)

[IF "Less than \$90,000" ASK Q35b. IF "\$90,000 to just under \$150,000" ASK Q35c. IF "\$150,000 and over" ASK Q35d. IF DK/REF, GO TO Q34]

33b. Would that be... (READ LIST – ACCEPT RESPONSES BEFORE FINISHING LIST)

- Less than \$30,000
- \$30,000 to just under \$45,000
- \$45,000 to just under \$60,000
- \$60,000 to just under \$75,000
- \$75,000 to just under \$90,000
- Don't know (DO NOT READ)
- Prefer not to answer (DO NOT READ)

35c. Would that be... (READ LIST – ACCEPT RESPONSES BEFORE FINISHING LIST)

- \$90,000 to just under \$105,000
- \$105,000 to just under \$120,000
- \$120,000 to just under \$135,000
- \$135,000 to just under \$150,000
- Don't know (DO NOT READ)
- Prefer not to answer (DO NOT READ)

35d. Would that be... (READ LIST – ACCEPT RESPONSES BEFORE FINISHING LIST)

- \$150,000 to just under \$175,000
- \$175,000 to just under \$200,000
- \$200,000 to just under \$225,000
- \$225,000 to just under \$250,000
- \$250,000 and over
- Don't know (DO NOT READ)
- Prefer not to answer (DO NOT READ)

36. What is your gender?

(IF NECESSARY - DO NOT READ EXCEPT TO CLARIFY: Gender refers to the gender that a person internally feels and/or the gender a person publicly expresses in their daily life, including at work, while shopping, or accessing other services, in their home or in the broader community.)

DO NOT READ LIST EXCEPT TO CLARIFY

- 01 – Male
- 02 – Female
- 03 – Other – please specify
- 99 – Prefer not to answer

37. Would you be interested in participating in future research related to The City of Calgary?

- Yes
- No (SKIP TO CLOSE)
- Don't know (SKIP TO CLOSE)

[IF "YES" AT Q37, ASK Q37b, ELSE SKIP TO CLOSE]

37b. Could I please have an email address where we can contact you?

[RECORD EMAIL ADDRESS. ENSURE VALID EMAIL FORMAT.]

37c. Could I please have your first name and a telephone number you can be best reached at?

[RECORD FIRST NAME AND CONFIRM/CHANGE TELEPHONE NUMBER]

37d. Is this phone number a cell phone or a landline?

- 1 Cell phone
- 2 Landline
- 99 Prefer not to answer

This completes the survey. Thank you very much for taking the time to provide feedback.