

Barker, Jared

From: David Zeballos <david@climateintegrity.org>
Sent: Thursday, July 27, 2023 4:18 PM
To: David Zeballos
Subject: NEW Pennsylvania climate cost study from CCI

Hi all,

Thanks so much for registering to our Allegheny County Climate Cost briefing on **Monday, 7/31 from 12 - 1pm**. We wanted to pass along our newly released climate cost study. We will be going over the Allegheny findings in-depth on Monday's call, so please join us then! **Feel free to pass the [registration link](#) to anyone else who may be interested as well.**

The Center for Climate Integrity, Resilient Analytics, and Scioto Analysis are unveiling a new report that calculates the costs of adapting to eight climate impacts for more than 2,000 municipalities in PA.

The report, [Pennsylvania's Looming Climate Cost Crisis: The Rising Price to Protect Communities from Extreme Heat, Precipitation, and Sea-Level Rise](#), is the first-ever attempt to determine the costs Pennsylvania municipalities will face to protect infrastructure and communities from climate change.

The study finds that **municipal governments across Pennsylvania face more than \$15 billion in climate adaptation costs by 2040**, or nearly \$1 billion a year, to protect residents from hotter weather, heavier rain, and rising sea levels.

We're including a toolkit with topline findings, talking points, and sample social media posts as well. We encourage you to spread the word about the report using the toolkit to guide you!

- **Read the [full study here](#).**
- **Access the [toolkit here](#).**

Resilient Analytics has also made available an [interactive visualization platform](#) using the full set of climate scenarios from this study.

Also of note — [a recent poll of likely voters across Pennsylvania](#), conducted by Upswing Research in July 2023, found widespread support for making climate polluters pay for climate change costs.

- 90% of respondents said oil and gas companies should be required to pay at least some of the costs to help local communities in Pennsylvania adapt to climate change.
- 69% said they support suing oil and gas companies to make them pay their fair share of these costs.
- 69% also said they would be more likely to support a candidate who supports legal action to make polluters pay.

As a reminder, the [Center for Climate Integrity](#) empowers communities and elected officials with the knowledge and tools they need to hold oil and gas corporations accountable for the massive costs of climate change. **If you have any questions about this report, or about climate accountability in general, we are happy to jump on the phone with you.**

Best,
David Zeballos (he/him)
Senior Political Associate

Center for Climate Integrity | CCI's Leaders Network
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+1 (321) 576 6361

Barker, Jared

From: David Zeballos <david@climateintegrity.org>
Sent: Wednesday, August 2, 2023 2:44 PM
To: David Zeballos; lyla Shornstein
Subject: Recording of PA climate cost webinar and follow up links
Attachments: Allegheny County Climate Cost Briefing Slides.pdf

Good afternoon,

Thank you so much for taking the time to join us for the Allegheny County briefing on the costs of climate change as estimated in the new report, [Pennsylvania's Looming Climate Cost Crisis: The Rising Price to Protect Communities from Extreme Heat, Precipitation, and Sea Level Rise](#).

A recording of the presentation can be found [here](#) and a PDF of the slides is attached to this email.

Read the full study and download individual climate cost projections for every municipality in Pennsylvania [here](#).

The interactive visualization platform that Resilient Analytics shared during the presentation [is available to access here](#). The tool uses the full set of climate scenarios from this study.

If you would like to discuss any of the topics covered during the webinar in more detail, our team would be more than happy to set up a time to chat. Furthermore, if you would like to arrange a presentation of the findings for city/county councils, legislators, coalitions, community members, or others, let us know. Please don't hesitate to reach out with questions.

Best,

David Zeballos (he/him)
Senior Political Associate

Center for Climate Integrity | CCI's Leaders Network

david@climateintegrity.org

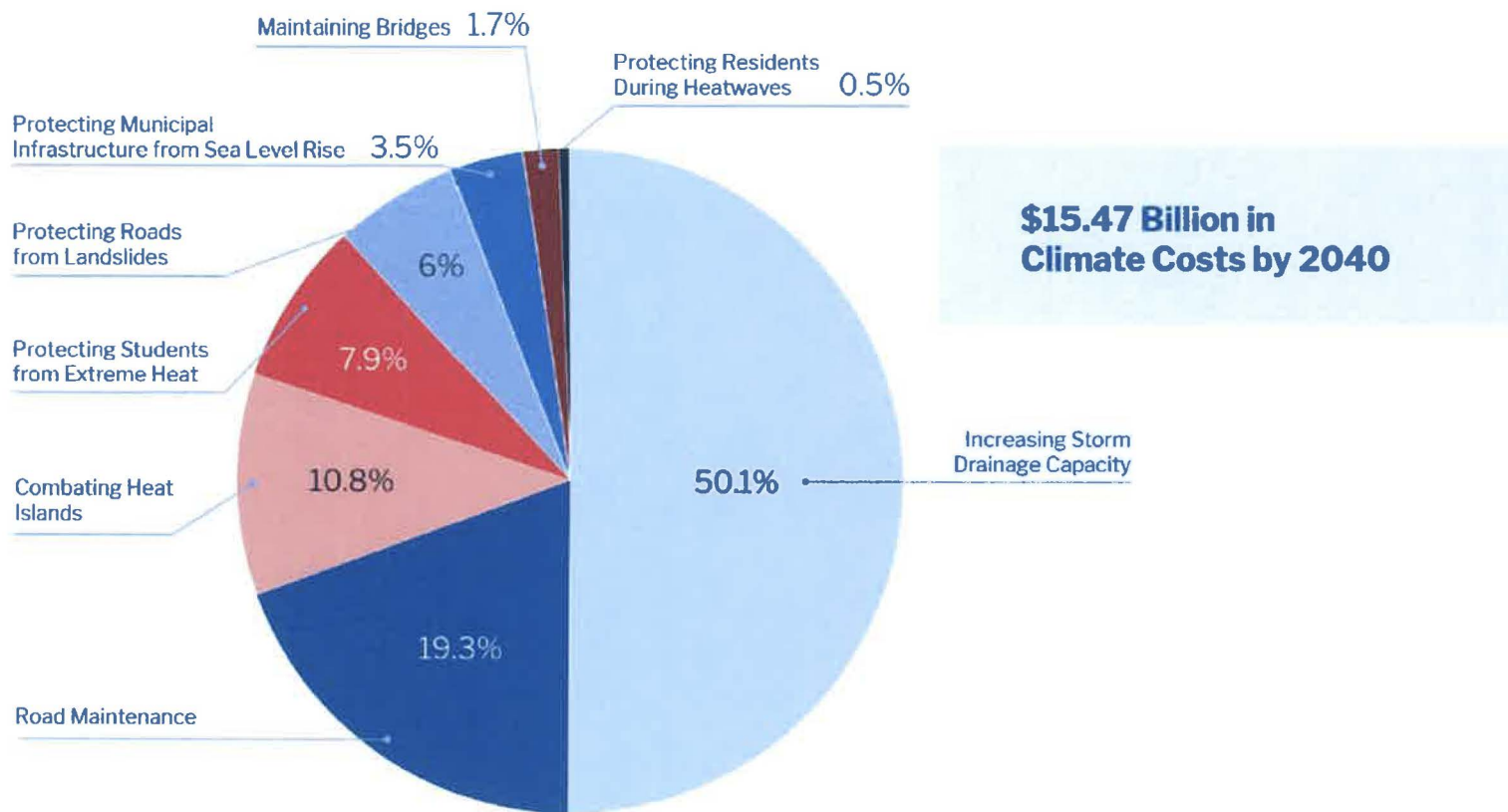
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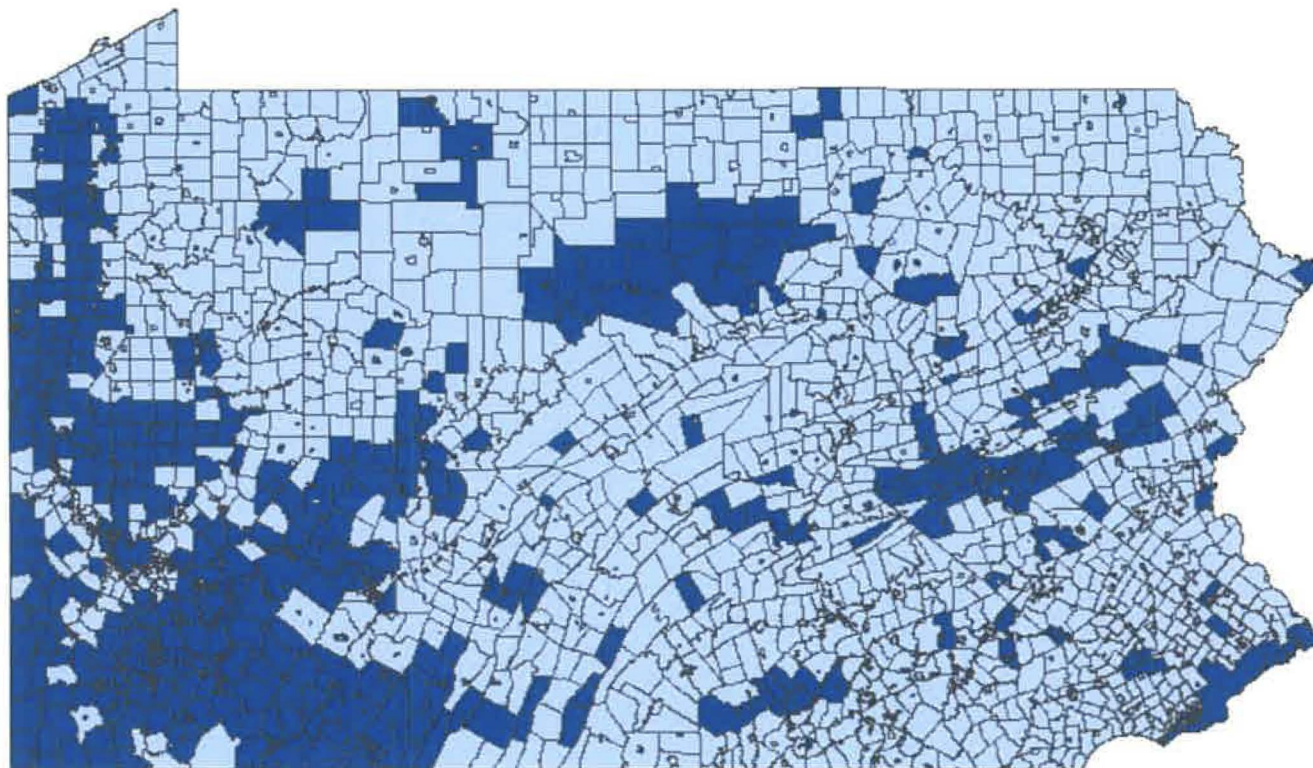
Pennsylvania's Looming Climate Cost Crisis

The Rising Price to Protect Communities from
Extreme Heat, Precipitation, and Sea Level Rise

July 2023

Figure 1: Increasing stormwater drainage capacity makes up half of total climate adaptation costs in Pennsylvania.





Map 1: Rural and high-poverty municipalities face the highest per capita climate adaptation costs.

Map developed by Scioto Analysis.

Per Capita Annual Spending

Below Average

Above Average

We calculated the climate adaptation costs that municipalities in Allegheny County will face by 2040 from eight climate impacts:



Heat-Related Impacts

1. Protecting students from extreme heat
2. Protecting residents during heatwaves
3. Combating heat islands

Precipitation-Related Impacts

4. Increasing storm drainage capacity
5. Maintaining roads
6. Maintaining bridges
7. Protecting roads from landslides

Sea Level Rise

8. Protecting public infrastructure

Top 10 Most Costly Municipalities in Allegheny County

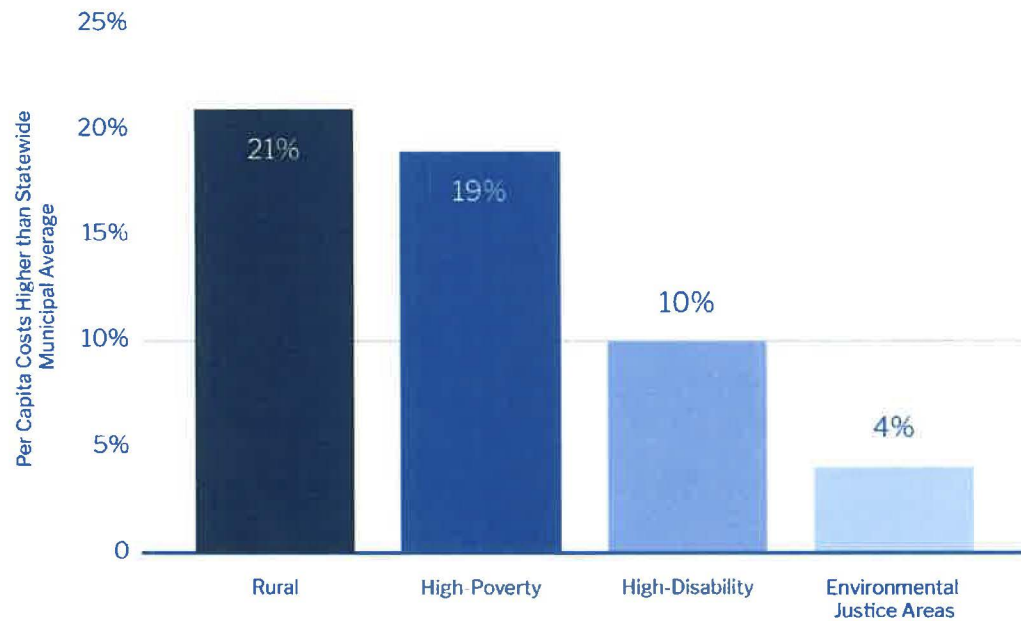
| Municipality | Total Cost by 2040 |
|--------------|--------------------|
| Pittsburgh | \$522.7 million |
| Pine | \$73.5 million |
| Ross | \$61.3 million |
| Monroeville | \$47.7 million |
| McCandless | \$45.7 million |
| Richland | \$41.5 million |
| Penn Hills | \$38.5 million |
| Bethel Park | \$29.5 million |
| Forward | \$27.9 million |

Total Cost by Climate Impact in Allegheny County

| Impact | Total Cost by 2040 |
|---|--------------------|
| Increasing stormwater drainage capacity | \$986.7 million |
| Protecting roads from landslides | \$330 million |
| Maintaining roads | \$142.8 million |
| Protecting students from extreme heat | \$99.8 million |
| Combating heat islands | \$40.3 million |
| Maintaining bridges | \$29.5 million |
| Protecting residents from heatwaves | \$5.7 million |

The burden of climate adaptation will not fall equally on Pennsylvania residents

Figure 2: Rural and high-poverty municipalities face the highest per capita climate adaptation costs.



The burden of climate adaptation will not fall equally on Allegheny County residents

Rural municipalities in Allegheny County are projected to have climate adaptation costs 66% higher than the county average.

Municipal fiscal stress in Allegheny County

Glenfield Borough is one of only four Pennsylvania municipalities that will incur annual per capita climate costs of \$1,000 or more.

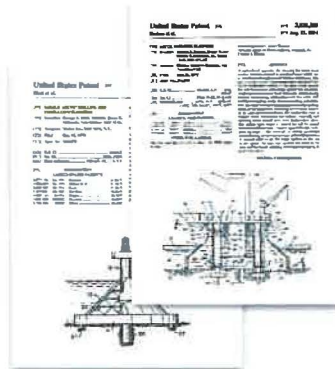
Case Study: Pittsburgh

- Total climate adaptation costs by 2040 = **\$520 million, or \$31 million per year**
- \$520 million = **80% of Pittsburgh's entire 2023 budget**
- Annual costs of \$31 million **amount to more than the total spending for 23 of 27 city departments**, including operations and facilities.
- Increasing stormwater drainage capacity is Pittsburgh's highest cost, projected at \$380 million by 2040, or \$22 million annually, which **would consume 35% of the city's 2022 Public Works budget**.



**American Petroleum Institute
Ikard Speech**

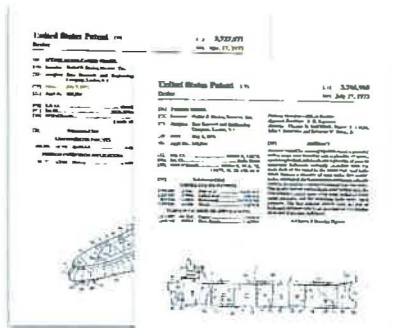
1965



**Texaco and Chevron
Patents**

1973

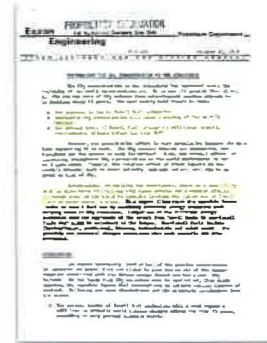
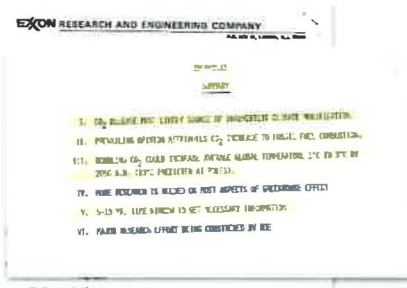
Esso Patents



1974

1978

**Exxon
Black Memo**

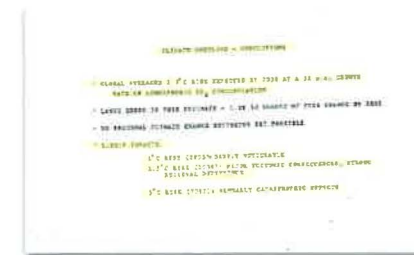


**Exxon
Ferrall Memo**

1979

1980

**American Petroleum
Institute
Task Force Meeting**

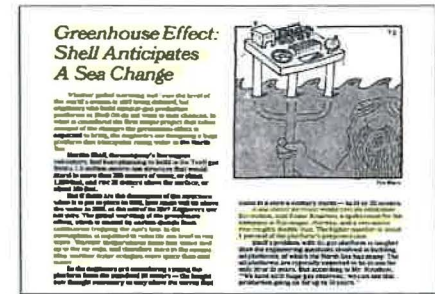




Exxon
Cohen Memo



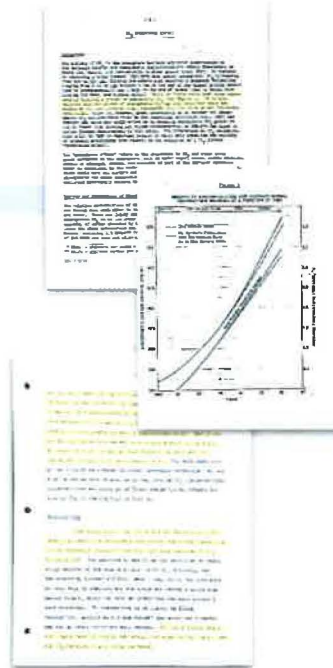
Mobil
Status Report



Shell
New York Times Article



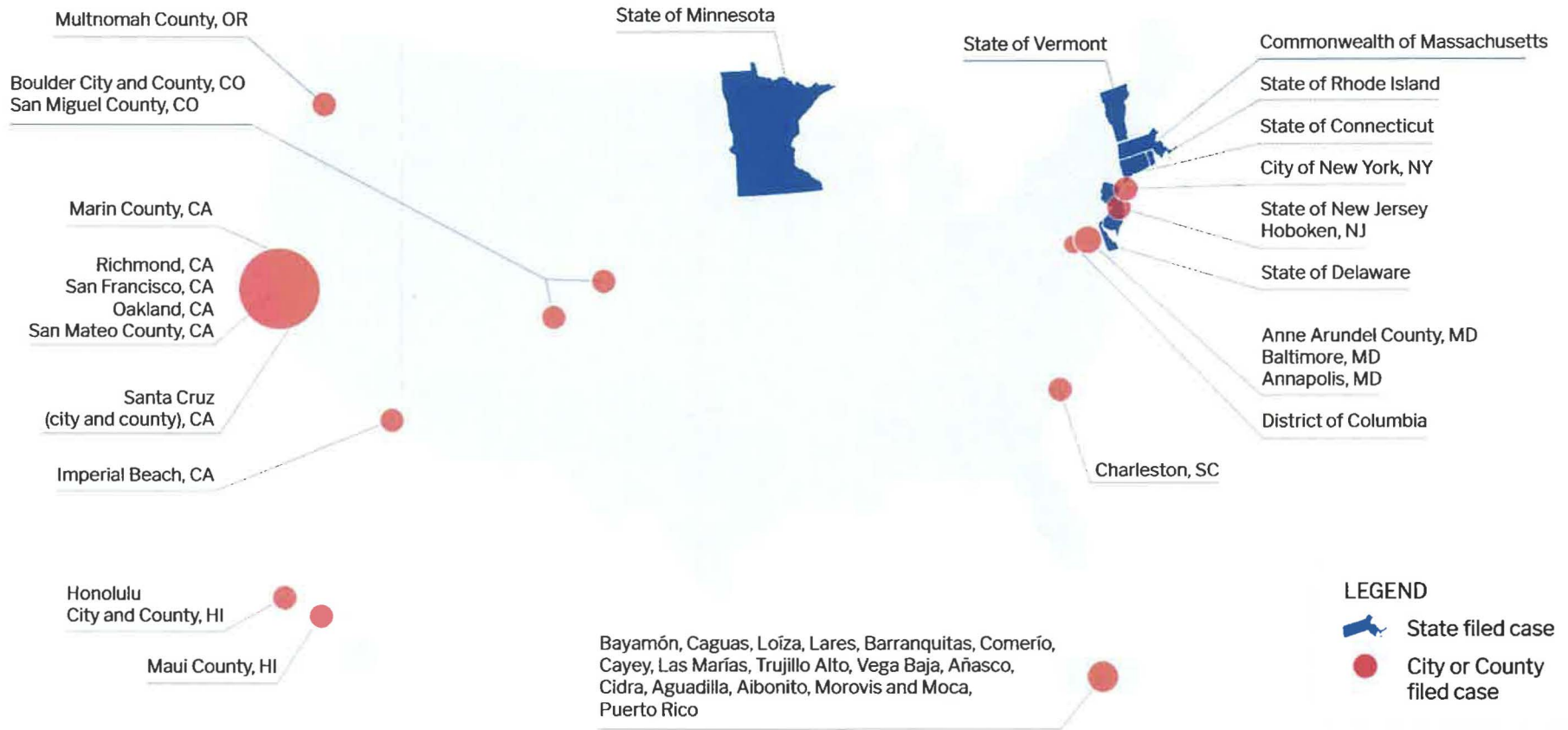
Exxon
Cohen Memo,
David Speech,
Glaser Memo





Shell
Greenhouse Report



Cases Underway



LEGEND

-  State filed case
-  City or County filed case



Pennsylvania Statewide

Center for Climate Integrity

July 2023



Methodology

Upswing Research & Strategy conducted a survey among 400 likely 2024 general election voters across Pennsylvania from July 6 – 13, 2023. The data are subject to a margin of error of +/- 4.9% at the 95 percent confidence interval. The data was collected using online panel.

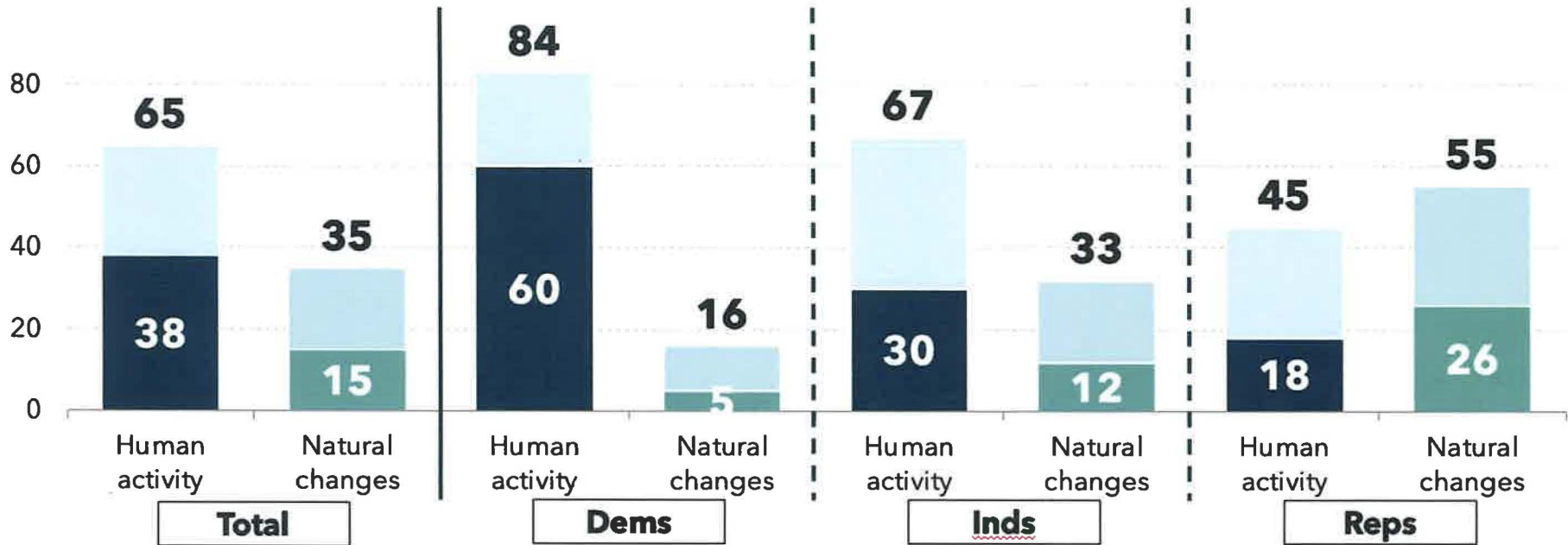
We also conducted oversamples of 200 likely 2024 general election voters each in Allegheny County and the city of Philadelphia. That data is subject to a margin of error of +/- 6.2% at the 95 percent confidence interval. This data was collected using a combination of online panel and SMS, also known as text to web, from a sample derived from a voter file.



Broad belief statewide that human activity causes climate change; even Reps are relatively split

Do you believe that climate change is mostly the cause of human activity or mostly the cause of natural changes in the climate cycle?

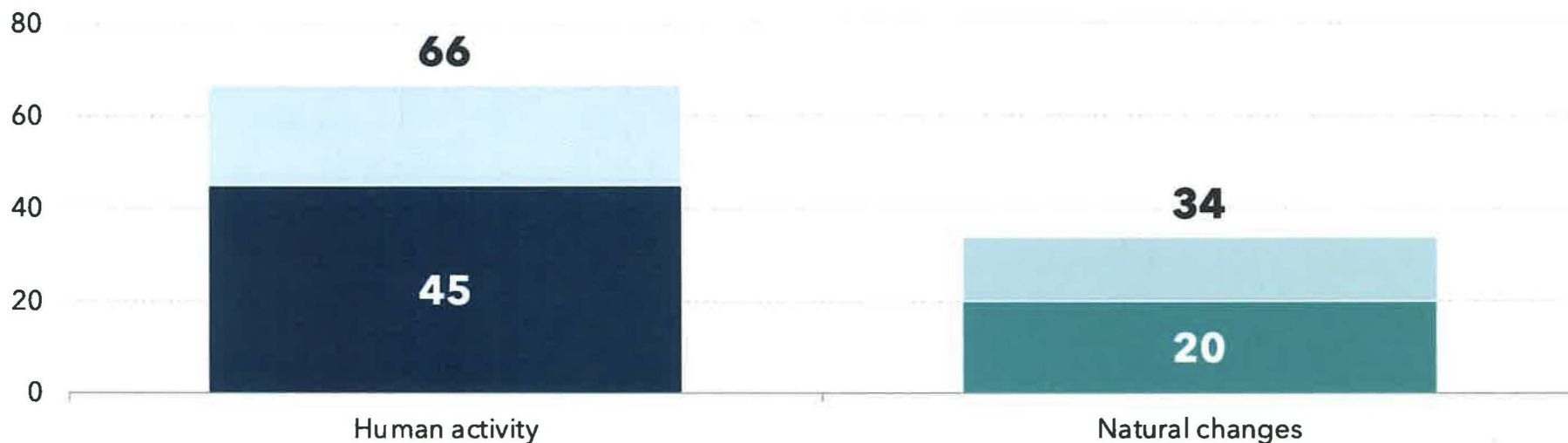
■ First statement, much more ■ First statement, somewhat more ■ Second statement, much more ■ Second statement, somewhat more



Vast majority of Allegheny County voters say human activity causes climate change

Do you believe that climate change is mostly the cause of human activity or mostly the cause of natural changes in the climate cycle?

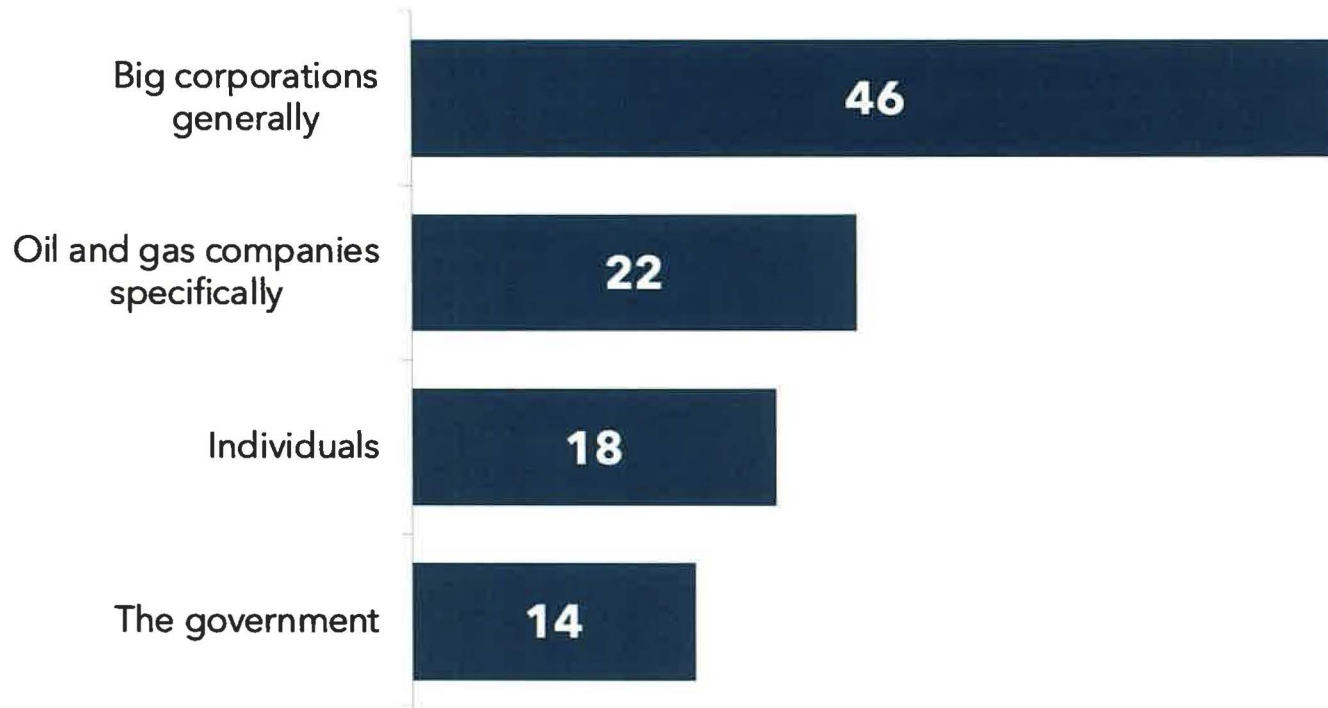
■ First statement, much more ■ First statement, somewhat more ■ Second statement, much more ■ Second statement, somewhat more





Those who think human activity causes climate change blame big corporations and oil and gas companies

(IF HUMAN ACTIVITY IN PREVIOUS QUESTION) Who do you believe is MOST responsible for causing climate change in the United States?





Allegheny County voters a little more likely to blame big corporations

(IF HUMAN ACTIVITY IN PREVIOUS QUESTION) Who do you believe is MOST responsible for causing climate change in the United States?

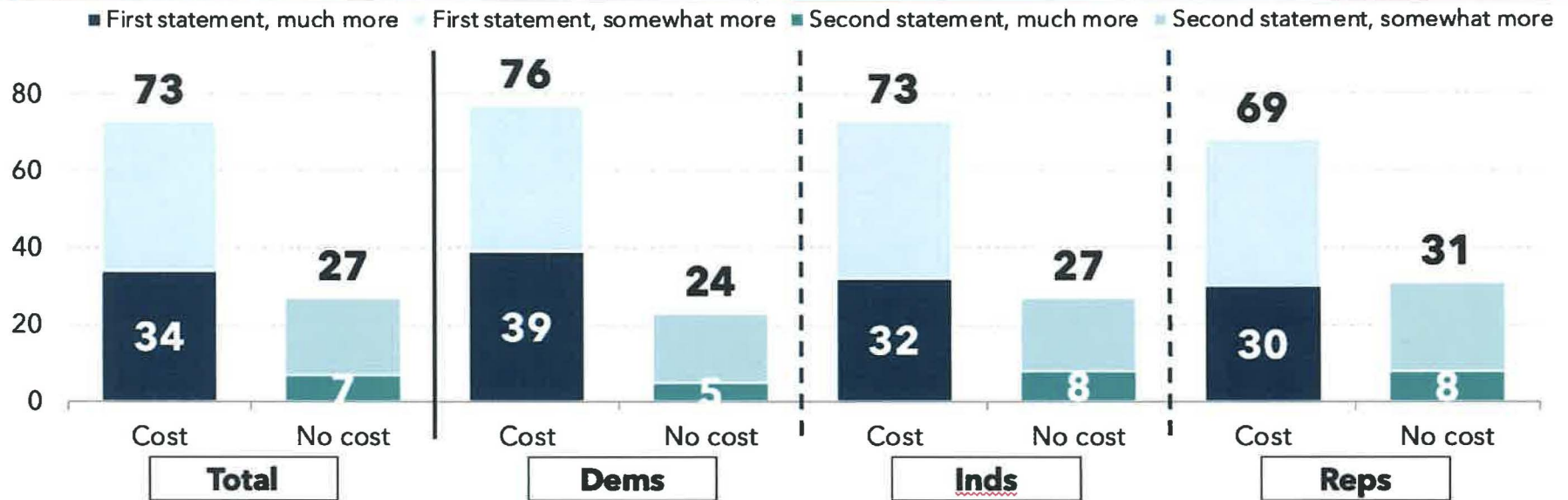


Consensus across partisanship that climate change is costing taxpayers

Below is a statement pair. Please indicate which statement comes closest to your own view, even if neither is exactly right.

(INCREASED COSTS) Pennsylvania taxpayers are facing increased costs due to the effects of climate change.

(NO COSTS) The effects of climate change largely do not cost taxpayers money.

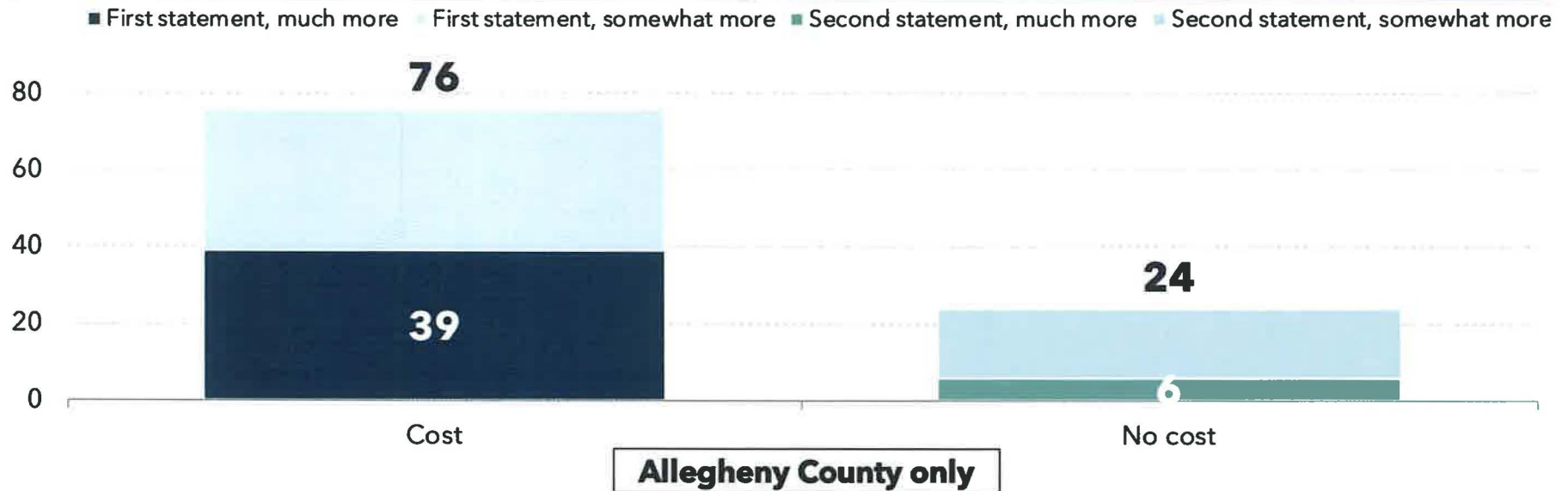


Allegheny County also thinks climate change costs taxpayers

Below is a statement pair. Please indicate which statement comes closest to your own view, even if neither is exactly right.

(INCREASED COSTS) Pennsylvania taxpayers are facing increased costs due to the effects of climate change.

(NO COSTS) The effects of climate change largely do not cost taxpayers money.



Fully 90% of voters statewide think oil and gas companies should be responsible for at least some of the costs

In your opinion, how much should oil and gas companies like ExxonMobil, Chevron, BP, and Shell be required to pay to help local communities in Pennsylvania adapt to climate change, such as protecting infrastructure and residents from climate change effects like





Allegheny County voters put more burden on O&G companies

In your opinion, how much should oil and gas companies like ExxonMobil, Chevron, BP, and Shell be required to pay to help local communities in Pennsylvania adapt to climate change, such as protecting infrastructure and residents from climate change effects like flooding and extreme heat?

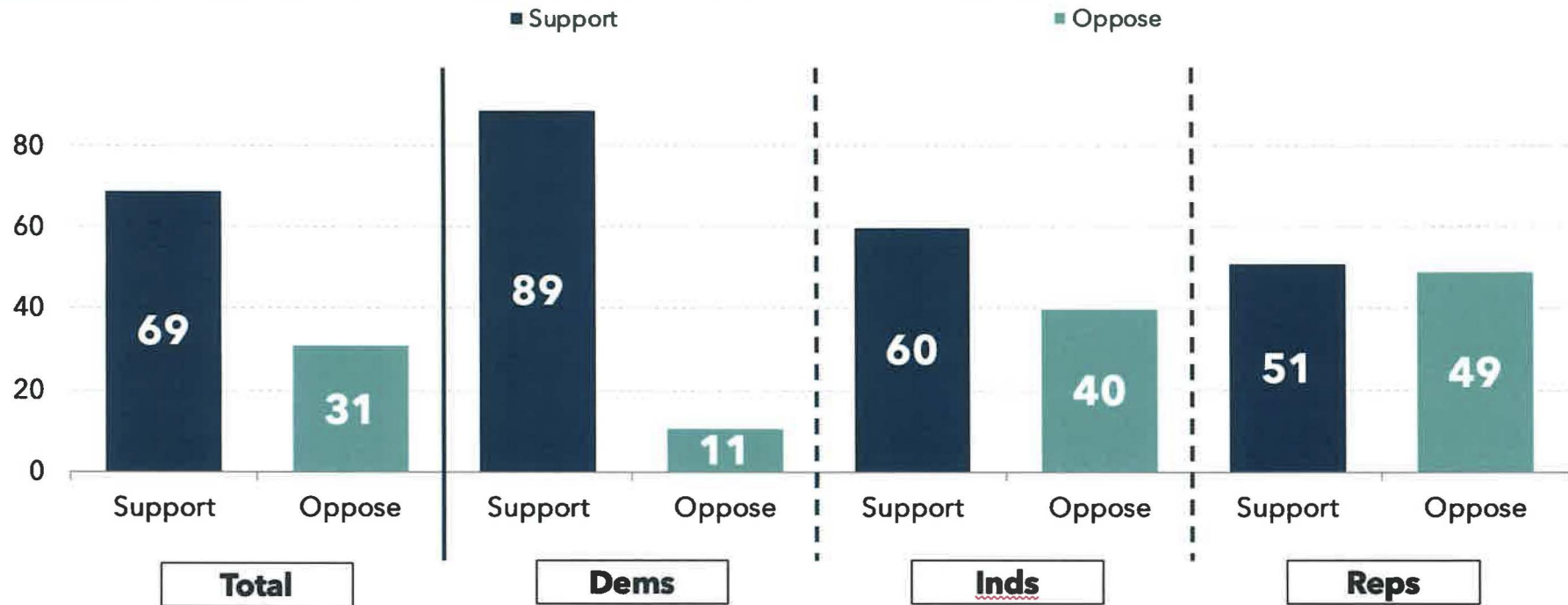
Allegheny County only





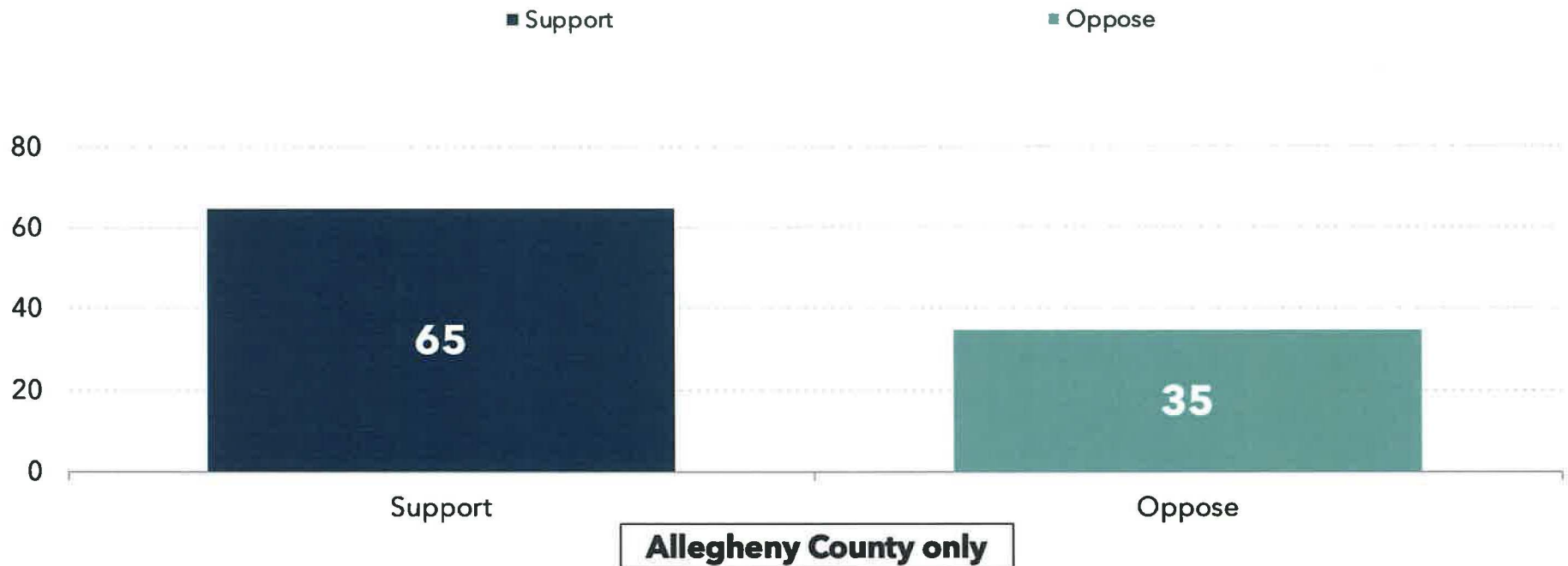
Broad support for suing O&G companies to make them pay their fair share

Would you support or oppose suing oil and gas companies to make them pay their fair share of the costs that local communities in Pennsylvania face in adapting to climate change?



Allegheny County also supports suing O&G companies

Would you support or oppose suing oil and gas companies to make them pay their fair share of the costs that local communities in Pennsylvania face in adapting to climate change?



Contact info

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