

U.S. Consumer Attitudes and Expectations about Energy

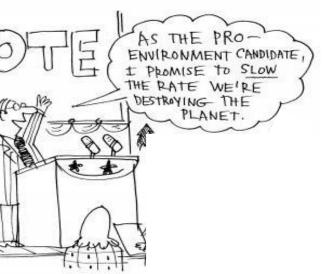
Amy C. Moors^{1,2}, John DeCicco¹, & Lisa Neidert³

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Overview

- University of Michigan Energy Survey: Why, what, and who
- . Perceived affordability of energy
 - How much of an increase in home energy and gasoline price do people think they can afford?
- Concern about affordability of energy and environm
 - To what extent are people concerned about the environme and the affordability of energy?
- V. Questions, contact information, and links

Attitudes toward the Environment & Energy



voting behavior



beliefs about climate change



cost versus environme protection



opinions regarding renewable sources



public perception and policy

Attitudes toward the Environment & Energy

Psychosocial aspects of attitudes and behavior related to energy and the environment

inergy Survey: What (Our Scope)







18 item quarterly rider

Rigorously designed: developed through review of previous work, expert feedback, cognitive interviews and focus group Nationally representative sample of 500 U.S. households (per quarter)

Implemented in October 2013

Fielded in January, April, July and October each year

ground and methods see: DeCicco, Yan, Keusch, Munoz, & Neidert. (2015). Energy Policy, 86, 749-758.

nergy Survey: What (Our Scope)

Assesses:

- General attitudes toward energy
- Hypothetical behavior regarding energy conservation
- Perceptions of aspects affected by energy (air, water, health)
- Personal energy-related costs (home energy, gasoline)
- Affective responses (e.g., worry about reliability, affordability, impact of energy on environment)
- Forecasting energy's impact on the environment
- Sociodemographic factors (education, income, gende

nergy Survey: Who (Our Interdisciplinary Team)







Lisa Neidert
Data Scientist
Research Scientist,
Institute for Social
Research



Amy Moors
Postdoctoral Scholar
Energy Institute &
National Center for
Institutional Diversity



Collaborators:

Richard Curtin, Director of the University of Michigan Survey o Consumers, and his research st

Relative Indices of Energy Affordability

How much of an increase in **home energy** and **gasoline** prices do people *think* they can afford?



Relative Indices of Energy Affordability

Baseline

me energy:

w think about the last time you (or neone else in your household) paid ousehold energy bill of any kind, w much did that bill cost you?

Threshold of Affordability

Home energy:

At what dollar amount would the [type of energy stated] bill becomen unaffordable to you (and your family)?

clative affordability: distance between current payment and ollar amount at which energy no longer is perceived as affordated about affordability

Relative Indices of Energy Affordability

Baseline

ne energy:

w think about the last time you (or neone else in your household) paid busehold energy bill of any kind, w much did that bill cost you?

soline:

s national monthly average price time of survey)

Threshold of Affordability

Home energy:

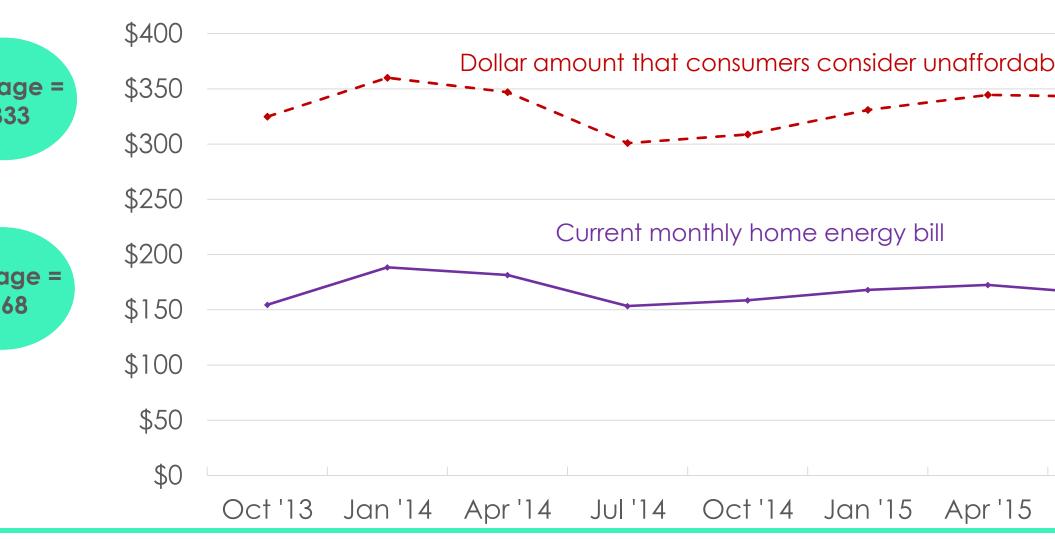
At what dollar amount would the [type of energy stated] bill becomen unaffordable to you (and your family)?

Gasoline:

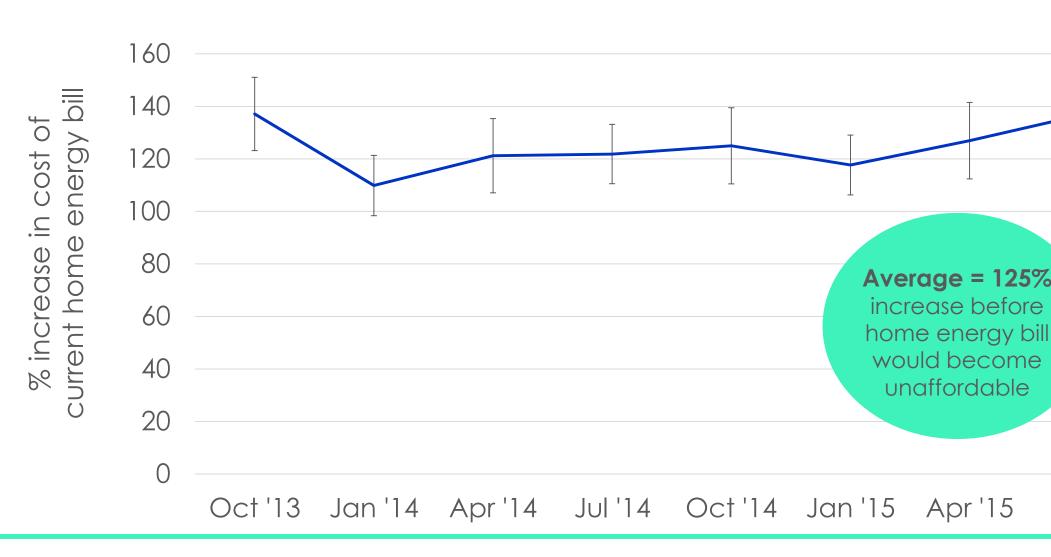
At what price per gallon would gasoline get so high that it become unaffordable to you (and your family)?

By unaffordable we mean that you (and your family) would be forced to make significant changes in the way you live your life.

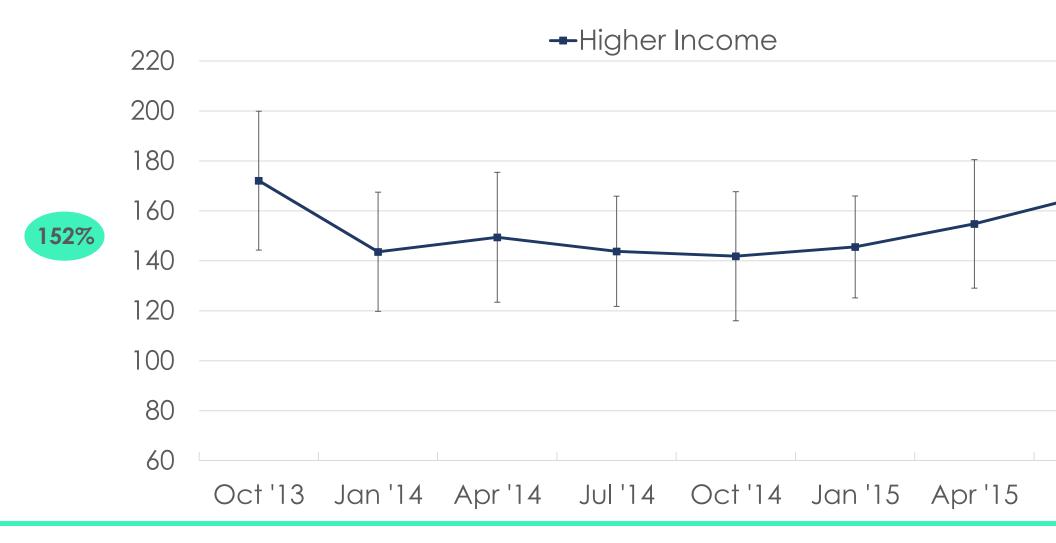
Home Energy: Current Monthly Bill and Unaffordable Bill



Home Energy Affordability: Percent Increase

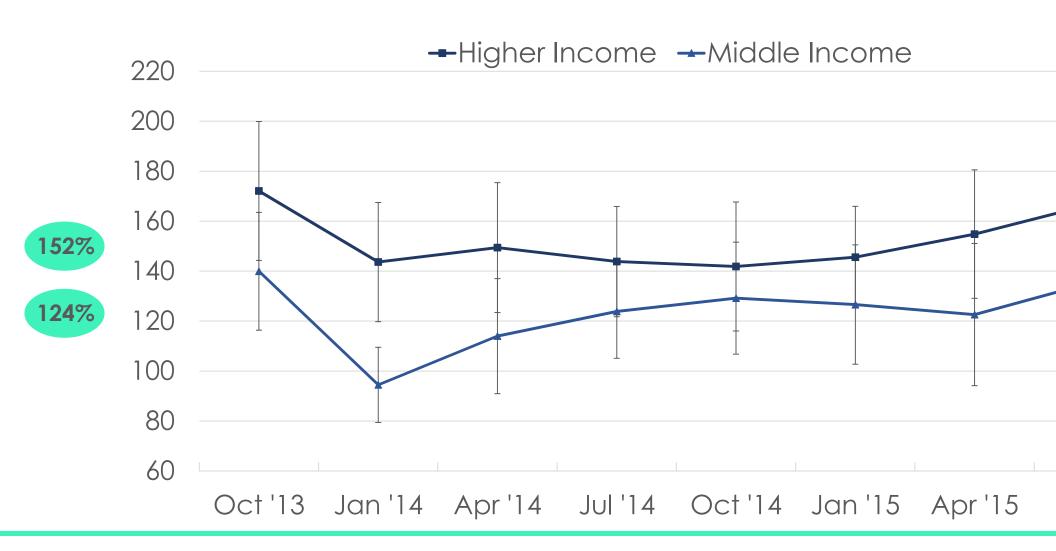


Home Energy Affordability: Percent Increase by Income Tercile



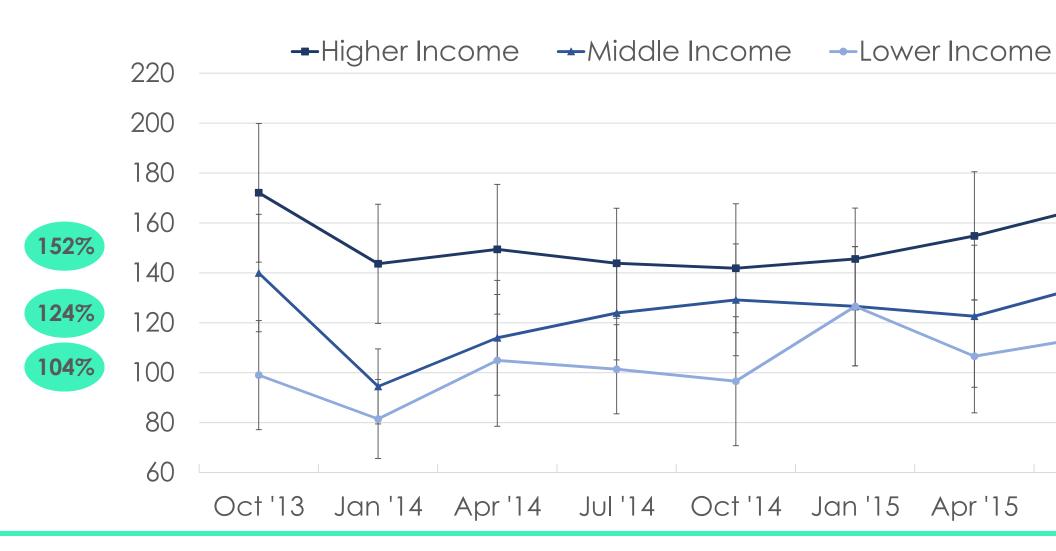
come: \$165,988 (higher)

Home Energy Affordability: Percent Increase by Income Tercile



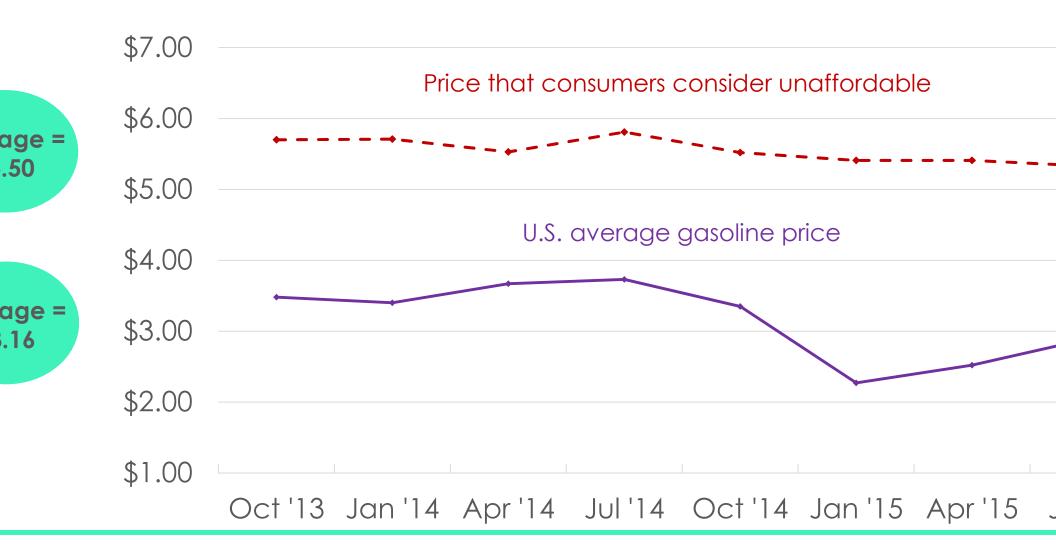
come: \$165,988 (higher); \$61,203 (middle)

Home Energy Affordability: Percent Increase by Income Tercile

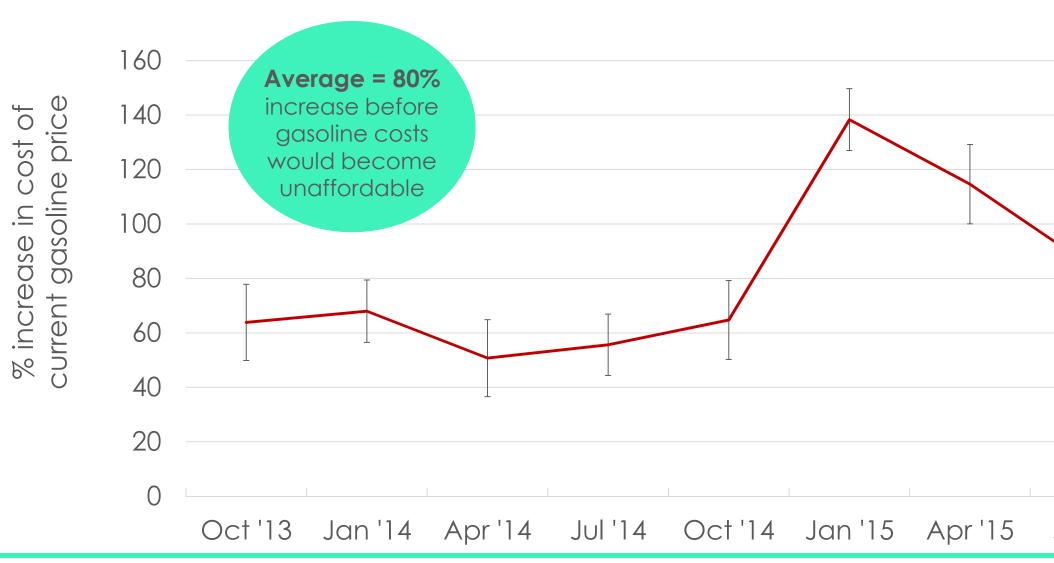


come: \$165,988 (higher); \$61,203 (middle); \$23,282 (lower)

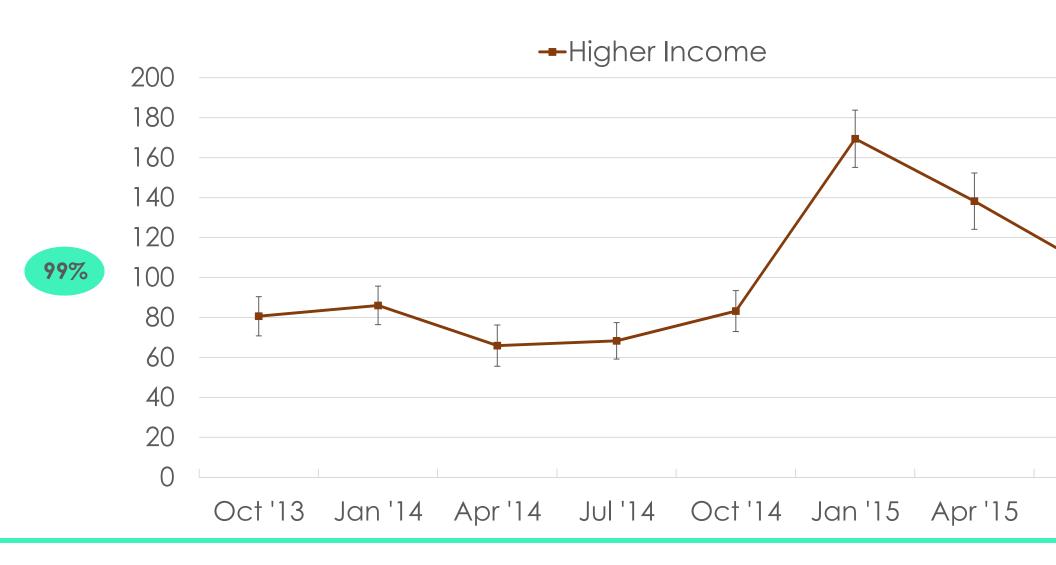
Gasoline: Current Price and Unaffordable Price



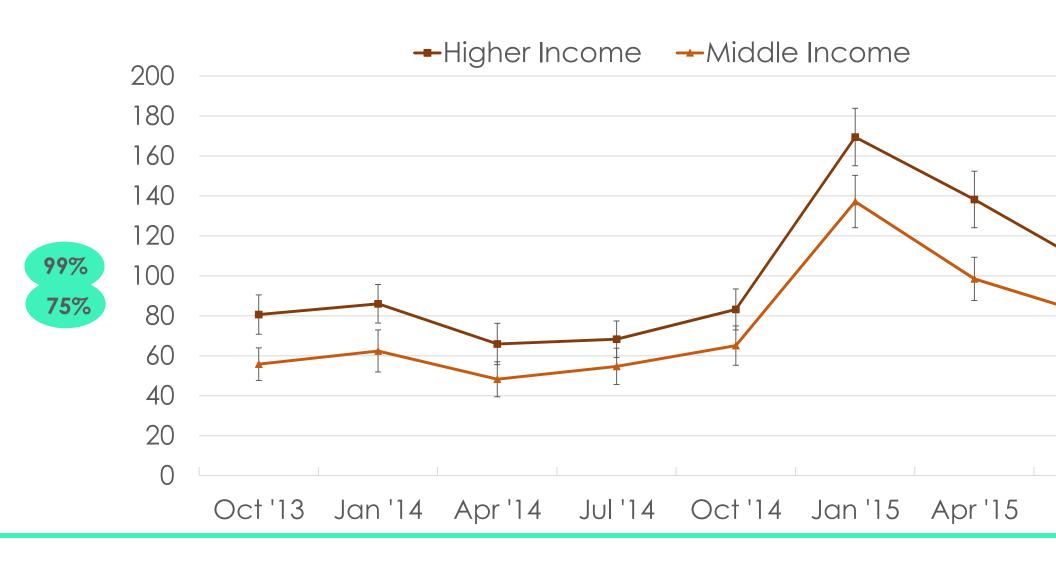
Gasoline Affordability: Percent Increase



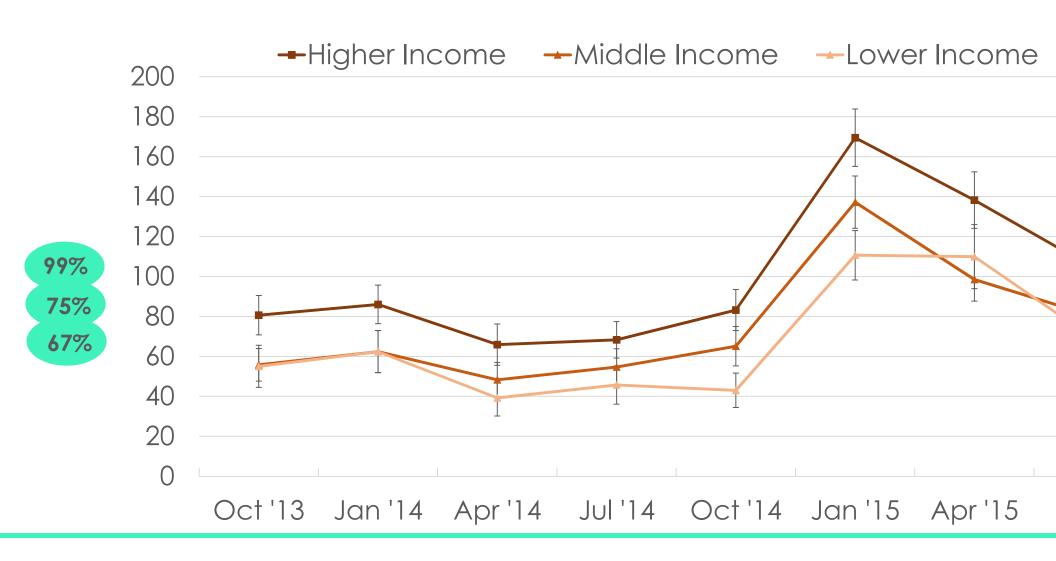
Gasoline Affordability: Percent Increase by Income Tercile



Gasoline Affordability: Percent Increase by Income Tercile



Gasoline Affordability: Percent Increase by Income Tercile



Concern about the Environment & Affordability

To what extent are people concerned about the **affordability** of energy and the impact of energy on the **environment**?

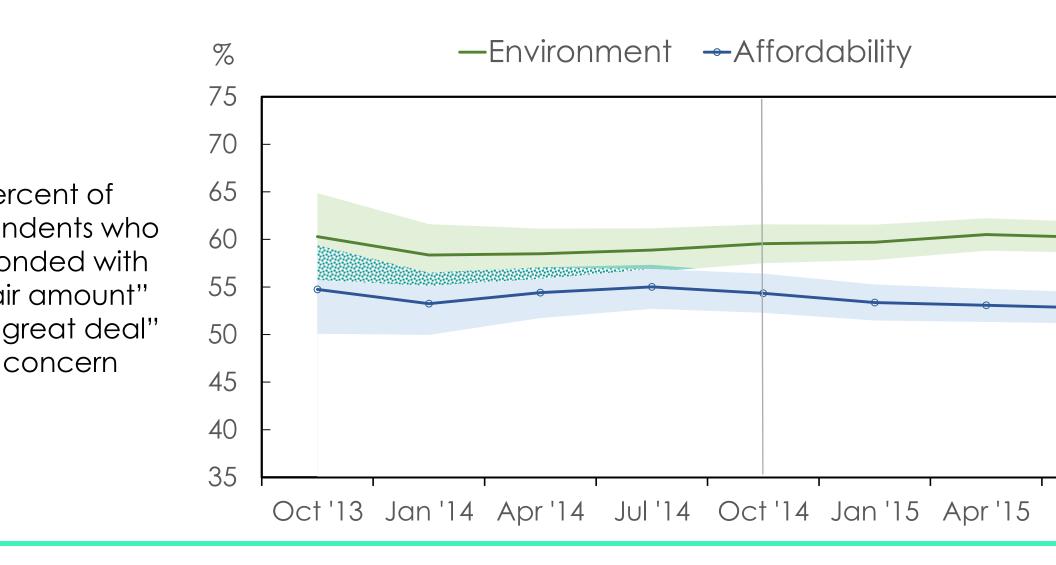
Concern about Affordability and the Environment

- How much do you personally worry about the affordability of energy?
- How much do you personally worry about the environmental impact of energy?

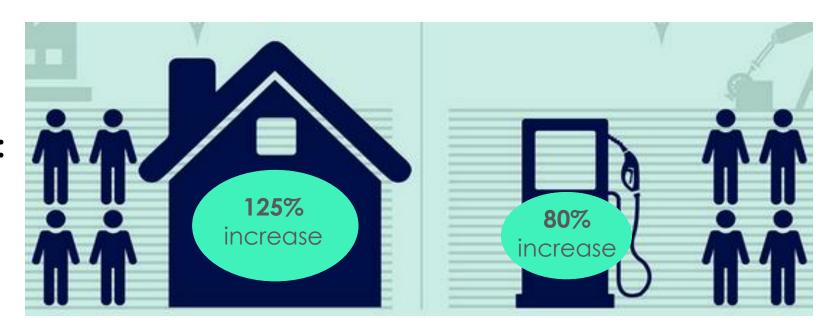
4-point Likert scale:

not at all (1), only a little (2), a fair amount (3), great deal (4)

Concern about Affordability and the Environment



Take Home Points



ordability:

Those from lower income backgrounds believe they can afford up to a 104% increase in home energy and 67% increase in gasoline prices

Future research: stability of index, predictive value of index (e.g., oro-environmental behavior)

Take Home Points



ncern:

60% express concern about the environment



54% express concern about the affordability of energy

eople are just as concerned (and more concern this past year) bout the environment as affordability of energy

nvironmental concern is more intense

nvironmental concern similar across income brackets

Thank you! & Questions?

iversity of Michigan's Energy Survey:

tp://energy.umich.edu/project/energy-survey

ew releases and brief reports:

tp://energy.umich.edu/news-events

cent publication:

eCicco, J., Yan, T., Keusch, F., Munoz, D. H., & Neidert, L. (2015). U.S. onsumers attitudes and expectations about energy. *Energy Policy 86,* 74

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