Shedding Light on Energy Inequities

What Might Race and
Demographic Differences in
Energy Attitudes and
Identifying Bulb Types Tell Us?

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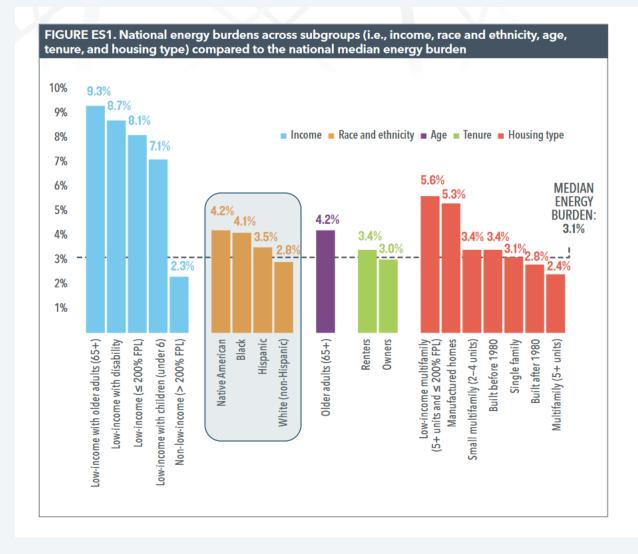






Energy burden, race & class

 Low income and non-white American households spend a larger portion of their income on energy bills than white, non-Hispanic households.





Residential energy efficiency survey

- Email invitation sent to random sample of 10,000 residential utility customers from November – December 2020.
- Instore flier with QR code and survey link from October – December 2020.
- To qualify for survey, customers had to indicate purchasing an energy efficient product at a participating retailer in 2020.
- 455 responses (450 email invite, 5 instore flier).

From the list below, could you please identify all the energy efficient products you bought in 2020? The ENERGY STAR® label is usually a blue and white sticker on an appliance that says "ENERGY STAR" on it. We have included visuals of the ENERGY STAR logo, LED light bulbs, and energy saving power strips below to help you remember what each item would look like. ■ ENERGY STAR bathroom ventilation fans Energy saving advanced power strips ■ ENERGY STAR room air purifiers ■ ENERGY STAR water dispensers ☐ LED light bulbs ■ ENERGY STAR room air conditioners ☐ I did not purchase any of the listed energy efficient products in 2020 ☐ I don't recall Advanced Power Strip



Energy efficiency knowledge

- Asked respondents to match various lighting technologies to their definitions.
- Correct identification was related to gender, race, and employment status.

Group	n	Percent Correct
White***	333	76%
Nonwhite	77	56%
Male***	219	85%
Female	212	59%
Employed*	294	76%
Not employed	140	69%





Attitudes & behaviors

- Asked respondents' level of agreement with ten statements about energy efficiency.
- Found statistically significant differences between subgroups of respondents for six of the statements.

Please rate your level of agreement or disagreement with these statements. There are no "right" or "wrong" answers, we just want your opinion.

	Strongly Disagree 0	1	2	3	4	5	6	7	8	9	Strongly Agree 10	Don't Know
I am not very concerned about the amount of energy used in my home	0	0	0	0	0	0	0	0	0	0	0	0
It is possible to save energy without sacrificing comfort by being energy efficient	0	0	0	0	0	0	0	0	0	0	0	0
Energy efficiency saves money	0	0	0	0	0	0	0	0	0	0	0	0
I am too busy to worry about making energy-related improvements in my home	0	0	0	0	0	0	0	0	0	0	0	0
I intend to reduce my household energy use in the next 12 months	0	0	0	0	0	0	0	0	0	0	0	0
People's efforts produce better results when they work together than when they go it alone.	0	0	0	0	0	0	0	0	0	0	0	0
There is very little I can do to reduce the amount of energy I am now using	0	0	0	0	0	0	0	0	0	0	0	0
I know of steps I could take to reduce my household energy use	0	0	0	0	0	0	0	0	0	0	0	0
Scarce energy supplies will be a major problem in the future	0	0	0	0	0	0	0	0	0	0	0	0



Attitudes & behaviors

Statement	Subgroup	n	Percent Agree
I am too busy to worry about making energy- related improvements in my home	White* Nonwhite	332 76	9% 17%
	Employed*** Not employed	293 138	15% 4%
	54 or younger** 55+	259 193	15% 7%
Scarce energy supplies will be a major problem in the future	Employed* Not employed	269 122	54% 44%
	Female Male	186 202	54% 47%
There is very little I can do to reduce the amount of energy I am now using	White** Nonwhite	325 170	18% 8%
It is possible to save energy without sacrificing comfort by being energy efficient	No College*** College	123 116	63% 80%
I know of steps I could take to reduce my household energy use	Employed*** Not employed	286 114	56% 37%
	No College College	123 114	49% 58%
I intend to reduce my household energy use in the next 12 months	White* Nonwhite	312 73	48% 60%





Conclusions

- These findings identify factors that may contribute to the continuing inequities in energy burden between demographic groups.
- They also point to potentially valuable indices that may be used to assess and track utility effectiveness at engaging with and educating underserved customers.
- By examining changes in such indices over item, utility companies may have a better understanding of gains made in addressing inequities.



Sources

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