# A Survey on Energy

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Sciences, $107(37)$ , $16054-16059$					

https://www.pnas.org/action/downloadSupplement?doi=10.1073%2 Fpnas.1001509107 & file=pnas.201001509 SI.pdf

## 1. Energy-Saving Behaviors

In your opinion, what is the most effective t	hing that you could do to conserve energy in your life?
-	

#### 2. Energy Consumed by the Average Household

Think about an average household in the United States.

Now think about the total amount of energy that is used directly by that household in one year.

Consider that the energy used by a household can be divided into household operations, transportation and food production.

- Household operations include electricity, natural gas, and heating oil that is used for the house.
- Transportation includes air travel, motor travel, and public transportation used by people in the household.
- Food production includes growing and shipping food that people in the household eat.

Please enter whole numbers with no other text (not decimals, ranges, or percent signs).

- 1. What percentage of the total energy consumed per year by an average household in the United States is attributed to energy used by household operations?
- 2. What percentage of the total energy consumed per year by an average household in the United States is attributed to energy used by transportation?
- 3. What percentage of the total energy consumed per year by an average household in the United States is attributed to energy used by food production?

## 3. Energy Used by Devices in One Hour

A 100-Watt incandescent light bulb uses 100 units of energy in one hour.

How many units of energy do you think each of the following devices typically uses in one hour?

Enter a number less than 100 if you think the device uses less energy than a 100-Watt bulb. Enter a number greater than 100 if you think the device uses more energy than a 100-Watt bulb. Your best estimates are fine. Please enter whole numbers with no other text (not decimals, ranges, or percent signs).

[Error message "Please enter whole numbers with no other text (not decimals, ranges, or percent signs)."]

Device	Units of Energy per Hour
A compact fluorescent light bulb that is as bright as a 100-Watt incandescent light bulb	
A desktop computer	
A laptop computer	
A stereo	
An electric clothes dryer	
A portable heater	
A room air-conditioner	
A central air conditioner	
A dish washer	

## 4. Energy Saved in the Household

Turning off a 100-Watt incandescent light bulb for one hour SAVES 100 units of energy.

How many units of energy do you think each of the following changes will save?

Enter a number less than 100 if you think the change saves less energy than turning off a 100-Watt bulb for one hour. Enter a number greater than 100 if you think the change saves more energy than turning off a 100-Watt bulb for one hour. Your best estimates are fine.

Please enter whole numbers with no other text (not decimals, ranges, or percent signs).

Remember to enter a number of the amount of energy SAVED, not the amount of energy USED.

[Text entered is validated for a whole number between 0 and 1000000. Error message: "Please enter whole numbers with no other text (not decimals, ranges, or percent signs)."]

- 1. Replacing one 100-watt incandescent bulb with equally bright compact fluorescent bulb that is used for one hour would reduce energy use by how many units?
- 2. Replacing one 100-watt kitchen bulb with a 75-watt bulb that is used for one hour would reduce energy use by how many units?
- 3. Drying clothes on a clothes line (not using the dryer) for one load of laundry would reduce energy use by how many units? \_\_\_\_\_

Please enter who	`		0 /							
Remember to er	nter a number of the amount of e	nergy SAVED, not the amount	of energy U	JSED.						
[Text entered is percent signs)."]	validated for a whole number bet	ween $\theta$ and $100000000$ . Error $\theta$	$message:$ " $_{\cdot}$	Please enter	whole n	$numbers \ wit$	h no other text	(not decim	$als, \ rang$	es, or
<ul><li>2. Tuning up the c</li><li>3. Assume that yo</li></ul>	fuel efficient car (30 miles per galler twice a year (including air filter ar twice are twice ar twice ar twice are tw	er changes) would reduce energy	use by ho	w many units	s for the	e <b>whole ye</b>	ear?	Ū	·	
6. Energy Used to	o Transport Goods									
,	h of the following modes of transpethird most, and the least energy.	portation uses the most energy p	per mile to	transport on	e ton of	f goods? Ple	ease check the n	node that u	ses the n	nost energy
Mode	Most energy	Second most energy			Third	d most energ	gy	${ m L}$	east ener	gy
Ship	[]	[ ]				[ ]			[]	
Train	[]	[ ]				[]			[]	
Airplane	[ ]	[ ]				[ ]			[]	
Truck	[ ]	[ ]				[ ]			[]	
In your opinion, which	h of the following uses the most e	nergy? Please check the activity  Most energy		ond most ene			hird most energ		Least	energy
In your opinion, which Activity Making a can out of waking a can out of recommendations.	h of the following uses the most every aluminum recycled aluminum	Most energy  [ ]  [ ]		ond most ene			Third most energ		Least [	energy ]
In your opinion, which	h of the following uses the most every aluminum recycled aluminum out of virgin glass	Most energy  [ ]		ond most ene			hird most energ		Least [	energy
In your opinion, which Activity  Making a can out of which Making a can out of randaming a glass bottle Making a glass bottle  8. Ease or Difficulte Please indicate how expressions.	h of the following uses the most every aluminum recycled aluminum out of virgin glass	Most energy  [ ]  [ ]  [ ]  [ ]  [ ]  viors  o make each of the following chemical street in the second street in	Secondary Second	ond most ene	ergy all aspe	ects of the c	Chird most energy  [ ]  [ ]  [ ]  [ ]  —  hanges, including	gy ng the phys	Least [	energy  ]  ]  ]
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4. In the summer: turning up the thermostat on your air conditioner (making your home warmer) by 5° F would reduce energy use by how many units?

6. Changing washer temperature settings from "hot wash, warm rinse" to "warm wash, cold rinse" for one load of laundry would reduce energy use by how many units?

Assume that a 20-miles-per-gallon car going 60 miles per hour uses 100 units of energy in one hour. (Note that this scale in different from that used in previous questions, in

Enter a number less than 100 if you think the change saves less energy than is consumed by the 20-miles-per-gallon car going 60 miles per hour. Enter a number

greater than 100 if you think the change saves more energy than consumed by the 20-miles-per-gallon car going 60 miles per hour. Your best estimates are fine.

5. In the winter: turning down the thermostat on your heater (making your home cooler) by 5° F would reduce energy use by how many units?

5. Energy Saved in Transportation

that "100 units" now refers to a different amount of energy.)

How many units of energy do you think each of the following changes will save?

## 9. Ease or Difficulty of Energy-Saving Behaviors

(Note: This section uses the same instructions and scale as Section 8) > If you already engage in the activity please check the option on the far left.

	Do it	Extremely	Very	Somewhat	Neither easy	Somewhat	Very	Extremely
Change	already	easy	easy	easy	nor hard	hard	hard	hard
Tuning up the car twice a year (including air filter changes)	[]	[ ]	[]	[ ]	[]	[]	[]	[]
Replacing $85\%$ of all incandescent bulbs with equally bright compact	[]	[]	[]	[]	[]	[ ]	[]	[ ]
fluorescent bulbs								
Turning up the refrigerator thermostat from 33° F to 38° F and the freezer	[]	[]	[]	[]	[]	[]	[]	[]
thermostat from -5° F to 0° F								
Drying clothes on a clothes line (not using the dryer) for 5 months of the year	[]	[]	[]	[]	[]	[]	[]	[]
Watching $25\%$ fewer hours of TV each day	[]	[]	[]	[]	[]	[]	[]	[]
Installing a more efficient washer (replace a 2001 or older non-Energy Star	[]	[]	[]	[]	[]	[]	[]	[]
washer with a new Energy Star)								
Changing washer temperature settings from "hot wash, warm rinse" to	[]	[]	[]	[]	[]	[]	[]	[]
"warm wash, cold rinse"								
Replacing two 100-watt kitchen bulbs with 75-watt bulbs	[]	[ ]	[]	[ ]	[]	[]	[]	[ ]

#### 10. Attitudes

Please indicate how strongly you agree or disagree with each of the following statements.

	Completely		Somewhat	Neither agree nor	Somewhat		Completely
Statement	agree	Agree	agree	disagree	disagree	Disagree	disagree
We are approaching the limit of the number of people the earth can	[]	[]	[ ]	[ ]	[]	[ ]	[ ]
support.							
Humans have the right to modify the natural environment to suit their	[ ]	[]	[ ]	[ ]	[]	[ ]	[ ]
needs.							
When humans interfere with nature it often produces disastrous	[]	[]	[ ]	[ ]	[]	[ ]	[ ]
consequences.							
Human ingenuity will insure that we do NOT make the earth unlivable.	[ ]	[]	[ ]	[ ]	[]	[ ]	[ ]
Humans are severely abusing the environment.	[ ]	[]	[ ]	[ ]	[]	[ ]	[ ]
The earth has plenty of natural resources if we can just learn how to	[ ]	[]	[ ]	[ ]	[]	[ ]	[ ]
develop them.							
Plants and animals have as much right as humans to exist.	[]	[]	[]	[ ]	[]	[]	[]

## 11. Attitudes

Please indicate how strongly you agree or disagree with each of the following statements.

	Completely		Somewhat	Neither agree nor	Somewhat		Completely
Statement	agree	Agree	agree	disagree	disagree	Disagree	disagree
The balance of nature is strong enough to cope with the impacts of	[ ]	[]	[ ]	[ ]	[ ]	[ ]	[ ]
modern industrial nations.							
Despite our special abilities, humans are still subject to the laws of	[ ]	[]	[ ]	[ ]	[ ]	[ ]	[ ]
nature.							
The so-called "ecological crisis" facing humankind has been greatly	[ ]	[]	[ ]	[ ]	[ ]	[ ]	[ ]
exaggerated.							
The earth is like a spaceship with very limited room and resources.	[ ]	[]	[ ]	[ ]	[]	[ ]	[ ]
Humans were meant to rule over the rest of nature.	[ ]	[]	[ ]	[ ]	[]	[ ]	[ ]
The balance of nature is very delicate and easily upset.	[]	[]	[ ]	[ ]	[ ]	[]	[ ]
Humans will eventually learn enough about how nature works to be able	[]	[]	[ ]	[ ]	[ ]	[]	[ ]
to control it.							
If things continue on their present course, we will soon experience a	[ ]	[]	[ ]	[ ]	[ ]	[ ]	[ ]
major ecological catastrophe.							

# 12. Climate Change Attitudes

Please indicate how strongly you agree or disagree with each of the following statements.

Statement	agree	Agree	agree	disagree	disagree	Disagree	disagree
Humans are responsible for global warming and climate change.	[ ]	[ ]	[ ]	[ ]	[]	[]	[]
Humans do not need to change their lifestyles to address global	[]	[]	[]	[ ]	[]	[ ]	[ ]
warming and climate change.							
believe that my actions contribute to global warming and climate	[ ]	[]	[ ]	[ ]	[]	[]	[]
change.  I believe that I need to change my lifestyle to address global	[]	r 1	[]	[]	r 1	[]	[ ]
varming and climate change.	L J	[]	ГЛ	L J	[]	LJ	LJ
varining and chinate change.							
					_		
13. Math Questions							
To answer the following questions, please enter whole numbers or	decimals w	vith no other	er text (not ra	nges or percent signs).			
<ol> <li>Imagine that we flip a fair coin 1,000 times. What is your best gu</li> <li>In the BIG BUCKS LOTTERY, the chance of winning a \$10 priz a single ticket to BIG BUCKS?</li> </ol>		_		_	_		people each buy
3. In ACME PUBLISHING SWEEPSAKES, the chance of winning	a car is 1 ir	n 1,000. WI	hat percent of	tickets to ACME PUE	BLISHING SWEI	EPSAKES wir	n a car?
o		,000	F				
					_		
14. Demographics							
Please answer the following questions about yourself and your situation	n. Your con	fidential an	swers will help	o us understand the ty	pes of people wh	o have comple	eted the survey
1. Do you consume more or less energy than the average individual	in the Unit	ed States?					
• [ ] I consume more energy than average							
• [ ] I consume less energy than average							
2. About how much was the last monthly electric bill for your housestimate is fine	sehold? Ple	ease provide	e a dollar amo	ount (rounded to the r	nearest dollar) wi	ith no other t	ext. Your best
3. About how much did your household pay for gas (for transportation)	on) last mo	nth? Please	e provide a dol	lar amount (rounded t	o the nearest dol	lar) with no o	ther text. You
best estimate is fine	,		1			.,	
4. How many people are there in your household?							
5. For the vehicle you use most, approximately what is the vehicle's	gas mileag	o? (Assuma	your normal	miv of city and highw	av driving )		
	gas inneag	c. (Hobalik	your normar	mix of city and nighwo	ay dirving.)		
<ul><li>[ ] I do not own or lease a vehicle</li><li>[ ] less than 10 miles per gallon</li></ul>							
• [ ] 11-20 miles per gallon							
• [ ] 21-30 miles per gallon							
• [ ] 31-40 miles per gallon							
• [ ] 41-50 miles per gallon							
• [ ] more than 50 miles per gallon							
6. Do you have any compact fluorescent light bulbs or fluorescent lin	near bulbs (	tube lights	) installed in ;	your home?			
• [ ] Yes							
• [ ] No							
7. When buying large household appliances (like refrigerators, dishv	washers, etc	c.), do you	consider their	energy efficiency in yo	ur purchasing de	cisions?	
• [] Yes							
• [ ] No							
8. When buying <b>small</b> household appliances (like coffee makers, ble	nders, etc.)	, do you co	nsider their er	nergy efficiency in your	purchasing decis	sions?	
• [ ] Yes							
• [] No							
9. Have you ever had an energy audit of your home? (A home energy	gy audit is o	lone to eva	luate measure	s you can take to make	e your home mor	e energy effici	ent.)
• [] Yes							
• [ ] No							
10. This past year, was anything done to weatherize your home? (Ex	amples incl	ude caulkir	ng and weathe	r stripping to seal air l	eaks around wind	dows and doo	rs, etc.)
• [] Yes	r 122 11101		J 0000110	11 0 2001 011 1			, <del>-</del> )
• [ ] Yes • [ ] No							
	ola ac+ : '	frama ==	roted be-	all gapes) on steme	ndowa (inat-11 1	on the interior	yr on orrtani-
11. Does your home have any double-paned windows (two glass pane	to oct III g ]	паше, ѕера	iaicu by a SIII	an space, or storin Wi	Dellistant) ewop.	on one moeric	a or exterior of

the primary window)?

Completely

Neither agree nor

Somewhat

Completely

Somewhat

• [] No
12. Have you ever bought renewable energy from your electricity provider?
• [] Yes
• [ ] No
13. This past year, did you send a letter to any political official about environmental or energy issues?
• [] Yes
• [] No
14. Do you consider yourself an environmentalist?
• [] Yes
• [ ] No
15. Demographics (Continued)
1. Do you rent or own the place where you live?
• [] Rent
• [ ] Own
2. In the last election, for whom did you vote?
• [ ] Barack Obama
<ul> <li>[ ] John McCain</li> <li>[ ] An Independent candidate</li> </ul>
• [ ] Chose not to vote
• [ ] Could not vote
• [ ] Do not want to divulge
3. How would you describe your political beliefs? ( ) Extremely liberal ( ) Slightly liberal ( ) Moderate ( ) Slightly conservative ( Extremely conservative
4. What is your sex?
<ul><li>[ ] Female</li><li>[ ] Male</li></ul>
5. What is your age?
6. During 2008, what was your yearly household income before tax? Your best estimate is fine.
• [ ] Did not have an income
<ul> <li>[] &lt; \$20,000</li> <li>[] \$20,000 - \$49,999</li> </ul>
• [ ] \$50,000 - \$79,999 • [ ] \$50,000 - \$79,999
• [] \$80,000 - \$109,999
• [] \$110,000 - \$139,999
<ul> <li>[] \$140,000 - \$169,999</li> <li>[] &gt;\$170,000</li> </ul>
7. What is the highest level of education that you have completed?
• [ ] Some schooling, but no diploma or degree
<ul> <li>[ ] High school diploma or GED</li> <li>[ ] Some college</li> </ul>
• [ ] College degree
• [ ] Some graduate school
• [ ] Graduate degree
8. What is your email address? Your email address is required to make sure you receive your \$10 Amazon gift certificate. The email address will no way be linked to any the answers you have provided
9. Your ZIP code?
10. Do you have any additional thoughts about energy use or energy conservation, or any comments about the survey that you would like to share with use the survey of the

• [ ] Yes