

ENERGY

IN THE AMERICAN MIND

December 2018



YALE PROGRAM ON
Climate Change
Communication



GEORGE MASON UNIVERSITY
CENTER for CLIMATE CHANGE
COMMUNICATION

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Introduction

This report is based on findings from a nationally representative survey – *Climate Change in the American Mind* – conducted by the [Yale Program on Climate Change Communication](http://climatecommunication.yale.edu) (climatecommunication.yale.edu) and the [George Mason University Center for Climate Change Communication](http://climatechangecommunication.org) (climatechangecommunication.org). Interview dates: November 28 – December 11, 2018. Interviews: 1,114 Adults (18+), 966 of whom are registered to vote. Average margin of error for both the full sample and registered voter subset: +/- 3 percentage points at the 95% confidence level. The research was funded by the 11th Hour Project, the Endeavor Foundation, the Energy Foundation, the Grantham Foundation, and the MacArthur Foundation.

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Reading notes

- Results for political segments (e.g., Republicans; liberal Democrats) are calculated using only registered voters.
- References to Republicans and Democrats throughout include respondents who initially identify as either a Republican or Democrat, as well as those who do not initially identify as Republicans or Democrats but who say they "are closer to" one party or the other (i.e., "leaners") in a follow-up question. The category "Independents" does not include any of these "leaners."
- In all tables and charts, bases specified are unweighted, but percentages are weighted.
- Weighted percentages among registered voters of each of the groups discussed in this report:
 - Democrats (total) including leaners: 48%
 - Liberal Democrats: 29%
 - Moderate/Conservative Democrats: 19%
 - (Moderate Democrats: 18%; Conservative Democrats: 1%)
 - Independents excluding leaners: 10%
 - Republicans (total) including leaners: 36%
 - Liberal/Moderate Republicans: 12%
 - (Liberal Republicans: 1%; Moderate Republicans: 11%)
 - Conservative Republicans: 23%
 - No party/Not interested in politics/Refused: 6% (included in results reported for "All Registered Voters" only)
- For tabulation purposes, percentage points are rounded to the nearest whole number. As a result, percentages in a given chart may total slightly higher or lower than 100%. Summed response categories (e.g., "strongly support" + "somewhat support") are rounded after sums are calculated (e.g., 1.3% + 1.3% = 2.6%, which, after rounding, would be reported as 1% + 1% = 3%).
- In the appendix data tables, note that: -- denotes that there were no responses in that cell, whereas 0 denotes that there were responses, but the value was less than 0.5.

Executive Summary

Drawing on a nationally representative survey ($N = 1,114$; including 966 registered voters), this report describes Americans' energy-related beliefs, attitudes, consumer behaviors, and support for different energy policies. Among other important results, we found strong bipartisan support for requiring electric utilities to use 100% clean, renewable energy, that a majority of Americans say transitioning to clean, renewable energy will benefit the economy, and that support for renewable energy research has increased by 30 percentage points among conservative Republicans over the past five years.

Beliefs and Attitudes about Clean, Renewable Energy

- Most Americans consider both “clean energy” and “renewable energy” to be good things. Liberal Democrats were more likely to rate the term “clean energy” (99%) positively than “renewable energy” (83%), while conservative Republicans were more likely to rate the term “renewable energy” (63%) positively than “clean energy” (46%).
- About six in ten Americans consider coal energy (62%) to be “moderately” or more harmful to people’s health. Democrats (76%) are more likely than Republicans (57%) to say that coal is harmful. About half of Americans (53%) say nuclear energy is harmful. In contrast, almost no Americans think solar (5%) or wind energies (5%) are harmful to people’s health.
- A majority of Americans (58%) – including three in four Democrats (75%) – think policies intended to transition from fossil fuels to clean, renewable energy will improve economic growth and create new jobs. Only 18% of Americans – and 7% of Democrats – think such policies will *reduce* growth and jobs. More Republicans think such a transition will improve economic growth (39%) than reduce it (31%).
- Americans’ most important reasons to support a transition to 100% clean, renewable energy are reducing water pollution (75%), reducing air pollution (74%), and providing a better life for our children and grandchildren (72%).
- About seven in ten Americans (71%; including 87% of Democrats and 51% of Republicans) think clean energy should be a “high” or “very high” priority for the president and Congress. Very few Americans (7%, including 3% of Democrats and 11% of Republicans) think it should be a “low” priority.
- A majority of Americans (61%) – including about eight in ten Democrats (79%) – think that if all nations switch to 100% clean, renewable energy by 2050, it will be “moderately” or “very” effective at limiting global warming.

Support for Energy Policies

- A large majority of registered voters (85%) – including 95% of Democrats and 71% of Republicans – support requiring utilities in their state to produce 100% of their electricity from clean, renewable sources by 2050. Nearly two in three conservative Republicans (64%) support this policy.
- About half (54%) of registered voters (72% of Democrats, 33% of Republicans) say they are more likely to vote for a political candidate who supports requiring their state’s utilities to produce electricity from 100% clean, renewable energy sources. Only 13% of registered voters say they are less likely to vote for such a candidate.

- Between 2013 and 2018, support for funding renewable energy research increased by 15 percentage points among registered voters (from 73% to 88%). This growing support was primarily driven by a large shift among conservative Republicans, whose support increased by 30 points, from 50% to 80%.
- Between 2013 and 2018, support for tax rebates for energy-efficient vehicles and solar panels increased by 12 percentage points among registered voters (from 73% to 85%).

Energy Consumers: Beliefs, Attitudes, and Behaviors

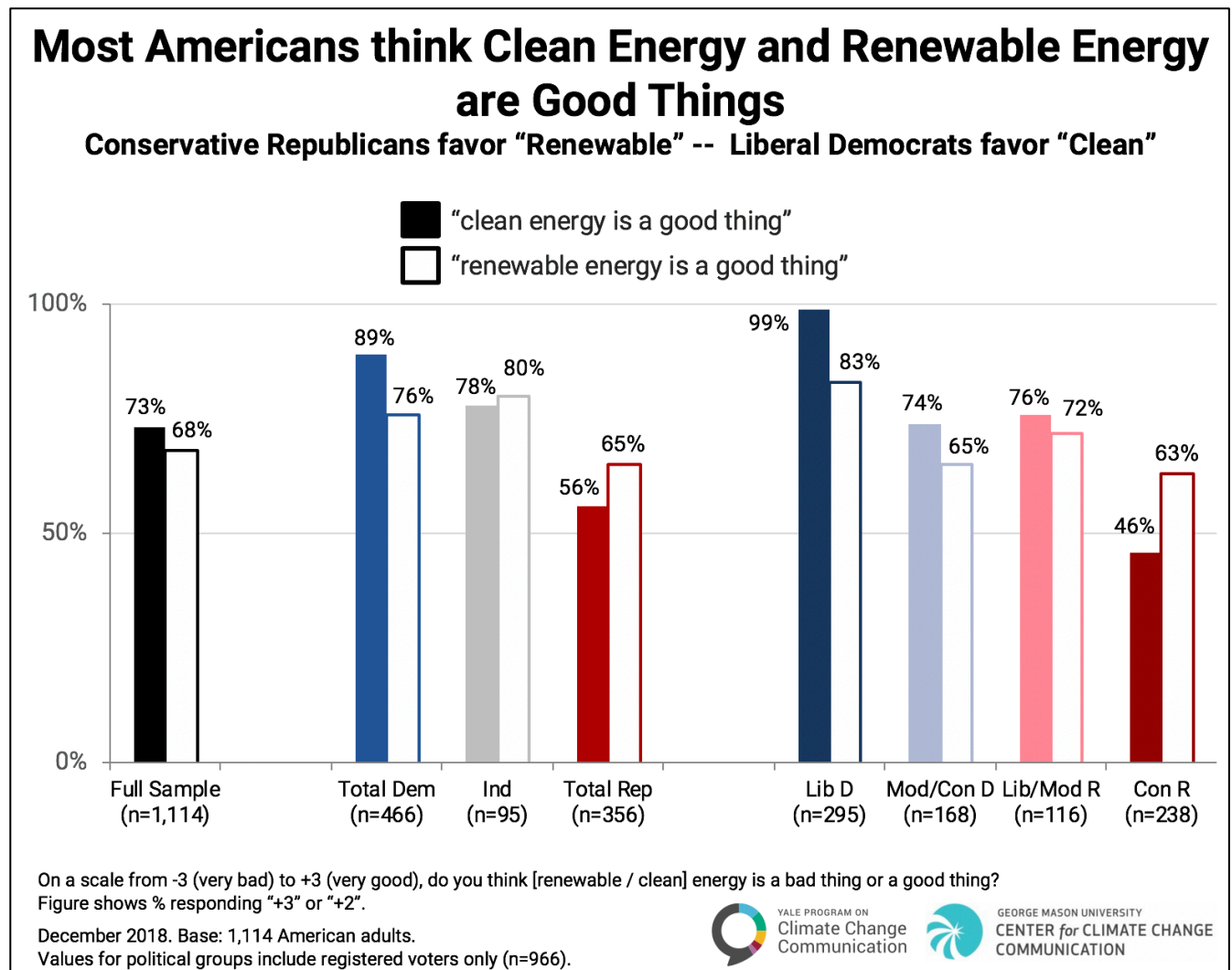
- A large majority of Americans (82%) either “don’t know” (48%) that they have the option to purchase 100% clean, renewable electricity from their local utility company or other provider, or believe they don’t have the option (34%). Half of Americans (50%; 56% of Democrats, 42% of Republicans) say they likely would purchase it if given the option. Very few Americans (5%) say they are currently purchasing 100% clean, renewable electricity.
- About half of Americans (49%; 63% of Democrats, 37% of Republicans) say they would be willing to pay more for 100% clean, renewable electricity, while the others (47%; 36% of Democrats, 60% of Republicans) say they would not pay more. On average, Americans say they would be willing to pay \$15 more per month (\$17 for Democrats, \$11 for Independents, \$9 for Republicans) for 100% clean, renewable electricity.
- Many Americans think electricity from renewable energy sources, including solar (38%) and wind (38%), is cheaper than electricity from coal; fewer think electricity from renewable energy sources costs more than coal (solar: 25%; wind: 19%). Only conservative Republicans are more likely to think solar and wind cost more than coal, not less.
- Almost half of Americans think electricity from solar (48%) and wind (45%) will get cheaper over the next decade. Conversely, few Americans (9%) think the cost of electricity from coal will decrease over the next decade (6% of Independents, 9% of Democrats, 11% of Republicans); 38% think it will cost more.
- About half of Americans (54%; 72% of Democrats, 53% of Independents, 37% of Republicans) say they are more likely to buy goods and services from companies that have committed to using 100% clean, renewable energy. In contrast, only 5% of Americans say they are *less* likely to buy from such companies.

1. Core Beliefs and Attitudes about Clean, Renewable Energy

1.1. Most Americans think clean energy and renewable energy are good things.

Most Americans consider “clean energy” and “renewable energy” to be good things. We asked our survey participants if they thought “clean energy” (half the sample) or “renewable energy” (the other half of the sample) is a good thing or a bad thing – using a scale of -3 (“very bad”) to +3 (“very good”). Most gave ratings of “+2” or “+3” to clean energy (73%) and renewable energy (68%) – i.e., most Americans think these are good things.

The responses varied, however, across the political spectrum. Liberal Democrats were more likely to rate the term “clean energy” (99%) positively than “renewable energy” (83%), while conservative Republicans were more likely to rate the term “renewable energy” (63%) positively than “clean energy” (46%).



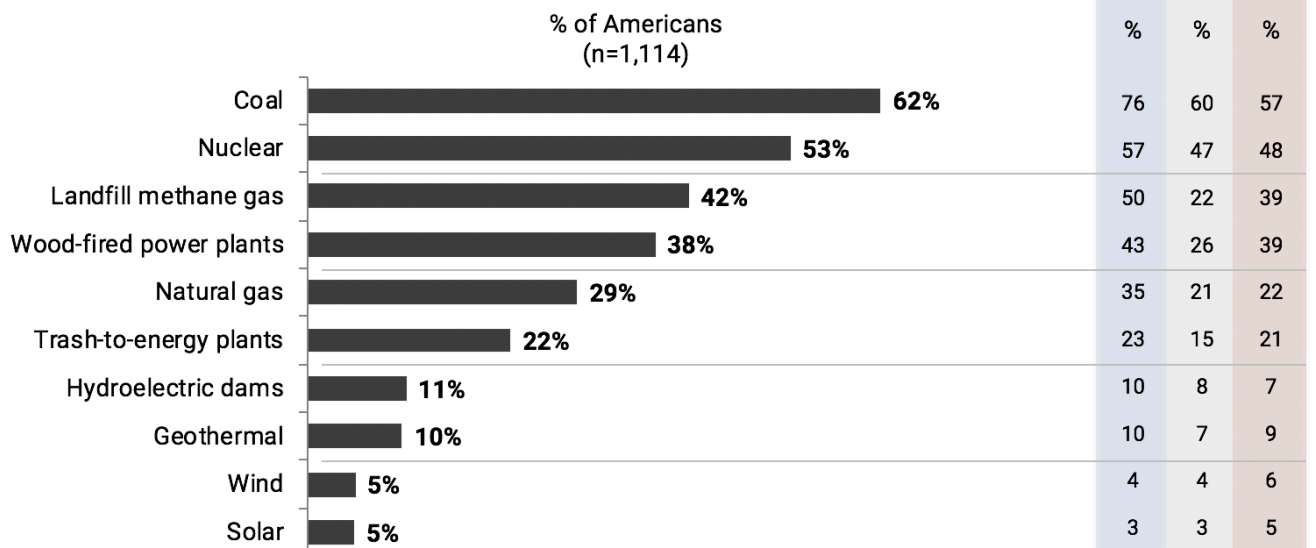
1.2. About six in ten Americans view coal energy as harmful to people's health.

About six in ten Americans consider coal energy (62%) to be at least “moderately” harmful to people’s health. Democrats (76%) are more likely than Republicans (57%) to say that coal is a harmful source of energy. About half of Americans (53%) say nuclear energy is harmful.

In contrast, almost no Americans see solar (5%) or wind energies (5%) as harmful to people’s health; about three in four Americans think wind and solar are “not at all harmful” (see Table, pp. 23-27). Democrats and Republicans largely agree on this point.

About Six in Ten Americans View Coal Energy as Harmful to People's Health

- % responding “Extremely,” “Very,” or “Moderately” harmful -



To the best of your knowledge, how harmful are each of the following energy sources to people's health?

Figure shows % responding “Extremely,” “Very,” or “Moderately” harmful.

December 2018. Base: 1,114 American adults.

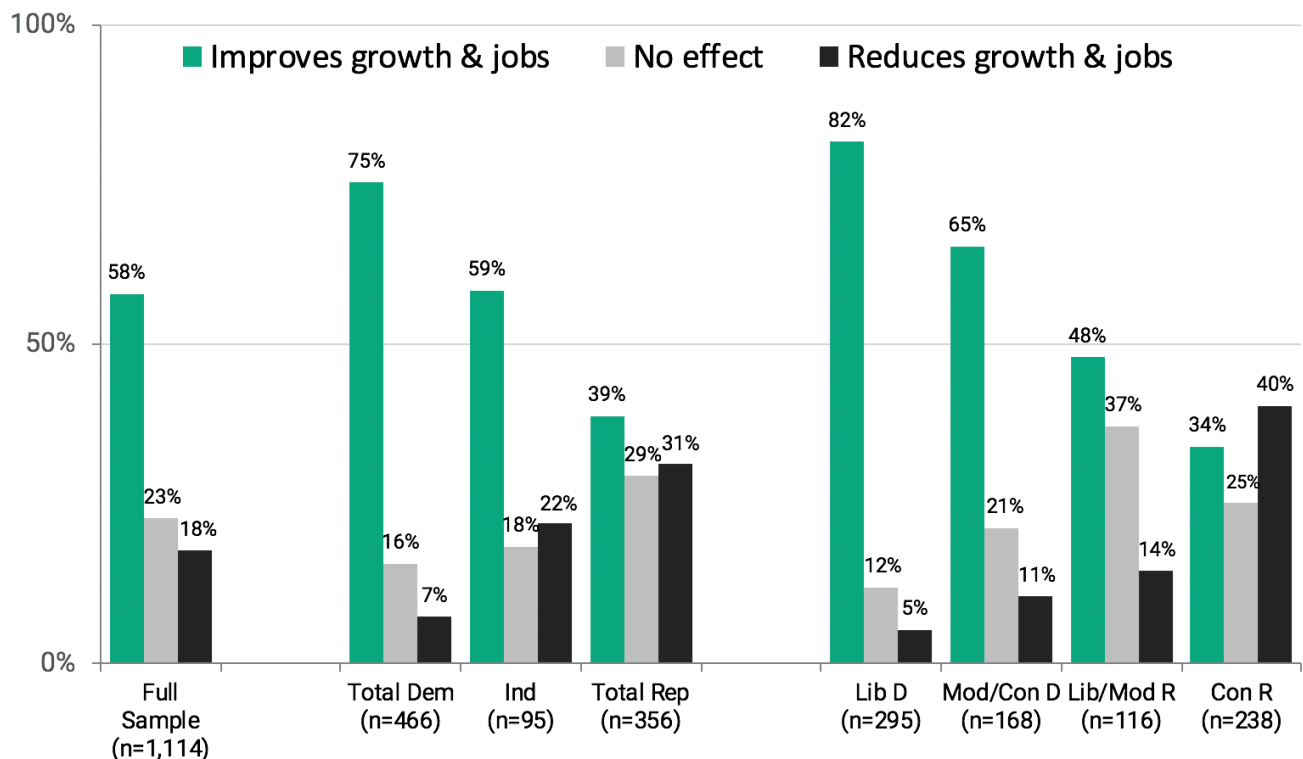
Values for political groups include registered voters only (n=966).



1.3. Most Americans think policies that promote clean energy will improve economic growth and create jobs.

A majority of Americans (58%) – including three in four Democrats (75%) – think policies intended to transition from fossil fuels to clean energy will improve economic growth and create new jobs. Only 18% of Americans – and 7% of Democrats – think such policies would *reduce* growth and jobs. Although Republicans are less likely than Democrats to think transitioning away from fossil fuels will improve economic growth and create new jobs, more Republicans believe such a transition will improve economic growth (39%) than will reduce it (31%), while 29% say it will have no effect one way or the other.

Most Americans Think Policies that Promote Clean Energy Will Improve Economic Growth and Create Jobs



Do you think that government policies intended to transition away from fossil fuels (coal, oil, natural gas) and toward clean energy (solar, wind) will: (a) improve economic growth and provide new jobs, (b) reduce economic growth and cost jobs, (c) have no effect on economic growth or jobs?

December 2018. Base: 1,114 American adults.

Values for political groups include registered voters only (n=966).



1.4. Three in four Americans say reducing pollution is an “extremely” or “very” important reason to transition to 100% clean, renewable energy.

Survey respondents were asked how personally important they found various reasons for transitioning to 100% clean, renewable energy. The reasons most frequently cited as either “extremely” or “very” important were reducing water pollution (75%), reducing air pollution (74%), and providing a better life for our children and grandchildren (72%). Reducing global warming was selected as an “extremely” or “very” important reason by two in three Americans (66%), including a large majority of Democrats (86%) and four in ten Republicans (40%).

The largest differences between Democrats and Republicans (total D-total R) were in reducing global warming (a 46-point gap), protecting communities harmed by fossil fuels (41 points), reducing the influence of the fossil fuel industry (36 points), reducing air pollution (33 points), and saving plants/animals from extinction (32 points). By contrast, protecting God’s creation had the smallest difference between Democrats and Republicans (3 points).

3 in 4 Americans say Reducing Pollution is an “Extremely” or “Very” Important Reason to Transition to 100% Clean, Renewable Energy

	(Unweighted base)	All Reg. Voters (1,114) %	Democrats			Ind. (95) %	Republicans		
			Total Dem. (466) %	Lib. Dem. (295) %	Mod/Con Dem. (168) %		Total Rep. (356) %	Lib/Mod Rep. (116) %	Con. Rep. (238) %
Reduce water pollution	75		87	89	83	79	58	65	54
Reduce air pollution	74		88	93	81	76	56	62	52
Provide a better life for our children	72		84	89	78	67	55	63	51
Get energy from sources that never run out	71		80	83	76	73	58	63	55
Reduce energy costs	71		77	77	76	69	58	62	54
Improve people’s health	71		83	86	77	73	53	59	49
Save plant/animal species from extinction	67		80	85	73	66	49	62	41
Reduce global warming	66		86	92	78	57	40	55	32
Create jobs and a stronger economy	66		75	77	72	65	54	61	49
Make energy costs more stable	65		73	75	70	63	52	56	50
Increase America’s energy independence	64		73	75	70	71	56	61	53
Protect communities harmed by fossil fuels	60		78	83	70	58	37	40	34
Reduce influence of fossil fuel industry	59		76	80	69	57	39	46	35
Reduce military costs of protecting our access to foreign sources of energy	53		64	67	58	58	41	46	38
Make the U.S. a global energy leader	53		68	71	63	46	40	44	37
Protect God’s creation	51		51	47	58	40	48	50	45

How important to you personally, if at all, are each of the following reasons to transition to 100% clean, renewable energy?

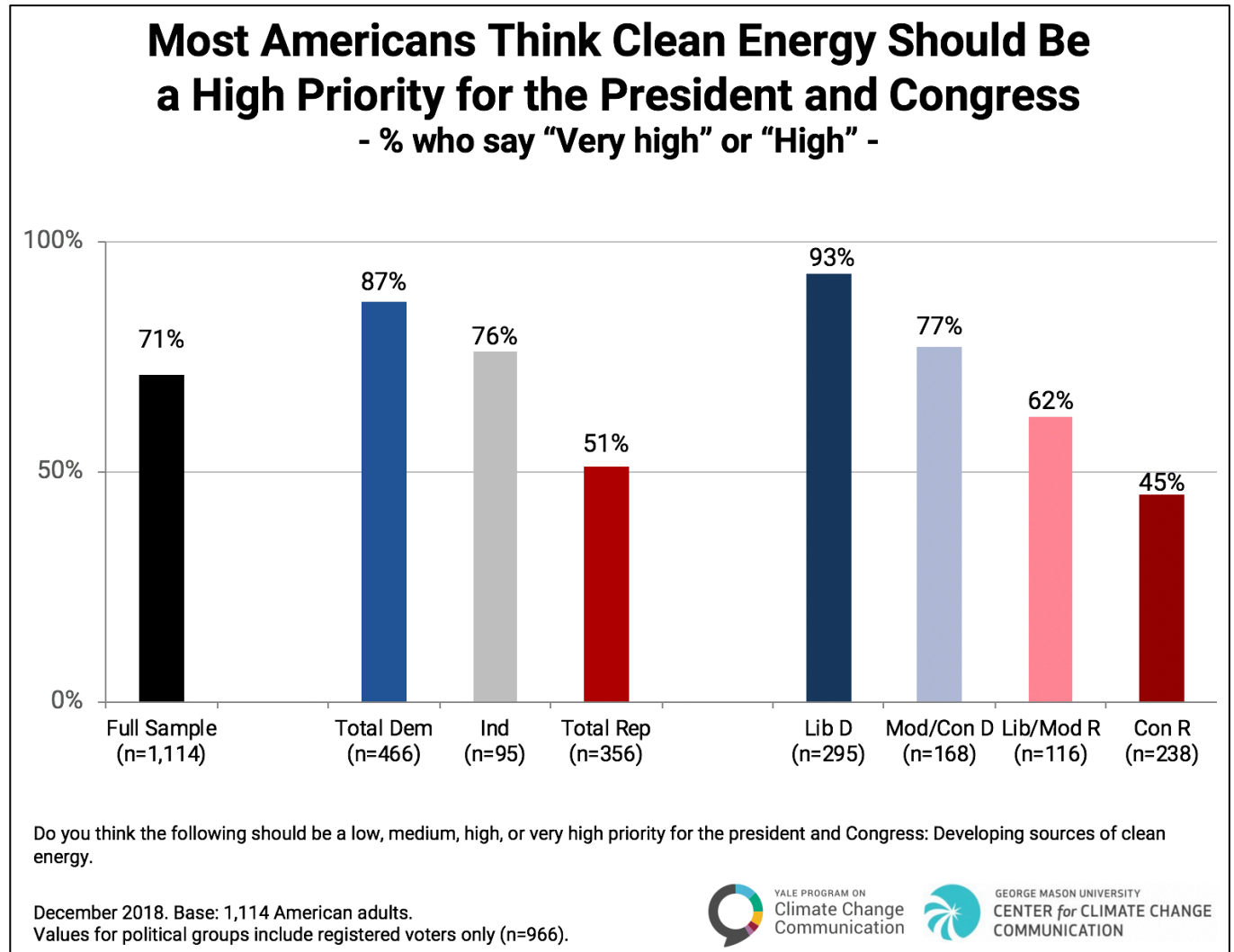
December 2018. Base: 1,114 American adults.

Values for political groups include registered voters only (n=966).



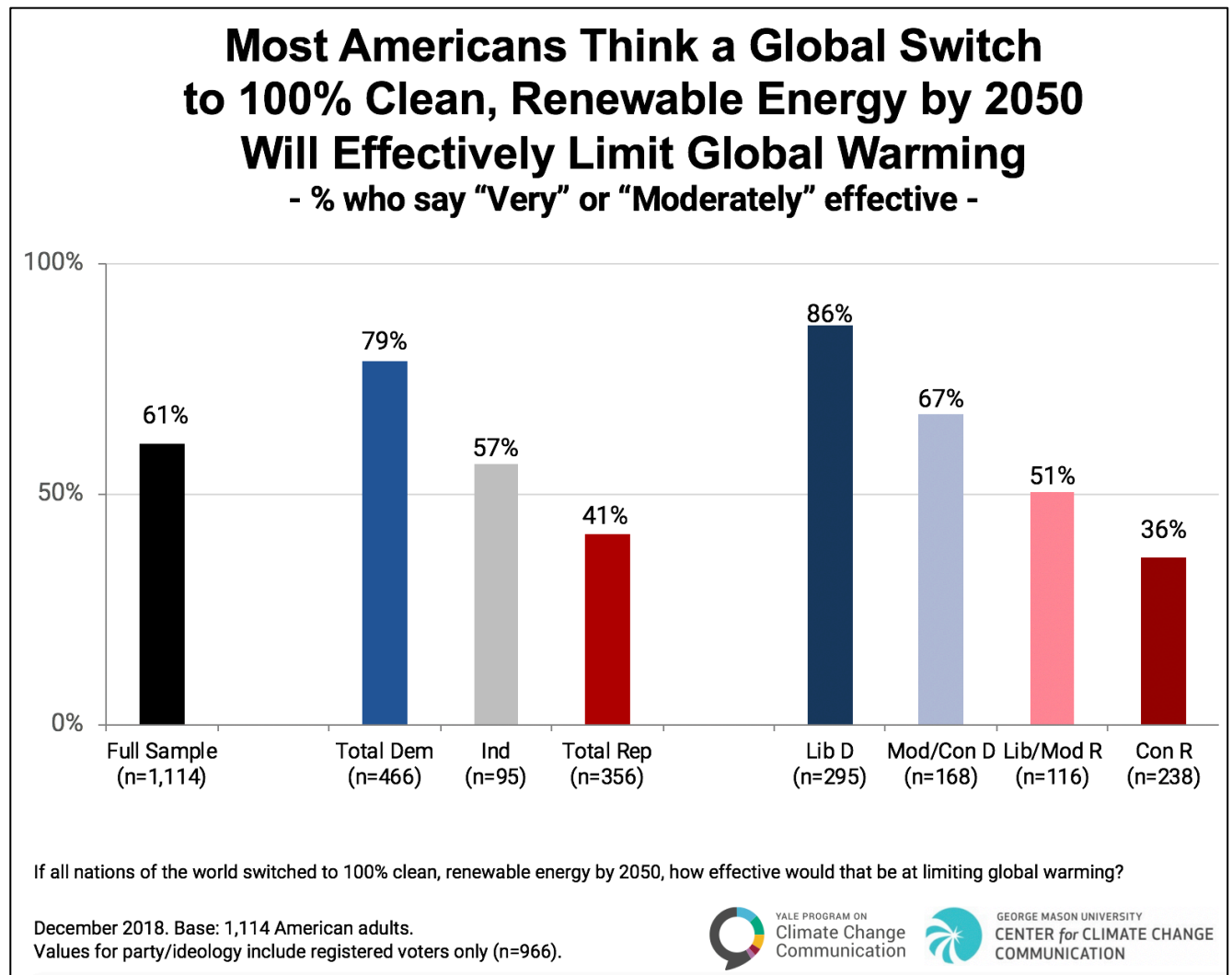
1.5. Most Americans think clean energy should be a high priority for the president and Congress.

About seven in ten Americans (71%; 87% of Democrats, 51% of Republicans) think clean energy should be either a “high” or “very high” priority for the president and Congress. Only 7% of Americans (3% of Democrats, 11% of Republicans) think it should be a “low” priority (see Table, p. 37).



1.6. Most Americans think a global switch to 100% clean, renewable energy by 2050 will effectively limit global warming.

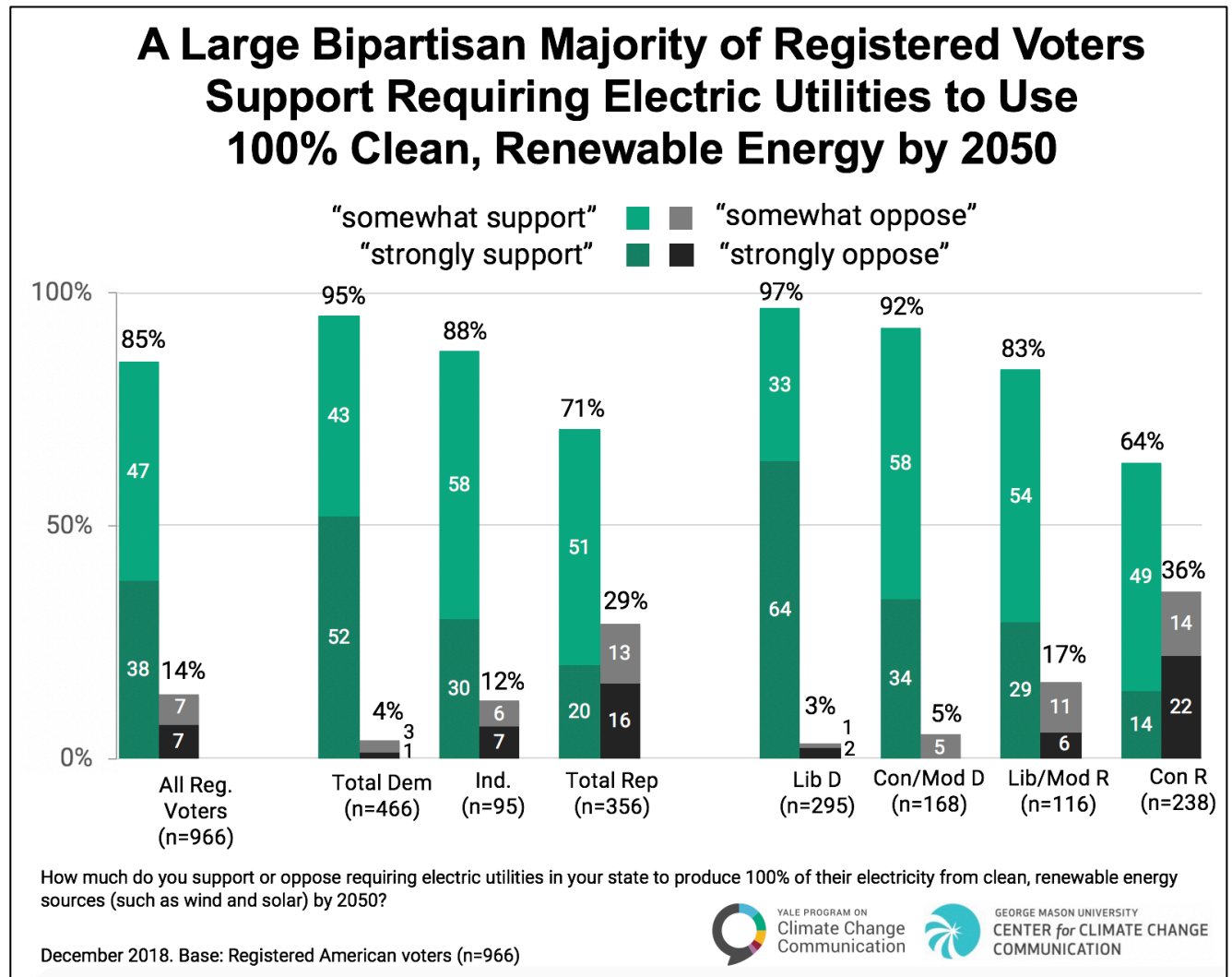
A majority of Americans (61%) – including about eight in ten Democrats (79%) – think that if all nations switch to 100% clean, renewable energy by 2050, it will be “moderately” or “very” effective at limiting global warming. Liberal Democrats (86%) are more than twice as likely as conservative Republicans (36%) to think this.



2. Support for Energy Policies

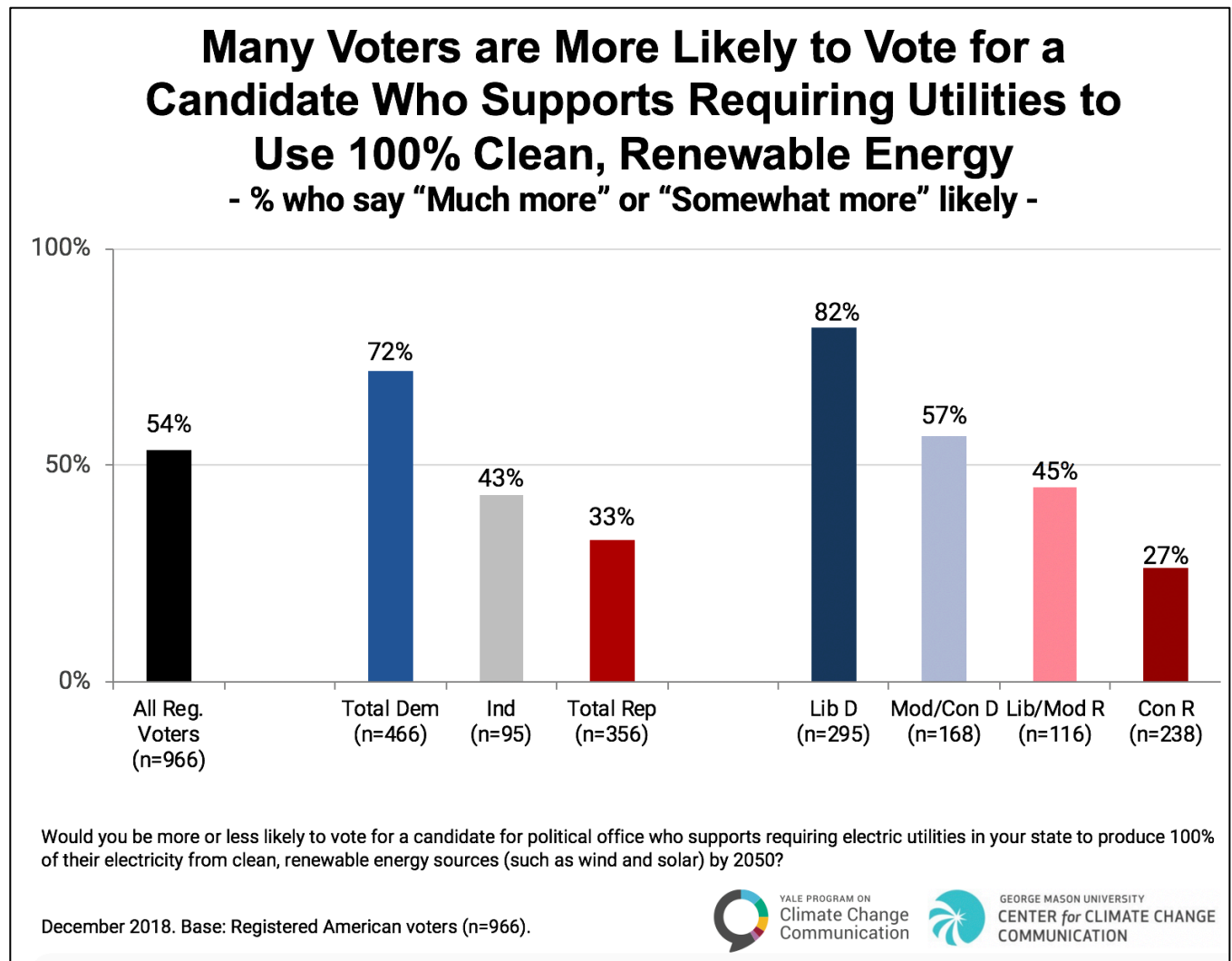
2.1. A large bipartisan majority of registered voters support requiring electric utilities to use 100% clean, renewable energy by 2050.

A large majority of registered voters (85%) – including 95% of Democrats and 71% of Republicans – support requiring utilities to produce 100% of their electricity from clean, renewable sources by 2050. Nearly two in three conservative Republicans (64%) support this policy.



2.2. Many voters are more likely to vote for a candidate who supports requiring utilities to use 100% clean, renewable energy.

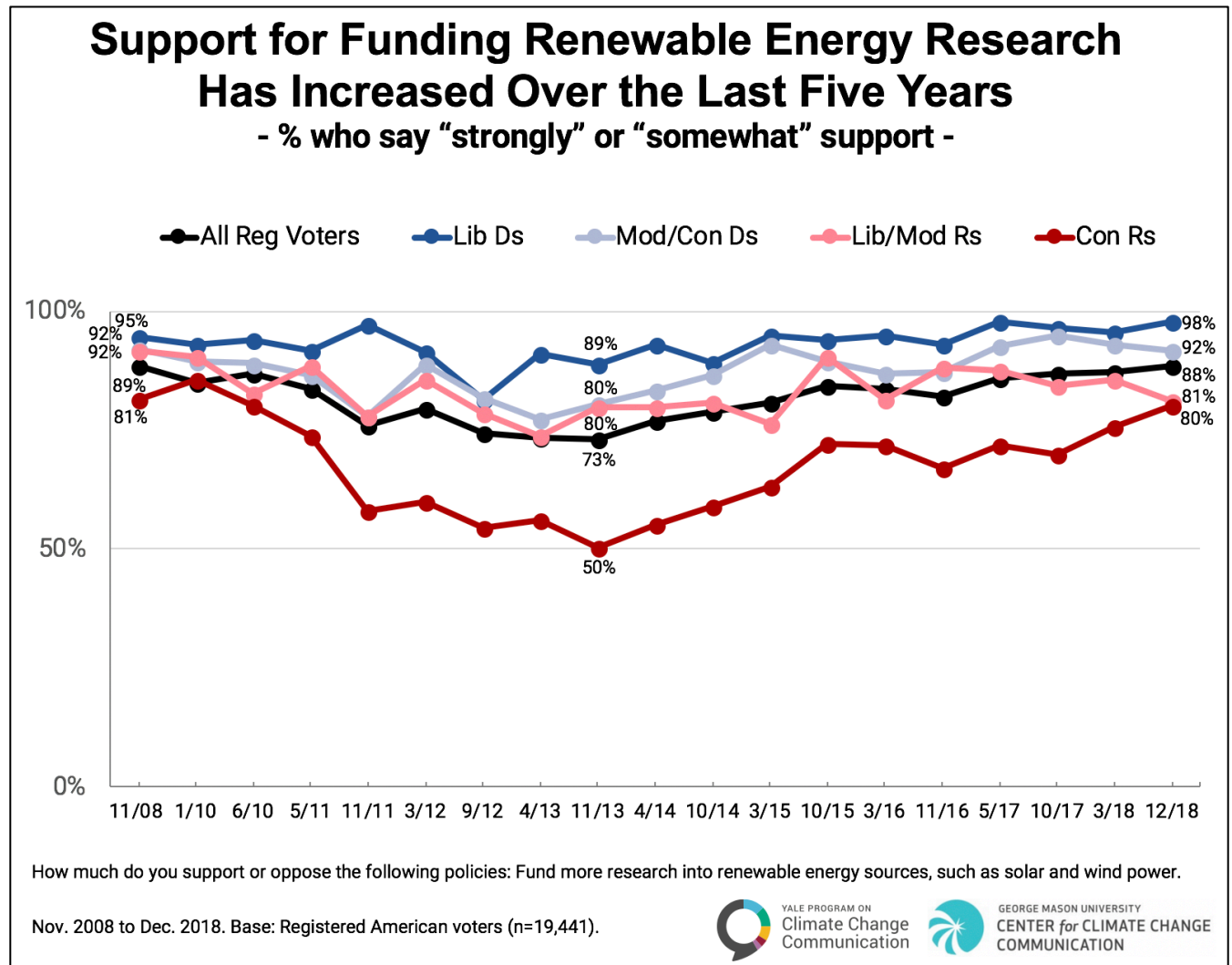
About half (54%) of registered voters (72% of Democrats, 33% of Republicans) say they are more likely to vote for a political candidate who supports requiring utilities to produce electricity from 100% clean, renewable energy sources. Only 13% of registered voters say they are less likely to vote for such a candidate (see Table, p. 37), and 32% say it makes no difference either way.



2.3. Support for funding renewable energy research has increased over the last five years.

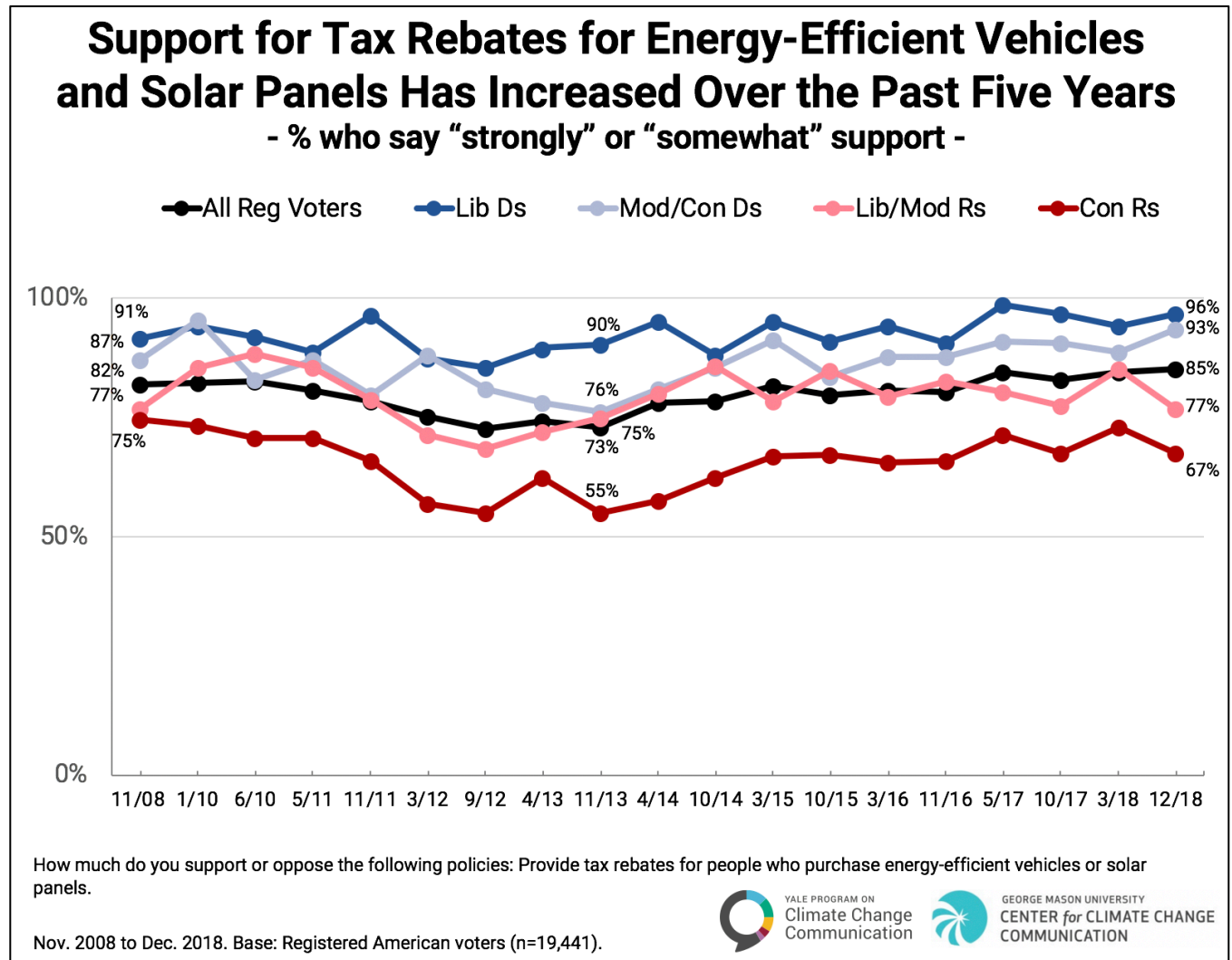
From 2013 to 2018, support for funding renewable energy research increased among registered voters by 15 percentage points (from 73% to 88%). This change was driven in large part by a major shift among conservative Republicans, whose support increased by 30 points, from 50% to 80%.

These recent highs reach the prior record highs of 2008, in which overall support for renewable energy research was at 89% (95% of liberal Democrats, 81% of conservative Republicans).



2.4. Support for tax rebates for energy-efficient vehicles and solar panels has increased over the past five years.

From 2013 to 2018, support for tax rebates for energy-efficient vehicles and solar panels increased among registered voters by 12 percentage points (from 73% to 85%). The increases in support were largest among moderate/conservative Democrats (+17%) and conservative Republicans (+12%).



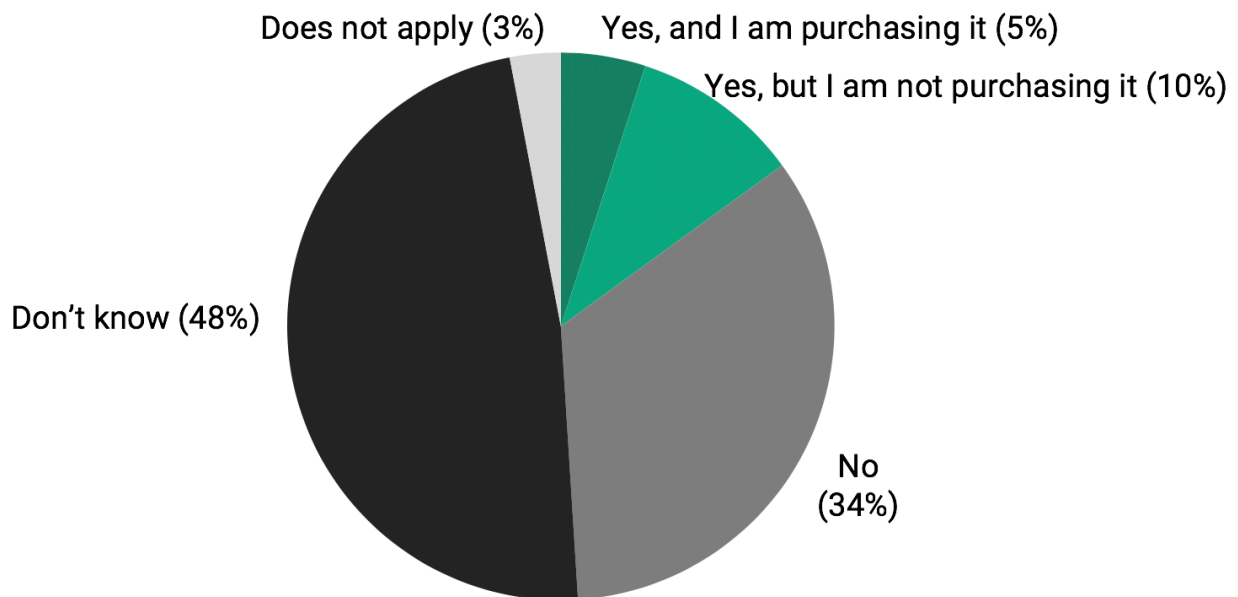
3. Energy Consumers: Beliefs, Attitudes, and Behaviors

3.1. About half of Americans don't know if they have the option to purchase 100% clean, renewable electricity.

Nearly half of Americans (48%) don't know if they have the option to purchase 100% clean, renewable electricity from their local utility company or other electricity provider. About one in three (34%) say they don't have that option, while 10% say they have the option but aren't purchasing it. Only 5% of Americans say they are currently purchasing 100% clean, renewable electricity.

About Half of Americans Don't Know If They Have the Option to Purchase 100% Clean, Renewable Electricity

Do you currently have the option to purchase 100% clean, renewable electricity?



Do you currently have the option to purchase 100% clean, renewable electricity from your local utility company or other electricity provider?
Are you currently purchasing 100% clean, renewable electricity from your local utility company or other electricity provider?

Dec. 2018. Base: 1,114 American adults.



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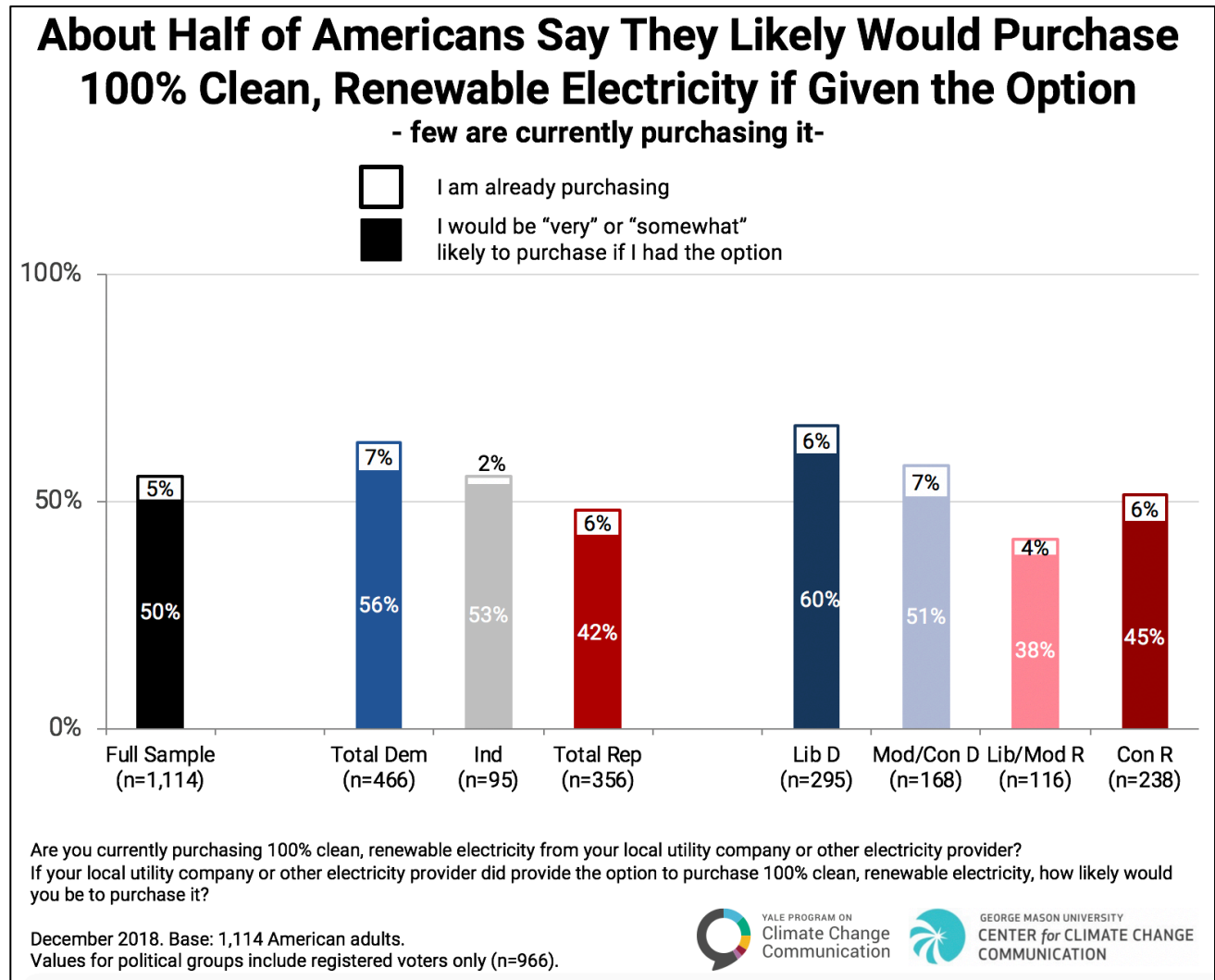
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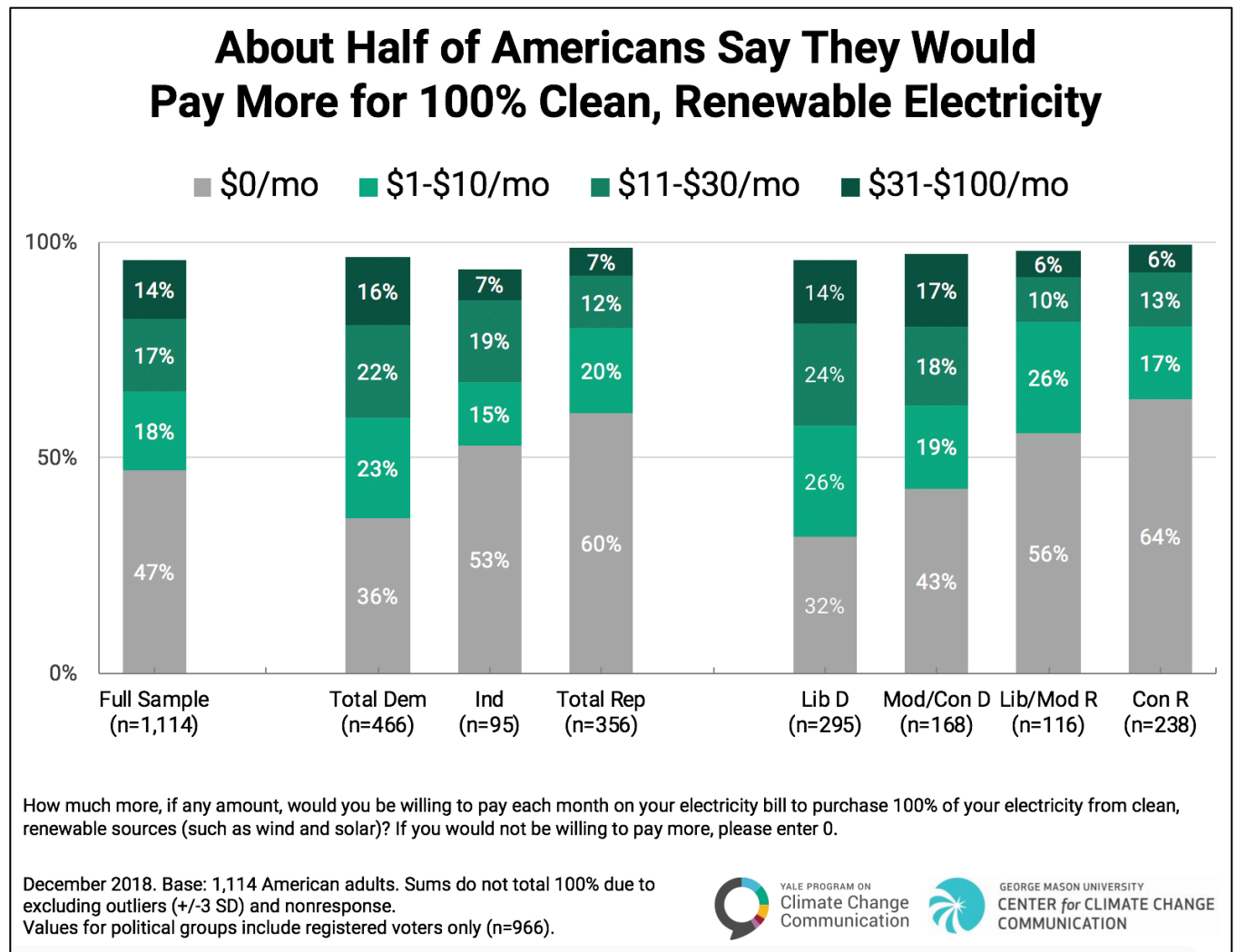
3.2. About half of Americans say they likely would purchase 100% clean, renewable electricity if given the option.

Half of Americans (50%) would purchase 100% clean, renewable energy from their local utility company, but either think they don't have that option or don't know if they do. This includes over half of Democrats (56%) and many Republicans (42%).



3.3. About half of Americans say they would pay more for 100% clean, renewable electricity.

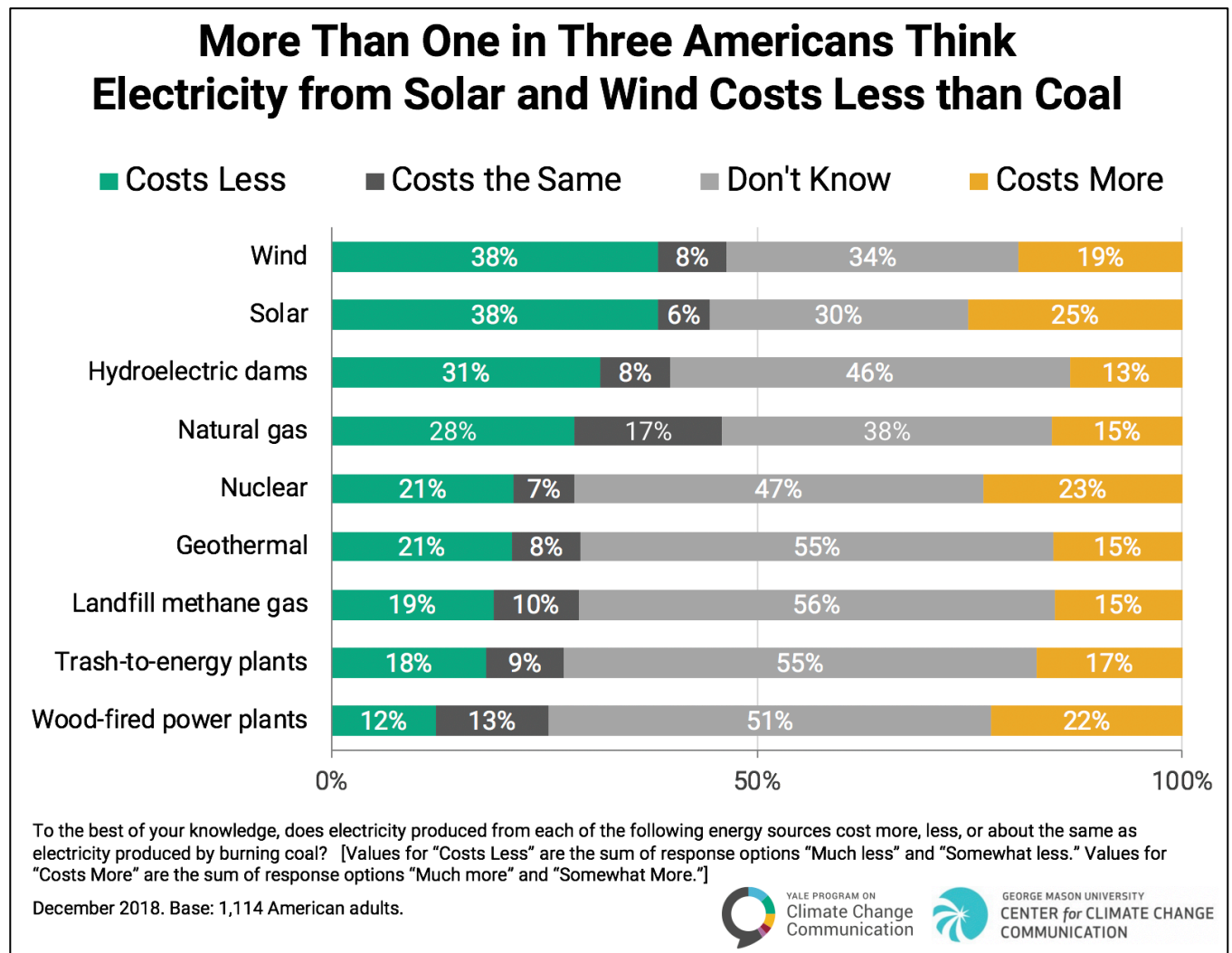
About half of Americans (49%; 63% of Democrats, 37% of Republicans) say they would pay more for 100% clean, renewable electricity, while about the same proportion (47%; 36% of Democrats, 60% of Republicans) say they would not pay more. On average, Americans say they would pay \$15 more per month (\$17 for Democrats; \$11 for Independents; \$9 for Republicans) for 100% clean, renewable electricity.



3.4. More than one in three Americans think electricity from solar and wind costs less than coal.

Many Americans think electricity from renewable energy sources, including solar (38%) and wind, (38%) is less expensive than electricity from coal; fewer think renewable energy sources cost more than coal (solar: 25%; wind: 19%). Many say they don't know if renewable energy sources cost less or more than coal (solar: 30%; wind: 34%).

Democrats (48%) are more likely than Independents (38%) or Republicans (29%) to think that electricity from solar costs less than coal (see Table, pp. 46-50) – a pattern that is similar to perceptions of the costs of electricity from wind (49% of Democrats, 32% of Independents, 31% of Republicans). Conservative Republicans are the only political segment in which those who think solar and wind cost more than coal outnumber those who think solar and wind cost less than coal. Opinions about the cost of coal compared to nuclear, natural gas, geothermal, and hydroelectric dams are relatively stable across political segments, with large percentages of Americans saying they don't know.

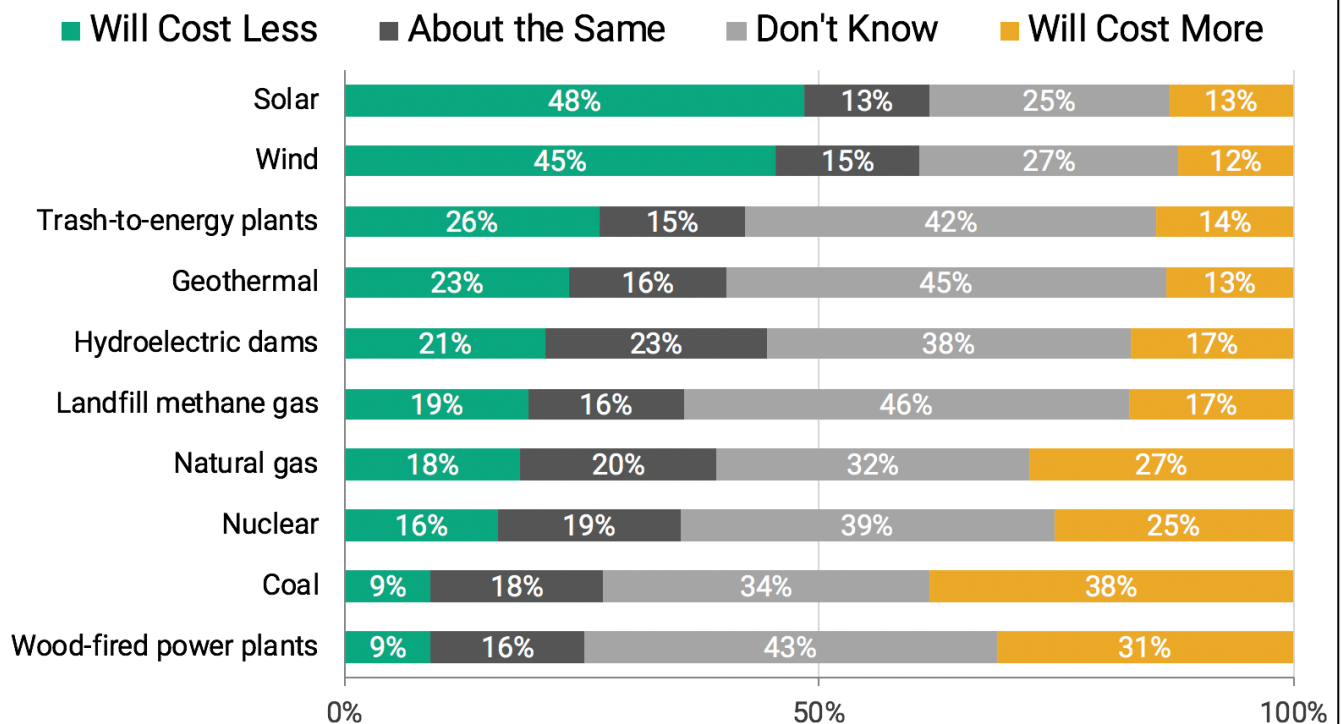


3.5. Many Americans think electricity from solar and wind will get cheaper over the next decade.

Almost half of Americans think the cost of electricity from solar (48%) and wind (45%) will decrease over the next 10 years. Many Democrats think solar (60%) and wind (56%) will be less expensive in 10 years, while fewer Republicans think so (solar, 44%; wind, 36%).

Conversely, few Americans think the cost of electricity from coal will decrease over the next decade (6% of Independents, 9% of Democrats, 11% of Republicans), while 38% think it will cost more (see Table, pp. 51-56). About three in ten Americans (34%) say they don't know if the cost of coal will increase, decrease, or stay the same – a common response for all energy sources.

Many Americans Think Electricity from Solar and Wind Will Get Cheaper Over the Next Decade



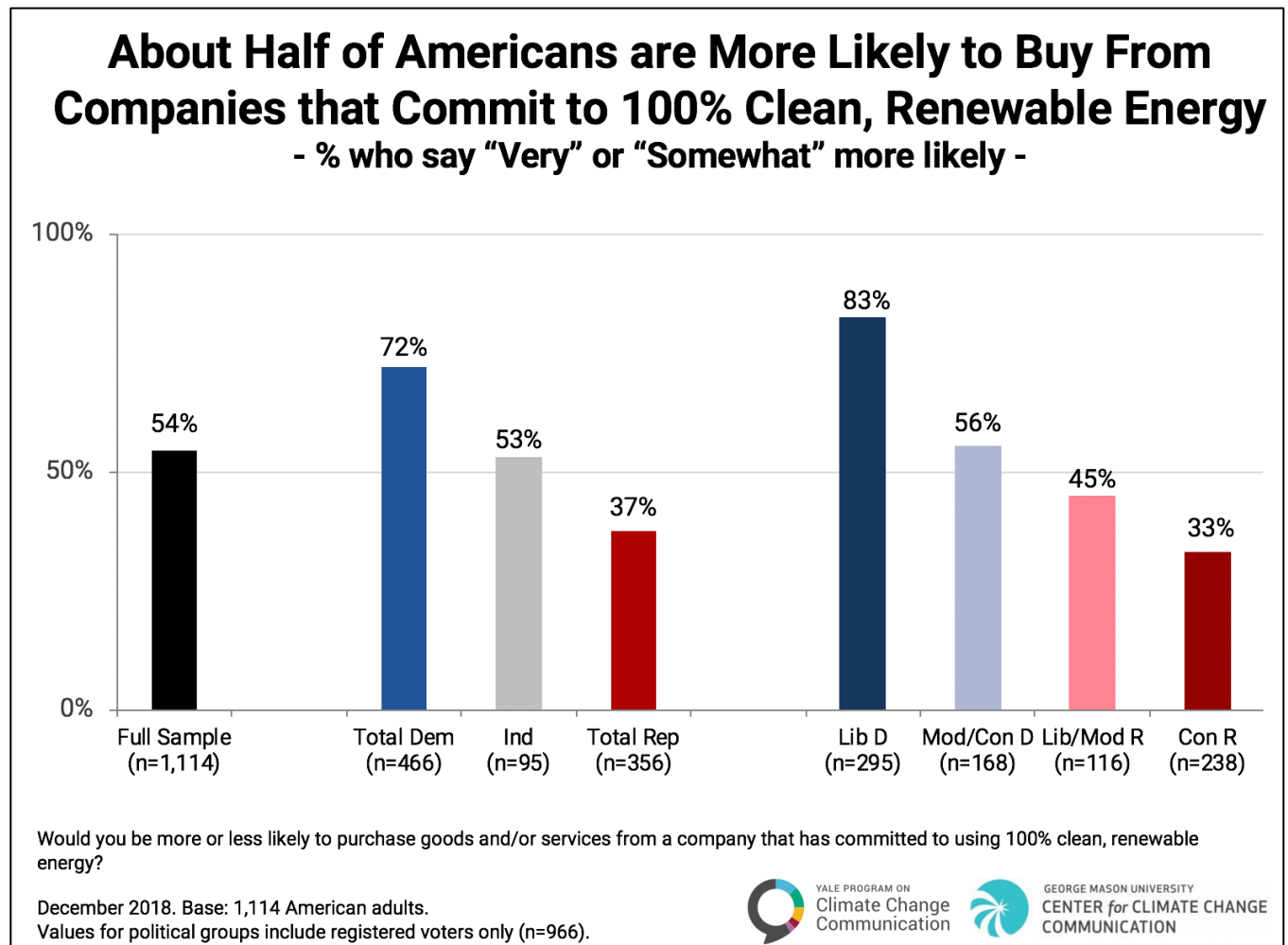
Over the next 10 years, do you think the cost of producing electricity from each of the following sources will be more expensive, less expensive, or about the same as today?

December 2018. Base: 1,114 American adults.



3.6. About half of Americans are more likely to buy from companies that commit to 100% clean, renewable energy.

About half of Americans (54%; 72% of Democrats, 53% of Independents, 37% of Republicans) say they are more likely to buy goods and services from companies that have committed to using 100% clean, renewable energy. In contrast, only 5% of Americans say they are *less* likely to buy from such companies (2% of Democrats, 5% of Independents, 7% of Republicans; see Table, p. 56).



Appendix I: Data Tables

On a scale from -3 (very bad) to +3 (very good), do you think renewable energy is a bad thing or a good thing?

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/Con Dem	Ind/Other	Total Rep	Mod/Lib Rep	Con Rep
Unweighted Base	556	249	155	95	58	186	63	121
	%	%	%	%	%	%	%	%
+3 or +2	68	76	83	65	80	65	72	63
Very good (+3)	46	61	70	48	51	36	37	37
+2	22	15	14	17	29	29	35	26
+1	13	10	8	14	3	21	14	22
-1	3	2	2	2	0	5	1	7
-2	0	--	--	--	--	1	--	2
Very bad (-3)	0	--	--	--	--	0	--	1
Never heard of renewable energy	14	11	5	18	17	7	13	5

On a scale from -3 (very bad) to +3 (very good), do you think clean energy is a bad thing or a good thing?

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/Con Dem	Ind/Other	Total Rep	Mod/Lib Rep	Con Rep
Unweighted Base	558	259	161	97	56	203	74	129
	%	%	%	%	%	%	%	%
+3 or +2	73	89	99	74	78	56	76	46
Very good (+3)	52	72	86	47	63	27	37	23
+2	21	18	13	26	15	29	39	23
+1	15	4	1	8	13	34	20	41
-1	2	1	--	3	3	2	2	3
-2	--	--	--	--	--	--	--	--
Very bad (-3)	1	1	--	3	3	--	--	--
Never heard of clean energy	9	5	--	12	2	7	2	10

To the best of your knowledge, how harmful are each of the following energy sources to people's health?

Solar

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Very/Extremely/Moderately harmful	5	3	2	5	3	5	2	6
Extremely harmful	1	0	--	1	1	1	--	1
Very harmful	1	0	0	1	--	1	--	1
Moderately harmful	3	2	1	3	3	3	2	4
A little harmful	9	8	6	11	10	12	11	11
Not at all harmful	66	74	81	64	62	65	60	68
Don't know	19	15	11	20	22	18	26	15

Wind

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Very/Extremely/Moderately harmful	5	4	2	6	4	6	3	8
Extremely harmful	1	0	--	1	1	1	--	2
Very harmful	1	0	0	0	--	2	2	2
Moderately harmful	4	3	2	5	3	4	1	5
A little harmful	9	9	6	14	11	11	11	11
Not at all harmful	66	73	81	60	65	64	57	67
Don't know	18	13	10	17	18	18	28	14

To the best of your knowledge, how harmful are each of the following energy sources to people's health?
(Cont'd.)

Geothermal

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Very/Extremely/Moderately harmful	10	10	10	10	7	9	3	10
Extremely harmful	1	1	1	1	2	1	--	1
Very harmful	2	2	1	4	--	1	2	1
Moderately harmful	7	7	8	5	4	7	2	8
A little harmful	12	11	10	14	8	15	19	13
Not at all harmful	32	37	43	29	39	34	28	38
Don't know	45	41	37	46	43	41	49	38

Natural gas

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Very/Extremely/Moderately harmful	29	35	36	34	21	22	23	21
Extremely harmful	4	3	2	5	2	2	1	1
Very harmful	5	6	6	6	3	4	3	4
Moderately harmful	21	26	28	22	16	16	19	15
A little harmful	31	33	34	31	30	36	31	38
Not at all harmful	14	10	10	11	16	20	15	23
Don't know	24	21	20	22	30	21	29	17

**To the best of your knowledge, how harmful are each of the following energy sources to people's health?
(Cont'd.)**

Nuclear

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Very/Extremely/Moderately harmful	53	57	54	61	47	48	47	48
Extremely harmful	22	22	22	23	18	16	14	17
Very harmful	14	15	13	18	15	12	12	11
Moderately harmful	17	19	19	20	14	20	20	20
A little harmful	13	16	20	10	8	13	11	14
Not at all harmful	10	8	9	6	14	17	12	20
Don't know	23	18	16	21	28	21	29	18

Hydroelectric dams

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Very/Extremely/Moderately harmful	11	10	10	11	8	7	7	6
Extremely harmful	2	2	0	4	1	1	--	--
Very harmful	2	2	1	3	--	--	--	--
Moderately harmful	7	7	8	4	7	6	7	6
A little harmful	14	14	15	13	13	16	15	17
Not at all harmful	43	48	54	39	38	48	42	51
Don't know	32	27	21	34	37	29	35	26

**To the best of your knowledge, how harmful are each of the following energy sources to people's health?
(Cont'd.)**

Methane gas emitted by landfills

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Very/Extremely/Moderately harmful	42	50	49	50	22	39	43	36
Extremely harmful	10	11	10	11	7	8	8	6
Very harmful	12	15	14	18	4	10	11	9
Moderately harmful	19	23	25	21	11	22	24	21
A little harmful	17	18	17	19	22	20	15	23
Not at all harmful	7	6	7	3	6	9	5	11
Don't know	33	25	25	25	46	32	36	30

Trash-to-energy plants

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Very/Extremely/Moderately harmful	22	23	20	27	15	21	15	23
Extremely harmful	3	2	2	3	3	2	--	2
Very harmful	5	6	3	9	4	4	5	3
Moderately harmful	14	15	15	14	8	15	9	18
A little harmful	21	24	24	25	21	25	25	25
Not at all harmful	15	16	21	8	15	13	10	15
Don't know	40	36	34	38	45	41	49	37

**To the best of your knowledge, how harmful are each of the following energy sources to people's health?
(Cont'd.)**

Wood-fueled power plants

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Very/Extremely/Moderately harmful	38	43	43	44	26	39	36	41
Extremely harmful	5	6	4	9	4	3	2	4
Very harmful	10	12	13	10	8	5	5	6
Moderately harmful	23	26	26	26	13	30	28	32
A little harmful	22	22	25	18	25	25	21	26
Not at all harmful	7	6	6	7	3	8	10	7
Don't know	32	27	26	29	43	28	33	26

Coal

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Very/Extremely/Moderately harmful	62	76	81	71	60	57	56	57
Extremely harmful	20	32	38	24	19	10	10	9
Very harmful	21	23	26	20	21	18	21	17
Moderately harmful	22	21	17	27	19	29	25	31
A little harmful	13	6	5	8	11	20	13	24
Not at all harmful	5	3	4	3	0	8	5	8
Don't know	19	13	11	16	27	15	25	10

Please indicate which one of these statements comes closest to your own views – even if it is not exactly right:

Overall, government policies intended to transition away from fossil fuels (coal, oil, natural gas) and toward clean energy (solar, wind) will...

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/Con Dem	Ind/Other	Total Rep	Mod/Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Improve economic growth and provide new jobs	58	75	82	65	59	39	48	34
Have no impact on economic growth or jobs	23	16	12	21	18	29	37	25
Reduce economic growth and cost jobs	18	7	5	11	22	31	14	40

How important to you personally, if at all, are each of following reasons to transition to 100% clean, renewable energy?

Reduce global warming

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/Con Dem	Ind/Other	Total Rep	Mod/Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very important	66	86	92	78	57	40	55	32
Extremely important	44	67	75	53	31	20	32	13
Very important	21	20	17	25	26	20	23	19
Moderately important	14	9	5	14	15	18	23	16
Only a little important	5	1	1	1	8	8	5	9
Not at all important	6	1	1	1	8	15	9	18
N/A because I do not support a transition to 100% clean, renewable energy	9	3	1	5	10	17	8	23

Reduce air pollution

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/Con Dem	Ind/Other	Total Rep	Mod/Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very important	74	88	93	81	76	56	62	52
Extremely important	47	62	68	53	40	27	32	23
Very important	27	26	25	27	36	29	30	29
Moderately important	11	6	3	10	9	18	26	13
Only a little important	4	3	2	4	1	7	3	10
Not at all important	1	0	0	0	1	1	0	1
N/A because I do not support a transition to 100% clean, renewable energy	9	3	1	5	10	17	8	23

How important to you personally, if at all, are each of following reasons to transition to 100% clean, renewable energy? (Cont'd.)

Reduce water pollution

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/Con Dem	Ind/Other	Total Rep	Mod/Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very important	75	87	89	83	79	58	65	54
Extremely important	46	59	65	49	41	28	33	25
Very important	29	28	24	35	38	30	32	30
Moderately important	12	8	7	10	7	17	22	15
Only a little important	3	1	2	1	1	5	4	6
Not at all important	1	1	0	1	1	0	-	1
N/A because I do not support a transition to 100% clean, renewable energy	9	3	1	5	10	17	8	23

Increase America's energy independence

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/Con Dem	Ind/Other	Total Rep	Mod/Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very important	64	73	75	70	71	56	61	53
Extremely important	36	46	48	41	38	29	29	28
Very important	28	28	27	29	33	27	33	25
Moderately important	19	17	17	19	10	18	23	16
Only a little important	5	4	6	2	2	5	5	5
Not at all important	2	2	1	4	4	2	1	2
N/A because I do not support a transition to 100% clean, renewable energy	9	3	1	5	10	17	8	23

How important to you personally, if at all, are each of following reasons to transition to 100% clean, renewable energy? (Cont'd.)

To get energy from sources that will never run out

		Democrats				Republicans		
	<u>Full Sample</u>	<u>Total Dem</u>	<u>Lib Dem</u>	<u>Mod/ Con Dem</u>	<u>Ind/ Other</u>	<u>Total Rep</u>	<u>Mod/ Lib Rep</u>	<u>Con Rep</u>
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very important	71	80	83	76	73	58	63	55
Extremely important	43	58	62	51	39	28	32	25
Very important	28	23	21	26	34	30	31	30
Moderately important	15	13	11	16	11	19	24	16
Only a little important	3	2	3	1	3	3	3	3
Not at all important	2	1	1	1	1	1	1	1
N/A because I do not support a transition to 100% clean, renewable energy	9	3	1	5	10	17	8	23

Reduce energy costs

		Democrats				Republicans		
	<u>Full Sample</u>	<u>Total Dem</u>	<u>Lib Dem</u>	<u>Mod/ Con Dem</u>	<u>Ind/ Other</u>	<u>Total Rep</u>	<u>Mod/ Lib Rep</u>	<u>Con Rep</u>
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very important	71	77	77	76	69	58	62	54
Extremely important	43	47	49	44	36	29	35	25
Very important	28	30	28	33	33	29	28	30
Moderately important	15	15	16	14	12	20	25	18
Only a little important	3	4	5	3	6	3	3	2
Not at all important	2	1	1	1	1	1	0	1
N/A because I do not support a transition to 100% clean, renewable energy	9	3	1	5	10	17	8	23

How important to you personally, if at all, are each of following reasons to transition to 100% clean, renewable energy? (Cont'd.)

Make energy costs more stable

		Democrats				Republicans		
	<u>Full Sample</u>	<u>Total Dem</u>	<u>Lib Dem</u>	<u>Mod/ Con Dem</u>	<u>Ind/ Other</u>	<u>Total Rep</u>	<u>Mod/ Lib Rep</u>	<u>Con Rep</u>
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very important	65	73	75	70	63	52	56	50
Extremely important	31	39	42	35	26	21	25	20
Very important	33	34	33	35	37	31	31	30
Moderately important	20	20	19	20	23	23	31	19
Only a little important	4	4	4	4	1	5	4	5
Not at all important	2	1	1	0	1	1	0	2
N/A because I do not support a transition to 100% clean, renewable energy	9	3	1	5	10	17	8	23

Reduce the military costs of protecting our access to foreign sources of energy

		Democrats				Republicans		
	<u>Full Sample</u>	<u>Total Dem</u>	<u>Lib Dem</u>	<u>Mod/ Con Dem</u>	<u>Ind/ Other</u>	<u>Total Rep</u>	<u>Mod/ Lib Rep</u>	<u>Con Rep</u>
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very important	53	64	67	58	58	41	46	38
Extremely important	26	36	40	30	30	18	22	16
Very important	28	28	28	28	29	22	24	22
Moderately important	24	22	20	25	20	24	32	19
Only a little important	9	9	9	9	6	9	10	9
Not at all important	5	2	2	2	4	7	3	9
N/A because I do not support a transition to 100% clean, renewable energy	9	3	1	5	10	17	8	23

How important to you personally, if at all, are each of following reasons to transition to 100% clean, renewable energy? (Cont'd.)

Make the U.S. a global leader in the clean, renewable energy industry

		Democrats				Republicans		
	<u>Full Sample</u>	<u>Total Dem</u>	<u>Lib Dem</u>	<u>Mod/ Con Dem</u>	<u>Ind/ Other</u>	<u>Total Rep</u>	<u>Mod/ Lib Rep</u>	<u>Con Rep</u>
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very important	53	68	71	63	46	40	44	37
Extremely important	27	40	44	32	22	13	16	12
Very important	27	29	27	31	25	26	28	26
Moderately important	24	19	16	23	27	25	35	20
Only a little important	8	6	6	6	11	9	9	9
Not at all important	6	4	5	3	4	7	3	10
N/A because I do not support a transition to 100% clean, renewable energy	9	3	1	5	10	17	8	23

Improve people's health

		Democrats				Republicans		
	<u>Full Sample</u>	<u>Total Dem</u>	<u>Lib Dem</u>	<u>Mod/ Con Dem</u>	<u>Ind/ Other</u>	<u>Total Rep</u>	<u>Mod/ Lib Rep</u>	<u>Con Rep</u>
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very important	71	83	86	77	73	53	59	49
Extremely important	43	58	66	47	32	26	28	25
Very important	28	24	21	30	41	27	31	25
Moderately important	14	11	8	14	11	21	30	16
Only a little important	4	2	3	1	2	6	2	8
Not at all important	2	1	--	3	2	1	--	2
N/A because I do not support a transition to 100% clean, renewable energy	9	3	1	5	10	17	8	23

How important to you personally, if at all, are each of following reasons to transition to 100% clean, renewable energy? (Cont'd.)

Create jobs and a stronger economy

		Democrats				Republicans		
	<u>Full Sample</u>	<u>Total Dem</u>	<u>Lib Dem</u>	<u>Mod/Con Dem</u>	<u>Ind/Other</u>	<u>Total Rep</u>	<u>Mod/ Lib Rep</u>	<u>Con Rep</u>
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very important	66	75	77	72	65	54	61	49
Extremely important	34	43	47	37	33	22	26	19
Very important	32	31	30	34	32	32	36	30
Moderately important	19	18	17	20	18	20	24	18
Only a little important	4	4	4	3	2	5	5	6
Not at all important	2	1	1	0	2	2	0	3
N/A because I do not support a transition to 100% clean, renewable energy	9	3	1	5	10	17	8	23

Save many plant and animal species from extinction

		Democrats				Republicans		
	<u>Full Sample</u>	<u>Total Dem</u>	<u>Lib Dem</u>	<u>Mod/Con Dem</u>	<u>Ind/Other</u>	<u>Total Rep</u>	<u>Mod/ Lib Rep</u>	<u>Con Rep</u>
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very important	67	80	85	73	66	49	62	41
Extremely important	40	54	62	42	27	25	32	21
Very important	27	26	23	30	39	24	30	20
Moderately important	15	12	9	18	16	20	19	20
Only a little important	5	3	3	2	4	9	8	10
Not at all important	3	1	1	1	2	4	2	5
N/A because I do not support a transition to 100% clean, renewable energy	9	3	1	5	10	17	8	23

How important to you personally, if at all, are each of following reasons to transition to 100% clean, renewable energy? (Cont'd.)

Protect God's creation

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/Con Dem	Ind/Other	Total Rep	Mod/Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very important	51	51	47	58	40	48	50	45
Extremely important	33	34	33	36	27	27	28	27
Very important	18	17	14	22	14	20	23	19
Moderately important	17	16	12	22	21	19	25	16
Only a little important	7	8	10	5	4	7	6	8
Not at all important	15	22	30	9	20	8	11	7
N/A because I do not support a transition to 100% clean, renewable energy	9	3	1	5	10	17	8	23

Provide a better life for our children and grandchildren

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/Con Dem	Ind/Other	Total Rep	Mod/Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very important	72	84	89	78	67	55	63	51
Extremely important	47	61	68	51	42	29	31	28
Very important	24	24	21	27	25	26	32	22
Moderately important	14	9	8	12	13	19	26	16
Only a little important	4	1	0	3	5	5	3	7
Not at all important	2	2	2	2	2	2	--	3
N/A because I do not support a transition to 100% clean, renewable energy	9	3	1	5	10	17	8	23

How important to you personally, if at all, are each of following reasons to transition to 100% clean, renewable energy? (Cont'd.)

Reduce the influence of the fossil fuel industry on our government

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/Con Dem	Ind/Other	Total Rep	Mod/Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very important	59	76	80	69	57	39	46	35
Extremely important	32	48	53	39	32	15	21	11
Very important	26	28	27	30	25	24	25	24
Moderately important	22	16	14	19	20	24	34	20
Only a little important	6	4	3	6	4	11	9	12
Not at all important	4	1	1	1	7	6	3	8
N/A because I do not support a transition to 100% clean, renewable energy	9	3	1	5	10	17	8	23

Protect the communities most harmed by the use of fossil fuels

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/Con Dem	Ind/Other	Total Rep	Mod/Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very important	60	78	83	70	58	37	40	34
Extremely important	32	44	50	33	29	17	25	12
Very important	28	35	33	37	29	20	15	22
Moderately important	23	14	12	18	22	33	42	28
Only a little important	5	3	2	4	4	9	8	10
Not at all important	3	2	1	4	4	2	1	4
N/A because I do not support a transition to 100% clean, renewable energy	9	3	1	5	10	17	8	23

Do you think the following should be a low, medium, high, or very high priority for the president and Congress?

Developing sources of clean energy

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Very High / High	71	87	93	77	76	51	62	45
Very high	40	59	69	45	30	20	33	13
High	32	27	24	32	47	31	30	32
Medium	21	10	4	18	16	37	29	41
Low	7	3	2	5	8	11	7	13

If all nations of the world switched to 100% clean, renewable energy by 2050, how effective would that be at limiting global warming?

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Very/Moderately effective	61	79	86	67	57	41	51	36
Very effective	31	45	50	36	17	15	23	11
Moderately effective	30	34	36	31	40	26	28	25
Only a little effective	14	8	6	12	15	24	25	23
Not at all effective	6	1	1	1	8	16	4	22
Don't know	18	12	7	20	17	18	19	18

How much do you support or oppose requiring electric utilities in your state to produce 100% of their electricity from clean, renewable energy sources (such as wind and solar) by 2050?

		Democrats				Republicans		
	All Registered Voters	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	966	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Strongly/Somewhat Support	85	95	97	92	88	71	83	64
Strongly support	38	52	64	34	30	20	29	14
Somewhat support	47	43	33	58	58	51	54	49
Strongly/Somewhat Oppose	14	4	3	5	12	29	17	36
Somewhat oppose	7	3	1	5	6	13	11	14
Strongly oppose	7	1	2	--	7	16	6	22

How confident are you that electric utilities in your state could meet the goal of producing 100% of their electricity from clean, renewable energy sources (such as wind and solar) by 2050, if they were required to by your state government?

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Extremely/Very/Mod. confident	56	68	72	61	51	47	55	42
Extremely confident	12	19	23	14	8	8	8	7
Very confident	16	18	19	16	12	14	16	12
Moderately confident	28	31	31	31	30	25	30	22
Only a little confident	19	17	17	17	20	25	19	23
Not at all confident	13	7	8	6	15	21	14	26
Don't know	12	7	2	15	15	21	12	10

Would you be more or less likely to vote for a candidate for political office who supports requiring electric utilities in your state to produce 100% of their electricity from clean, renewable energy sources (such as wind and solar) by 2050?

		Democrats				Republicans		
	All Registered Voters	Total Dem	Lib Dem	Mod/Con Dem	Ind/Other	Total Rep	Mod/Lib Rep	Con Rep
Unweighted Base	966	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Much/Somewhat more likely to vote for the candidate	54	72	82	57	43	33	45	27
Much more likely to vote for the candidate	22	36	44	23	13	7	9	6
Somewhat more likely to vote for the candidate	31	36	37	33	30	26	36	21
Makes no difference either way	32	24	14	39	4	38	42	36
Somewhat less likely to vote for the candidate	4	1	0	1	1	10	6	12
Much less likely to vote for the candidate	9	3	3	4	3	18	6	25

How much do you support or oppose the following policies?
Fund more research into renewable energy sources, such as solar and wind power.

(Base: Registered American Voters 18+)

<i>Unweighted bases</i>	Dec 2018	March 2018	Oct 2017	May 2017	Nov 2016	March 2016	Oct 2015	March 2015	Oct 2014	April 2014	Nov 2013	April 2013	Sept 2012	March 2012	Nov 2011	May 2011	June 2010	Jan 2010	Nov 2008
All Registered Voters	966	1,067	1,109	1,070	1,061	1,004	1,070	1,025	1,045	860	669	889	885	849	813	827	857	856	2,203
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	48	47	47	46	39	43	42	39	37	32	33	28	31	36	36	49	44	42	51
Somewhat support	40	40	40	40	43	41	42	42	42	44	40	45	43	43	40	35	43	43	37
Somewhat oppose	6	7	6	8	11	8	8	11	11	11	15	14	12	10	16	10	9	8	6
Strongly oppose	5	3	5	5	6	7	7	7	9	9	9	11	9	8	6	5	4	4	2
Total Democrats	466	472	503	459	469	451	458	441	443	399	295	389	402	378	369	359	388	330	971
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	66	64	65	64	55	57	56	57	51	49	49	41	42	45	44	58	54	52	59
Somewhat support	30	29	31	31	35	34	36	37	37	39	35	43	40	45	42	31	37	39	34
Somewhat oppose	3	3	2	3	8	4	5	5	8	5	10	9	9	5	9	8	6	5	3
Strongly oppose	1	1	1	1	2	4	2	1	3	4	3	5	4	3	3	2	2	1	1
Liberal Democrats	295	265	289	240	239	249	254	206	214	201	144	186	208	168	160	165	162	136	459
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	73	68	77	77	65	67	67	72	61	58	62	51	51	51	64	66	66	64	66
Somewhat support	25	28	20	21	28	28	27	23	29	35	27	40	30	40	33	25	28	29	29
Somewhat oppose	2	2	2	0	5	2	4	3	6	1	6	4	8	4	2	6	6	4	3
Strongly oppose	1	1	--	0	1	3	1	2	4	3	1	4	4	2	0	1	1	0	0
Moderate/Conservative Democrats	168	204	212	219	227	200	204	231	227	197	150	200	191	209	205	191	224	193	503
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	54	61	50	50	44	47	44	45	42	42	37	32	32	41	31	52	45	43	54
Somewhat support	37	32	45	42	43	40	46	48	44	42	44	45	50	48	46	35	44	47	38
Somewhat oppose	6	3	2	6	10	6	6	7	9	8	13	13	11	7	14	10	7	5	4
Strongly oppose	2	2	3	1	2	5	4	--	3	5	6	6	5	3	5	2	2	1	2

Fund more research into renewable energy sources. (Cont'd.)

(Base: Registered American Voters 18+)

<i>Unweighted bases</i>	Dec 2018	March 2018	Oct 2017	May 2017	Nov 2016	March 2016	Oct 2015	March 2015	Oct 2014	April 2014	Nov 2013	April 2013	Sept 2012	March 2012	Nov 2011	May 2011	June 2010	Jan 2010	Nov 2008
Independents	95	120	118	120	97	103	109	102	117	85	77	92	82	84	79	79	86	96	218
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	44	40	46	49	35	45	40	37	30	25	32	26	33	43	42	39	49	51	50
Somewhat support	40	43	37	34	41	42	45	41	49	44	37	52	51	35	37	39	37	24	40
Somewhat oppose	10	7	5	12	16	9	8	17	9	12	18	14	10	6	10	14	8	10	2
Strongly oppose	6	7	8	5	8	4	7	6	11	17	11	5	5	8	10	8	6	12	3
Total Republicans	356	430	437	442	455	399	443	428	421	334	255	374	363	322	303	333	333	357	913
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	25	27	26	24	22	25	31	19	24	13	17	16	17	22	27	39	27	33	45
Somewhat support	55	52	49	52	52	50	48	48	42	51	43	45	46	45	39	39	53	54	40
Somewhat oppose	9	14	13	13	14	13	10	16	17	18	22	18	17	15	24	12	12	9	9
Strongly oppose	8	5	9	10	10	11	11	15	17	16	15	19	16	16	8	8	7	3	3
Moderate/ Liberal Republicans	116	149	165	127	143	132	137	119	126	103	72	103	100	92	93	91	82	102	304
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	33	41	34	34	31	29	39	20	34	18	31	21	21	33	46	46	38	36	49
Somewhat support	48	45	50	53	57	53	52	56	47	62	48	53	58	53	32	42	45	54	42
Somewhat oppose	13	11	11	8	7	12	6	16	11	11	17	18	11	9	14	7	8	6	4
Strongly oppose	4	2	3	2	4	6	4	5	7	7	3	7	6	3	6	2	8	2	1
Conservative Republicans	238	276	271	313	310	267	304	307	295	228	183	271	263	229	206	241	249	251	604
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	21	19	21	20	17	23	27	18	19	10	10	14	14	18	16	36	24	32	42
Somewhat support	59	57	49	52	50	48	45	45	40	45	41	42	40	42	42	38	56	54	39
Somewhat oppose	8	16	14	14	19	13	12	16	19	22	24	19	21	18	29	14	13	11	11
Strongly oppose	11	7	14	13	14	14	15	19	21	21	21	24	21	22	10	11	7	3	4

How much do you support or oppose the following policies?
Provide tax rebates for people who purchase energy-efficient vehicles or solar panels.

(Base: Registered American Voters 18+)

<i>Unweighted bases</i>	Dec 2018	March 2018	Oct 2017	May 2017	Nov 2016	March 2016	Oct 2015	March 2015	Oct 2014	April 2014	Nov 2013	April 2013	Sept 2012	March 2012	Nov 2011	May 2011	June 2010	Jan 2010	Nov 2008
All Registered Voters	966	1,067	1,109	1,070	1,061	1,004	1,070	1,025	1,045	860	669	889	885	849	813	827	857	856	2,203
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	44	41	40	39	37	36	34	38	37	30	29	28	29	31	32	42	42	33	37
Somewhat support	41	44	43	45	44	44	45	44	41	48	43	46	43	44	46	39	41	49	45
Somewhat oppose	7	10	9	8	11	11	11	9	12	11	17	15	14	13	12	8	10	10	10
Strongly oppose	7	4	6	6	8	8	8	8	9	9	9	8	8	10	7	9	6	7	5
Total Democrats	466	472	503	459	469	451	458	441	443	399	295	389	402	378	369	359	388	330	971
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	55	54	55	56	48	49	45	53	51	41	41	37	39	43	41	47	54	41	43
Somewhat support	40	37	39	39	41	42	42	40	35	46	42	46	45	44	46	40	33	53	45
Somewhat oppose	3	5	3	5	8	4	9	5	8	7	13	11	9	6	8	4	9	4	6
Strongly oppose	2	1	1	0	2	4	3	2	4	4	3	3	3	4	4	5	3	1	4
Liberal Democrats	295	265	289	240	239	249	254	206	214	201	144	186	208	168	160	165	162	136	459
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	63	60	64	68	53	58	55	66	56	51	53	46	45	44	55	51	64	50	49
Somewhat support	34	34	33	31	38	36	36	28	32	45	37	43	40	43	41	38	28	44	42
Somewhat oppose	3	4	2	1	8	3	6	4	7	2	7	10	7	8	2	2	8	5	5
Strongly oppose	1	1	--	--	1	3	3	1	4	3	2	0	1	3	2	4	0	1	2
Moderate/Conservative Democrats	168	204	212	219	227	200	204	231	227	197	150	200	191	209	205	191	224	193	503
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	45	48	43	44	44	39	34	42	47	34	31	29	32	42	30	45	46	36	38
Somewhat support	49	41	48	47	44	48	49	50	38	47	45	49	49	46	50	42	37	60	49
Somewhat oppose	4	8	5	8	8	6	12	7	10	11	20	13	11	4	11	6	10	4	7
Strongly oppose	3	3	3	1	3	5	4	2	4	5	3	4	5	5	6	5	4	1	5

Provide tax rebates for people who purchase energy-efficient vehicles or solar panels. (Cont'd.)**(Base: Registered American Voters 18+)**

<i>Unweighted bases</i>	Dec 2018	March 2018	Oct 2017	May 2017	Nov 2016	March 2016	Oct 2015	March 2015	Oct 2014	April 2014	Nov 2013	April 2013	Sept 2012	March 2012	Nov 2011	May 2011	June 2010	Jan 2010	Nov 2008
Independents	95	120	118	120	97	103	109	102	117	85	77	92	82	84	79	79	86	96	218
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	40	34	31	45	29	31	29	30	32	29	29	23	28	21	36	33	51	35	43
Somewhat support	45	48	43	37	40	53	54	49	47	45	42	47	45	43	37	34	34	37	38
Somewhat oppose	7	9	11	9	21	11	6	10	11	13	16	17	19	12	15	13	7	17	11
Strongly oppose	8	7	10	8	10	4	9	12	10	12	11	8	6	15	11	21	8	11	4
Total Republicans	356	430	437	442	455	399	443	428	421	334	255	374	363	322	303	333	333	357	913
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	26	26	25	19	24	23	25	23	22	18	17	19	17	18	23	36	22	28	29
Somewhat support	45	51	46	55	48	48	47	48	47	47	44	46	42	43	48	39	53	50	46
Somewhat oppose	13	15	15	12	13	15	14	14	16	17	20	18	20	22	16	11	14	11	15
Strongly oppose	15	7	12	12	15	13	12	15	13	16	16	16	16	17	11	12	10	11	7
Moderate/ Liberal Republicans	116	149	165	127	143	132	137	119	126	103	72	103	100	92	93	91	82	102	304
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	28	35	31	24	34	30	35	30	27	25	27	31	20	23	26	37	35	36	33
Somewhat support	49	50	46	56	48	49	50	48	58	55	48	41	48	48	52	48	53	49	44
Somewhat oppose	15	11	13	13	9	15	12	16	8	11	18	19	22	25	13	7	7	7	14
Strongly oppose	6	2	9	4	7	6	2	5	5	8	7	7	4	3	7	5	5	8	4
Conservative Republicans	238	276	271	313	310	267	304	307	295	228	183	271	263	229	206	241	249	251	604
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Strongly support	25	21	21	17	19	18	21	19	20	14	12	15	16	16	20	36	19	24	27
Somewhat support	42	52	46	55	47	47	46	48	42	43	42	48	39	41	45	35	52	49	47
Somewhat oppose	12	17	17	12	15	16	14	13	20	20	22	17	19	20	19	13	17	13	15
Strongly oppose	20	9	15	15	18	18	18	20	17	20	21	19	23	22	13	14	11	13	8



Do you currently have the option to purchase 100% clean, renewable electricity from your local utility company or other electricity provider?

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/Con Dem	Ind/Other	Total Rep	Mod/Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Yes	15	17	18	15	10	16	16	16
No	34	37	36	38	33	33	37	32
Does not apply – I do not get electricity from a utility company	3	3	4	1	2	3	6	1
Don't know	48	43	42	45	56	47	41	51

Are you currently purchasing 100% clean, renewable electricity from your local utility company or other electricity provider?

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/Con Dem	Ind/Other	Total Rep	Mod/Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Yes	5	7	6	7	2	6	4	6
No, but I would like to	4	6	8	4	4	2	2	1
No, and I am not interested in doing so	3	3	3	4	2	6	6	6
Don't know	2	0	1	-	1	2	2	2
Question not administered – because they don't have the option, don't know, or do not get electricity from utility co.	85	83	82	85	90	83	84	84

[Only for respondents who answered “Yes” to “Do you currently have the option...” above] Are you currently purchasing 100% clean, renewable electricity from your local utility company or other electricity provider?

	Have option to purchase: “Yes”
Unweighted Base	163
	%
Yes	36
No, but I would like to	30
No, and I am not interested in doing so	22
Don't know	10

[Only for respondents who answered “No” or “Don’t know” to “Do you currently have the option...” above] If your local utility company or other electricity provider did provide the option to purchase 100% clean, renewable electricity, how likely would you be to purchase it?

		Democrats				Republicans		
	Have option to purchase: “No” or “Don’t know”	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	913	371	229	139	82	285	91	194
	%	%	%	%	%	%	%	%
Very/Somewhat likely	61	70	78	60	60	53	48	55
Very likely	18	28	38	14	15	9	15	6
Somewhat likely	44	42	39	46	45	44	34	49
Somewhat unlikely	9	6	6	7	6	16	17	15
Very unlikely	4	2	2	2	2	6	2	9
Don't know	25	20	13	30	32	25	32	22

How much more, if any amount, would you be willing to pay each month on your electricity bill to purchase 100% of your electricity from clean, renewable sources (such as wind and solar)? If you would not be willing to pay more, please enter 0.

I would be willing to pay \$___ more per month

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
\$0 more per month	47	36	32	43	53	60	56	64
\$1 to \$10 more per month	18	23	26	19	15	20	26	17
\$11 to \$30 more per month	17	22	24	18	19	12	10	13
\$31 to \$100 more per month	14	16	14	17	7	7	6	6
Excluded outliers (+3 SD from mean)	2	2	2	2	2	0	0	0
Non-response	2	2	2	1	4	1	1	0
Of those who gave an estimate, excluding outliers:								
Mean	\$1	\$10	\$10	\$5	\$0	\$0	\$0	\$0
Median	15	17	16	18	11	9	8	9

To the best of your knowledge, does electricity produced from each of the following energy sources cost more, less, or about the same as electricity produced by burning coal?

Solar

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Costs much/somewhat more	25	20	19	23	15	18	21	44
Costs much more than coal	9	5	3	8	4	16	4	23
Costs somewhat more than coal	16	16	16	15	10	2	17	21
Costs about the same as coal	6	6	9	3	6	6	8	5
Costs much/somewhat less	38	48	47	48	38	29	35	25
Costs somewhat less than coal	13	16	14	21	11	12	12	13
Costs much less than coal	24	31	34	27	27	17	23	12
Don't know	30	25	25	23	41	29	35	26

Wind

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Costs much/somewhat more	19	12	13	11	14	17	22	37
Costs much more than coal	8	4	4	5	4	15	8	19
Costs somewhat more than coal	11	8	10	5	10	2	14	18
Costs about the same as coal	8	6	6	8	9	7	5	7
Costs much/somewhat less	38	49	51	46	32	31	39	26
Costs somewhat less than coal	13	15	16	14	11	14	14	13
Costs much less than coal	25	34	35	32	22	17	25	13
Don't know	34	31	29	33	45	30	35	28

To the best of your knowledge, does electricity produced from each of the following energy sources cost more, less, or about the same as electricity produced by burning coal? (Cont'd.)

Geothermal

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Costs much/somewhat more	15	15	15	15	15	7	17	20
Costs much more than coal	5	6	6	5	4	6	3	7
Costs somewhat more than coal	10	9	9	9	12	1	15	13
Costs about the same as coal	8	5	6	5	9	11	9	12
Costs much/somewhat less	21	26	29	23	24	20	18	19
Costs somewhat less than coal	10	11	13	10	7	11	8	11
Costs much less than coal	11	15	16	13	17	9	10	8
Don't know	55	53	50	56	50	51	56	49

Natural gas

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Costs much/somewhat more	15	10	7	14	7	4	17	23
Costs much more than coal	4	4	2	7	--	2	2	2
Costs somewhat more than coal	11	6	5	8	7	2	14	21
Costs about the same as coal	17	17	20	13	19	14	9	17
Costs much/somewhat less	28	35	37	33	34	32	37	29
Costs somewhat less than coal	17	19	21	16	24	22	24	21
Costs much less than coal	12	16	16	17	10	10	13	8
Don't know	38	37	37	36	40	33	38	31

To the best of your knowledge, does electricity produced from each of the following energy sources cost more, less, or about the same as electricity produced by burning coal? (Cont'd.)

Nuclear

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Costs much/somewhat more	23	25	24	26	22	13	18	24
Costs much more than coal	12	12	11	15	9	12	8	14
Costs somewhat more than coal	11	12	13	11	13	1	10	9
Costs about the same as coal	7	6	7	6	5	7	7	8
Costs much/somewhat less	21	22	26	16	23	30	25	31
Costs somewhat less than coal	11	13	15	10	13	13	11	13
Costs much less than coal	11	9	11	6	10	17	15	17
Don't know	47	46	43	50	50	41	50	37

Hydroelectric dams

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Costs much/somewhat more	13	9	10	8	9	6	13	20
Costs much more than coal	4	4	4	5	3	5	3	5
Costs somewhat more than coal	8	5	7	3	5	1	10	15
Costs about the same as coal	8	7	7	6	8	10	9	11
Costs much/somewhat less	31	37	38	36	35	31	30	31
Costs somewhat less than coal	17	16	17	16	22	19	21	18
Costs much less than coal	14	21	21	20	13	12	9	13
Don't know	46	45	43	47	49	41	48	38

To the best of your knowledge, does electricity produced from each of the following energy sources cost more, less, or about the same as electricity produced by burning coal? (Cont'd.)

Methane gas emitted by landfills

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Costs much/somewhat more	15	11	11	12	7	7	16	20
Costs much more than coal	5	5	4	5	1	5	4	6
Costs somewhat more than coal	9	7	7	7	6	1	12	14
Costs about the same as coal	10	9	9	10	9	10	9	11
Costs much/somewhat less	19	22	23	22	18	21	21	20
Costs somewhat less than coal	11	12	13	10	11	13	13	13
Costs much less than coal	8	10	9	11	7	8	8	7
Don't know	56	56	58	54	66	50	55	48

Trash-to-energy plants

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Costs much/somewhat more	17	13	16	9	10	11	16	32
Costs much more than coal	6	4	5	2	4	10	5	12
Costs somewhat more than coal	11	9	10	7	6	2	11	20
Costs about the same as coal	9	10	8	11	5	7	8	7
Costs much/somewhat less	18	22	24	20	20	13	15	12
Costs somewhat less than coal	10	11	12	10	11	9	10	9
Costs much less than coal	8	11	12	10	9	4	5	3
Don't know	55	55	52	58	65	52	61	48

To the best of your knowledge, does electricity produced from each of the following energy sources cost more, less, or about the same as electricity produced by burning coal? (Cont'd.)

Wood-fueled power plants

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Costs much/somewhat more	22	19	17	20	16	12	23	32
Costs much more than coal	9	7	5	10	7	10	7	12
Costs somewhat more than coal	13	12	12	10	9	2	16	20
Costs about the same as coal	13	14	14	13	9	14	12	15
Costs much/somewhat less	12	15	16	13	13	11	15	8
Costs somewhat less than coal	7	9	10	7	11	6	10	5
Costs much less than coal	5	6	6	6	1	5	6	3
Don't know	51	52	52	52	63	46	50	45

Over the next 10 years, do you think the cost of producing electricity from each of the following energy sources will be more expensive, less expensive, or about the same as today?

Solar

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Much/somewhat more expensive	13	9	4	15	9	16	12	19
Much more expensive in 10 years	5	3	2	4	3	5	4	6
Somewhat more expensive in 10 years	8	5	2	11	6	11	8	13
About the same in 10 years	13	10	7	15	7	16	10	18
Much/somewhat less expensive	48	60	50	24	51	44	45	43
Somewhat less expensive in 10 years	21	23	2	2	28	27	25	29
Much less expensive in 10 years	27	37	47	22	23	17	20	15
Don't know	25	21	18	24	32	24	32	20

Wind

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Much/somewhat more expensive	12	8	5	12	6	17	8	21
Much more expensive in 10 years	4	3	2	4	1	4	2	5
Somewhat more expensive in 10 years	8	5	3	7	5	13	7	16
About the same in 10 years	15	12	9	16	8	21	18	21
Much/somewhat less expensive	45	56	40	27	51	36	39	34
Somewhat less expensive in 10 years	21	24	3	2	35	22	20	23
Much less expensive in 10 years	24	33	38	25	16	14	19	12
Don't know	27	22	20	26	31	26	34	23

Over the next 10 years, do you think the cost of producing electricity from each of the following energy sources will be more expensive, less expensive, or about the same as today? (Cont'd.)

Geothermal

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Much/somewhat more expensive	13	11	9	15	10	15	7	20
Much more expensive in 10 years	4	4	3	4	2	3	1	5
Somewhat more expensive in 10 years	9	7	5	11	8	12	6	16
About the same in 10 years	16	16	18	12	17	19	14	22
Much/somewhat less expensive	23	31	18	10	21	23	29	19
Somewhat less expensive in 10 years	14	18	2	2	12	15	19	13
Much less expensive in 10 years	9	13	16	8	9	7	10	6
Don't know	45	41	37	45	51	42	48	39

Natural gas

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Much/somewhat more expensive	27	26	26	25	17	31	28	32
Much more expensive in 10 years	9	8	7	10	4	7	9	6
Somewhat more expensive in 10 years	18	18	19	15	13	24	19	26
About the same in 10 years	20	18	18	19	25	26	19	31
Much/somewhat less expensive	18	25	13	7	17	14	17	12
Somewhat less expensive in 10 years	12	17	2	2	12	11	11	11
Much less expensive in 10 years	7	9	12	5	5	4	6	2
Don't know	32	29	28	28	40	28	33	25

Over the next 10 years, do you think the cost of producing electricity from each of the following energy sources will be more expensive, less expensive, or about the same as today? (Cont'd.)

Nuclear

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Much/somewhat more expensive	25	24	20	29	19	24	17	29
Much more expensive in 10 years	12	12	11	13	8	10	7	12
Somewhat more expensive in 10 years	13	12	9	17	11	14	10	17
About the same in 10 years	19	21	24	16	20	26	30	24
Much/somewhat less expensive	16	17	11	4	16	15	11	16
Somewhat less expensive in 10 years	9	10	1	1	7	10	8	10
Much less expensive in 10 years	7	7	10	3	9	5	3	5
Don't know	39	36	32	42	43	34	42	31

Hydroelectric dams

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Much/somewhat more expensive	17	15	15	15	13	23	19	25
Much more expensive in 10 years	6	5	4	6	5	6	7	5
Somewhat more expensive in 10 years	11	10	11	9	8	17	12	20
About the same in 10 years	23	25	25	25	21	26	22	27
Much/somewhat less expensive	21	26	16	7	21	16	18	15
Somewhat less expensive in 10 years	13	15	2	1	14	12	10	13
Much less expensive in 10 years	8	11	14	6	8	4	8	2
Don't know	38	32	30	36	43	36	40	33

Over the next 10 years, do you think the cost of producing electricity from each of the following energy sources will be more expensive, less expensive, or about the same as today? (Cont'd.)

Methane gas emitted by landfills

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Much/somewhat more expensive	17	13	10	16	10	19	11	23
Much more expensive in 10 years	6	3	3	4	1	5	3	5
Somewhat more expensive in 10 years	11	9	8	12	8	14	8	18
About the same in 10 years	16	19	19	18	14	18	19	17
Much/somewhat less expensive	19	22	10	6	20	21	20	21
Somewhat less expensive in 10 years	13	15	2	1	13	18	17	17
Much less expensive in 10 years	6	7	8	5	7	3	3	4
Don't know	46	45	43	46	53	42	49	39

Trash-to-energy plants

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Much/somewhat more expensive	14	11	10	13	7	19	12	23
Much more expensive in 10 years	4	4	3	5	1	3	3	4
Somewhat more expensive in 10 years	10	8	7	9	6	16	10	19
About the same in 10 years	15	14	14	13	13	19	15	20
Much/somewhat less expensive	26	33	17	8	26	23	26	22
Somewhat less expensive in 10 years	18	22	2	2	17	18	20	17
Much less expensive in 10 years	9	11	15	6	9	5	6	4
Don't know	42	41	37	46	53	38	46	35

Over the next 10 years, do you think the cost of producing electricity from each of the following energy sources will be more expensive, less expensive, or about the same as today? (Cont'd.)

Wood-fueled power plants

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Much/somewhat more expensive	31	29	28	31	27	36	31	38
Much more expensive in 10 years	12	12	12	12	8	12	12	11
Somewhat more expensive in 10 years	19	17	16	19	19	24	19	27
About the same in 10 years	16	16	17	15	13	18	17	19
Much/somewhat less expensive	9	11	7	4	6	9	11	7
Somewhat less expensive in 10 years	6	6	1	1	6	5	5	5
Much less expensive in 10 years	4	5	7	3	0	4	5	3
Don't know	43	42	41	44	53	37	41	35

Coal

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/ Con Dem	Ind/ Other	Total Rep	Mod/ Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Much/somewhat more expensive	38	46	50	39	32	34	28	36
Much more expensive in 10 years	16	20	23	15	13	11	11	10
Somewhat more expensive in 10 years	22	26	28	24	18	23	17	26
About the same in 10 years	18	15	13	17	20	26	24	27
Much/somewhat less expensive	9	9	6	4	6	11	11	11
Somewhat less expensive in 10 years	6	4	0	1	3	9	10	8
Much less expensive in 10 years	3	5	5	3	3	2	1	2
Don't know	34	30	28	33	42	28	36	25

Would you be more or less likely to purchase goods and/or services from a company that has committed to using 100% clean, renewable energy?

		Democrats				Republicans		
	Full Sample	Total Dem	Lib Dem	Mod/Con Dem	Ind/Other	Total Rep	Mod/Lib Rep	Con Rep
Unweighted Base	1,114	466	295	168	95	356	116	238
	%	%	%	%	%	%	%	%
Much/Somewhat more likely to purchase	54	72	83	56	53	37	45	33
Much more likely to purchase	18	27	32	20	10	6	10	4
Somewhat more likely to purchase	37	45	51	35	43	31	35	30
Makes no difference either way	40	25	14	41	42	55	52	57
Much/Somewhat less likely to purchase	5	2	2	1	5	7	3	9
Somewhat less likely to purchase	3	--	--	1	0	5	1	7
Much less likely to purchase	3	1	2	--	1	2	1	3

Appendix II: Survey Method

The data in this report are based on a nationally representative survey of 1,114 American adults, aged 18 and older, 966 of whom are registered to vote. The survey was conducted November 28 – December 11, 2018. All questionnaires were self-administered by respondents in a web-based environment. The survey took, on average, about 27 minutes to complete.

The sample was drawn from GfK's KnowledgePanel®, an online panel of members drawn using probability sampling methods. Prospective panel members are recruited using a combination of random digit dial and address-based sampling techniques that cover virtually all (non-institutional) resident phone numbers and addresses in the United States. Those contacted who would choose to join the panel but do not have access to the Internet are loaned computers and given Internet access so they may participate.

The sample therefore includes a representative cross-section of American adults – irrespective of whether they have Internet access, use only a cell phone, etc. Key demographic variables were weighted, post survey, to match US Census Bureau norms.

The survey instrument was designed by Anthony Leiserowitz, Seth Rosenthal, Matthew Ballew, Matthew Goldberg, and Abel Gustafson of Yale University, and Edward Maibach and John Kotcher of George Mason University.

Margins of error

All samples are subject to some degree of sampling error – that is, statistical results obtained from a sample can be expected to differ somewhat from results that would be obtained if every member of the target population was interviewed. Average margins of error, at the 95% confidence level, are as follows:

- Total registered voters: Plus or minus 3 percentage points.
- Democrats (total): Plus or minus 5 points.
- Liberal Democrats: Plus or minus 6 points.
- Moderate/conservative Democrats: Plus or minus 8 points.
- Independents: Plus or minus 10 points.
- Republicans (total): Plus or minus 5 points.
- Liberal/moderate Republicans: Plus or minus 9 points.
- Conservative Republicans: Plus or minus 6 points.

Appendix III: Demographics

Registered Voters

	<i>N</i> (unweighted)	% (weighted)
Total	966	100
Men	460	48
Women	506	52
iGen (18-21)	13	4
Millennial (22-37)	190	26
Generation X (38-53)	236	24
Baby Boomer (54-72)	413	38
Silent Generation (73+)	114	9
Less than high school	22	6
High school graduate	148	26
Some college/Associate degree/Technical degree	320	32
College graduate	272	20
Post graduate	204	16
<\$25K	104	11
\$25K - <\$50K	172	19
\$50K - <\$75K	156	16
\$75K - <\$100K	172	15
\$100K - <\$125K	124	14
\$125K+	238	26
White, non-Hispanic	727	68
Black, African-American non-Hispanic	86	12
Hispanic	93	13
Other non-Hispanic	60	7
Northeast	179	18
Midwest	221	22
South	321	34
West	245	25



Full Sample

	<i>N</i> (unweighted)	% (weighted)
Total	1,114	100
Men	530	48
Women	584	52
iGen (18-21)	24	6
Millennial (22-37)	247	29
Generation X (38-53)	274	24
Baby Boomer (54-72)	449	34
Silent Generation (73+)	120	8
Less than high school	45	10
High school graduate	197	29
Some college/Associate degree/Technical degree	354	29
College graduate	292	18
Post graduate	226	15
<\$25K	136	14
\$25K - <\$50K	206	19
\$50K - <\$75K	185	17
\$75K - <\$100K	191	14
\$100K - <\$125K	131	12
\$125K+	265	24
White, non-Hispanic	811	64
Black, African-American non-Hispanic	104	12
Hispanic	120	16
Other non-Hispanic	79	8
Northeast	203	18
Midwest	247	21
South	386	37
West	278	24

