

The Public's Views on Energy and Climate Change

Conducted by The Associated Press-NORC Center for Public Affairs Research
With funding from the Energy Policy Institute at the University of Chicago (EPIC)

Interviews: 9/8-24/2021

5,468 adults ages 18+

Margin of sampling error: +/- 1.7 percentage points at the 95% confidence level among all adults

NOTE: All results show percentages among all respondents, unless otherwise labeled.

Q1. How important are the following issues to you personally?

[GRID ITEMS RANDOMIZED; HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

AP- NORC/EPIC		Not important at all/ Slightly important	Not important at all	Slightly important	Somewhat important¹	Very/ Extremely important	Very important	Extremely important	DK	SKP/ REF
The economy	9/8- 24/2021 (N=5,468)	4	1	3	15	80	40	40	-	*
	11/14- 19/2018 (N=1,202)	5	2	3	19	76	38	38	-	1
	8/17- 21/2017 (N=992)	5	1	4	18	77	45	32	-	*
	3/23- 27/2017 (N=1,110)	2	*	2	10	87	44	43	*	*
Health care	9/8- 24/2021 (N=5,468)	5	2	3	12	83	35	47	-	*
	11/14- 19/2018 (N=1,202)	5	2	3	14	81	34	47	*	1
	8/17- 21/2017 (N=992)	5	1	4	11	84	40	44	-	*
	3/23- 27/2017 (N=1,110)	3	1	2	10	86	36	50	*	*
Terrorism	9/8- 24/2021 (N=5,468)	11	4	7	20	68	30	38	*	*
	11/14- 19/2018 (N=1,202)	11	3	7	21	67	32	34	*	1
	8/17- 21/2017 (N=992)	10	4	7	22	68	34	34	-	*
Immigration	9/8- 24/2021 (N=5,468)	16	6	11	29	54	28	26	*	1
	11/14- 19/2018 (N=1,202)	18	6	12	26	55	27	28	*	1

¹ Response option was “Moderately important” in prior surveys.

AP-NORC/EPIC		Not important at all/ Slightly important	Not important at all	Slightly important	Somewhat important ²	Very/ Extremely important	Very important	Extremely important	DK	SKP/ REF
Immigration	8/17-21/2017 (N=1,038)	17	5	12	32	50	29	21	*	1
	3/23-27/2017 (N=1,110)	15	6	9	25	60	32	28	-	*
Energy policy	9/8-24/2021 (N=5,468)	13	4	9	29	58	34	24	*	*
	11/14-19/2018 (N=1,202)	13	4	9	33	53	22	31	*	1
	8/17-21/2017 (N=1,038)	16	3	13	29	54	35	18	*	1
Climate change	9/8-24/2021 (N=5,468)	19	10	10	21	59	25	34	*	1
	11/14-19/2018 (N=1,202)	24	12	12	26	49	20	29	*	1
	8/17-21/2017 (N=1,038)	25	10	15	26	48	26	22	-	1

Q2. Do you think climate change is happening, do you think climate change is not happening, or aren't you sure?

[HALF SAMPLE SHOWN RESPONSE OPTIONS 1-2 IN REVERSE ORDER]

	AP-NORC/EPIC 9/8-24/2021	AP-NORC/EPIC 11/14-19/2018	AP-NORC/EPIC 8/17-21/2017	AP-NORC 6/8-11/2017	AP-NORC/EPIC 8/11-14/2016
Climate change is happening	75	71	72	65	77
Climate change is not happening	10	9	9	12	10
Not sure if climate change is happening	15	19	19	23	13
SKIPPED ON WEB/REFUSED	*	1	1	1	-

N= 5,468 1,202 1,038 1,068 1,096

² Response option was "Moderately important" in prior surveys.

If climate change is happening in Q1

Q3. Do you think climate change is caused entirely by human activities, caused mostly by human activities, caused about equally by human activities and natural changes in the environment, caused mostly by natural changes in the environment, or caused entirely by natural changes in the environment?

[HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

	AP-NORC/EPIC 9/8-24/2021	AP-NORC/EPIC 11/14-19/2018	AP-NORC/EPIC 8/17-21/2017	AP-NORC 6/8-11/2017
Caused entirely/mostly by human activities	54	60	55	57
Caused <u>entirely</u> by human activities	13	15	15	13
Caused <u>mostly</u> by human activities	41	45	40	44
Caused <u>equally</u> by human activities and natural changes in the environment	32	28	32	32
Caused mostly/entirely by natural changes in the environment	14	12	12	10
Caused <u>mostly</u> by natural changes in the environment	8	10	11	9
Caused <u>entirely</u> by natural changes in the environment	5	2	2	1
DON'T KNOW	-	*	*	*
SKIPPED ON WEB/REFUSED	*	-	*	*
N=	4,165	854	774	751

Q4. Do you find the science on climate change more convincing than five years ago, just about the same, or less convincing?

[HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

	AP-NORC/EPIC 9/8-24/2021	AP-NORC/EPIC 11/14-19/2018
A lot/Somewhat more convincing	49	48
A lot more convincing	25	27
Somewhat more convincing	24	21
About the same	38	36
Somewhat/A lot less convincing	13	14
Somewhat less convincing	6	7
A lot less convincing	7	6
DON'T KNOW	*	*
SKIPPED ON WEB/REFUSED	*	1
N=	5,468	1,202

Q18. Do you think the pace of climate change is getting faster, slower, or staying at about the same?

[HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

	AP-NORC/EPIC 9/8-24/2021
A lot/a little faster	59
A lot faster	27
A little faster	33
Staying about the same pace	35
A little/a lot slower	6
A little slower	3
A lot slower	2
DON'T KNOW	*
SKIPPED ON WEB/REFUSED	*

N=

5,468

Q5. In the past five years, how much influence, if any, have the following had on your views about the science on climate change?

[GRID ITEMS RANDOMIZED; HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

		A great deal/ A lot of influence	A great deal of influence	A lot of influence	A moderate amount of influence	Not much/ No influence at all	Not much influence	No influence at all	DK	SKP/ REF
AP-NORC/EPIC										
Recent extreme weather events, like hurricanes, droughts, floods, unusual heat, or wildfires ³	9/8-24/2021 (N=5,468)	51	26	25	26	23	12	11	*	*
	11/14-19/2018 (N=1,202)	50	27	22	24	25	13	12	*	1
News coverage of climate issues ⁴	9/8-24/2021 (N=5,468)	32	12	21	33	34	19	15	*	1
	11/14-19/2018 (N=1,202)	29	11	18	31	38	19	19	*	2
Personal observations of weather in your area	9/8-24/2021 (N=5,468)	42	18	24	31	27	16	11	*	*
	11/14-19/2018 (N=1,202)	42	20	22	29	28	13	15	*	1
Arguments that question the existence of climate change	9/8-24/2021 (N=5,468)	22	8	14	28	50	24	26	*	1
	11/14-19/2018 (N=1,202)	21	8	12	27	51	27	24	*	2
Arguments that support the existence of climate change	9/8-24/2021 (N=5,468)	37	16	21	31	32	18	14	*	*
	11/14-19/2018 (N=1,202)	38	17	22	29	32	18	14	*	1

³ Prior survey item read “Recent extreme weather events, like hurricanes, droughts, floods, unusual heat”

⁴ Prior survey item read “News stories”

Q6. How much influence, if any, does each of the following individuals or groups have when it comes to informing your views on climate change?

[GRID ITEMS RANDOMIZED; HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

AP-NORC/EPIC		A great deal/A lot of influence	A great deal of influence	A lot of influence	A moderate amount of influence	Not much /No influence at all	Not much influence	No influence at all	DK	SKP/ REF
Republican political leaders	9/8-24/2021 (N=5,468)	12	5	7	18	69	26	43	*	1
Democratic political leaders	9/8-24/2021 (N=5,468)	20	8	12	23	56	23	32	*	1
Religious leaders ⁵	9/8-24/2021 (N=5,468)	12	5	7	17	70	26	44	*	1
	11/14-19/2018 (N=1,202)	10	4	6	17	71	22	49	*	1
Scientists	9/8-24/2021 (N=5,468)	54	30	24	27	19	10	8	*	1
Media	9/8-24/2021 (N=5,468)	23	8	15	31	45	23	23	*	1

Q7. Have you taken any of the following steps to reduce your emissions or otherwise address climate change, or not?

[GRID ITEMS RANDOMIZED]

AP-NORC/EPIC 9/8-24/2021	Yes	No	Not applicable	DK	SKP/REF
Contacted your elected representatives regarding energy or climate policy	14	76	9	*	1
Selected an electricity supplier that gets power from renewable sources	23	54	23	*	*
Reduced the number of times per year you fly	30	36	33	*	1
Reduced the amount you drive	44	46	10	*	1
Reduced the number of times per week you eat meat	32	59	8	*	1
Purchased energy efficient appliances	60	30	10	*	1

N= 5,468

⁵ Prior survey question read “In the past five years, how much influence, if any, have the following had on your views about the science on climate change?”

Q8. Would you support, oppose, or neither support nor oppose Congress passing a bill that increases the share of electricity coming from clean electricity sources while decreasing the share of electricity coming from traditional sources like coal and natural gas?

[HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

	AP-NORC/EPIC 9/8-24/2021
Strongly/Somewhat support	55
Strongly support	30
Somewhat support	26
Neither support nor oppose	28
Somewhat/Strongly oppose	16
Somewhat oppose	7
Strongly oppose	9
DON'T KNOW	*
SKIPPED ON WEB/REFUSED	*

N=

5,468

Q16. Transportation is the largest source of U.S. greenhouse gas emissions. Do you support, oppose, or neither support nor oppose the following policies to shift U.S. vehicles from gasoline engines to electric ones?

[GRID ITEMS RANDOMIZED; HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

AP-NORC/EPIC 9/8-24/2021	Strongly/ Somewhat support	Strongly support	Somewhat support	Neither support nor oppose	Somewhat /Strongly oppose	Somewhat oppose	Strongly oppose	DK	SKP/ REF
Requiring that all new passenger vehicles are electric and ensuring there is a sufficient infrastructure, like vehicle charging stations, to support them.	43	19	24	26	31	12	19	*	*
Setting stricter fuel efficiency standards to encourage auto companies to sell more electric vehicles	48	23	25	26	25	11	14	*	*
Providing tax incentives, cash rebates, or other financial incentives to encourage consumers to buy more electric vehicles	57	28	29	25	17	8	10	*	*
Educate consumers about electric vehicles but leave technology development and manufacturing decisions to the private sector	53	22	31	32	15	8	7	*	*

N= 5,468

Q19. Do you support, oppose, or neither support nor oppose richer countries providing funding to poorer countries to allow them to develop their economies using clean energy sources rather than traditional sources?

[HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

	AP-NORC/EPIC 9/8-24/2021
Strongly/Somewhat support	46
Strongly support	19
Somewhat support	27
Neither support nor oppose	33
Somewhat/Strongly oppose	21
Somewhat oppose	11
Strongly oppose	10
DON'T KNOW	*
SKIPPED ON WEB/REFUSED	*

N=

5,468

Respondents were randomly assigned to see Q14A, Q14B, or Q14C and each of its conditions.

Q14A. The government has proposed significant public investments to build new, high-voltage power lines to carry renewable energy from areas where it is plentiful to areas where demand is high.

Would you support, oppose, or neither support nor oppose having these power lines built within one mile of your house?

[HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

	AP-NORC/EPIC 9/8-24/2021
Strongly/Somewhat support	45
Strongly support	19
Somewhat support	26
Neither support nor oppose	33
Somewhat/Strongly oppose	22
Somewhat oppose	11
Strongly oppose	11
DON'T KNOW	*
SKIPPED ON WEB/REFUSED	1

N=

1,857

Q14C. The government has proposed significant public investments to build new, high-voltage power lines to carry renewable energy from areas where it is plentiful to areas where demand is high.

Would you support, oppose, or neither support nor oppose having these power lines built within one mile of your house if it helped reduce carbon emissions and fought climate change?

[HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

	AP-NORC/EPIC 9/8-24/2021
Strongly/Somewhat support	52
Strongly support	21
Somewhat support	31
Neither support nor oppose	30
Somewhat/Strongly oppose	18
Somewhat oppose	10
Strongly oppose	8
DON'T KNOW	*
SKIPPED ON WEB/REFUSED	*

N=

1,797

Q14B. The government has proposed significant public investments to build new, high-voltage power lines to carry renewable energy from areas where it is plentiful to areas where demand is high.

Would you support, oppose, or neither support nor oppose having these power lines built within one mile of your house if it meant that you would receive a rebate of \$__ on your monthly electricity bill?

**[RESPONDENTS WERE RANDOMLY ASSIGNED TO \$5, \$10, \$20, \$40, \$60, OR \$75 REBATE;
HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]**

AP-NORC/EPIC 9/8-24/2021	Strongly/ Somewhat support	Strongly support	Somewhat support	Neither support nor oppose	Somewhat /Strongly oppose	Somewhat oppose	Strongly oppose	DK	SKP/ REF
\$5 (N=315)	46	18	28	30	23	16	8	-	1
\$10 (N=291)	49	22	27	26	24	9	15	1	-
\$20 (N=296)	48	20	28	33	19	6	13	*	*
\$40 (N=276)	48	22	26	28	23	12	11	-	-
\$60 (N=326)	52	21	31	29	19	10	9	-	*
\$75 (N=310)	51	20	31	29	20	7	12	-	-

Q11, Q12 and Q17 are randomly ordered.

Respondents were randomly assigned to one of four conditions in this question. Condition 1 does not say what the money would be used for, and conditions 2, 3, and 4 give various reasons.

Q11.

Condition 1.

Suppose Congress was going to impose a fee on carbon to combat climate change. If the law passed, it would increase the average amount your household pays each month for energy, including electricity, heating gas, and gasoline or diesel for your car, by a total of \$__ . Would you support, oppose, or neither support nor oppose that law?

[RESPONDENTS WERE RANDOMLY ASSIGNED TO \$1, \$10, \$20, \$40, \$75, OR \$100 COST INCREASE;
HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

AP-NORC/EPIC 9/8-24/2021	Strongly/ Somewhat support	Strongly support	Somewhat support	Neither support nor oppose	Somewhat /Strongly oppose	Somewhat oppose	Strongly oppose	DK	SKP/ REF
\$1 (N=228)	52	33	20	19	28	6	22	-	*
\$10 (N=235)	35	16	18	28	35	15	21	*	*
\$20 (N=240)	37	10	27	21	41	15	27	-	*
\$40 (N=236)	32	10	23	21	46	12	34	-	1
\$75 (N=226)	27	6	20	19	53	20	34	-	1
\$100 (N=235)	31	9	22	16	52	17	35	-	-

Condition 2.

Suppose Congress was going to impose a fee on carbon to combat climate change. If the law passed, it would increase the average amount your household pays each month for energy, including electricity, heating gas, and gasoline or diesel for your car, by a total of \$__ and the money would be used to provide support for communities harmed by pollution or climate change. Would you support, oppose, or neither support nor oppose that law?

[RESPONDENTS WERE RANDOMLY ASSIGNED TO \$1, \$10, \$20, \$40, \$75, OR \$100 COST INCREASE;
HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

AP-NORC/EPIC 9/8-24/2021	Strongly/ Somewhat support	Strongly support	Somewhat support	Neither support nor oppose	Somewhat /Strongly oppose	Somewhat oppose	Strongly oppose	DK	SKP/ REF
\$1 (N=239)	58	24	34	22	19	8	11	-	1
\$10 (N=225)	36	18	19	29	34	13	21	*	-
\$20 (N=261)	38	13	25	22	39	22	17	-	*
\$40 (N=213)	31	12	19	21	46	22	23	-	2
\$75 (N=224)	33	10	22	23	44	18	27	-	-
\$100 (N=219)	21	7	14	31	49	18	31	-	-

Condition 3.

Suppose Congress was going to impose a fee on carbon to combat climate change. If the law passed, it would increase the average amount your household pays each month for energy, including electricity, heating gas, and gasoline or diesel for your car, by a total of \$__ and the money would be used for investment in research, development, and deployment of clean energy sources. Would you support, oppose, or neither support nor oppose that law?

[RESPONDENTS WERE RANDOMLY ASSIGNED TO \$1, \$10, \$20, \$40, \$75, OR \$100 COST INCREASE;
HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

AP-NORC/EPIC 9/8-24/2021	Strongly/ Somewhat support	Strongly support	Somewhat support	Neither support nor oppose	Somewhat /Strongly oppose	Somewhat oppose	Strongly oppose	DK	SKP/ REF
\$1 (N=219)	53	24	29	20	27	11	16	-	-
\$10 (N=234)	38	14	24	24	36	14	22	*	2
\$20 (N=220)	39	20	19	27	33	11	22	-	*
\$40 (N=223)	27	9	18	30	43	18	25	-	-
\$75 (N=229)	25	10	16	21	53	22	32	-	-
\$100 (N=209)	24	13	11	22	55	15	39	-	-

Condition 4.

Suppose Congress was going to impose a fee on carbon to combat climate change. If the law passed, it would increase the average amount your household pays each month for energy, including electricity, heating gas, and gasoline or diesel for your car, by a total of \$__ and the money would be used for a tax rebate for all Americans. Would you support, oppose, or neither support nor oppose that law?

[RESPONDENTS WERE RANDOMLY ASSIGNED TO \$1, \$10, \$20, \$40, \$75, OR \$100 COST INCREASE;
HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

AP-NORC/EPIC 9/8-24/2021	Strongly/ Somewhat support	Strongly support	Somewhat support	Neither support nor oppose	Somewhat /Strongly oppose	Somewhat oppose	Strongly oppose	DK	SKP/ REF
\$1 (N=245)	47	22	25	25	26	11	16	-	1
\$10 (N=205)	41	17	25	28	31	15	16	-	-
\$20 (N=217)	33	16	17	23	44	21	22	-	*
\$40 (N=222)	26	9	17	32	42	20	22	-	*
\$75 (N=232)	25	7	19	33	42	17	25	-	-
\$100 (N=232)	24	8	16	27	48	14	35	-	-

Respondents were randomly assigned to one of three conditions in this question. Each condition gives a different reason for job loss.

Q12.

Condition 1.

Imagine a town in your area has lost its main source of jobs because the largest company was no longer profitable. To help that town and others like it, the state government is considering a new fee that would cost your household an additional \$__ per month. Would you support, oppose, or neither support nor oppose that fee?

[RESPONDENTS WERE RANDOMLY ASSIGNED TO \$1, \$10, \$20, \$40, \$75, OR \$100 FEE;
HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

AP-NORC/EPIC 9/8-24/2021	Strongly/ Somewhat support	Strongly support	Somewhat support	Neither support nor oppose	Somewhat /Strongly oppose	Somewhat oppose	Strongly oppose	DK	SKP/ REF
\$1 (N=328)	45	17	28	25	30	12	18	-	*
\$10 (N=288)	38	10	28	21	40	24	16	-	*
\$20 (N=301)	24	7	16	21	54	23	31	-	1
\$40 (N=308)	17	5	12	23	60	26	34	-	*
\$75 (N=302)	17	6	11	27	55	20	35	-	1
\$100 (N=310)	20	8	12	18	62	20	42	-	-

Condition 2.

Imagine a town in your area has lost its main source of jobs because federal environmental policies led to the company's closure. To help that town and others like it, the state government is considering a new fee that would cost your household an additional \$__ per month. Would you support, oppose, or neither support nor oppose that fee?

[RESPONDENTS WERE RANDOMLY ASSIGNED TO \$1, \$10, \$20, \$40, \$75, OR \$100 FEE;
HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

AP-NORC/EPIC 9/8-24/2021	Strongly/ Somewhat support	Strongly support	Somewhat support	Neither support nor oppose	Somewhat /Strongly oppose	Somewhat oppose	Strongly oppose	DK	SKP/ REF
\$1 (N=280)	52	29	23	25	23	8	15	-	-
\$10 (N=308)	30	10	21	27	42	19	23	-	1
\$20 (N=311)	29	11	18	19	51	24	27	-	*
\$40 (N=307)	22	6	16	25	53	20	33	-	*
\$75 (N=323)	22	8	13	21	57	23	34	-	*
\$100 (N=335)	15	7	8	26	59	17	42	-	*

Condition 3.

Imagine a town in your area has lost its main source of jobs because the effects of climate change led to the company's closure. To help that town and others like it, the state government is considering a new fee that would cost your household an additional \$__ per month. Would you support, oppose, or neither support nor oppose that fee?

[RESPONDENTS WERE RANDOMLY ASSIGNED TO \$1, \$10, \$20, \$40, \$75, OR \$100 FEE;
HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

AP-NORC/EPIC 9/8-24/2021	Strongly/ Somewhat support	Strongly support	Somewhat support	Neither support nor oppose	Somewhat /Strongly oppose	Somewhat oppose	Strongly oppose	DK	SKP/ REF
\$1 (N=319)	44	23	21	27	28	15	13	-	1
\$10 (N=304)	37	15	23	27	33	14	19	2	1
\$20 (N=303)	33	13	20	28	38	18	20	*	1
\$40 (N=254)	21	7	14	25	54	23	31	-	*
\$75 (N=298)	21	7	14	25	53	13	40	-	1
\$100 (N=289)	17	6	11	20	62	21	41	1	-

Respondents were randomly assigned to one of three conditions in this question. Each condition asks about different effects of air pollution.

Q17.

Condition 1.

Suppose that your local utility company owns several power plants, some of which generate much more air pollution than others, damaging the health of people who live nearby.

Would you support, oppose, or neither support nor oppose a fee on your monthly electricity bill of \$__ to clean up the dirtier plants?

[RESPONDENTS WERE RANDOMLY ASSIGNED TO \$1, \$10, \$20, \$40, \$75, OR \$100 FEE;
HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

AP-NORC/EPIC 9/8-24/2021	Strongly/ Somewhat support	Strongly support	Somewhat support	Neither support nor oppose	Somewhat /Strongly oppose	Somewhat oppose	Strongly oppose	DK	SKP/ REF
\$1 (N=317)	53	27	26	24	22	9	13	-	*
\$10 (N=297)	40	16	24	25	34	16	19	-	1
\$20 (N=321)	32	10	21	24	44	16	28	-	1
\$40 (N=301)	26	9	17	28	46	18	28	-	*
\$75 (N=312)	23	9	14	28	49	22	27	-	*
\$100 (N=307)	19	10	9	18	61	24	37	-	2

Condition 2.

Suppose that your local utility company owns several power plants, some of which generate much more air pollution than others, damaging the health of the predominantly minority communities who live nearby.

Would you support, oppose, or neither support nor oppose a fee on your monthly electricity bill of \$__ to clean up the dirtier plants?

[RESPONDENTS WERE RANDOMLY ASSIGNED TO \$1, \$10, \$20, \$40, \$75, OR \$100 FEE;
HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

AP-NORC/EPIC 9/8-24/2021	Strongly/ Somewhat support	Strongly support	Somewhat support	Neither support nor oppose	Somewhat /Strongly oppose	Somewhat oppose	Strongly oppose	DK	SKP/ REF
\$1 (N=283)	51	27	24	26	23	8	15	-	-
\$10 (N=312)	41	19	21	23	36	20	16	-	1
\$20 (N=319)	34	10	24	19	46	20	26	-	1
\$40 (N=325)	29	10	19	19	51	21	31	-	1
\$75 (N=272)	25	8	17	19	55	20	35	1	1
\$100 (N=296)	15	4	11	23	61	17	45	*	1

Condition 3.

Suppose that your local utility company owns several power plants, some of which generate much more air pollution than others, damaging the health of the predominantly low-income communities who live nearby.

Would you support, oppose, or neither support nor oppose a fee on your monthly electricity bill of \$__ to clean up the dirtier plants?

[RESPONDENTS WERE RANDOMLY ASSIGNED TO \$1, \$10, \$20, \$40, \$75, OR \$100 FEE;
HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

AP-NORC/EPIC 9/8-24/2021	Strongly/ Somewhat support	Strongly support	Somewhat support	Neither support nor oppose	Somewhat /Strongly oppose	Somewhat oppose	Strongly oppose	DK	SKP/ REF
\$1 (N=307)	60	29	31	18	22	6	16	-	1
\$10 (N=287)	43	18	25	23	34	15	19	*	1
\$20 (N=305)	31	13	18	24	45	20	25	-	*
\$40 (N=301)	24	8	17	24	52	19	33	-	-
\$75 (N=296)	21	6	14	22	57	21	36	-	-
\$100 (N=310)	22	7	15	17	60	17	43	-	1

PID1. Do you consider yourself a Democrat, a Republican, an Independent or none of these?

If Democrat:

PIDA. Do you consider yourself a strong or not so strong Democrat?

If Republican:

PIDB. Do you consider yourself a strong or not so strong Republican?

If independent, none of these, don't know, skipped, or refused:

PIDI. Do you lean more toward the Democrats or the Republicans?

Combines PID1, PIDI, PIDA, and PIDB.

	AP-NORC/EPIC 9/8-24/2021
Democrat NET	46
Strong Democrat	21
Not so strong Democrat	16
Lean Democrat	9
Independent/None – Don't lean	19
Republican NET	35
Lean Republican	9
Not so strong Republican	12
Strong Republican	14
Unknown	*

N=

5,468

D3. Generally speaking, do you consider yourself to be a liberal, moderate, or conservative?

If liberal:

D4. Do you consider yourself very liberal or somewhat liberal?

If conservative:

D5. Do you consider yourself very conservative or somewhat conservative?

Combines D3, D4, D5:

	AP-NORC/EPIC 9/8-24/2021
Liberal NET	33
Very liberal	12
Somewhat liberal	11
Closer to liberal	9
Neither liberal nor conservative	30
Conservative NET	36
Closer to conservative	8
Somewhat conservative	15
Very conservative	13
Unknown	1

N=

5,468

RELIG. What is your present religion, if any?

	AP-NORC/EPIC 9/8-24/2021
Protestant (Baptist, Methodist, Non-denominational, Lutheran, Presbyterian, Pentecostal, Episcopalian, Reformed, Church of Christ, Jehovah's Witness, etc.)	27
Roman Catholic (Catholic)	20
Mormon (Church of Jesus Christ of Latter-day Saints/LDS)	1
Orthodox (Greek, Russian, or some other orthodox church)	1
Jewish (Judaism)	3
Muslim (Islam)	1
Buddhist	1
Hindu	1
Atheist (do not believe in God)	5
Agnostic (not sure if there is a God)	6
Nothing in particular	14
Just Christian	17
Unitarian (Universalist)	1
Something else	3
DON'T KNOW	-
SKIPPED ON WEB/REFUSED	*

N=

5,468

If Protestant, Catholic, Mormon, Orthodox, Christian, or Something else in RELIG

BORN. Would you describe yourself as a 'born-again' or evangelical Christian, or not?

	AP-NORC/EPIC 9/8-24/2021
Yes	40
No	60
DON'T KNOW	-
SKIPPED ON WEB/REFUSED	*

N=

3,836

AGE

	AP-NORC/EPIC 9/8-24/2021
18-29	20
30-39	17
40-59	32
60-64	8
65+	22
<i>N=</i>	<i>5,468</i>

RACE/ETHNICITY

	AP-NORC/EPIC 9/8-24/2021
White	62
Black or African American	12
Hispanic	17
Other	9
<i>N=</i>	<i>5,468</i>

INCOME

	AP-NORC/EPIC 9/8-24/2021
Under \$10,000	8
\$10,000 to under \$20,000	9
\$20,000 to under \$30,000	12
\$30,000 to under \$40,000	9
\$40,000 to under \$50,000	8
\$50,000 to under \$75,000	18
\$75,000 to under \$100,000	12
\$100,000 to under \$150,000	14
\$150,000 or more	9
<i>N=</i>	<i>5,468</i>

MARITAL STATUS

	AP-NORC/EPIC 9/8-24/2021
Married	53
Not married	47
<i>N=</i>	<i>5,468</i>

EDUCATION

	AP-NORC/EPIC 9/8-24/2021
Less than a high school diploma	9
High school graduate or equivalent	29
Some college	27
College graduate	22
Post grad study/professional degree	13
<i>N=</i>	<i>5,468</i>

EMPLOYED.

	AP-NORC/EPIC 9/8-24/2021
Employed	53
Not employed	47
<i>N=</i>	<i>5,468</i>

Study Methodology

This survey was conducted by The Associated Press-NORC Center for Public Affairs Research, with funding from The Energy Policy Institute at the University of Chicago (EPIC). Staff from NORC at the University of Chicago, The Associated Press, and EPIC collaborated on all aspects of the study.

Data were collected using both probability and non-probability sample sources. Interviews for this survey were conducted between September 8-24, with adults age 18 and over representing the 50 states and the District of Columbia.

The probability sample source is AmeriSpeak®, NORC's probability-based panel designed to be representative of the U.S. household population. During the initial recruitment phase of the panel, randomly selected U.S. households were sampled with a known, non-zero probability of selection from the NORC National Sample Frame and then contacted by U.S. mail, email, telephone, and field interviewers (face-to-face). The panel provides sample coverage of approximately 97 percent of the U.S. household population. Those excluded from the sample include people with P.O. Box only addresses, some addresses not listed in the USPS Delivery Sequence File, and some newly constructed dwellings.

Panel members were randomly drawn from AmeriSpeak, and 2,174 completed the survey – 2,034 via the web and 140 via telephone. Interviews were conducted in English. The final stage completion rate is 29.3 percent, the weighted household panel response rate is 19.10 percent, and the weighted household panel retention rate is 75.1 percent, for a cumulative response rate of 4.2 percent. The overall margin of sampling error for the AmeriSpeak sample is +/-2.9 percentage points at the 95 percent confidence level, including the design effect.

Dynata provided 3,294 non-probability interviews with adults age 18 and over. The Dynata sample was derived based on quotas related to age, race and ethnicity, gender, and education. Interviews were conducted in English and via the web only. For panel recruitment, Dynata uses invitations of all types including email invitations, phone alerts, banners, and messaging on panel community sites to include people with a diversity of motivations to take part in research. Because non-probability panels do not start with a frame where there is known probability of selection, standard measures of sampling error and response rates cannot be calculated.

Once the sample has been selected and fielded, and all the study data have been collected and made final, a raking process is used to adjust for any survey nonresponse as well as any noncoverage or under and oversampling in both probability and non-probability samples resulting from the study specific sample design. Raking variables for both the probability and nonprobability samples included age, gender, census region, race/ethnicity, and education. Population control totals for the raking variables were obtained from the 2021 Current Population Survey. The weighted data reflect the U.S. population of people age 18 and over.

In order to incorporate the nonprobability sample, NORC used TrueNorth calibration, an innovative hybrid calibration approach developed at NORC based on small area estimation methods in order to explicitly account for potential bias associated with the nonprobability sample. The purpose of TrueNorth calibration is to adjust the weights for the nonprobability sample to bring weighted distributions of the nonprobability sample in line with the population distribution for characteristics correlated with the survey variables. Such calibration adjustments help to reduce potential bias, yielding more accurate population estimates.

The weighted AmeriSpeak sample and the calibrated nonprobability sample were used to develop a small area model to support domain-level estimates, where the domains were defined by race/ethnicity, age, and gender. The dependent variables for the models were:

- Q6C: How much influence, if any, does each of the following individuals or groups have when it comes to informing your views on climate change? Religious leaders
- Q5A: In the past five years, how much influence, if any, have the following had on your views about the science on climate change? Recent extreme weather events, like hurricanes, droughts, floods, unusual heat, or wildfires

- Q16C: Transportation is the largest source of U.S. greenhouse gas emissions. Do you support, oppose, or neither support nor oppose the following policies to shift U.S. vehicles from gasoline engines to electric ones? Providing tax incentives, cash rebates, or other financial incentives to encourage consumers to buy more electric vehicles
- Q1B: How important are the following issues to you personally? Health care

These were found to be key survey variables, in terms of model fit. The model included covariates, domain-level random effects, and sampling errors. The covariates were external data available from other national surveys such as health insurance, internet access, voting behavior, and housing type from the American Community Survey (ACS) or the Current Population Survey (CPS).

Finally, the combined AmeriSpeak and nonprobability sample weights were derived such that for the combined sample, the weighted estimate reproduced the small domain estimates (derived using the small area model) for key survey variables.

The overall margin of error for the combined sample is +/- 1.7 percentage points at the 95 percent confidence level, including the design effect. The margin of sampling error may be higher for subgroups.

For more information, email info@apnorc.org.

About the Associated Press-NORC Center for Public Affairs Research

Celebrating its 10th anniversary this year, The AP-NORC Center for Public Affairs Research taps into the power of social science research and the highest-quality journalism to bring key information to people across the nation and throughout the world.

- The Associated Press (AP) is an independent global news organization dedicated to factual reporting. Founded in 1846, AP today remains the most trusted source of fast, accurate, unbiased news in all formats and the essential provider of the technology and services vital to the news business. More than half the world's population sees AP journalism every day. Online: www.ap.org
- NORC at the University of Chicago is one of the oldest and most respected, independent research institutions in the world.

The two organizations have established The AP-NORC Center for Public Affairs Research to conduct, analyze, and distribute social science research in the public interest on newsworthy topics, and to use the power of journalism to tell the stories that research reveals. In its 10 years, The AP-NORC Center has conducted more than 250 studies exploring the critical issues facing the public, covering topics like health care, the economy, COVID-19, trust in media, and more. Learn more at www.apnorc.org

About the Energy Policy Institute at the University of Chicago (EPIC)

The Energy Policy Institute at the University of Chicago (EPIC) is confronting the global energy challenge by working to ensure that energy markets provide access to reliable, affordable energy, while limiting environmental and social damages. We do this using a unique interdisciplinary approach that translates robust, data-driven research into real-world impacts through strategic outreach and training for the next generation of global energy leaders.

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