2023 AP-NORC/EPIC Energy Survey

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: 1/31-2/15/2023
5,408 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 important[1]**	**Very/ Extremely important**	Very important	Extremely important	DK	SKP/ REF
The economy	1/31-2/15/2023 *(N=5,408)*	**5**	1	3	**13**	**82**	37	44	-	1
	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	1/31-2/15/2023 *(N=5,408)*	**4**	1	3	**13**	**81**	36	45	-	1
	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	*	*

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[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
Foreign Policy	1/31-2/15/2023 *(N=5,408)*	**18**	7	12	**32**	**49**	31	17	*	1
Immigration	1/31-2/15/2023 *(N=5,408)*	**18**	6	12	**28**	**53**	28	25	-	1
	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
	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	1/31-2/15/2023 *(N=5,408)*	**14**	4	10	**28**	**57**	33	24	-	1
	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

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[2] 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[3]**	**Very/ Extremely important**	Very important	Extremely important	DK	SKP/ REF
Climate change	1/31-2/15/2023 *(N=5,408)*	**23**	11	12	**22**	**53**	25	28	*	1
	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 <u>not</u> happening, or aren't you sure?

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

	AP-NORC/ EPIC 1/31-2/15/2023	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	74	75	71	72	65	77
Climate change is not happening	9	10	9	9	12	10
Not sure if climate change is happening	16	15	19	19	23	13
SKIPPED ON WEB/REFUSED	1	*	1	1	1	-
N=	*5,408*	*5,468*	*1,202*	*1,038*	*1,068*	*1,096*

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[3] Response option was "Moderately important" in prior surveys.

If climate change is happening in Q2

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 1/31-2/15/2023	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	**49**	**54**	**60**	**55**	**57**
Caused <u>entirely</u> by human activities	11	13	15	15	13
Caused <u>mostly</u> by human activities	38	41	45	40	44
Caused <u>equally</u> by human activities and natural changes in the environment	**37**	**32**	**28**	**32**	**32**
Caused mostly/entirely by natural changes in the environment	**14**	**14**	**12**	**12**	**10**
Caused <u>mostly</u> by natural changes in the environment	9	8	10	11	9
Caused <u>entirely</u> by natural changes in the environment	4	5	2	2	1
DON'T KNOW	-	-	*	*	*
SKIPPED ON WEB/REFUSED	*	*	-	*	*
N=	*4,039*	*4,165*	*854*	*774*	*751*

Q4. How concerned are you about the effects of climate change on:

[GRID ITEMS RANDOMIZED]

You Personally

	AP-NORC/ EPIC 1/31-2/15/2023	AP-NORC 6/23-27/2022	AP-NORC 8/15-18/2019
Extremely/Very concerned	**42**	**35**	**44**
Extremely concerned	19	15	24
Very concerned	23	25	22
Moderately concerned	**31**	**33**	**29**
Not very/Not at all concerned	**27**	**32**	**25**
Not very concerned	17	17	13
Not at all concerned	10	15	12
DON'T KNOW	-	*	*
SKIPPED ON WEB/REFUSED	1	*	1
N=	*5,408*	*1,053*	*1,058*

Low-Income

	AP-NORC/EPIC 01/31-02-15/2023	AP-NORC 6/23-27/2022	AP-NORC 8/15-18/2019
Extremely/Very concerned	**49**	**47**	**53**
Extremely concerned	24	27	29
Very concerned	24	21	18
Moderately concerned	**28**	**24**	**25**
Not very/Not at all concerned	**23**	**28**	**21**
Not very concerned	13	15	12
Not at all concerned	10	13	8
DON'T KNOW	*	*	*
SKIPPED ON WEB/REFUSED	1	1	1
N=	*5,408*	*1,053*	*1,058*

Coastal Communities

	AP-NORC/EPIC 1/31-2/15/2023	AP-NORC 6/23-27/2022	AP-NORC 8/15-18/2019
Extremely/Very concerned	**50**	**52**	**55**
Extremely concerned	24	26	30
Very concerned	26	24	22
Moderately concerned	**29**	**26**	**24**
Not very/Not at all concerned	**20**	**20**	**20**
Not very concerned	12	9	12
Not at all concerned	8	11	8
DON'T KNOW	-	*	*
SKIPPED ON WEB/REFUSED	1	*	1
N=	*5,408*	*1,053*	*1,058*

Future Generations

	AP-NORC/EPIC 1/31-2/15/2023	AP-NORC 6/23-27/2022	AP-NORC 8/15-18/2019
Extremely/Very concerned	**62**	**64**	**67**
Extremely concerned	37	38	42
Very concerned	26	14	12
Moderately concerned	**21**	**17**	**17**
Not very/Not at all concerned	**16**	**18**	**15**
Not very concerned	9	9	7
Not at all concerned	7	9	7
DON'T KNOW	*	*	*
SKIPPED ON WEB/REFUSED	1	*	1
N=	*5,408*	*1,053*	*1,058*

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 1/31-2/15/2023	AP-NORC/EPIC 9/8-24/2021
A lot/A little faster	**55**	**59**
A lot faster	19	27
A little faster	36	33
Staying about the same pace	**38**	**35**
A little/A lot slower	**7**	**6**
A little slower	4	3
A lot slower	3	2
DON'T KNOW	*	*
SKIPPED ON WEB/REFUSED	1	*
N=	*5,408*	*5,468*

Q5. In the past 5 years, how much influence, if any, has each of the following had on your views about 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
Recent extreme weather events, like hurricanes, droughts, floods, unusual heat, or wildfires[4]	1/31-2/15/2023 *(N=5,408)*	**49**	23	26	**27**	**23**	13	10	*	1
	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[5]	1/31-2/15/2023 *(N=5,408)*	**32**	12	21	**33**	**34**	19	14	-	1
	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	1/31-2/15/2023 *(N=5,408)*	**41**	17	24	**34**	**25**	14	10	-	1
	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

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[4] Prior survey item read "Recent extreme weather events, like hurricanes, droughts, floods, unusual heat"
[5] Prior survey item read "News stories"

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
Arguments that question the existence of climate change	1/31-2/15/2023 *(N=5,408)*	**24**	8	16	**29**	**47**	25	21	*	1
	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	1/31-2/15/2023 *(N=5,408)*	**35**	14	22	**32**	**32**	18	14	*	1
	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

Q5a. In the past 12 months, has your local community experienced an extreme weather event such as a hurricane, drought, flood, unusual heat or cold, or wildfires, or not?

	AP-NORC/EPIC 1/31-2/15/2023
Yes	52
No	47
DON'T KNOW	-
SKIPPED ON WEB/REFUSED	1
N=	5,408

Q5b. Have you ever considered moving to avoid the impact of extreme weather events such as hurricanes, droughts, floods, unusual heat or cold, or wildfires, or not?

	AP-NORC/ EPIC 1/31-2/15/2023
Yes	21
No	78
DON'T KNOW	-
SKIPPED ON WEB/REFUSED	1
N=	5,408

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	1/31-2/15/2023 *(N=5,408)*	**15**	6	9	**22**	**62**	25	37	-	1
	9/8-24/2021 *(N=5,468)*	**12**	5	7	**18**	**69**	26	43	*	1
Democratic political leaders	1/31-2/15/2023 *(N=5,408)*	**22**	8	13	**25**	**53**	22	31	-	1
	9/8-24/2021 *(N=5,468)*	**20**	8	12	**23**	**56**	23	32	*	1

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
Religious leaders[6]	1/31-2/15/2023 *(N=5,408)*	**13**	5	8	**20**	**67**	25	42	*	1
	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	1/31-2/15/2023 *(N=5,408)*	**51**	26	26	**27**	**21**	11	10	*	1
	9/8-24/2021 *(N=5,468)*	**54**	30	24	**27**	**19**	10	8	*	1
Media	1/31-2/15/2023 *(N=5,408)*	**24**	9	16	**32**	**43**	21	21	*	1
	9/8-24/2021 *(N=5,468)*	**23**	8	15	**31**	**45**	23	23	*	1
Corporate leaders	1/31-2/15/2023 *(N=5,408)*	**15**	6	9	**22**	**62**	30	32	-	1

[6] 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?"

CC9. Over the last year have you done any of the following?

[GRID ITEMS RANDOMIZED]

AP-NORC/EPIC 1/31-2/15/2023	Yes	No	Not applicable	DK	SKP/REF
Used an electricity supplier that gets power from renewable sources	25	59	15	*	1
Reduced the number of times you fly	31	35	33	-	1
Reduced the amount you drive	52	39	9	-	1
Reduced the amount of meat you eat	37	58	4	-	1
Used energy efficient appliances	68	26	6	*	1
Lived in a home with solar panels	11	80	9	-	1
Driven a hybrid or electric car	12	76	10	-	1
Turned off lights when they are not needed	89	8	2	-	1
Reduced your use of heat or air conditioning	60	35	4	-	1
Reduced the amount of paper or plastic that you use	58	37	4	-	1
Composted food waste	29	62	8	*	1
Bought used products instead of new ones	50	43	6	-	1

N=5,408

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.

    A.   **Would you support, oppose, or neither support nor oppose this proposal?**

    B.   **Would you support, oppose, or neither support nor oppose having these power lines built in your neighborhood?**

[RESPONDENTS WERE RANDOMLY ASSIGNED TO A OR B; HALF OF EACH SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

AP-NORC/ EPIC 1/31-2/15/2023	This proposal	Having these power lines built in your neighborhood
Strongly/Somewhat support	**56**	**48**
Strongly support	24	20
Somewhat support	32	28
Neither support nor oppose	**31**	**33**
Somewhat/Strongly oppose	**12**	**18**
Somewhat oppose	8	10
Strongly oppose	5	8
DON'T KNOW	*	*
SKIPPED ON WEB/REFUSED	*	*
N=	*2,698*	*2,710*

Q11. 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		Strongly/ Somewhat support	Strongly support	Somewhat support	Neither support nor oppose	Somewhat /Strongly oppose	Somewhat oppose	Strongly oppose	DK	SKP/ REF
$1	1/31-2/15/2023 (N=921)	**38**	16	22	**26**	**34**	13	21	-	1
	9/8-24/2021 (N=228)	**52**	33	20	**19**	**28**	6	22	-	*
$10	1/31-2/15/2023 (N=899)	**31**	12	19	**26**	**42**	15	27	*	1
	9/8-24/2021 (N=235)	**35**	16	18	**28**	**35**	15	21	*	*
$20	1/31-2/15/2023 (N=945)	**29**	11	19	**26**	**43**	16	27	-	1
	9/8-24/2021 (N=240)	**37**	10	27	**21**	**41**	15	27	-	*
$40	1/31-2/15/2023 (N=889)	**27**	9	17	**26**	**47**	18	29	-	1
	9/8-24/2021 (N=236)	**32**	10	23	**21**	**46**	12	34	-	1

AP-NORC/EPIC		**Strongly/ Somewhat support**	Strongly support	Somewhat support	**Neither support nor oppose**	**Somewhat /Strongly oppose**	Somewhat oppose	Strongly oppose	DK	SKP/ REF
$75	1/31-2/15/ 2023 *(N=873)*	**22**	7	15	**27**	**50**	16	34	*	*
	9/8-24/2021 *(N=226)*	**27**	6	20	**19**	**53**	20	34	-	1
$100	1/31-2/15/ 2023 *(N=881)*	**21**	6	15	**26**	**52**	19	32	-	1
	9/8-24/2021 *(N=235)*	**31**	9	22	**16**	**52**	17	35	-	-

E1. How much, if anything, have you read or heard about electric vehicles?

[HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

	AP-NORC/ EPIC 1/31-2/15/2023
A lot	24
Some	41
Only a little	28
Nothing at all	7
DON'T KNOW	*
SKIPPED ON WEB/REFUSED	*
N=	*5,408*

E2. Do you or someone in your household own or lease any of the following?

[GRID ITEMS RANDOMIZED]

AP-NORC/EPIC 1/31-2/15/2023	Yes	No	DK	SKP/REF
(If A lot, Some, or Only a little in E1) An electric vehicle *(N=5,084)*	9	90	-	1
A plug-in hybrid vehicle	8	91	-	1
A gas engine vehicle	86	14	-	1

N=5,408

E3. The next time you purchase a vehicle, how likely are you to purchase a new or used electric vehicle?

[HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

	AP-NORC/EPIC 1/31-2/15/2023
Extremely likely/Very likely	**19**
Extremely likely	9
Very likely	10
Somewhat likely	**22**
Not too likely/Not at all likely	**47**
Not too likely	21
Not at all likely	25
I do not expect to purchase a vehicle	12
DON'T KNOW	*
SKIPPED ON WEB/REFUSED	*
N=	*5,408*

E4. Is each of the following a major reason, a minor reason, or not a reason you <u>would</u> purchase an electric vehicle?

[GRID ITEMS RANDOMIZED]

AP-NORC/ EPIC 1/31-2/15/2023	Major reason	Minor reason	Not a reason	DK	SKP/REF
To save money on gas	46	28	26	*	1
To keep up with the latest trends in vehicles	8	19	72	*	1
To get a tax break	21	39	39	*	1
To save money on vehicle maintenance	31	33	36	*	1
To be one of the first people you know to have an electric vehicle	7	16	76	*	1
To reduce your personal impact on climate change	35	31	34	-	1
Owning and electric vehicle aligns with your personal values	21	28	50	*	*
N=5,408					

E5. Is each of the following a major reason, a minor reason, or not a reason you <u>would not</u> purchase an electric vehicle?

[GRID ITEMS RANDOMIZED]

AP-NORC/ EPIC 1/31-2/15/2023	Major reason	Minor reason	Not a reason	DK	SKP/REF
The cost of a new electric vehicle is too high	60	23	16	*	1
You don't want to be one of the first people you know to have an electric vehicle	12	16	70	*	1
There aren't enough choices in electric vehicles	25	33	41	*	1
The battery technology isn't quite ready yet	41	30	28	*	1
You prefer a gas engine vehicle	40	27	33	*	1
There aren't enough charging stations available	50	27	21	*	1
It takes too long to charge	38	32	28	*	1
Owning an electric vehicle does not align with your personal values	19	19	62	*	1

N=5,408

E6. Do you support, oppose, or neither support nor oppose the following policies?

[HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

AP-NORC/ EPIC 1/31-2/15/2023	**Strongly/ Somewhat support**	Strongly support	Somewhat support	**Neither support nor oppose**	**Somewhat/ Strongly oppose**	Somewhat oppose	Strongly oppose	DK	SKP/ REF
Requiring all new vehicles sold in your state to be electric or plug-in hybrid by 2035	**27**	11	16	**24**	**49**	14	35	-	*
Increasing federal funding for electric vehicle infrastructure, like vehicle charging stations	**46**	20	25	**26**	**27**	10	17	*	1
Setting stricter fuel efficiency standards to encourage auto companies to sell more electric vehicles	**35**	14	20	**29**	**36**	14	23	*	1
Providing tax credits, cash rebates, or other financial incentives for the purchase of electric vehicles	**49**	25	24	**25**	**25**	9	16	*	1

N=5,408

E7. As you may know, a recently enacted law offers a consumer tax credit for purchasing an electric vehicle. To be eligible for the full credit amount, the electric vehicle must have a battery that was manufactured in the U.S.

> **A. Some argue that this requirement will lead to higher paying jobs in the United States.**
> **B. Some argue that this requirement will expand the electric vehicle manufacturing industry in the United States.**
> **C. Some argue that this requirement will lead to electric vehicles becoming more expensive.**
> **D. Some argue that this requirement will lead to fewer people purchasing electric vehicles.**
> **E. [NO ARGUMENT GIVEN]**

Do you support, oppose, or neither support nor oppose this law?

[RESPONDENTS WERE RANDOMLY ASSIGNED TO A, B, C, D or E; HALF SAMPLE SHOWN RESPONSE OPTIONS IN REVERSE ORDER]

AP-NORC/ EPIC 1/31-2/15/2023	Strongly/ Somewhat support	Strongly support	Somewhat support	Neither support nor oppose	Somewhat/ Strongly oppose	Somewhat oppose	Strongly oppose	DK	SKP/REF
Some argue that this requirement will lead to higher paying jobs in the United States. *(N=1,098)*	**43**	16	28	**38**	**19**	9	10	-	*
Some argue that this requirement will expand the electric vehicle manufacturing industry in the United States. *(N=1,065)*	**43**	17	26	**38**	**18**	7	11	-	*

AP-NORC/ EPIC 1/31- 2/15/2023	**Strongly/ Somewhat support**	Strongly support	Somewhat support	**Neither support nor oppose**	**Somewhat/ Strongly oppose**	Somewhat oppose	Strongly oppose	DK	SKP/REF
Some argue that this requirement will lead to electric vehicles becoming more expensive. *(N=1,058)*	**34**	12	23	**39**	**26**	14	12	-	1
Some argue that this requirement will lead to fewer people purchasing electric vehicles. *(N=1,067)*	**36**	15	20	**43**	**21**	11	10	*	1
[NO ARGUMENT GIVEN] *(N=1,120)*	**48**	21	27	**33**	**17**	7	10	-	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 moderate Democrat?
If Republican:
PIDB. Do you consider yourself a strong or moderate 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 1/31- 2/15/2023
Democrat NET	**43**
Strong Democrat	18
Moderate Democrat	16
Lean Democrat	9
Independent/None – Don't lean	**19**
Republican NET	**38**
Lean Republican	9
Moderate Republican	15
Strong Republican	14
UNKNOWN	*
DON'T KNOW	-
SKIPPED ON WEB/REFUSED	-
N=	*5,408*

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?
If moderate, don't know, or skipped:
D6. Do you consider yourself closer to liberal, neither liberal nor conservative, or closer to conservative?

Combines D3, D4, D5, D6:

	AP-NORC/ EPIC 1/31-2/15/2023
Liberal NET	**31**
Very liberal	12
Somewhat liberal	19
Moderate	**30**
Conservative NET	**39**
Somewhat conservative	26
Very conservative	13
UNKNOWN	1
DON'T KNOW	-
SKIPPED ON WEB/REFUSED	-
N=	*5,408*

DM5. How would you describe the community you live in now?

	AP-NORC/ EPIC 1/31-2/15/2023
Urban	28
Suburban	49
Rural	23
DON'T KNOW	*
SKIPPED ON WEB/REFUSED	*
N=	*5,408*

D7. How many minutes does it usually take you to commute from home to work?

	AP-NORC/ EPIC 1/31-2/15/2023
Less than 30 minutes	33
30 minutes to under an hour	14
An hour or longer	6
I currently work from home	10
I do not currently work	36
DON'T KNOW	-
SKIPPED ON WEB/REFUSED	*
N=	*5,408*

D8. When commuting or running errands, do you routinely use each of the following or not?
[GRID ITEMS RANDOMIZED]

AP-NORC/ EPIC 1/31-2/15/2023	Yes	No	DK	SKP/REF
Local public transportation, such as a bus or a train	15	84	-	1
A personal vehicle	87	12	-	1
A hired car like a taxi, Uber, or Lyft	13	86	-	1
Walking or biking	31	68	-	1

N=5,408

E8. How many electric vehicle charging stations are available in your community?

	AP-NORC/ EPIC 1/31-2/15/2023
None	24
1 to 5	21
6 or more	10
Not sure	45
SKIPPED ON WEB/REFUSED	*
N=	*5,408*

E9. Now think about your friends and family. Do any of your friends or family members have any of the following?

[GRID ITEMS RANDOMIZED]

AP-NORC/ EPIC 1/31-2/15/2023	Yes	No	DK	SKP/REF
(If A lot, Some, or Only a little in E1) A plug-in electric vehicle *(N=5,084)*	22	78	*	1
A plug-in hybrid vehicle	19	80	*	1

N=5,408

RELIG. What is your present religion, if any?

	AP-NORC/ EPIC 1/31-2/15/2023
Protestant (Baptist, Methodist, Non-denominational, Lutheran, Presbyterian, Pentecostal, Episcopalian, Reformed, Church of Christ, Jehovah's Witness, etc.)	25
Roman Catholic (Catholic)	21
Mormon (Church of Jesus Christ of Latter-day Saints/LDS)	1
Orthodox (Greek, Russian, or some other orthodox church)	1
Jewish (Judaism)	2
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	13
Just Christian	19
Unitarian (Universalist)	1
Something else	3
DON'T KNOW	-
SKIPPED ON WEB/REFUSED	*

N=   *5,408*

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 1/31- 2/15/2023
Yes	37
No	63
DON'T KNOW	-
SKIPPED ON WEB/REFUSED	*
N=	*3,802*

AGE

	AP-NORC/ EPIC 1/31- 2/15/2023
18-29	20
30-39	18
40-59	32
60-64	8
65+	22
N=	*5,408*

GENDER

	AP-NORC/ EPIC 1/31- 2/15/2023
Male	48
Female	52
N=	*5,408*

RACE/ETHNICITY

	AP-NORC/ EPIC 1/31- 2/15/2023
White	63
Black or African American	11
Hispanic	17
Other	9
N=	*5,408*

INCOME

	AP-NORC/EPIC 1/31-2/15/2023
Under $10,000	7
$10,000 to under $20,000	8
$20,000 to under $30,000	11
$30,000 to under $40,000	9
$40,000 to under $50,000	9
$50,000 to under $75,000	19
$75,000 to under $100,000	14
$100,000 to under $150,000	14
$150,000 or more	10
N=	*5,408*

MARITAL STATUS

	AP-NORC/ EPIC 1/31-2/15/2023
Married	46
Not married	54
N=	*5,408*

EDUCATION

	AP-NORC/ EPIC 1/31-2/15/2023
Less than a high school diploma	10
High school graduate or equivalent	29
Some college	26
College graduate	22
Post grad study/professional degree	13
N=	*5,408*

EMPLOYED

	AP-NORC/ EPIC 1/31-2/15/2023
Employed	56
Not employed	44
N=	*5,408*

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 January 31 - February 15, 2023, 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 2,062 completed the survey – 1,988 via the web and 74 via telephone. Interviews were conducted in English. The final stage completion rate is 24.5 percent, the weighted household panel response rate is 19.5 percent, and the weighted household panel retention rate is 80.4 percent, for a cumulative response rate of 3.8 percent.

Quality assurance checks were conducted to ensure data quality. In total, 202 interviews were removed for nonresponse to at least 50% of the questions asked of them, for completing the survey in less than one-third the median interview time for the full sample, or for straight-lining all eligible grid questions asked of them. These interviews were excluded from the data file prior to weighting.

Dynata provided 3,346 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 2022 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:

- Q4D: How concerned are you about the effects of climate change on… Future generations?
- Q5A: In the past <u>five years</u>, how much influence, if any, has each of the following had on your views about climate change? Recent extreme weather events, like hurricanes, droughts, floods, unusual heat, or wildfires
- Q4C: How concerned are you about the effects of climate change on… Coastal communities?

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. Sampling error is only one of many potential sources of error and there may be other unmeasured error in this or any other survey.

For more information, email info@apnorc.org.

About the Associated Press-NORC Center for Public Affairs Research
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. epic.uchicago.edu @UChiEnergy