



ALASKA CENTER FOR ENERGY AND POWER (ACEP) 2024 STATEWIDE SURVEY TOPLINES

[PHONE] Hello, may I please speak with **(NAME ON LIST)**? My name is _____ from _____, a public opinion polling firm. We're conducting a short survey about some issues people have been talking about lately. We're not selling anything, and I will not ask for a donation at any time. It will take only a few minutes, and all responses will be anonymous and used only for research purposes.

[WEB]¹ Alaska Opinion Surveys is conducting a scientific research study of Alaska residents. All responses are confidential and for research purposes only.

1. First, which of the following best describes your age?

18-34	29%
35-49	27
50-64	25
65+	20
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Younger than 18	(TERMINATE)
[PHONE] DK/REF / [WEB] Prefer not to answer	(TERMINATE)

2. Do you or does anyone in your household work in any of the following industries?

None of these	80%
Oil and gas	9
Fishing or maritime	7
Tourism	7
Agriculture	1
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News media or journalism	(TERMINATE)
Politics	(TERMINATE)
[PHONE] DK/REF / [WEB] Prefer not to answer	(TERMINATE)

3. And just to make sure we are representing all parts of Alaska, can you please tell me just the five digit zip code for the address where you are registered to vote?

4. **[CODE REGION BASED ON QZIP]**

Anchorage	40%
Mat-Su	16
Fairbanks	15
Southeast	11
Kenai	10
Rural	8

5. How would you describe your gender?

Male	50%
Female	48
Non-binary or third gender	1
Something else	*
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DK/REF	*

¹ For clarity, only the phone version of question language is displayed in the topline data.



6. Which of the following best describes your ethnicity?

White or Caucasian.....	69%
Alaskan Native or Native American.....	12
Mixed/multi-ethnicity.....	6
Hispanic or Latino.....	5
Black or African American.....	4
Asian American or Pacific Islander.....	2
Something else.....	*
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Other.....	-

ENERGY BILLS

7. **[TRACKING]** How do you heat your home or primary residence? You may select all that apply. **(RANDOMIZED)**

2023 Survey

Natural gas.....	56%	49%
Heating oil.....	27	33
Electricity.....	24	21
Wood.....	17	20
Pellet.....	*	4
Air source or ground source heat pump.....	2	1
Other.....	*	3
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DK/NA/REFUSED.....	2	2

8. **[TRACKING]** Would you say that in general your energy bills are **(PINWHEEL ROTATE 1-4)** very affordable, somewhat affordable, not very affordable, or not at all affordable for you?

2023 Survey

TOTAL AFFORDABLE.....	56%	69%
TOTAL NOT AFFORDABLE.....	42%	27%
Very affordable.....	11%	17%
Somewhat affordable.....	45	53
Not very affordable.....	31	19
Not at all affordable.....	11	9
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DK/NA/REFUSE.....	2	3

9. **[TRACKING]** If you had to guess, about how much would you say you pay per month for your electricity bills, not including what you pay for heating? I understand that this may fluctuate, but if you had to give a rough estimate of the average amount you spend on your electricity bills per month, what would it be?

2023 Survey

Less than \$99 per month.....	15%	20%
\$100 to \$199 per month.....	40	42
\$200 to \$249 per month.....	19	12
\$250 or more per month.....	24	20
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DK/NA/REFUSED.....	2	6

CCUS KNOWLEDGE AND PERCEPTIONS

Now here is a list of potential energy related technologies. Please indicate whether you are **familiar** or **unfamiliar** with each one. **If you are familiar** with that item, please indicate whether you feel **(PINWHEEL ROTATE 1-4)** very favorable, somewhat favorable, somewhat unfavorable, or very unfavorable toward that type of energy generation. If you are familiar but have no opinion or are neutral, please indicate that.

(RANDOMIZE)	TOTAL FAV	TOTAL UNFAV	Fam, Very fav	Fam, Smtw fav	Fam, Smtw unfav	Fam, Very unfav	Fam, No opin	Unfam / Don't rec	DK/ REF
10. [SSA] Nuclear Microreactor Technology.	47%	16%	25	22	8	8	9	28	1%
11. [SSB] Nuclear Modular Reactor Technology.	44%	22%	21	23	12	10	12	21	*
12. Importing Liquefied Natural Gas, also known as LNG.	35%	35%	16	19	16	19	14	15	1
13. [SSB] Coal power generation.	35%	45%	16	19	18	26	13	6	1
14. [SSA] Coal power generation when emissions are captured by CCUS.	28%	28%	12	17	14	14	16	27	1
15. Point-source capture, an existing technology to scrub large amounts of carbon from power plant or industry emission sources.	25%	14%	10	15	7	7	11	50	*
16. (ALWAYS FIRST) Carbon-capture, Utilization, and Storage, also known as CCUS.	19%	16%	5%	14%	8%	8%	12%	53%	*
17. DAC or Direct-Air Capture, a new technology that uses machines to remove carbon from the air.	16%	14%	6	10	5	8	10	61	*

18. **(IF UNFAVORABLE TO “COAL POWER” OR “COAL POWER W/ CCUS”)** You mentioned that you have an unfavorable opinion of using coal for energy production. Under what conditions would you consider increasing the amount of coal used for energy production in Alaska?

None / Bad For The Environment.....	31%
If Dirty Emissions Are Reduced / If Burns Cleaner	26
As Last Resort / If There Is No Other Option.....	11
Energy Shortage / Run Out of Other Fuels.....	6
Emergency / Natural Disasters.....	6
Local Energy Source / Energy Sovereignty	6
If It's Cheaper / Reduces Energy Bills	4
If It Helps The Economy / More Jobs	3
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Unsure	4
Other	6

19. **[PEW COMPARISON]** A moment ago, we discussed the concept of carbon storage. If you weren't familiar with this concept, carbon storage refers to a variety of technologies intended to capture carbon dioxide, also known as CO₂, emissions from large point sources such as power plants, refineries and other industrial facilities, or the removal of existing carbon dioxide from the atmosphere and permanent storage far underground in a secure storage container. How likely do you think it is that we will implement this technology in Alaska? **(PINWHEEL ROTATE)**

TOTAL WILL HAPPEN	18%
TOTAL WILL NOT HAPPEN	61%
Definitely will happen	2%
Probably will happen.....	16
Probably will not happen.....	46
Definitely will not happen	16
DK/NA/REFUSED.....	20



20. Were you aware that Alaska has some of the best potential sites for large scale carbon storage in the northern Pacific rim, or on the West Coast of North America? **(ROTATE)**

TOTAL AWARE	37%
TOTAL NOT AWARE	59%
Very aware	17%
Somewhat aware	20
Not very aware.....	19
Not aware at all	41
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DK/NA/REFUSED	4

21. Recently, the U.S. federal government and Japanese government announced a joint effort to study the feasibility of transporting CO2 captured in Japan to Alaska for permanent storage deep underground. Would you **(PINWHEEL ROTATE)** support or oppose importing CO2 from other locations to Alaska for underground storage? **(IF SUPPORT/OPPOSE:)** And is that strongly or somewhat <support/oppose>?

TOTAL SUPPORT	27%
TOTAL OPPOSE	55%
Strongly support.....	7%
Somewhat support.....	19
Somewhat oppose	16
Strongly oppose.....	39
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DK/NA/REFUSED	18

Let's talk a little more about CCUS, or Carbon Capture Utilization, and Storage.

Please indicate how effective you think CCUS would be in Alaska at addressing each listed item below. Would CCUS in your opinion be **(PINWHEEL ROTATE 1-4)** very effective, somewhat effective, not very effective, OR not effective at all. Do you think CCUS would or would not be effective...

(RANDOMIZE)		TOTAL EFFECT	TOTAL NOT EFFECT	Very effectv	Smwt effectv	Not very effectv	Not at all effectv	No opinion	Not Sure
22.	As a way to expand availability of skilled, well-paying jobs regardless of education level.	46%	26%	13%	33%	12%	14%	9%	19%
23.	As a way to align Alaska future economy with low carbon business opportunities.	42%	31%	10	32	14	17	7	20
24.	As a way to attract businesses to Alaska that are interested in operating here.	42%	32%	9	33	18	14	7	18
25.	As a way to continue the usefulness and revenue generation potential of depleted gas and oil fields by storing carbon underground.	40%	26%	9	31	12	15	9	25
26.	Protecting well-paying jobs in the oil and gas industry	39%	29%	12	27	15	15	9	23
27.	As a way to protect and responsibly continue to use domestic energy like Alaska's coal power generation.	33%	35%	7	26	18	17	11	22
28.	As a tool to fight climate change	30%	40%	7	23	15	25	8	22
29.	(ALWAYS ASK FIRST) As a mechanism for removing carbon from the environment and storing it safely	30%	34%	5	25	18	15	11	26

30. Now that you've learned a bit more about CCUS, or Carbon Capture Utilization, and Storage, please indicate whether you have **(PINWHEEL ROTATE 1-4)** a very favorable, somewhat favorable, somewhat unfavorable, or very unfavorable opinion about CCUS?

TOTAL FAVORABLE.....	36%
TOTAL UNFAVORABLE.....	39%
Very favorable.....	5%
Somewhat favorable	30
Somewhat unfavorable	21
Very unfavorable.....	18
No Opinion / Neutral	20
Don't recognize.....	4
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Refused	1

(ROTATE “CCUS SUPPORT” SECTION AND “CCUS OPPOSE” SECTION IN ORDER OF APPEARANCE)

CCUS SUPPORT

Here is a series of different statements that you might hear from those who SUPPORT investing in carbon capture technology. After each one, please indicate if that statement is a very convincing, somewhat convincing, not very convincing or not at all convincing as a reason to support CCUS, or Carbon Capture Utilization, and Storage. If you aren't sure, please indicate that.

(RANDOMIZE)		TOTAL CONV	TOTAL NOT CONV	Very conv	Smwt conv	Not very conv	Not conv at all	Not sure
31.	[ENHANCED OIL RECOVERY] We have used components related to CCUS for decades to successfully enhance oil recovery and increase revenues. Since the 1980s, CO ₂ , or carbon dioxide, has been used as an injectant on the North Slope, contributing to the production of 400 million barrels of oil.	57%	33%	16	41	18	14	11
32.	[NEW JOBS] By building and maintaining the necessary infrastructure for carbon capture and storage, Alaska could see a growth in employment opportunities, not just for engineers and scientists but also for construction workers, technicians, and support staff across the state.	53%	38%	13%	40%	19%	19%	9%
33.	[PROTECT EXISTING JOBS] Investing in CCUS would enable Alaska's vital oil and gas sector, especially on the North Slope, to continue profitably operating while making the industry more sustainable for the long term, and protecting jobs in traditional energy roles.	52%	40%	10	41	22	18	8
34.	[GAS LINE PROJECTS] As environmental standards become stricter, CCUS is crucial for gas line projects. It ensures compliance with carbon reduction requirements, appeals to investors by aligning with sustainability goals, and minimizes long-term financial risks. By integrating CCUS, gas pipeline projects can meet international standards and attract investment, positioning them as both environmentally responsible and economically viable.	47%	40%	10	37	22	18	14
35.	[CLIMATE GOALS] As the impacts of climate change intensify, Alaska must take immediate action to reduce its carbon footprint and those of its energy exports. CCUS allows the state to significantly cut emissions from key sectors like oil and gas and is an essential tactic in making sure climate goals are met.	39%	49%	11	27	21	28	12

36. Here is that same list of reasons why people might SUPPORT Carbon Capture Utilization, and Storage. Please select the top two reasons for supporting CCUS you agreed with most. **(MAX TWO)**

Creating new jobs	37%
Essential to climate goals.....	25
Protecting existing jobs	24
Enhanced oil recovery and associated revenues	21
Necessary for gas line projects	12
Don't support CCUS / Waste of money	2
Generally - increase business revenue	1
Something else	1
None of the above	27

CCUS OPPOSITION

Some people say they have the following concerns about CCUS, or Carbon Capture Utilization, and Storage technology. For each of the following items, please indicate if that reason is very concerning, somewhat concerning, not very concerning, or not concerning at all to you. If you aren't sure, please indicate that. **(WEB: SHOW ONE AT A TIME)**

(RANDOMIZE)		TOTAL CONC	TOTAL NOT CONC	Very conc	Smwt conc	Not very conc	Not conc at all	Not sure
37.	[COST OF ENERGY INCREASING] There are additional costs associated with CCUS, such as equipment installation and operations, that could be passed on to energy rate payers in the form of increased monthly bill costs. This risk of higher energy bills could affect affordability for both businesses and households.	78%	15%	51%	27%	11%	4%	8%
38.	[GREENWASHING] Companies may adopt CCUS as a public relations tool, claiming environmental responsibility without making meaningful reductions in overall emissions. This could result in greenwashing, where the focus shifts to appearances rather than genuine climate impact.	76%	16%	50	27	8	7	8
39.	[DANGER TO HUMAN HEALTH] There is concern that if a leak occurred in an underground carbon storage reservoir, CO2 could potentially contaminate the water table, leading to unsafe drinking water for nearby communities.	75%	17%	57	17	10	6	9
40.	[CAUSE EARTHQUAKES] There is concern that injecting large amounts of CO2 deep underground could trigger seismic activity and induce earthquakes that are felt at the surface.	66%	27%	40	25	17	10	8
41.	[HARMING CROPS] Reducing atmospheric CO2 through CCUS could pose a risk to plant life, such as crops and trees that rely on carbon dioxide for growth. This could impact agricultural productivity and forest ecosystems if the balance is disrupted.	64%	29%	41	23	15	14	7
42.	[OVERREGULATION] CCUS could be a step toward creating a system where both the federal government and international organizations impose stricter control through carbon scores, potentially limiting economic freedoms and increasing surveillance of carbon use.	55%	35%	33	21	19	16	10

43. Here is that same list of potential risks of CCUS. Please select the top two potential risks of CCUS, or Carbon Capture Utilization, and Storage that you believe pose the biggest threat. **(MAX TWO)**

Danger to human health if a leak affects the water table	48%
Deceptive portrayal of environmental responsibility, or greenwashing	31
Result in overreach and overregulation by the federal government	27
Energy bills increasing	25
It will take carbon from crops and trees that need carbon to grow	15
Could result in earthquakes	14
CCUS is not real / unserious / waste of money	1
Something else	1
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None of the above	5

CCUS RE-TEST

44. Now that you've learned a bit more about CCUS, or Carbon Capture Utilization, and Storage, please indicate whether you have **(PINWHEEL ROTATE)** a very favorable, somewhat favorable, somewhat unfavorable, or very unfavorable opinion about CCUS?

TOTAL FAVORABLE	30%
TOTAL UNFAVORABLE	51%
Very favorable	6%
Somewhat favorable	25
Somewhat unfavorable	26
Very unfavorable	25
No Opinion / Neutral	14
Don't recognize	2
--	
Refused	3

CCUS IMPLEMENTATION

45. **(RANDOMIZE ORDER OF STATEMENTS)**

<Some people say/ Others say> CCUS, or Carbon Capture Utilization, and Storage has the most value as a lucrative business opportunity that will create new jobs and pump money into Alaska's economy

<Some people say/ Others say> The biggest benefit of CCUS, or Carbon Capture Utilization, and Storage technology is fostering environmental sustainability, and setting us up for a cleaner future.

Which of these beliefs do you agree with more, even if neither is exactly correct?

TOTAL BUSINESS OPPORTUNITY	28%
TOTAL ENVIROMENTAL SUSTAINABILITY	25%
Business opportunity, agree MUCH more	10%
Business opportunity, agree SOMEWHAT more	18
Environmental sustainability, agree SOMEWHAT more	18
Environmental sustainability, agree MUCH more	8
Neither	31
Both	10
--	
DK/NA/REFUSED	6

NUCLEAR ENERGY

46. **[TRACKING]** Next are a few questions about one type of energy in particular – nuclear energy. Based on what you know right now, do you **(ROTATE)** support or oppose the idea of using nuclear energy in Alaska? **(PINWHEEL ROTATE)**

		<u>2023 Survey</u>
TOTAL SUPPORT	60%	48%
TOTAL OPPOSE	29%	37%
Strongly support.....	32%	27%
Somewhat support.....	28	21
Somewhat oppose	12	12
Strongly oppose.....	17	26
--		
DK/NA/REFUSED.....	11	14

47. **[TRACKING]** As you may know, a nuclear microreactor is a small nuclear reactor that is much smaller than conventional nuclear technology. Microreactors are essentially a small nuclear-powered battery. They vary in size based on the manufacturer, but in general would be small enough to fit inside a shipping container and produce around 10 megawatts, which could power around 7,000 homes and also provide heat. Because of their small size, microreactors use much less nuclear fuel and cannot melt down. They also do not require water for cooling.

After learning more, do you **(ROTATE)** support or oppose the idea of Alaska exploring the use of microreactors to supply energy to Alaskans? **(PINWHEEL ROTATE 1-4)**

		<u>2023 Survey</u>
TOTAL SUPPORT	74%	74%
TOTAL OPPOSE	18%	18%
Strongly support.....	37%	38%
Somewhat support.....	37	36
Somewhat oppose	8	8
Strongly oppose.....	10	10
--		
DK/NA/REFUSED.....	8	8

TRUST

Almost done. When it comes to the topic of energy supply in Alaska, how much would you trust information provided by each of the following – a great deal, a fair amount, only some, or no trust at all?

RANDOMIZE	TRUST	NO TRUST	A great deal	A fair amount	Only some	No trust	Don't recognize	DK/REF
48. The University of Alaska	59%	37%	21%	38%	23%	14%	-	4%
2023 Survey	51%	44%	23	28	29	15	1	4
49. [SSB] Environmental nonprofits	34%	59%	10	24	25	34	2	5
50. [SSA] [TRACKING] The electric utility that serves your jurisdiction	38%	56%	8	31	41	15	-	6
2023 Survey	42%	53%	16	26	36	16	1	4
51. [SSB] [TRACKING] Media and news publications	19%	77%	3	16	38	40	*	3
2023 Survey	19%	76%	4	15	34	43	2	3
52. [SSA] Alaska Oil and Gas Conservation Commission, also known as the AOGCC	24%	63%	3	21	37	26	7	6
53. [SSB] Alaska Dept of Natural Resources, also known as the ADNRC	48%	45%	12	35	37	8	3	4
54. The oil & gas industry	28%	69%	6	22	34	35	*	4
55. [SSA] Alaska Department of Environment and Conservation	45%	50%	15	30	26	24	*	5

56. Would you say that you (ROTATE) agree or disagree with the following statement:

"Climate change is an urgent problem, and the energy sector should adopt sustainable practices to reduce carbon emissions."

(IF AGREE/DISAGREE:) Is that <agree/disagree> strongly or somewhat?

TOTAL AGREE	61%
TOTAL DISAGREE	36%
Strongly agree	44%
Somewhat agree	16
Somewhat disagree	10
Strongly disagree	26
--	
DK/NA/REFUSED	3

DEMOGRAPHICS

These last few questions are for statistical purposes.

56. What is the highest level of education you have fully completed?

NON-COLLEGE	58%
COLLEGE +	42%
Some high school	1%
High school graduate or GED	14
Some college or an Associate's degree	43
Bachelor's degree	22
Postgraduate or advanced degree	21
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DK/NA/REFUSED	*

57. Politically speaking, would you say you are... (PINWHEEL ROTATE)

TOTAL LIBERAL	28%
TOTAL CONSERVATIVE	34%
Very liberal	9%
Somewhat liberal	19
Moderate	33
Somewhat conservative	21
Very conservative	13
--	
DK/NA/REFUSED	5

58. Can you please tell me which of the following best describes your household income from all sources in 2023? Your best guess is fine. Just stop me when I get to the right one.

Less than \$25,000	5%
At least \$25,000 but less than \$50,000	10
At least \$50,000 but less than \$75,000	16
At least \$75,000 but less than \$100,000	17
At least \$100,000 but less than \$200,000	32
\$200,000 or more	16
--	
DK/NA/REFUSED	4

59. Which of the following best describes your own financial situation? Is it...

I can live comfortably while also saving an adequate amount for the future	50%
I can get by every month but I struggle to save money or pay for unexpected expenses	35
I find it difficult to make ends meet every month	11
--	
DK/NA/REFUSED	3

That completes our survey. Thank you VERY MUCH for your time.



PARTY REGISTRATION (FROM VOTER FILE)

Democrat	12%
No Party / Other	64
Republican	24

VOTE HISTORY (FROM VF_ G2020)

Voted	60%
Did not vote	40

MODE

Landline	28%
Mobile	22
SMS Text-to-Web	50