

2018 ReThink Energy NJ Annual Survey

“Attitudes on Energy in New Jersey”



September 2018

Table of Contents

I. EXECUTIVE SUMMARY3

II. DETAILED RESEARCH RESULTS 6

III. DETAILED RESEARCH RESULTS - SAMPLE CHARACTERISTICS 37

APPENDIX A (QUESTIONNAIRE)..... 39



I. Executive Summary

About this study

The Fairleigh Dickinson University Poll conducted a telephone survey of randomly selected registered voters in New Jersey on behalf of and commissioned by ReThink Energy NJ. The study's main objective was to measure the awareness of, and attitudes toward, various energy sources. In addition, the study measured awareness and perceptions of natural gas pipelines proposed to run within the state.

Fairleigh Dickinson University Poll utilized a Random Digit Dialing (RDD) telephone method based on a registered voter sample list to complete a total of 735 telephone surveys with New Jersey registered voters. The RDD sampling was employed to ensure a valid random sampling of registered voters across the state. To approximate the current make-up of cell phones in the state, Fairleigh Dickinson University Poll completed 45 percent of the surveys with cell phone participants, and 55 percent via landline phones. Once all surveys were completed, the data were mathematically weighted to match the known demographics of age, gender and race of New Jersey's registered voters.

With a randomly selected sample of 735 registered voters in New Jersey, one can be 95 percent confident that the margin of error (MoE) is +/- 3.6 percentage points. The margin of error for subgroups is larger and varies by the size of that subgroup.

All surveys were completed between August 30th and September 4th, 2018 and averaged just under 10 minutes in length. The results are summarized below.

In general, registered voters in this study are very supportive of renewable energy initiatives, and support the state moving forward more rapidly than it is currently. As a general statement, across the issues, women, younger respondents, as well as self-identified Democrats are more supportive than their respective cohorts, although support for renewable energy was strong among all demographic groups. These demographic differences are consistent with the general trend in public opinion on environmental issues. Overall, more believe solar (44%) is the most important energy source to New Jersey's future. This was true across all demographics. Natural gas was the second most frequently cited source at 26 percent.

Overall 85 percent believe renewable energy is very or somewhat important to the overall health of New Jersey.

Two-thirds (66%) are willing to pay more (\$10 or \$15 per month) on their energy bills if their energy is generated from solar or wind, with little difference between the two price points (69% vs. 64%).

Residents understand that solar (76%) and wind (68%) are clean. However, less than half of voters consider natural gas (35%) and nuclear energy (23%) to be clean energy sources.

More than half (53%) say a candidate's support for moving to renewable energy would make them more likely to vote for that candidate, including 72 percent of Democrats and 49 percent of Independents. Overall, 34 percent say it would have no impact on how they voted.

The majority (75%) believe the state should invest more in developing clean energy sources rather than fossil fuels and pipelines (19%). The remaining 5 percent are unsure. Most (58%) say the state is moving too slowly on developing and adopting clean energy sources, while 24 percent say the pace is just right.

Overall, three in four (75%) favor New Jersey moving to a goal of having 100% of its energy coming from renewable sources by 2050.

Three in five (60%) disagree at least somewhat with the federal government's move for greater development of oil and gas. Seventy-three percent say New Jersey should not follow Washington's lead in investing more in oil and natural gas projects, but rather should set its own course and invest more in clean, renewable energy sources.

The majority (75%) are very or somewhat concerned with climate change. Most (65%) believe climate change is driven by human activity, while 27 percent say it is mostly due to natural patterns.

Most (74%) would favor the development of off-shore wind energy off the coast of New Jersey.

A majority (65%) expressed concern with proposed pipelines in general. When asked about a variety of potential risks linked to pipeline development in the state, respondents said they would be "very" or "somewhat concerned" with each of the following:

The impact to natural areas and wildlife habitats	81%
The seizure of private property for private companies	81%
The risks to air and water quality	79%
The use of protected natural areas such as the Pine Barrens for the construction of pipelines	78%



Greenhouse gas emissions that contribute to climate change	77%
The use of taxpayer preserved open space for the construction of pipelines	74%
The safety risks associated with ruptures, leaks, or explosions	73%

Two-thirds (67%) say the number of jobs created through pipelines are not worth the environmental and health risks, and that we should instead create jobs through clean, renewable energy projects, while 28 percent say building pipelines will create many much-needed construction jobs that will benefit New Jersey workers and families.

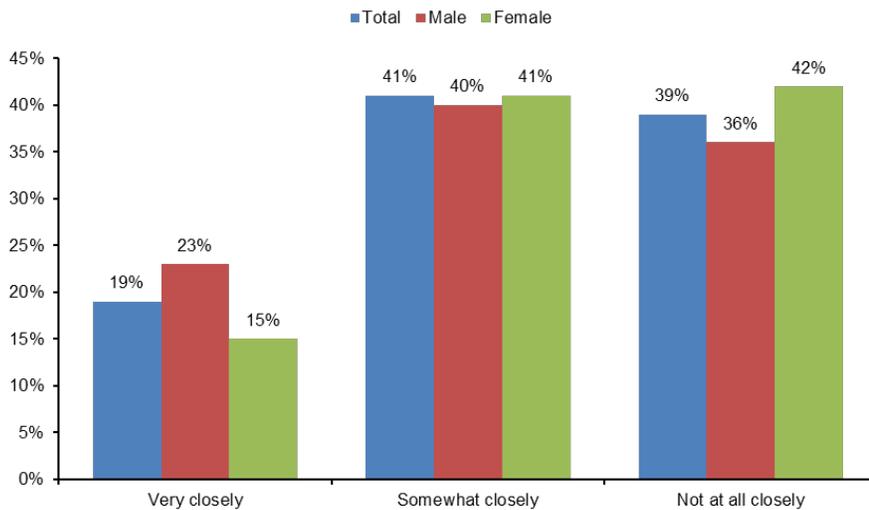
Finally, more (65%) say moving to a clean energy future will require NJ to use less natural gas than say NJ should invest more in natural gas pipelines as it moves to a clean energy future (31%).

II. Detailed Results

1. First, how closely do you follow news about the various ways that people in NJ power their homes and businesses?

Overall, about 3 in 5 (60%) report they have at least somewhat closely followed the news about energy sources. Men (23%) are more likely than women (15%) to say they followed it very closely. Those aged 60+ (25%) are more likely than their younger cohorts to follow very closely.

Chart 1



	<i>Region¹</i>						<i>Age</i>		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Very closely	19%	23%	17%	17%	25%	19%	9%	19%	25%
Somewhat closely	41%	28%	44%	37%	42%	36%	32%	39%	49%
Not at all closely	37%	48%	38%	47%	32%	43%	59%	40%	25%

	<i>Party ID</i>		
	<i>Dem</i>	<i>Ind</i>	<i>Rep</i>
N=	389	101	222
Very closely	18%	16%	21%
Somewhat closely	44%	38%	36%
Not at all closely	36%	46%	42%

¹ **Northwest:** Morris, Somerset, Sussex, and Warren Counties
Northeast: Bergen and Passaic Counties
Urban Core: Essex, Hudson, Middlesex, and Union Counties

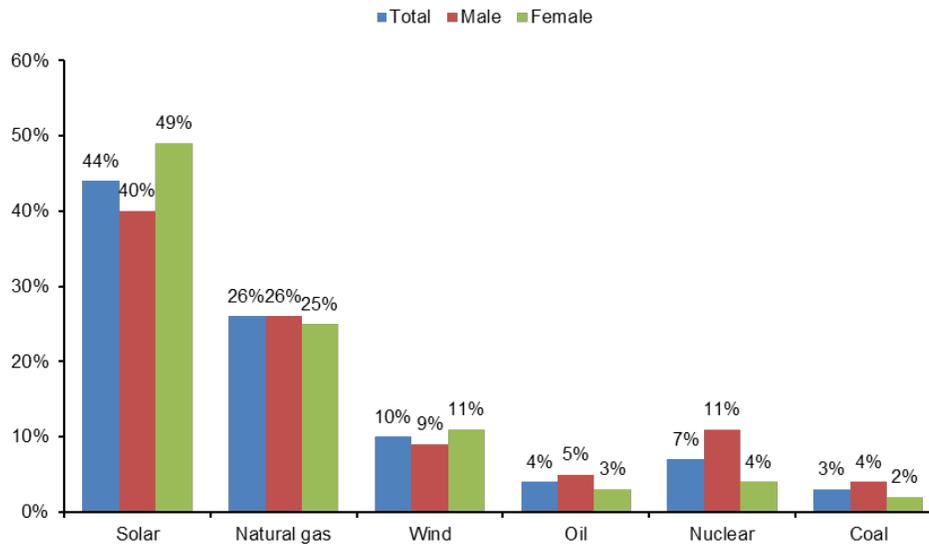
PennEast: Hunterdon, and Mercer Counties
South: Burlington, Camden, Cumberland, Gloucester, and Salem Counties
Coast: Atlantic, Cape May, Monmouth, and Ocean Counties



2. Which source do you think is most important to New Jersey's energy future?

A plurality (44%) say solar is the most important source of New Jersey's energy future. This holds true across all demographics. Despite this, significant gender, age, and party ID differences exist. Natural gas (26%) ranks second, and wind (10%) is the third most cited source. More men (11%) than women (4%) selected nuclear as most important.

Chart 2



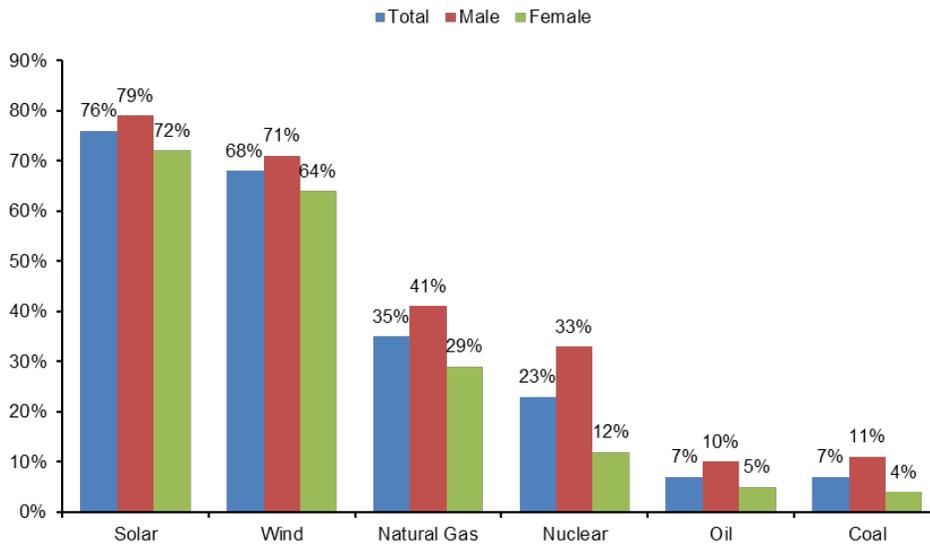
	Region						Age		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Solar	43%	50%	49%	49%	35%	49%	59%	42%	38%
Natural gas	23%	23%	29%	21%	31%	25%	9%	29%	33%
Wind	13%	11%	6%	15%	9%	9%	12%	8%	11%
Nuclear	7%	2%	7%	3%	11%	9%	11%	6%	7%
Oil	7%	6%	2%	3%	2%	2%	4%	4%	4%

	Party ID		
	Dem	Ind	Rep
N=	389	101	222
Solar	54%	45%	27%
Natural gas	21%	22%	36%
Wind	12%	11%	6%
Nuclear	6%	9%	9%
Oil	2%	2%	8%

3. Which of the following do you believe are considered clean energy sources?

The majority believe solar (76%) and wind (68%) are clean energy sources. About a third (35%) say natural gas is, while nearly a quarter (23%) believe nuclear is. Fewer say oil (7%) or coal (7%) is clean.

Chart 3



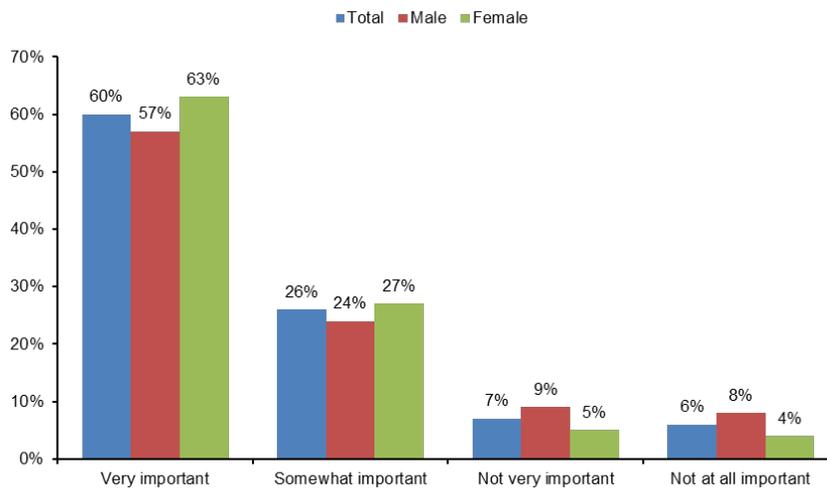
	Region						Age		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Solar	81%	81%	67%	80%	70%	86%	51%	74%	92%
Wind	71%	64%	65%	73%	58%	82%	49%	65%	82%
Natural gas	34%	27%	35%	28%	38%	36%	13%	37%	46%
Nuclear	29%	12%	17%	24%	29%	20%	13%	25%	27%
Oil	11%	6%	5%	2%	14%	7%	3%	8%	10%
Coal	9%	4%	5%	2%	10%	9%	3%	9%	7%

	Party ID		
	Dem	Ind	Rep
N=	389	101	222
Solar	76%	78%	74%
Wind	69%	68%	63%
Natural gas	27%	35%	48%
Nuclear	17%	27%	32%
Oil	2%	15%	14%
Coal	2%	12%	14%

4. How important, if at all, do you believe investing in renewable energy sources, like wind and solar, is to the overall health of the state of New Jersey?

Overall, 85 percent believe investing in renewable energy is very or somewhat important. More women than men (90% vs. 81%) and more aged 18-34 (92%) than their cohorts believe it is at least somewhat important. More living in the Urban Core (90%) than the Coast (80%), and more Democrats (96%) than Republicans (70%) or Independents (82%) believe it to be important.

Chart 4



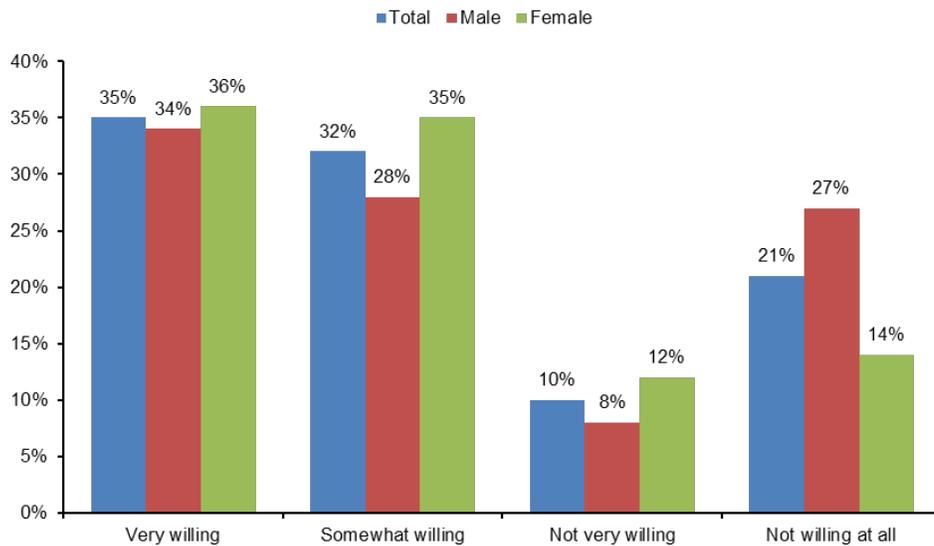
	Region						Age		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Very important	60%	66%	64%	66%	56%	56%	68%	59%	56%
Somewhat important	27%	24%	26%	19%	27%	25%	24%	24%	28%
Not very important	8%	4%	5%	5%	6%	9%	3%	9%	8%
Not at all important	3%	4%	4%	8%	8%	8%	4%	7%	6%

	Party ID		
	Dem	Ind	Rep
N=	389	101	222
Very important	75%	59%	36%
Somewhat important	22%	23%	34%
Not very important	2%	9%	15%
Not at all important	1%	8%	13%

5. How willing would you be to pay \$10 per month/\$15 per month more (SPLIT SAMPLE) over the next five years on your energy bills to have your energy generated from solar or wind energy, if you knew that doing so would help to reduce harmful emissions?

Overall, two-thirds (66%) say they would be at least somewhat likely to pay more each month for their energy bills if it helped reduce emissions. Women (71%) are more likely than men (62%) to be willing to pay any more. The youngest group (80%) are the most likely of their cohorts to be willing to pay more, while Democrats (81%) are more likely than Republicans (44%) or Independents (62%) to be likely to pay more. In a split sample, little differences exist across those who were willing to pay \$10 (69%) more per month versus those who were presented with \$15 per month (64%).

Chart 5



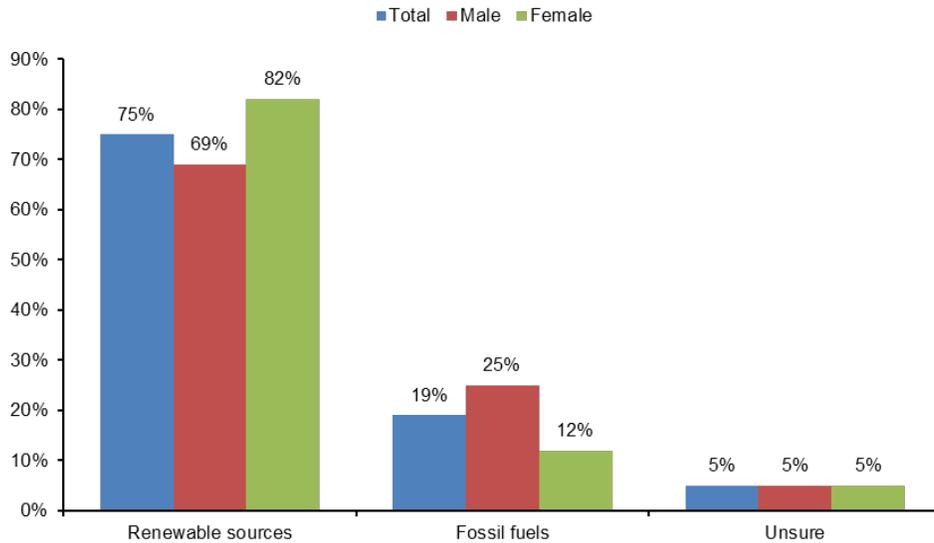
	<i>Region</i>						<i>Age</i>		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Very willing	37%	41%	36%	33%	41%	30%	47%	35%	27%
Somewhat willing	32%	34%	35%	31%	24%	29%	34%	31%	32%
Not very willing	8%	8%	8%	17%	10%	16%	7%	10%	12%
Not willing at all	20%	15%	19%	16%	24%	21%	10%	23%	27%
Unsure	3%	3%	2%	3%	1%	2%	3%	1%	3%

	<i>Party ID</i>		
	<i>Dem</i>	<i>Ind</i>	<i>Rep</i>
N=	389	101	222
Very willing	44%	36%	17%
Somewhat willing	37%	26%	27%
Not very willing	8%	8%	14%
Not willing at all	9%	27%	40%
Unsure	2%	3%	2%

6. In order to meet New Jersey's energy needs, do you believe the state should invest more in renewable energy sources, like wind and solar, or more in fossil fuels, like oil and natural gas, through the construction of additional pipelines?

Overall, 3 in 4 (75%) believe the state should invest more in renewable energy sources than in fossil fuels. While differences are seen across all measured demographics, in all cases renewable energy is the overwhelmingly favored choice.

Chart 6



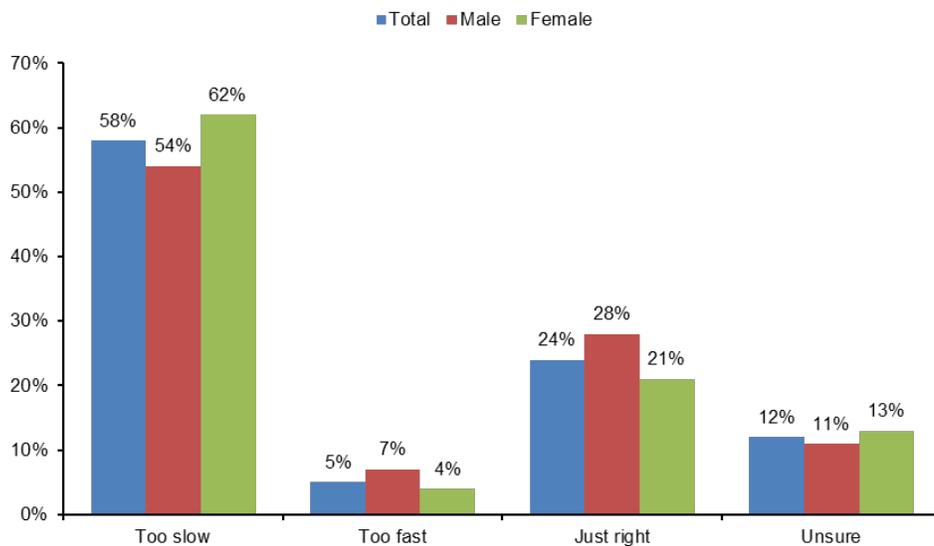
	Region						Age		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Renewable sources	76%	82%	82%	80%	69%	72%	93%	70%	70%
Fossil fuels	17%	13%	12%	15%	30%	23%	6%	23%	22%
Unsure	6%	5%	5%	4%	1%	5%	1%	6%	7%

	Party ID		
	Dem	Ind	Rep
N=	389	101	222
Renewable sources	89%	70%	54%
Fossil fuels	7%	21%	38%
Unsure	3%	8%	8%

7. How do you rate the pace at which our state is developing and adopting renewable energy alternatives?

About 3 in 5 (58%) say New Jersey is moving too slowly in its efforts toward developing clean energy alternatives. A quarter (24%) believe the state is moving at the correct pace. More Democrats (68%) than Republicans (41%) or Independents (56%) say NJ is moving too slowly. More than a third (36%) from the Coast say things are moving at the right pace.

Chart 7



	Region						Age		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Too slow	61%	65%	64%	59%	54%	53%	65%	52%	61%
Too fast	11%	2%	2%	3%	5%	3%	3%	7%	6%
Just right	16%	23%	23%	15%	30%	36%	23%	28%	22%
Unsure	12%	10%	10%	21%	11%	7%	9%	13%	11%

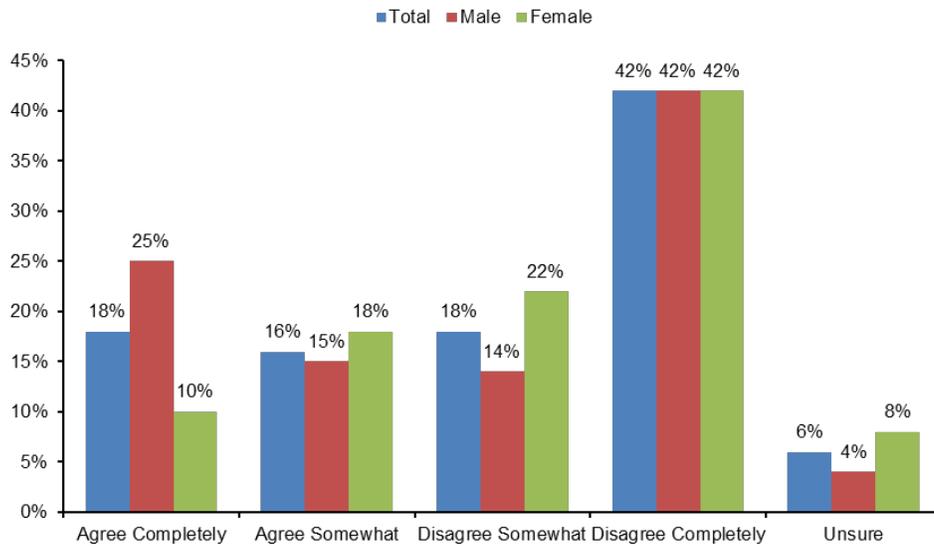
	Party ID		
	Dem	Ind	Rep
N=	389	101	222
Too slow	68%	56%	41%
Too fast	2%	10%	10%
Just right	21%	17%	35%
Unsure	9%	16%	13%



8. The federal government has recently been pushing for greater fossil fuel development, like oil and gas. Do you agree or disagree [rotate] with this energy policy?

Three in 5 (60%) disagree with the federal government’s strategy for more oil and gas development. More men (40%) than women (28%) agree with the policy. Fewer Democrats (15%) than Republicans (64%) or Independents (40%) agree.

Chart 8



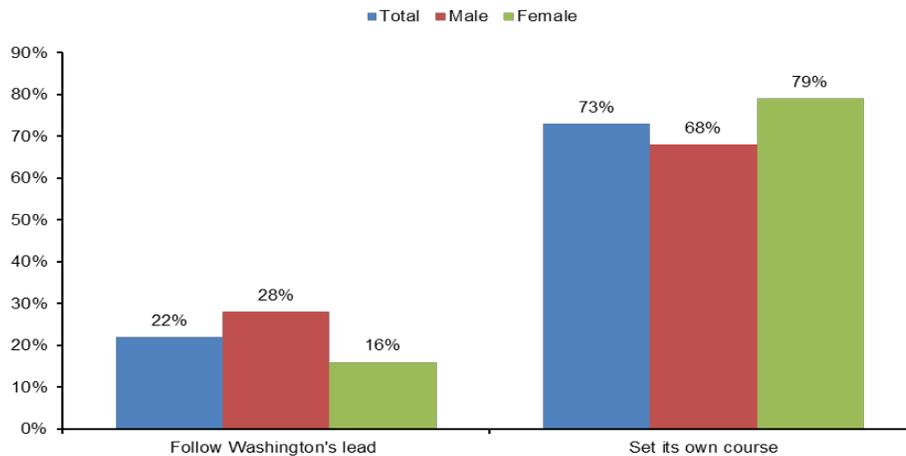
	<i>Region</i>						<i>Age</i>		
	<i>Northwest</i>	<i>Northeast</i>	<i>Urban Core</i>	<i>PennEast</i>	<i>South</i>	<i>Coast</i>	<i>18-34</i>	<i>35-59</i>	<i>60+</i>
N=	111	90	166	42	87	91	173	306	247
Agree Completely	23%	11%	10%	16%	25%	16%	6%	23%	20%
Agree	10%	18%	18%	4%	18%	18%	14%	16%	18%
Disagree Somewhat	13%	24%	20%	21%	15%	16%	23%	16%	17%
Disagree Completely	46%	46%	44%	52%	37%	43%	50%	39%	40%
Unsure	7%	2%	8%	8%	3%	5%	7%	5%	5%

	<i>Party ID</i>		
	<i>Dem</i>	<i>Ind</i>	<i>Rep</i>
N=	389	101	222
Agree Completely	6%	17%	39%
Agree	10%	23%	25%
Disagree Somewhat	22%	19%	11%
Disagree Completely	59%	32%	16%
Unsure	4%	8%	8%

9. Given the emphasis in Washington on more fossil fuels, would you say New Jersey should ...Follow Washington’s lead and invest more in oil and natural gas projects OR Set its own course, and invest more in clean, renewable energy sources?

About 3 in 4 (73%) say New Jersey should not follow Washington’s lead, and should rather set its own course in investing more in clean energy. More women (79%) than men (68%) say believe NJ should set its own course. Those in the 18-34 age bracket (81%) are more likely than those aged 35-59 (69%) to say NJ should set its own course. Similarly more Democrats (89%) than Republicans (49%) or Independents (69%) say NJ should invest more in clean energy sources.

Chart 9



	Region						Age		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Follow Washington	21%	17%	14%	28%	35%	19%	15%	27%	21%
Set Own Course	74%	77%	84%	66%	61%	77%	81%	69%	74%
Unsure	3%	6%	3%	5%	2%	2%	4%	3%	4%

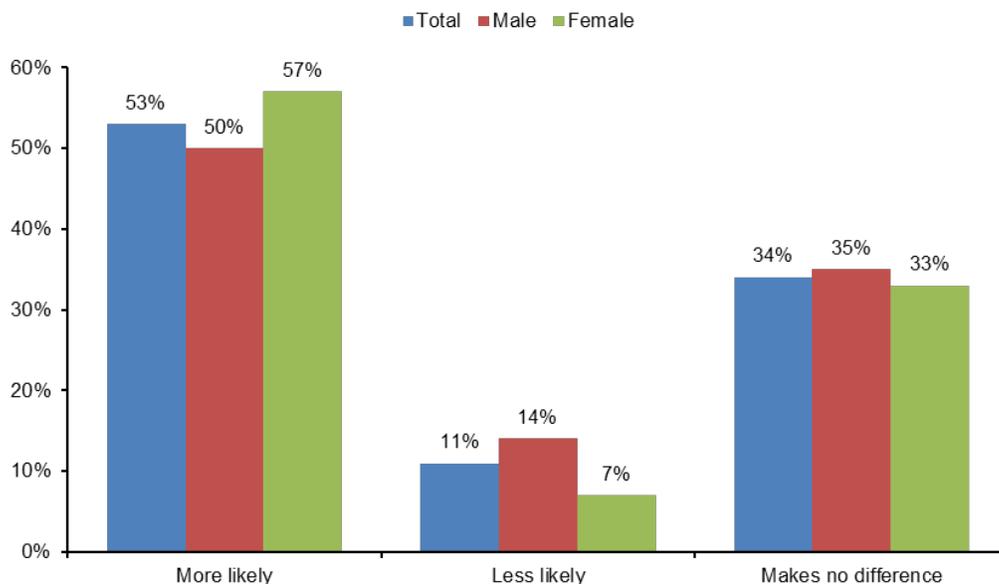
	Party ID		
	Dem	Ind	Rep
N=	389	101	222
Follow Washington	8%	22%	45%
Set Own Course	89%	69%	49%
Unsure	2%	9%	4%



10. Does a political candidate's support for moving from fossil fuels to renewable energy like solar or wind make you [Rotate more or less likely] more likely or less likely to vote for them, or does their support for renewable energy make no difference to you

About half (53%) say they would be more likely to vote for a candidate who supported moving from fossil fuels to renewable energy. Thirty-four percent say it would have no impact, while 11 percent say it would make them less likely to vote for a candidate. More Democrats (72%) than Republicans (23%) or Independents (49%) say they would be more likely to vote for a candidate. Those from the PennEast region (68%) are more likely than most of their cohorts to say a candidate's support would increase their likelihood of voting for them.

Chart 10



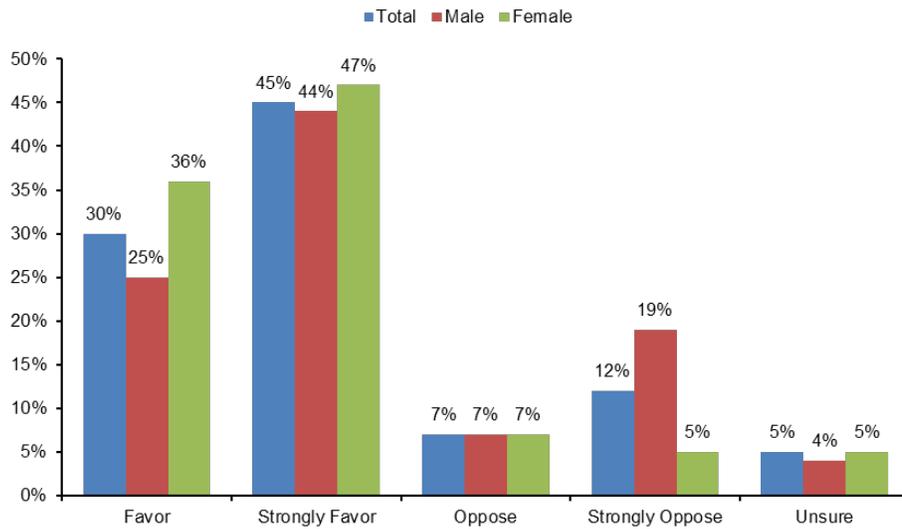
	<i>Region</i>						<i>Age</i>		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
More likely	54%	61%	52%	68%	49%	55%	69%	47%	50%
Less likely	11%	8%	9%	14%	11%	13%	5%	12%	12%
Makes no difference	33%	30%	38%	18%	35%	30%	26%	38%	35%
Unsure	2%	1%	2%	0%	4%	1%	0%	2%	2%

	<i>Party ID</i>		
	Dem	Ind	Rep
N=	389	101	222
More likely	72%	49%	23%
Less likely	6%	12%	20%
Makes no difference	21%	36%	54%
Unsure	1%	3%	3%

11. Would you favor or oppose New Jersey's setting a goal of generating 100% of its energy from renewable energy sources by 2050?

Most (75%) favor New Jersey setting a target of having 100 percent of its energy come from renewable energy sources by 2050. Those from the Urban Core (82%) and Northeast (81%), those aged 18-34 (88%) and Democrats (89%) are the most likely to favor this goal.

Chart 11



	Region						Age		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Strongly Favor	49%	50%	50%	46%	38%	41%	56%	45%	38%
Favor	26%	30%	32%	33%	29%	30%	32%	27%	32%
Oppose	4%	9%	7%	13%	8%	6%	3%	9%	9%
Strongly Oppose	12%	7%	8%	6%	17%	12%	6%	13%	15%
Unsure	7%	4%	2%	2%	7%	8%	3%	5%	6%

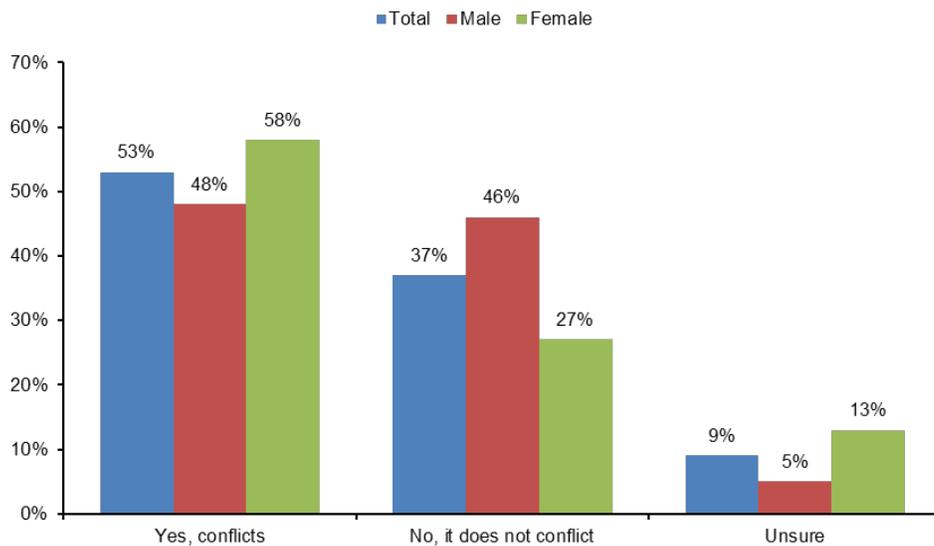
	Party ID		
	Dem	Ind	Rep
N=	389	101	222
Strongly Favor	62%	35%	21%
Favor	26%	35%	35%
Oppose	5%	6%	14%
Strongly Oppose	3%	17%	24%
Unsure	3%	7%	6%



12. New Jersey is developing a plan to achieve 100% clean energy by 2050. Do you believe building new fracked gas pipelines in New Jersey conflicts with this plan, or not?

Just over half (53%) say building new pipelines conflicts with New Jersey’s target of 100 percent of its energy come from renewable energy sources by 2050. Women (58%), those aged 18-34 (70%) and Democrats (63%) are most likely to say it conflicts.

Chart 12



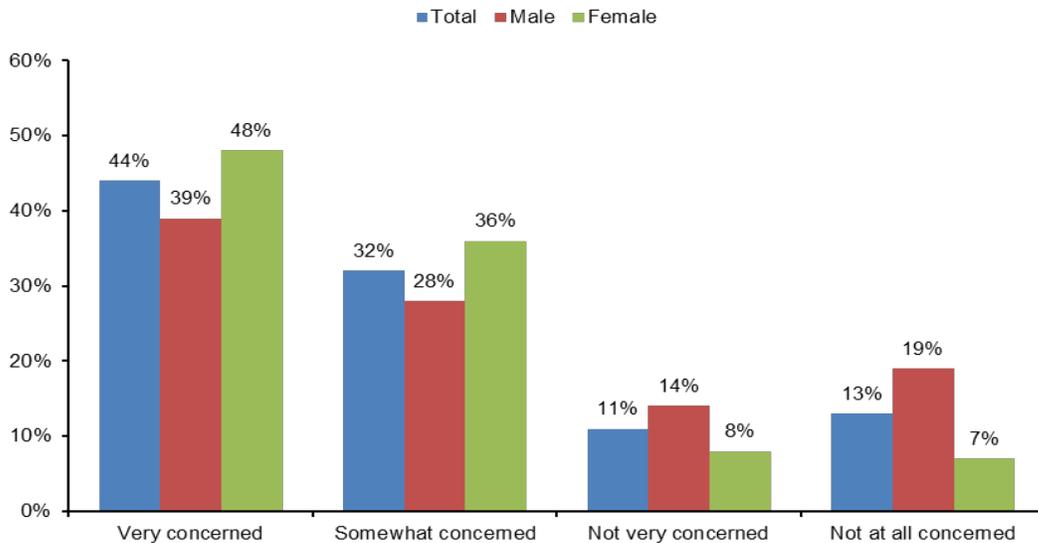
	<i>Region</i>						<i>Age</i>		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Yes, Conflicts	54%	58%	58%	65%	49%	52%	70%	47%	48%
Does Not Conflict	37%	30%	34%	31%	39%	37%	24%	42%	40%
Unsure	8%	9%	8%	2%	11%	11%	5%	10%	10%

	<i>Party ID</i>		
	<i>Dem</i>	<i>Ind</i>	<i>Rep</i>
N=	389	101	222
Yes, Conflicts	63%	50%	35%
Does Not Conflict	27%	39%	55%
Unsure	9%	10%	9%

13. How would you describe your feelings toward the effects of climate change in New Jersey?

Overall, three quarters (75%) are very or somewhat concerned with climate change in New Jersey. While the concerns are high across all demographic groups, the differences remain consistent between men (67%) and women (84%), Democrats (93%) versus Independents (74%) and Republicans (46%). Those in the South (67%) are less likely than their cohorts to be concerned.

Chart 13



	<i>Region</i>						<i>Age</i>		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Very concerned	35%	42%	54%	43%	43%	42%	44%	40%	47%
Somewhat concerned	39%	42%	28%	41%	23%	28%	40%	33%	25%
Not very concerned	11%	7%	9%	7%	16%	15%	10%	11%	13%
Not at all concerned	14%	9%	8%	9%	15%	15%	6%	16%	14%

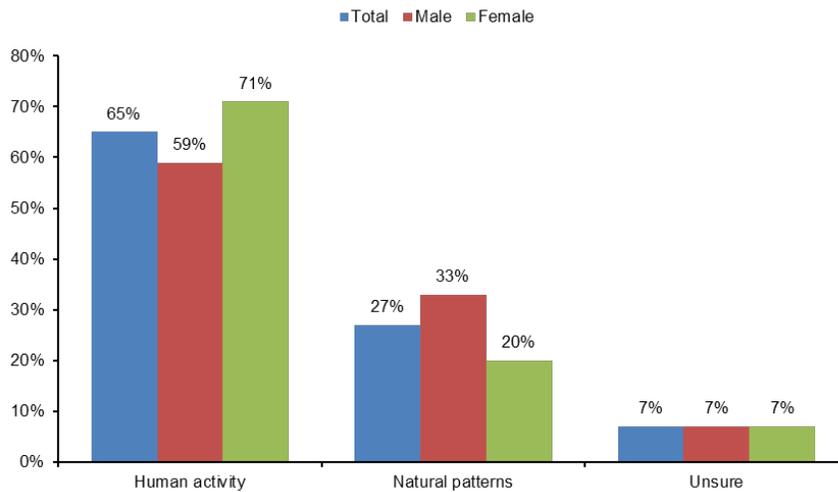
	<i>Party ID</i>		
	<i>Dem</i>	<i>Ind</i>	<i>Rep</i>
N=	389	101	222
Very concerned	64%	30%	15%
Somewhat concerned	29%	45%	31%
Not very concerned	3%	14%	23%
Not at all concerned	3%	12%	30%



14. Some people say the Earth is getting warmer because of human activity, while others say it's mostly due to natural patterns in the earth's environment. Which is closer to your view?

Overall, sixty-five percent believe the earth is getting warmer due to human activity. Greater than fifty percent of all demographic categories measured except Republicans (32%) believe human activity is the cause of the earth getting warmer. Those from the Northwest (30%) and South (36%) are more likely than those from the Northeast (18%), Urban Core (19%) and PennEast (17%) to say it is caused by natural patterns.

Chart 14



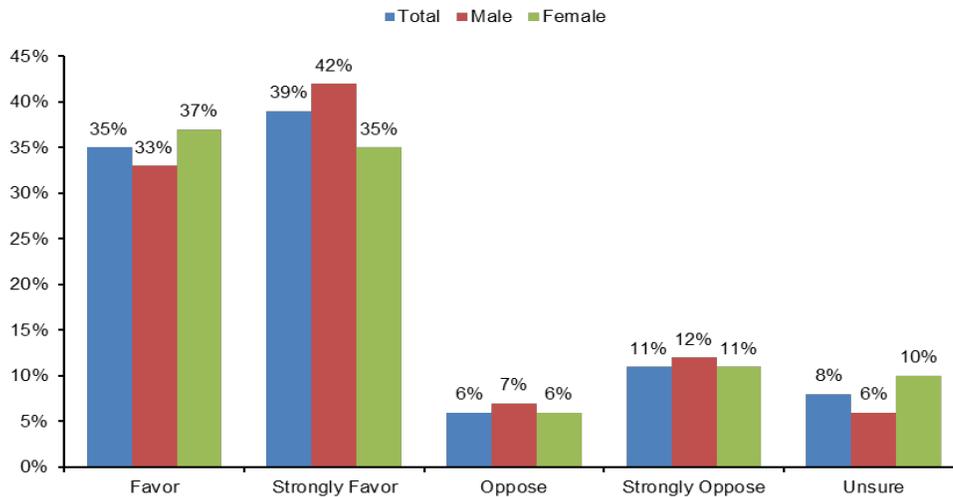
	Region						Age		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Human activity	63%	72%	74%	81%	51%	59%	79%	61%	60%
Natural patterns	30%	18%	19%	17%	36%	29%	16%	28%	32%
Unsure	6%	7%	7%	2%	9%	11%	5%	9%	7%

	Party ID		
	Dem	Ind	Rep
N=	389	101	222
Human activity	88%	51%	32%
Natural patterns	8%	29%	56%
Unsure	3%	16%	10%

15. Do you favor or oppose the development of off-shore wind energy off the coast of New Jersey?

Overall, seventy-four percent favor the development of off-shore wind energy stations off the coast of New Jersey. More from the Northeast (85%) than the South (72%) or Northwest (69%) favor it. Once again Democrats (79%) are more supportive than are Republicans (67%) or Independents (74%).

Chart 15



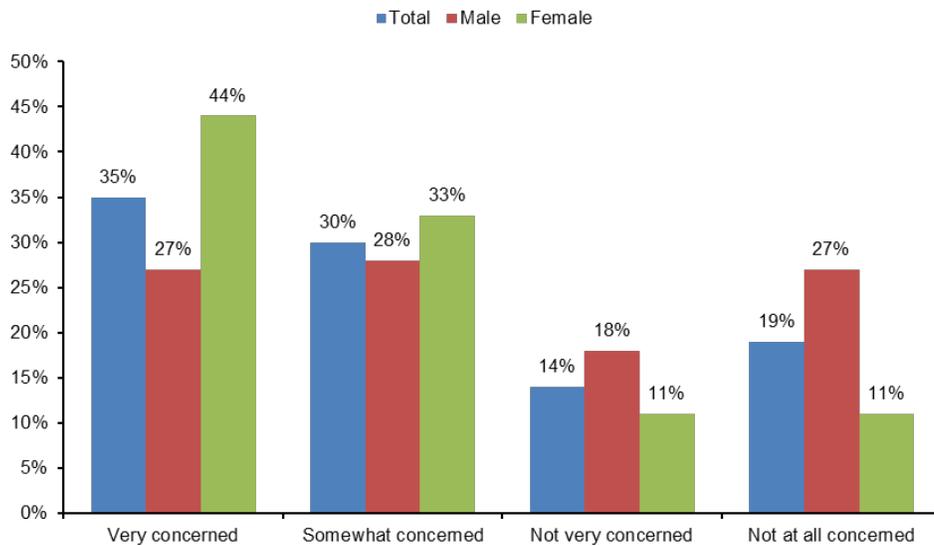
	Region						Age		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Strongly Favor	40%	40%	40%	34%	34%	44%	44%	37%	38%
Favor	29%	45%	34%	45%	38%	31%	37%	36%	32%
Oppose	7%	5%	5%	2%	11%	5%	3%	7%	8%
Strongly Oppose	17%	3%	9%	6%	9%	18%	6%	11%	15%
Unsure	6%	7%	11%	13%	6%	2%	8%	9%	6%

	Party ID		
	Dem	Ind	Rep
N=	389	101	222
Strongly Favor	46%	35%	28%
Favor	33%	37%	39%
Oppose	5%	3%	10%
Strongly Oppose	8%	16%	15%

16. There are several new gas and oil pipelines proposed across the state. How concerned are you, if at all, about their potential effect on New Jersey?

When asked a general question regarding concern about pipeline impact in New Jersey, two-thirds (65%) say they were somewhat or very concerned. Women (76%) are more concerned than men (55%), those 18-34 (75%) are more concerned than those 60+ (65%) or 34-59 (60%). Democrats (84%) are more concerned than Republicans (37%) or Independents (58%). Those from PennEast (81%) are more likely than their cohorts to be concerned.

Chart 16



	<i>Region</i>						<i>Age</i>		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Very concerned	33%	41%	40%	54%	23%	31%	39%	33%	35%
Somewhat concerned	31%	31%	32%	27%	28%	34%	35%	27%	30%
Not very concerned	17%	12%	16%	8%	14%	14%	12%	15%	15%
Not at all concerned	16%	17%	12%	11%	34%	22%	11%	23%	19%
Not sure	2%	0%	1%	0%	1%	0%	1%	1%	1%

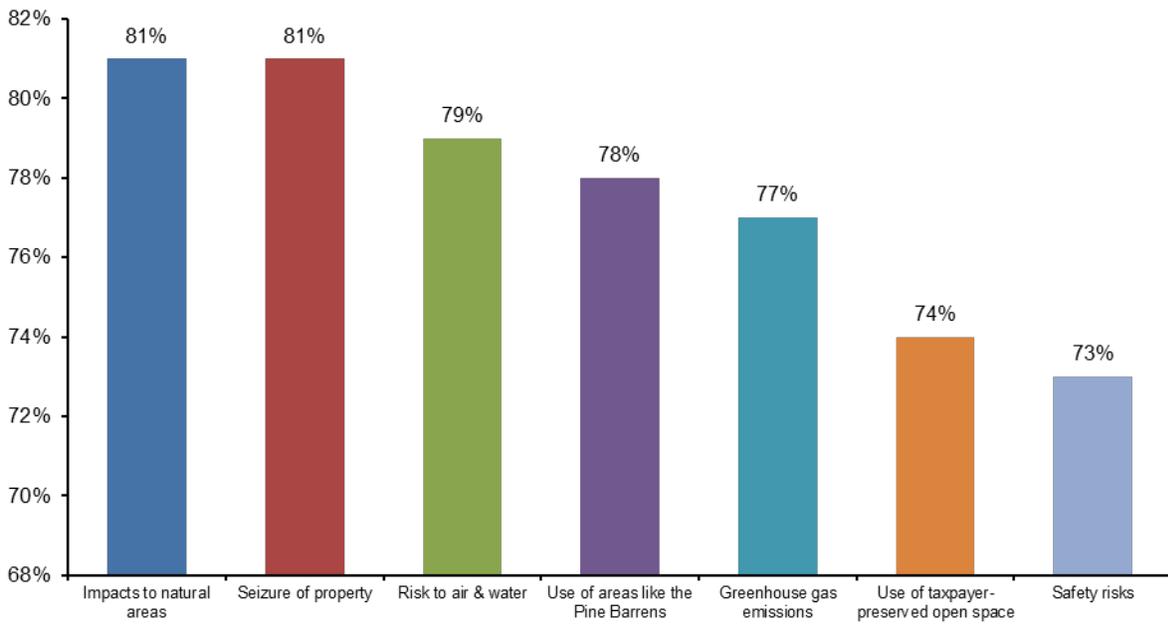
	<i>Party ID</i>		
	<i>Dem</i>	<i>Ind</i>	<i>Rep</i>
N=	389	101	222
Very concerned	49%	28%	13%
Somewhat concerned	35%	30%	24%
Not very concerned	7%	18%	25%
Not at all concerned	7%	22%	38%
Not sure	1%	2%	0%

17. Concern about the pipeline SUMMARY

Overall, nearly three-quarters or more of New Jerseyans are at least somewhat concerned with the seven specific potential issues tested regarding the proposed pipelines. The seizure of private property for big energy companies (81%), and the impact to natural areas and wildlife habitats (81%), continue as the top two areas of concern. Risks to air and water quality (79%), use of areas such as the Pine Barrens (78%), and the concern over greenhouse gas emissions (77%) all rated just behind the top two.

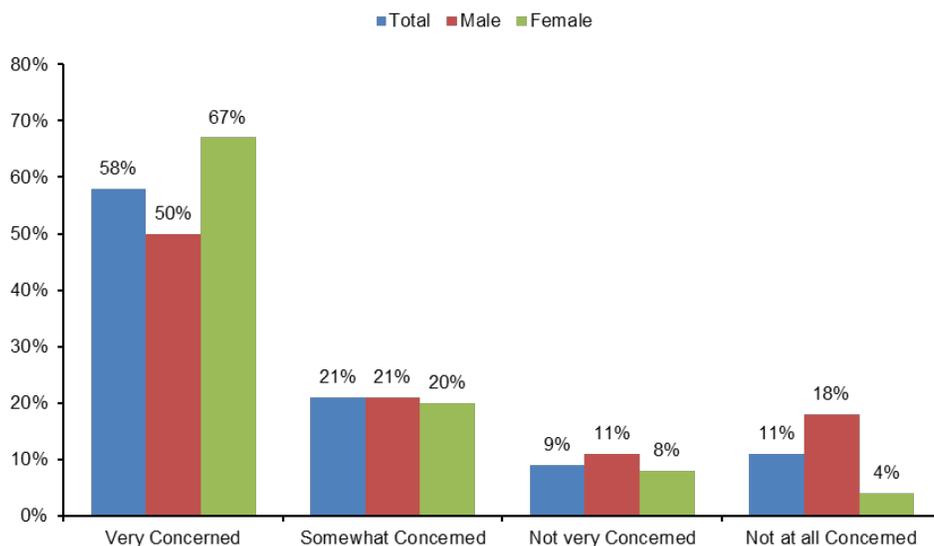
Once again, this year more women than men expressed concern on all items. Similarly, Democrats continue to be more concerned than Republicans or Independents across all items.

Chart 17



17a. Concern about the pipeline development to: The risks to air and water quality

Chart 18

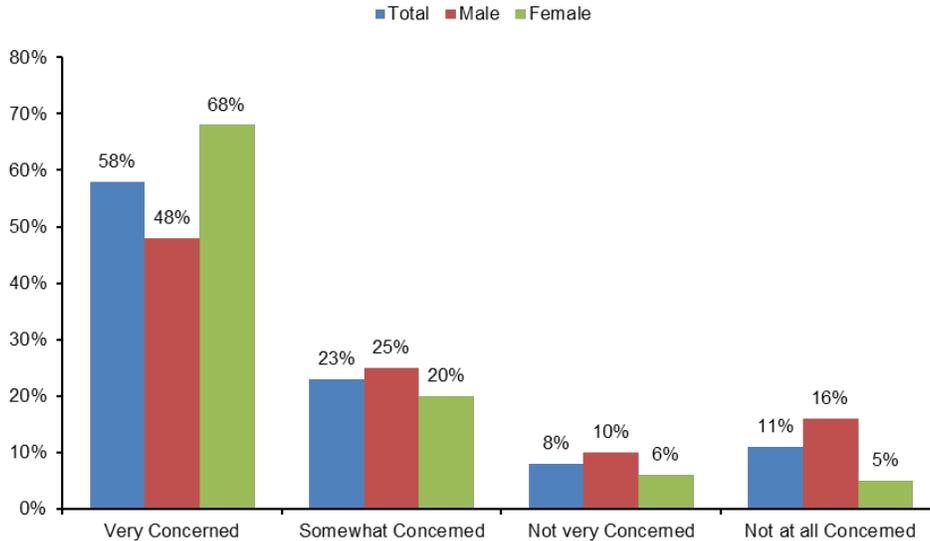


	Region						Age		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Very Concerned	59%	64%	67%	61%	50%	56%	68%	58%	53%
Somewhat Concerned	21%	22%	16%	18%	25%	21%	21%	19%	21%
Not Very Concerned	10%	5%	5%	17%	11%	8%	6%	9%	11%
Not at all Concerned	11%	8%	11%	4%	12%	13%	4%	13%	13%

	Party ID		
	Dem	Ind	Rep
N=	389	101	222
Very Concerned	77%	48%	31%
Somewhat Concerned	16%	28%	27%
Not Very Concerned	3%	12%	18%
Not at all Concerned	4%	11%	23%

17b. Concern about the pipeline development to: The impact to natural areas and wildlife habitats?

Chart 19

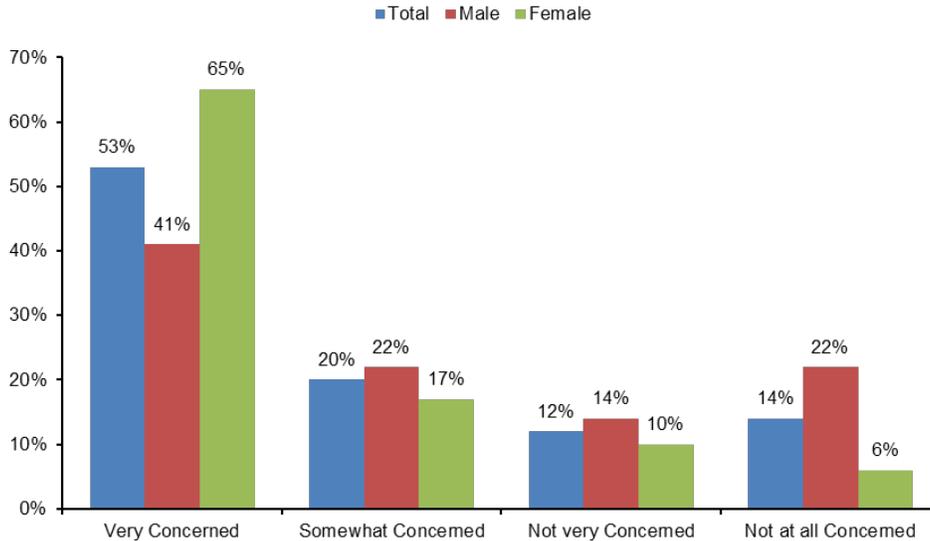


	<i>Region</i>						<i>Age</i>		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Very Concerned	60%	59%	61%	67%	56%	53%	70%	55%	52%
Somewhat Concerned	20%	23%	27%	19%	21%	26%	21%	23%	24%
Not Very Concerned	7%	6%	6%	9%	10%	8%	4%	8%	11%
Not at all Concerned	12%	9%	7%	6%	14%	13%	4%	13%	11%

	<i>Party ID</i>		
	<i>Dem</i>	<i>Ind</i>	<i>Rep</i>
N=	389	101	222
Very Concerned	74%	55%	32%
Somewhat Concerned	20%	27%	27%
Not Very Concerned	3%	7%	17%
Not at all Concerned	4%	10%	22%

17c. Concern about the pipeline development to: The safety risks associated with ruptures, leaks, or explosions?

Chart 20

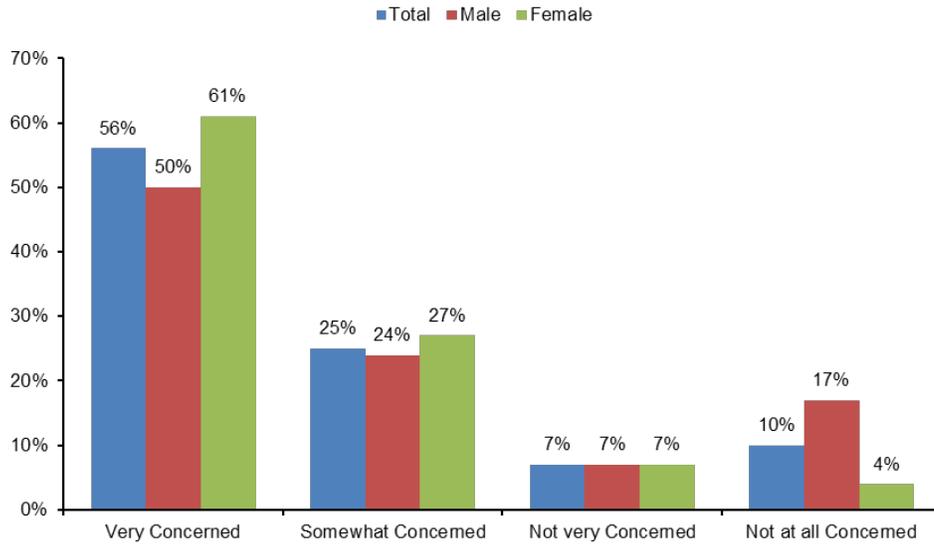


	<i>Region</i>						<i>Age</i>		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Very Concerned	51%	57%	60%	55%	50%	50%	59%	51%	50%
Somewhat Concerned	19%	21%	22%	15%	18%	19%	21%	20%	20%
Not Very Concerned	16%	12%	5%	23%	16%	11%	10%	12%	14%
Not at all Concerned	14%	9%	12%	6%	15%	20%	10%	16%	15%

	<i>Party ID</i>		
	<i>Dem</i>	<i>Ind</i>	<i>Rep</i>
N=	389	101	222
Very Concerned	70%	51%	26%
Somewhat Concerned	18%	19%	23%
Not Very Concerned	6%	16%	21%
Not at all Concerned	5%	13%	30%

17d. Concern about the pipeline development to: The seizure of private property for big energy companies?

Chart 21

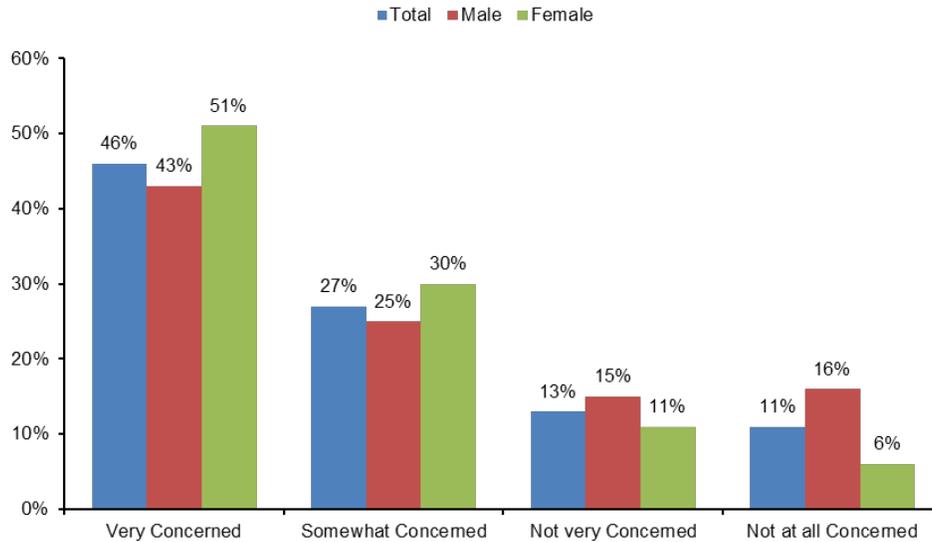


	Region						Age		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Very Concerned	54%	58%	55%	69%	48%	60%	52%	54%	60%
Somewhat Concerned	30%	23%	26%	21%	30%	17%	32%	24%	24%
Not Very Concerned	6%	11%	6%	4%	6%	8%	8%	6%	7%
Not at all Concerned	9%	7%	10%	6%	16%	14%	5%	15%	8%

	Party ID		
	Dem	Ind	Rep
N=	389	101	222
Very Concerned	65%	58%	38%
Somewhat Concerned	26%	23%	29%
Not Very Concerned	4%	11%	11%
Not at all Concerned	5%	8%	20%

17e1. Concern about the pipeline development to: The use of taxpayer-preserved open space for construction of pipelines?

Chart 22

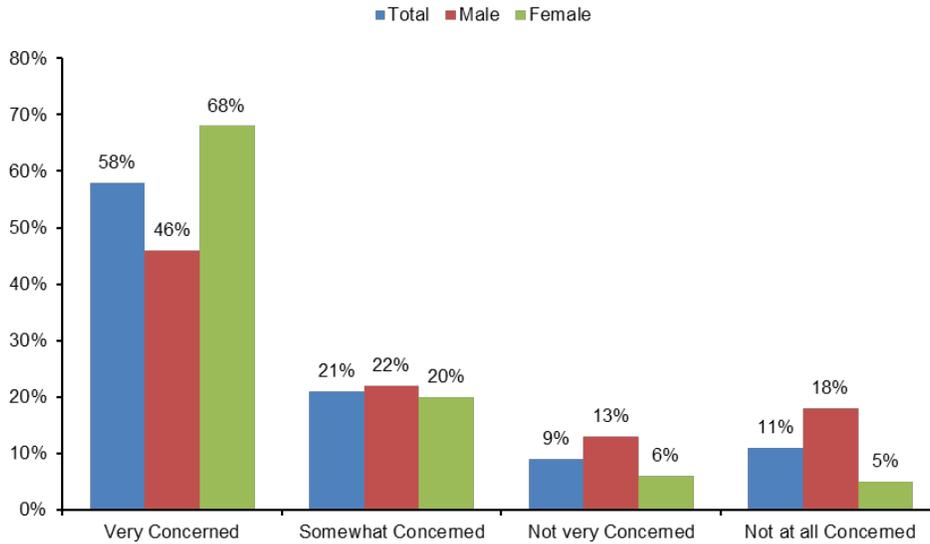


	<i>Region</i>						<i>Age</i>		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	57	46	83	19	47	41	87	147	132
Very Concerned	43%	48%	52%	46%	44%	42%	52%	44%	44%
Somewhat Concerned	22%	23%	27%	38%	31%	28%	23%	28%	30%
Not Very Concerned	22%	19%	11%	17%	10%	8%	17%	13%	10%
Not at all Concerned	4%	9%	11%	0%	14%	20%	6%	14%	12%
Unsure	9%	0%	0%	0%	2%	2%	1%	1%	4%

	<i>Party ID</i>		
	<i>Dem</i>	<i>Ind</i>	<i>Rep</i>
N=	201	55	108
Very Concerned	64%	38%	19%
Somewhat Concerned	25%	30%	30%
Not Very Concerned	5%	18%	23%
Not at all Concerned	4%	14%	24%
Unsure	1%	0%	4%

17e2. Concern about the pipeline development to: The use of protected natural areas such as the Pine Barrens for the construction of pipelines?

Chart 22

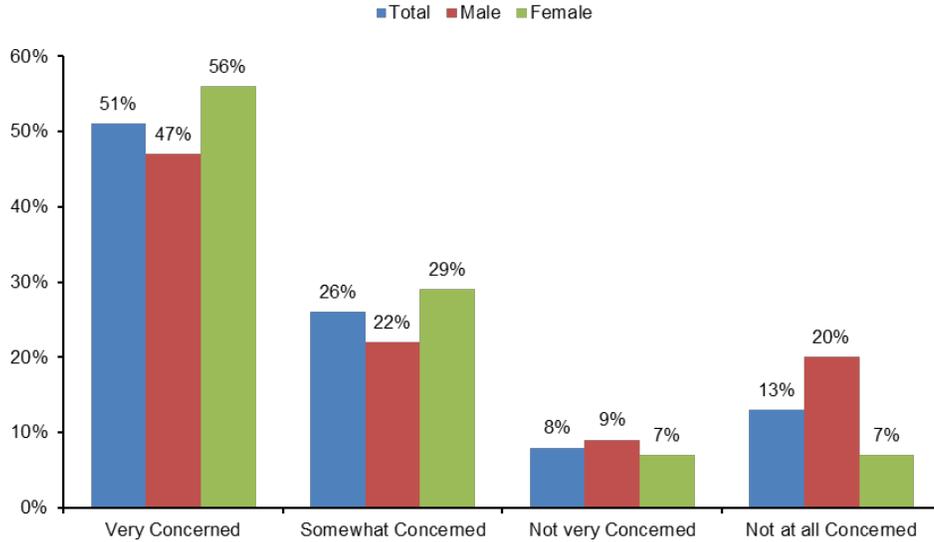


	<i>Region</i>						<i>Age</i>		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	54	45	83	23	40	50	86	158	115
Very Concerned	57%	56%	67%	73%	50%	58%	69%	54%	53%
Somewhat Concerned	22%	27%	14%	14%	30%	25%	14%	27%	19%
Not Very Concerned	4%	9%	9%	10%	8%	5%	8%	7%	13%
Not at all Concerned	17%	8%	8%	3%	11%	12%	6%	12%	14%

	<i>Party ID</i>		
	<i>Dem</i>	<i>Ind</i>	<i>Rep</i>
N=	188	46	114
Very Concerned	72%	66%	32%
Somewhat Concerned	21%	13%	26%
Not Very Concerned	3%	5%	19%
Not at all Concerned	4%	15%	22%

17f. Concern about the pipeline development to: Greenhouse gas emissions that contribute to climate change?

Chart 23



	Region						Age		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Very Concerned	52%	59%	62%	48%	44%	50%	55%	51%	48%
Somewhat Concerned	20%	26%	21%	33%	31%	26%	29%	24%	26%
Not Very Concerned	9%	6%	7%	9%	10%	7%	7%	7%	10%
Not at all Concerned	15%	10%	9%	8%	15%	15%	8%	17%	13%
Unsure	3%	0%	1%	2%	0%	1%	1%	1%	3%

	Party ID		
	Dem	Ind	Rep
N=	389	101	222
Very Concerned	74%	38%	17%
Somewhat Concerned	20%	40%	30%
Not Very Concerned	2%	9%	19%
Not at all Concerned	4%	13%	30%
Unsure	1%	0%	4%

18. If you had to choose from the following statements, which comes closest to your view?

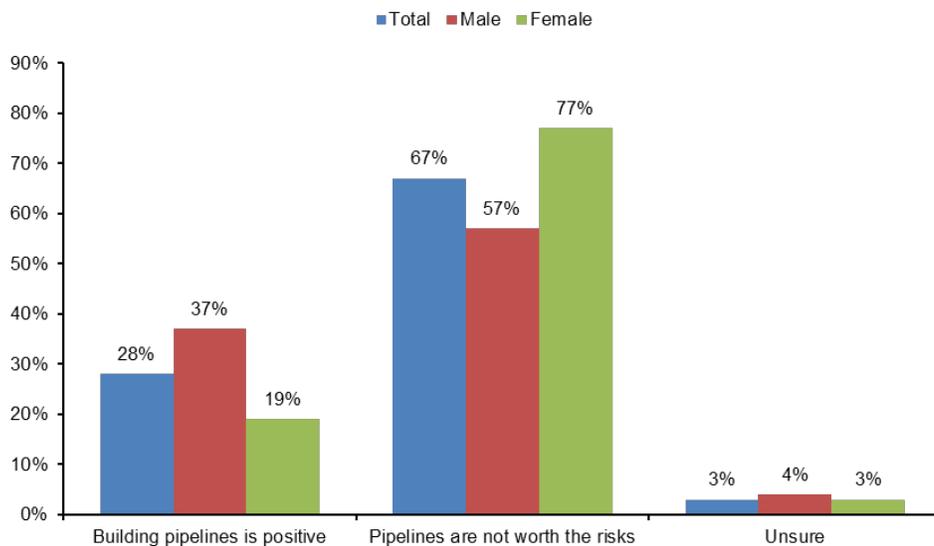
Building pipelines will create many much-needed construction jobs that New Jersey workers and families will benefit from.

or

The number of jobs created through pipelines are not worth the environmental and health risks, and we should instead create jobs through clean, renewable energy projects.

By more than a two to one margin, New Jerseyans believe the number of potential jobs pipelines may create do not outweigh their potential risks. Sixty-seven percent chose that statement, while only 28 percent chose pipelines will create much-needed jobs. In all demographics measured other than Republicans, more than half said the potential jobs created were not worth the associated risks. Republicans and Democrats were opposite in their selections, with more Republicans (59%) saying pipelines create much-needed jobs, while more Democrats (86%) said the jobs are not worth the risks. Southern residents (40%) are more likely than their cohorts to say pipelines create much-needed jobs.

Chart 24



2018 ATTITUDES ON ENERGY IN NEW JERSEY SURVEY

	<i>Region</i>						<i>Age</i>		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Pipelines create jobs	24%	22%	24%	25%	40%	32%	18%	29%	35%
Pipeline jobs are not worth the risks	71%	73%	74%	67%	57%	64%	78%	67%	59%
Unsure	5%	5%	2%	2%	2%	1%	3%	2%	5%

	<i>Party ID</i>		
	<i>Dem</i>	<i>Ind</i>	<i>Rep</i>
N=	389	101	222
Pipelines create jobs	12%	25%	59%
Pipeline jobs are not worth the risks	86%	65%	36%
Unsure	1%	10%	4%

19. If you had to choose from the following statements, which comes closest to your view?

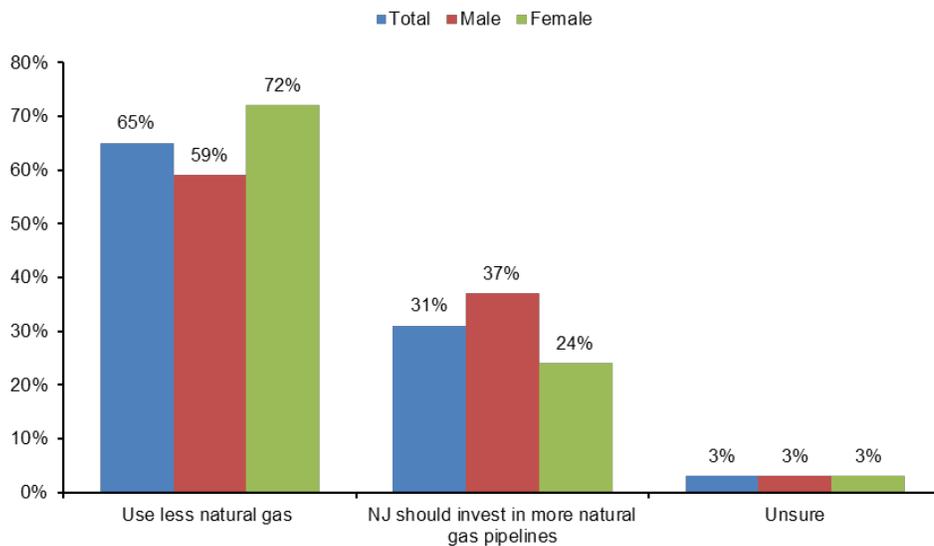
Moving to a clean energy future will require that New Jersey use less natural gas and increase our use of renewable sources of energy.

OR

New Jersey should invest in more natural gas pipelines as it moves to a clean energy future because the state will utilize more natural gas.

Most New Jerseyans (65%) say that moving to a clean energy future will require the use of less natural gas. Fewer (31%) believe New Jersey should invest more in pipelines as it moves towards a clean energy future. More women (72%) than men (59%), more Democrats (79%) than Republicans (39%) or Independents (69%), and more aged 18-34 (74%) than their cohorts say New Jersey will use less natural gas. Those from the South (45%) are more likely than their cohorts to say New Jersey should invest more in pipelines as it moves towards a clean energy future.

Chart 25



2018 ATTITUDES ON ENERGY IN NEW JERSEY SURVEY

	<i>Region</i>						<i>Age</i>		
	Northwest	Northeast	Urban Core	PennEast	South	Coast	18-34	35-59	60+
N=	111	90	166	42	87	91	173	306	247
Use less natural gas	67%	71%	73%	70%	52%	62%	74%	64%	60%
Invest in pipelines	28%	25%	26%	28%	45%	34%	25%	32%	33%
Unsure	5%	4%	1%	0%	2%	3%	1%	3%	5%

	<i>Party ID</i>		
	Dem	Ind	Rep
N=	389	101	222
Use less natural gas	79%	69%	39%
Invest in pipelines	18%	24%	56%
Unsure	2%	6%	4%

III. Sample Characteristics

Gender

Male	51%
Female	49%

Age

18-34	24%
35-59	42%
60+	34%
Refused	1%

Party ID

Democrat	53%
Republican	30%
Independent	14%
Other/Refused	3%

Region

Northwest	19%
Northeast	15%
Urban Core	28%
PennEast	7%
South	15%
Coast	16%

- ¹ **Northwest:** Morris, Somerset, Sussex, and Warren Counties
Northeast: Bergen and Passaic Counties
Urban Core: Essex, Hudson, Middlesex, and Union Counties
PennEast: Hunterdon, and Mercer Counties
South: Burlington, Camden, Cumberland, Gloucester, and Salem Counties
Coast: Atlantic, Cape May, Monmouth, and Ocean Counties

Education

Some HS	0%
High school	11%
Some college or Community college	22%
Graduated from a 4 year college	35%
Graduate school	31%

Employment

Full-time	55%
Part-time	12%
Retired	25%
Not employed outside the home	7%

Ethnicity

White	69%
African American	14%
Hispanic/Latino	13%
Asian	3%
Other	0%
Ref	1%

Interview Completed Via:

Land-line phone	55%
Cell phone	45%

APPENDIX A

Questionnaire

2018 ReThink Energy NJ Questions

CPS2. For your safety, are you currently driving?

- 1 Yes SET TIME TO CALL BACK
- 2 No (Skip to SCR1)
- 3 Don't Know THANK AND TERMINATE
- 4 Refused THANK AND TERMINATE

SCR1. To begin, do you reside in New Jersey?

- 1 Yes
- 2 No/DK (THANK AND TERMINATE)

SCR2. Are you over 18?

- 1 Yes
- 2 No/DK (THANK AND TERMINATE)

SCR3. ...and currently registered to vote at this address?

- 1 Yes
- 2 No/DK (THANK AND TERMINATE)

Q1. How closely do you follow news about the various ways that people in New Jersey power their homes and businesses?

- 1 Very closely
- 2 Somewhat closely
- 3 Not at all closely
- 8 DK (vol)
- 9 Refused (vol)

Q2. Which source do you think is most important to New Jersey's energy future? **(Rotate, Read List, stop when respondent indicates a choice)**

- 1 Solar
- 2 Wind
- 3 Natural gas
- 4 Oil
- 5 Nuclear
- 6 Coal
- 7 Other (vol) [specify]
- 8 DK (vol)
- 9 Refused (vol)

Q3. Which of the following do you believe are clean energy sources? (**Read List and rotate order**)

[Check all that apply]

- 1 Solar
- 2 Wind
- 3 Natural gas
- 4 Oil
- 5 Nuclear
- 6 Coal

Q4. How important, if at all, do you believe investing in renewable energy sources, like wind and solar, is to the overall health of New Jersey?

- 1 Very important
- 2 Somewhat important
- 3 Not very important
- 4 Not at all important
- 8 DK (vol)
- 9 Refused (vol)

Q5. How willing would you be to pay \$10 per month/\$15 per month more (**SPLIT SAMPLE**) over the next five years on your energy bills to have your energy generated from solar or wind energy, if you knew that doing so would help to reduce harmful emissions?

- 1 Very willing
- 2 Somewhat willing
- 3 Not very willing
- 4 Not willing at all

Q6. In order to meet New Jersey's energy needs, do you believe the state should invest more in renewable energy sources, like wind and solar, or more in fossil fuels, like oil and natural gas, through the construction of additional pipelines? (**Rotate**)

- 1 Renewable sources
- 2 Fossil fuels
- 8 DK (vol)
- 9 Refused (vol)

Q7. How do you rate the pace at which our state is developing and adopting renewable energy alternatives? Would you say it is...(**Rotate**)

- 1 Too slow
- 2 Too fast
- 3 Just right
- 8 DK (vol)
- 9 Refused (vol)

Q8. The federal government has recently been pushing for greater fossil fuel development, like oil and gas. Do you agree or disagree [**rotate**] with this energy policy?

- 1 Agree Completely
- 2 Agree Somewhat
- 3 Disagree Somewhat



Disagree Completely

Q9. Given the emphasis in Washington on more fossil fuels, would you say New Jersey should ... **(ROTATE)**
(READ LIST)

Follow Washington's lead and invest more in oil and natural gas projects

OR

Set its own course, and invest more in clean, renewable energy sources

Q10. Does a political candidate's support for moving from fossil fuels to renewable energy like solar or wind make you [**Rotate more or less likely**] more likely or less likely to vote for them, or does their support for renewable energy make no difference to you?

- 1 More likely
- 2 Less likely
- 3 Makes no difference
- 8 DK (vol)
- 9 Refused (vol)

Q11. Would you favor or oppose [**rotate**] New Jersey setting a goal of generating 100% of its energy from renewable energy sources by 2050?

- 1. Favor
- 2. Strongly Favor
- 3. Oppose
- 4. Strongly Oppose
- 8. DK (vol)
- 9. Refused (vol)

Q12. New Jersey is developing a plan to achieve 100% clean energy by 2050. Do you believe building new fracked gas pipelines in New Jersey conflicts with this plan, or not?

- 1 Yes, conflicts
- 2 No, it does not conflict

Q13. How would you describe your feelings toward the effects of climate change on New Jersey? Are you...

- 1 Very concerned
- 2 Somewhat concerned
- 3 Not very concerned
- 4 Not at all concerned
- 8 DK (vol)
- 9 Refused (vol)

Q14. Some people say the Earth is getting warmer because of human activity, while others say it's mostly due to natural patterns in the earth's environment. Which is closer to your view? [rotate]

- 1 Human activity
- 2 Natural patterns
- 8 DK (vol)
- 9 Ref (vol)

Q15. Do you favor or oppose the development of off-shore wind energy off the coast of New Jersey?

- 1. Favor
- 2. Strongly Favor
- 3. Oppose
- 4. Strongly Oppose
- 8. DK (vol)
- 9. Refused (vol)

Q16. There are several new natural gas pipelines proposed across the state. How concerned are you, if at all, about their potential effect on New Jersey? Are you...

- 1 Very concerned
- 2 Somewhat concerned
- 3 Not very concerned
- 4 Not at all concerned
- 8 DK (vol)
- 9 Refused (vol)

Q17. And, in general, how would you describe your feelings toward each of the following potential consequences of pipeline development in New Jersey? [Rotate Q17A through Q17F]

- Q17A The risks to air and water quality
- Q17B The impact to natural areas and wildlife habitats
- Q17C The safety risks associated with ruptures, leaks, or explosions
- Q17D The seizure of private property by big energy companies for gas pipeline projects.

(SPLIT Sample 17E1 and 17E2)

- Q17E1 The use of taxpayer-preserved open space for construction of pipelines
- Q17E2 The use of protected natural areas such as the Pinelands for the construction of pipelines
- Q17 F Greenhouse gas emissions that contribute to climate change

- 1 Very concerned
- 2 Somewhat concerned
- 3 Not very concerned
- 4 Not at all concerned
- 8 DK (vol)
- 9 Refused (vol)

Q18 If you had to choose from the following statements, which comes closest to your view? [rotate]:

Building pipelines will create many much-needed construction jobs that New Jersey workers and families will benefit from.

Or

The number of jobs created by pipeline construction projects are not worth the environmental and health risks, and we should instead create jobs through clean, renewable energy projects.



Q19 If you had to choose from the following statements, which comes closest to your view? [rotate]:

Moving to a clean energy future will require that New Jersey use less natural gas and increase our use of renewable sources of energy.

OR

New Jersey should invest in more natural gas pipelines as it moves to a clean energy future because the state will utilize more natural gas.

Finally, just some questions about yourself...

D1 Regardless of who you might vote for, do you consider yourself a....**ROTATE...**
Democrat, a Republican, or an Independent?

- 1 Democrat
- 2 Republican
- 3 Independent [**If Independent, ask D1b**]
- 4 Other [DON'T READ]
- 8 Don't Know [DON'T READ]
- 9 Ref [DON'T READ]

D1b Which way do you lean?

- 1 Democrat
- 2 Republican
- 3 Neither
- 8 DK (Vol)

D2. And what's the highest level of education you've completed so far...**PROMPT UNTIL ANSWERED ?**

- 1 Some high school
- 2 High school
- 3 Some college or graduated from a community college
- 4 Graduated from a four-year college
- 5 Graduate school
- 8 DK (vol)
- 9 Ref (vol)

D3. Are you currently employed full time, part time, or are you retired or not employed?
outside the home?

- 1 FT Ask D4A
- 2 PT Ask D4A
- 3 Retired
- 4 Not employed outside the home
- 8 DK (vol)
- 9 Ref (vol)

D4. Gender (from observation)

- 1 Male
- 2 Female



D5. County code [**break by region**]

D6. What year were you born?

IF REF, ASK “which age group do you fall into... 18-34, 35-59, 60+ ?

D7. In addition to being American, would you say you’re... ? [Prompt as necessary]

1 White [INTERVIEWER INCLUDE: Irish, German, Polish, Italian, and all Europeans]

2 African-American/black

3 Asian-American [INCLUDES: Indian, Pakistani, Indian, Arab, Chinese, Japanese, etc.]

4 Hispanic/Latin American

5 Other [vol]

9 Ref.

PROMPT: THANKS SO MUCH FOR YOUR TIME...