

Q11. (Please skip if you selected "not an issue at all" in Q9) Has your jurisdiction adopted, or is it likely to adopt, any tax or other incentives, moratoria, ordinances or zoning codes, etc., that attempt to promote, restrict, or simply regulate wind turbines within your jurisdiction?

	Have Adopted	Likely to Adopt	Neither Adopted Nor Likely to Adopt	Don't Know
Offer tax or other incentives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A local moratorium and/or ban on wind turbines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other local ordinances and/or zoning codes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intergovernmental agreements with neighboring jurisdictions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q12. (Please skip if you selected "not an issue at all" in Q9) We're interested in factors that may be encouraging or discouraging the use of wind turbines in jurisdictions across the state now or in the last few years. Whether or not your community currently has any wind turbines, to what degree would you say the following items have been encouraging or discouraging the use of wind turbines within your jurisdiction?

	Significantly Encouraging	Somewhat Encouraging	Mixed Encouraging and Discouraging	Somewhat Discouraging	Significantly Discouraging	Not a Factor	Don't Know
Potential visual or noise impacts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Road construction, use, damage, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Impact on property values	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Community organizations active on wind energy issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Business proposals to establish wind farms or utility-scale turbines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Connecting turbines to the electrical grid	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local job creation and/or economic development	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Revenue for land-owners	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local property tax revenue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Depreciation tables for wind turbines set by the State Tax Commission	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preservation of farmland	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wind speed and reliability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q13. (Please skip if you selected "not an issue at all" in Q9) Are there any additional issues regarding wind energy in your jurisdiction that you think others would benefit from understanding? If so, please describe the issue(s) below.

Q14. Wind turbines are sometimes regulated in terms of their location, height, setbacks, and so on. For each of the following entities, please indicate whether you think they should have a great deal of authority, some authority, or no authority for such decisions regarding wind turbines.

	A Great Deal of Authority	Some Authority	No Authority	Don't Know
The federal government	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State governments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local governments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land-owners	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q15. Now we want to turn to issues of oil and natural gas extraction in Michigan. Of course, Michigan has a long history of oil and gas extraction by traditional methods of drilling wells vertically. As far as you know, is there any history of oil or gas extractions using traditional methods within your jurisdiction? *(check all that apply)*

- Yes, currently active traditional wells
- Yes, but now inactive traditional wells
- No, no history of traditional oil and gas extraction at all
- Don't Know

Q16. Recent attention has focused on the extraction of natural gas through hydraulic fracturing and horizontal drilling of underground shale deposits, using high volumes of fluid to break the rock. This is sometimes called "fracking," and we use these terms interchangeably throughout this section to refer to high-volume hydraulic fracturing.

How familiar would you say you are with hydraulic fracturing?

- Very familiar — I know a great deal about it
- Somewhat familiar — I have heard of it, and understand it fairly well, but don't know many details
- Mostly unfamiliar — I have heard of it, but know very little about it
- Completely unfamiliar — I have never heard of it before *(if you select "completely unfamiliar," please skip to Q25)*
- Don't Know

Q17. *(Please skip if you selected "completely unfamiliar" in Q16)* As far as you know, in your area, are there currently any hydraulic fracturing operations used for extracting natural gas and/or efforts to add or expand such fracking operations? *(check all that apply)*

	Currently have	Efforts to add/expand	No, Neither	Don't Know
Within your jurisdiction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
In neighboring jurisdictions that may impact your jurisdiction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q18. *(Please skip if you selected "completely unfamiliar" in Q16)* As far as you know, in the last few years have there been any proposals that did not move forward regarding fracking operations within your jurisdiction (or in neighboring jurisdictions that may have impacted your jurisdiction)?

- Yes
- No
- Don't Know

Q19. *(Please skip if you selected "completely unfamiliar" in Q16)* To what extent, if at all, would you say current or potential fracking within your jurisdiction is a topic of discussion, either in the community at large or within your jurisdiction's government?

- It's a major issue, fracking has been discussed extensively within my jurisdiction.
- It's a minor issue, fracking has been discussed, but not extensively.
- Not an issue at all, there has not been any discussion of fracking within my jurisdiction now or in the recent past. *(if you select "not an issue at all," please skip to Q24)*
- Don't Know

Q20. *(Please skip if you selected "not an issue at all" in Q19)* We are interested in sources of support or opposition to the use of hydraulic fracturing in your community. In your opinion, do the following people or groups either support or oppose the use of fracking in your jurisdiction?

	Strongly Support	Somewhat Support	Neither Support Nor Oppose	Somewhat Oppose	Strongly Oppose	Don't Know
The majority of your jurisdiction's Council/Board	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The majority of your jurisdiction's citizens	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
You as a jurisdiction official	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q21. *(Please skip if you selected "not an issue at all" in Q19)* Has your jurisdiction adopted, or is it likely to adopt, any tax or other incentives, moratoria, ordinances or zoning codes, etc., that attempt to promote, restrict, or simply regulate hydraulic fracturing in your jurisdiction?

	Have Adopted	Likely to Adopt	Neither Adopted Nor Likely to Adopt	Don't Know
Offer tax or other incentives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A local moratorium and/or ban on hydraulic fracturing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other local ordinances and/or zoning codes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Intergovernmental agreements with neighboring jurisdictions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q22. (Please skip if you selected "not an issue at all" in Q19) We're interested in factors that may be encouraging or discouraging the use of hydraulic fracturing in jurisdictions across the state now or in the last few years. Whether or not your community currently has any fracking operations, to what degree would you say the following items have been encouraging or discouraging the use of fracking within your jurisdiction?

	Significantly Encouraging	Somewhat Encouraging	Mixed Encouraging and Discouraging	Somewhat Discouraging	Significantly Discouraging	Not a Factor	Don't Know
Local job creation and/or economic development	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lower energy prices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potential environmental damage linked to fracking operations, such as spills, leaks, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potential environmental benefits from cleaner-burning natural gas instead of coal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potential risks to citizens' health	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Potential risks to water resources	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Impact on property values	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Community organizations active on fracking issues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Business proposals to establish hydraulic fracturing operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Federal or state regulations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Revenue for land-owners	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local property tax revenue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preservation of farmland	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Availability of underground shale gas deposits	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (please specify) _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q23. (Please skip if you selected "not an issue at all" in Q19) Are there any additional issues regarding hydraulic fracturing in your jurisdiction that you think others would benefit from understanding? If so, please describe the issue(s) below.

Q24. (Please skip if you selected "completely unfamiliar" in Q16) Hydraulic fracturing operations are sometimes regulated in terms of their location, setbacks, waste disposal, chemical disclosure, and so on. For each of the following entities, please indicate whether you think they should have a great deal of authority, some authority, or no authority for such decisions regarding fracking.

	A Great Deal of Authority	Some Authority	No Authority	Don't Know
The federal government	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
State governments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Local governments	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Land-owners	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q25. Next, we want to ask about a range of potential sources of energy. Although these issues can be complex and may have various costs and benefits, in general, to what extent do you support or oppose the following possible actions to address energy supply issues in Michigan?

	Strongly Support	Somewhat Support	Somewhat Oppose	Strongly Oppose	Don't Know
Increase the use of nuclear power	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase the use of hydroelectric power	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase the use of solar power	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase production and use of biomass and/or biofuels	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase regulation of oil and gas pipelines statewide	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase drilling for natural gas and oil through high-volume hydraulic fracturing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Allow offshore oil and gas drilling in the Great Lakes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase the use of wind power on land	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase the use of offshore wind power in the Great Lakes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mandate expanded use of renewable energy through state law	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mandate energy efficiency/conservation measures through state law	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q32. Now thinking in general, not specifically about Detroit, when a jurisdiction goes through bankruptcy, difficult decisions and trade-offs have to be made about ways of addressing the jurisdiction's debt. Although conditions in individual jurisdictions will vary, in your opinion, what priority should ultimately be given to the following possible actions in the course of bankruptcy?

	A High Priority to Pursue	Somewhat of a Priority to Pursue	Neither	Somewhat of a Priority to Prevent	A High Priority to Prevent	Action Should Never Be Taken	Don't Know
Cuts in repayments to the jurisdiction's bondholders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cuts to pensions of the jurisdiction's current retirees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cuts to fringe benefits (health care, etc.) of the jurisdiction's current retirees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cuts to compensation (pay rates and/or fringe benefits) for the jurisdiction's current employees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cuts to, or privatization of, some public services to reduce costs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Increase service sharing with other governments to reduce costs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sell some jurisdiction assets (e.g., parkland, buildings, infrastructure, art holdings, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Raise local revenue through increased taxes or fees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Financial assistance from the state government	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Financial assistance from the federal government	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Q33. CLOSUP will protect your privacy and anonymity to the full extent provided by law. We need to confirm your personal information such as name, email address, and phone number for tracking and administrative purposes only. Your personal information will not be shared with any outside sources. As with all of the questions in this survey, these are optional.

Your name _____

Your phone number _____ - _____ - _____

Your email address _____

Finally, we would like to ask you some demographic questions. As with all of the questions in this survey, these are optional. Responses will be reported in aggregate form only so that your individual responses will remain confidential.

Q34. What is your gender? Male Female

Q35. In what year were you born? 19 ____

Q36. How many years have you served in your current position? _____

Q37. Are you of Spanish, Hispanic, or Latino descent? Yes No

Q38. Please check one or more categories below to indicate what race(s) you consider yourself to be. (check all that apply)

- | | |
|--|--------------------------------------|
| <input type="checkbox"/> White | <input type="checkbox"/> Asian |
| <input type="checkbox"/> Black or African American | <input type="checkbox"/> Multiracial |
| <input type="checkbox"/> American Indian or Alaskan Native | <input type="checkbox"/> Other |
| <input type="checkbox"/> Native Hawaiian or other Pacific Islander | <input type="checkbox"/> Don't Know |

Q39. What is the highest degree or level of school you have completed?

- | | |
|--|--|
| <input type="checkbox"/> 12th grade or less/no diploma | <input type="checkbox"/> Bachelor's degree |
| <input type="checkbox"/> High school graduate or GED | <input type="checkbox"/> Master's degree |
| <input type="checkbox"/> Some college, no degree | <input type="checkbox"/> Professional/Doctorate degree |
| <input type="checkbox"/> Associate's degree | |

Q40. Generally speaking, do you think of yourself as a...?

- Republican Independent Democrat Something Else (please specify) _____

Q41. (If Republican or Democrat) Would you consider yourself a strong or not very strong Republican/Democrat?

- Very Strong Not Very Strong Don't Know

Q42. (If Independent or something else) Would you consider yourself closer to...?

- The Democratic Party The Republican Party Neither