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If you wish to speak today, please complete the following:

Name: Dan Minor, CEO

Affiliation (if any): Cadillac Casting, Inc

Phone: 231-779-9600

Email: dminor@cadillaccasting.com

Topics you wish to address today:

a. ___ **Renewable Energy Portfolio Standards**

b. ___ **Energy Optimization / Efficiency Standards**

c. X **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): _____

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time lim it for each speaker to be in the 2 – 5 minute range.

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If you wish to speak today, please complete the following:

Name: Colleen Plummer (X) Priority

Affiliation (if any): _____

Phone: 616-402-1205

Email: Protia@yahoo.com

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): Responsible Energy developement

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If you wish to speak today, please complete the following:

Name: STEVEN B. SMILEY * Presentations

Affiliation (if any): SELF

Phone: 231 883-4850

Email: SMILEY27@earthlink.net

Topics you wish to address today:

a. ✓ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ✓ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

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Upside Down and Inside Out

The Rational for100% Distributed Renewable Energy

Steven B. Smiley, Energy Economist
Email: smiley27@earthlink.net

The New Paradigm: Wind, Solar and biofuels are now the least cost new energy

- All the thinking and analysis in the public utility sector is turned **"upside down".**
- Many coal and many atomic power plants are "underwater". The big question is "how do we close these plants and manage the shut down expenses at minimal cost to the public.

New "upside down" thinking: 20 X 20 - Coal Portfolio Standard (CPS)

- Policy to reduce reliance on coal fired generation to 20% by 2020
- Target zero percent (0%) by 2025
- Utility generators obligated to achieve 20% coal fired generation with policy to allow shutdown cost to pass through
- Provide re-training funds for power plant technicians to enter distributed renewable energy field

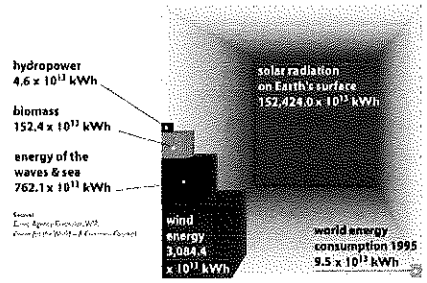
No new transmission line Expenses: Build the grid from inside out.. (upside down thinking)

- With distributed wind, solar and CHP most of all electric power can be local.
- Local distribution grid improvements are needed. This is where the grid work should primarily be done and the money spent, LOCALLY for:
  - Local energy storage and controls
  - Connecting local distributed solar, wind, CHP, etc.
  - Management and monitoring of wind and solar
  - Electric vehicle charging and energy storage
  - Transition from fossil heating to renewable electric heating with storage, heat pumps, etc.

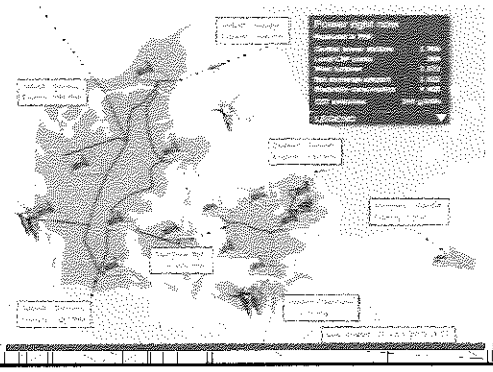
New Policy Proposals

- Eliminate the 1% limit regulated electric utilities have on "net metering" and have unlimited amounts at distribution level generation
- Eliminate the limited 10% renewable portfolio standard (RPS) and Change to 100% by 2025
- Eliminate the 10% cap on "customer choice" programs for local distribution level renewable power sources
- Implement the 20% by 2020 (20 x 20) Coal Portfolio Standard (CPS) – implement 0% CPS by 2025.
- Implement a carbon tax for electric generation and gas supply of 1 or 2 cents per kW-hr (in Michigan = $1 – $2 Billion/year (proportional to carbon emissions) to help fund transition to 100% RE and provide energy efficiency assistance

The Potential of Renewable Energies Worldwide

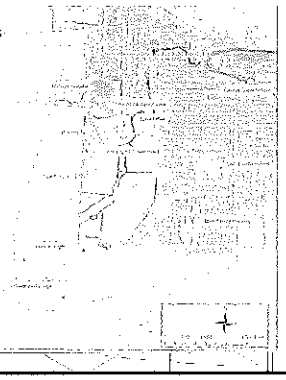


Denmark – April 18, 2013 – 81% Wind Power



Is there enough solar energy in Traverse City?

- This area, in the green line, in Traverse City, MI receives 4.3 billion kW-hrs of solar energy insolation per year.
- 12% of the area with 15% solar PV electric efficiency (today's technology) would produce 78 million kW-hrs per year.
- What is the electric consumption of this area?
- 78 million kW-hrs/yr!!



Real & Potential Examples of 100% RE – and the 100% Renewable Energy Movement

- Wal-Mart – 100% by 2020
- Jim W: House and car 100% Solar Electric
- Northport Creek Golf Course: 100% Solar in 2013
- TC West Side: 100% Solar
- Traverse City – 100% RE by 2025
- Habitat for Humanity – 100% solar coming
- NEAT (Northport) Members: LCE, homes, Township..
- Hemlock Semiconductor – 400 MW + solar potential
- Ski and golf resorts can easily be 100% renewable
- Danish communities, Thy, etc. 150% wind powered

Rapid Change in the Transition to the Solar Economy

- 82% of new USA electric generation first quarter 2013 was renewable
- 70% of new generation in 15 state Midwest Independent System Operator (MISO) region in 2012 was wind power
- If EPA finally issues new pollution rules MISO predicts 12,000 MW's of grandfathered (dirty) coal fired generation will shut down in its system (Consumers Energy peaks at 8,800 MW, Traverse City at 70 MW)
- Denmark is running on wind power often at 50% to 80% of the electric supply.
- The Province of Ontario is shutting down all coal fired generation
- Edison Institute reports major shift to Distributed Energy.
- NRG President (one of largest USA utilities) "warns" solar roofs will displace electric utility power while natural gas kills coal and atomic power.
- Wal-Mart going 100% solar by 2020
- Homes, businesses, institutions can be 100% renewable with a good investment return. NOW
- Wind power competes with retail natural gas prices for heating. Wind power beats "fracking"

The Value of Solar Electric

- Solar electric power (PV) is a daytime "peaking" power source and any economic comparison must be made with other peaking power generation costs.
- When solar PV costs are evaluated with "apples to apples" financing, environmental benefits, supply chain savings, transmission savings, etc. no new generation sources can compete except for wind and CHP natural gas (while gas prices are low).
- The true value of solar PV to an electric utility is at the RETAIL utility price - or higher! Therefore "net metering" should be encouraged and expanded as much as possible. This will improve our utility economics.

The Value of Commercial Wind Power

- Recent bids for commercial wind power in Michigan have been under 5 cents/kWh.
- On a windy night the marginal cost of wind power can be 2 cents/kWh.
- Wind power can be stored in hot water, with or without heat pumps, for heating at a lower cost than natural gas--and used for cooling.
- Wind power controls can be used to improve utility grid power quality, providing added benefits to electric utilities.

The Value of Local Solar and Wind Electric, Continued. Benefits include:

- Avoided energy costs
- Avoided capacity costs for solar peak generation
- Reduced costs for ancillary services
- Lower line losses for transmission and distribution
- Reduced investments in T&D facilities
- Lower costs for the utility purchase of other renewable generation
- Local economic multiplier benefits, 2 times or more
- Significant and yet undervalued external environmental cost benefits: health, heart and lungs, less mercury in fish and people, fights against global warming.

Do We Have the renewable technology Resources to achieve 100% by 2025? YES!

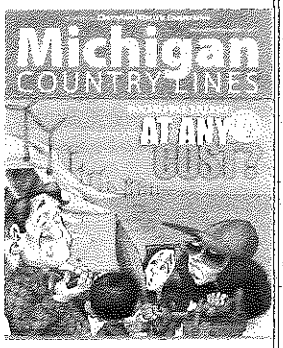
- Solar PV? – Hemlock Semiconductor (Saginaw) (Dow Corning/Japanese) 3,500 MW of solar material per year!
- Over–supply of solar PV production capacity in world – as well as solar thermal
- Many major wind manufacturers ready and able to ramp up.
- Much hydro and biofuel generation capacity exists and is ready to go forward

Policy Initiative - STOP WASTE – Protect our water and use energy efficiently

- STOP WATER and ENERGY WASTE:
  - Tax water waste used for fracking and central power plant cooling
  - Stop the large amount of water wasted in "fracking".
  - Tax and reduce the large amount of water wasted for coal and atomic power plant cooling
  - Burn natural gas efficiently (a non-renewable fuel). It must only be allow to be used at 75% plus efficiency for heating and electric generation.
  - Low cost energy efficiency programs must be funded, financed, subsidized and accelerated

How Do We Change To Upside Down Thinking?

- No electric utility manager or utility board can now say "we cannot afford renewable energy".
- We cannot allow more false claims and economic deceptions by our public utility servants, as illustrated in the 25 x 25 Proposal 3 initiative for renewable energy



Economic Benefits of Going 100% Renewable Energy

- City of Traverse City: $320 million + NPV
- Individual businesses and homeowners – 8%-10% return on investment with 6 – 10 year simple payback
- Local utilities can distribute **MORE** electric energy increasing sales, not less, but only by displacing non-renewable energy, coal and natural gas
- Creating jobs and money from local utility, construction, electrical and mechanical work– keeping money at home!
- Local economic multiplier effects 2 X plus.

Thank you for listening

Governor Synder
John Quackenbush, MPSC Commissioner
Steve Bakkal, MEDC Energy Director:

Respectively submitted:
Steven B. Smiley: smiley27@earthlink.net

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If you wish to speak today, please complete the following: Presentation

Name: TOM GALLERY

Affiliation (if any): LEELANAU COMMUNITY ENERGY / LEELANAU SOLAR

Phone: 231-386-7369

Email: TOM@LEELANAUSOLAR.COM

Topics you wish to address today:

a. X Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

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If you wish to speak today, please complete the following:

X Presentation 5

Name: Douglas McInnis

Affiliation (if any): Leelanau Community Energy

Phone: 231-386-5680

Email: dmcinnis@tic.com

Topics you wish to address today:

a. X Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): Question 8

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If you wish to speak today, please complete the following:

Presentation

Name: Al Noftz

Affiliation (if any): Northport Energy

Phone: 231 386-9936

Email: ANOFTZ@AOL.Com

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): Net Metering

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If you wish to speak today, please complete the following:

Name: Libby Wheatley

Affiliation (if any): _____

Phone: (231) 894-9591

Email: libbywheatley@yahoo.com

Topics you wish to address today:

a. ✓ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

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If you wish to speak today, please complete the following:

Name: Maggie VanHaften Former MPSC Staff

Affiliation (if any): _____

Phone: 231 352-6045

Email: mbrv214@gmail.com

Topics you wish to address today:

a. ✓ Renewable Energy Portfolio Standards

b. ✓ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

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If you wish to speak today, please complete the following:

Name: Evelyn Bergaila

Affiliation (if any): _____

Phone: 231-690-5255

Email: ebergaila@gmail.com

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. X Other Additional Energy Topic

(Please specify): impacts

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If you wish to speak today, please complete the following:

Name: Tonya DeVore 11:47 AM

Affiliation (if any): United Steelworkers

Phone: 269 718 9723

Email: TdeVore1@charter.net

Topics you wish to address today:

a. [X] Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

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If you wish to speak today, please complete the following:

Name: FRED SITTEL

Affiliation (if any): _____

Phone: (231) 377 7818

Email: CLAMLAKE@FRONTIER.COM

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ✓ Other Additional Energy Topic

(Please specify): COST OF SERVICE RATE STRUCTURE

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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If you wish to speak today, please complete the following:

Name: FRED M. GEROW

Affiliation (if any): _____

Phone: 231-861-5637

Email: _____

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ✓ Other Additional Energy Topic

(Please specify): INTEGRATED RESOURCE ANALYSIS

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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MEOS
Michigan Electrical Options Study Looking Forward by Looking Back

Fred M. Gerow

Please Note: this is a 25 year old project that was never implemented, however it is a good place to begin in the development of any energy policy when resource optimization is the goal.

Among the Study's more important contributions to future electric resource planning are the following:

It provides for the first time a comprehensive description of Michigan's existing electricity system, current electricity usage, major supply- and demand-side options, and analyses of resource alternatives under various constraints and assumptions about the future.

It indicates the major economic and environmental consequences of choosing different resource strategies for meeting future needs.

It shows that the capital investments and total economic costs of different resource strategies will vary by hundreds of millions of dollars by the year 2005.

t demonstrates that the costs of electric resource options can vary from as little as one-half cent per kilowatt-hour of electricity generated (or saved) to over ten cents per killowatt-hour, with the least expensive options being conservation and efficiency, cogeneration, refurbishment of existing plants and power purchases.

It shows that extending the lives of current generating plants could provide over 4,400 megawatts of capacity over the next 20 years (the equivalent of 6-8 new, medium-size power plants), cogeneration and renewable fuels could provide over 800 megawatts of capacity, and conservation and load management programs could provide over 2,000 megawatts of capacity equivalency.

It suggests that average electricity rates in the Detroit Edison/Consumers Power region could be reduced by more than 20 percent during the next two decades (in real, non-inflated dollars) under current assumptions about demand growth and future fuel prices.

And, it provides the basic information, analyses and tools needed by electric utilities and business customers to make cost-effective electric resource decisions for the future.

Given the scope of the Study, it was necessary to divide the work among six working groups.

Work Group # I examined options for improving the existing generating, transmission and distribution system and for extending the life of existing power plants.

Work Group #2 examined the potential for demand management options, including peak load management and energy efficiency and conservation alternatives.

Work Group #3 investigated the potential for non-utility power production, including cogeneration and alternative fuels.

Work Group #4 examined new utility power plant options and alternative options for completing Midland.

Work Group #5 prepared a series of baseline electricity peak load and sales estimates for use by the Work Groups and Project Management in developing MEOS demand and sales growth assumptions. And,

Work Group #6 served Project Management in a technical advisory role with principal responsibility for developing project-wide assumptions, assisting with the integration of the results produced by other Work Groups, and coordinating the modeling work needed to develop the integrated resource analysis portion of the Study.

Figure 1-1
Michigan Electricity Options Study Approach

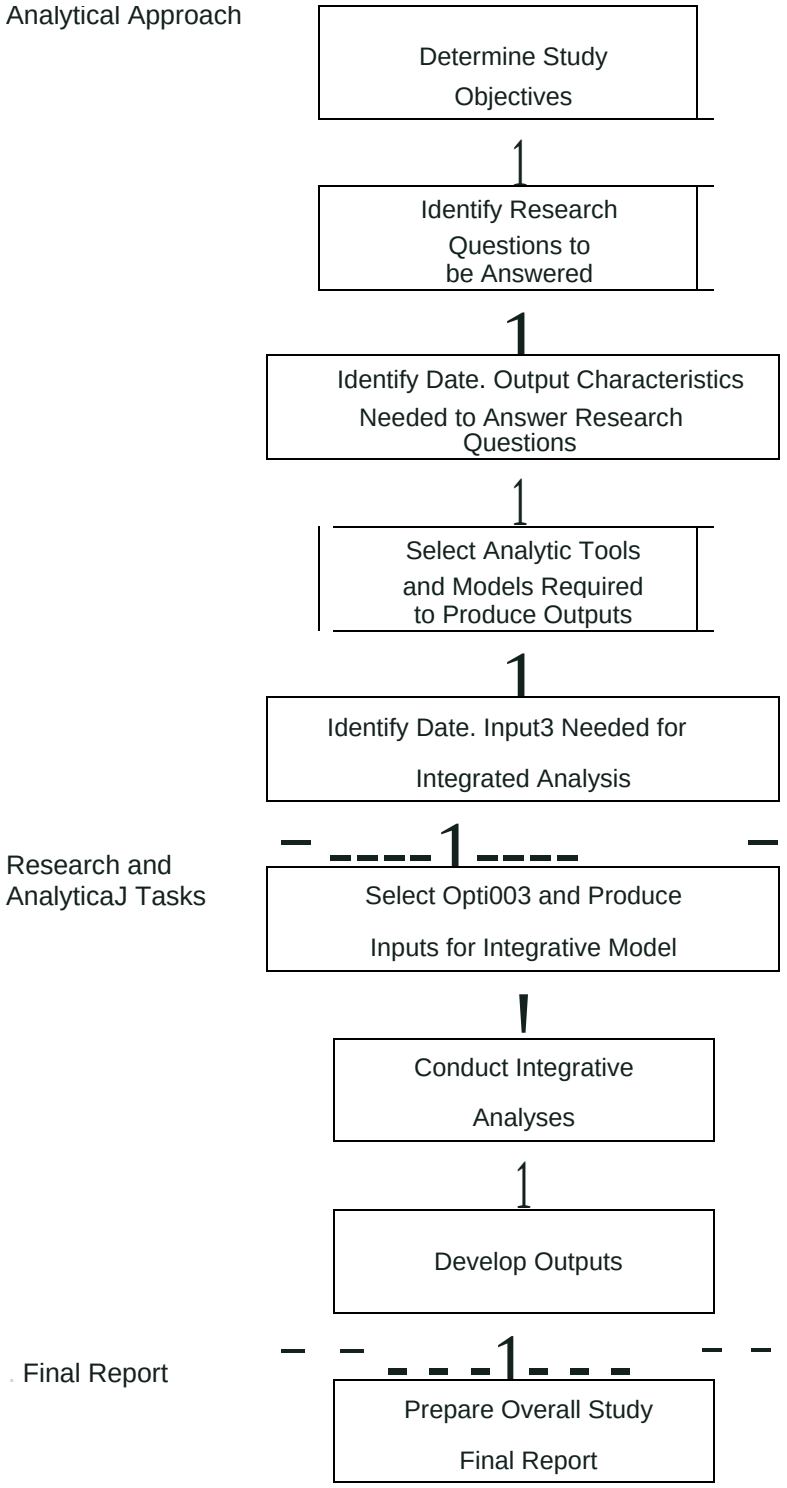

Table 1-1: Work Group #6 Work Tasks

Tasks	
Assessment Phase	
1. Prepare a list of tasks and time table for Work Group #6.	Work Plan Subgroup
2. Review and assess existing planning approaches, methods and models that might be available to analyze the options, their costs and ability to satisfy the anticipated range of demand.	Work Group #6
3. Propose research questions to be answered by the study and recommend parameters (scope) and criteria for screening options to analyze.	Models Subgroup and Work Group #
4. Request from each Work Group a list of the key characteristics for each option, plus the assumptions and input variables needed to complete their respective analyses. Request reporting format ideas from other Work Groups.	Work Group #6
5. Assist with the preparation of "a description of the information (or output variables) needed to answer research questions.	Models Subgroup and Work Group ::
6. Review the integrated planning tools, models and methods proposed to be selected and/or developed to produce the information (or output variables) needed to answer the research questions.	Models Subgroup and Work Group ::
7. Evaluate and advise Project Management on the assumptions and data proposed by reF to be used in the models to produce the information (or output variables) needed.	Work Group #6
8. Advise Project consultant on modifying methods and models as needed.	Models Subgroup
9. Review proposed model modifications and modified models.	Models Subgroup

Table 1-1 Continued

Tasks

Assessmen t Phase

10. Review and advise Project Management regarding the preliminary data compiled by Work Groups and rCF for preliminary test.

11. Assist rCF in performing a preliminary integration test.

12. Assist Project Management in developing an approach to environmental cost assessment.

Research Phase

13. Review revisions of the integrated models and data, and advise Project Management regarding quality of products.

Integration Phase

14. Advise rCF regard~ng integrated analyses and review preliminary work products.

Recommendation Phase

15. Assist in the formulation of recommendations and review draft reports prepared by Project Management

Final Review Phase

16. Review proposed Final Report to Advisory Committee.

17. Review documentation prepared by rCF on tools, models, methods and data for future use.

Also, in its early efforts to assist in developing the scope and overall research structure of the Study, the Work Group was instrumental in developing research questions and identifying the analytical tasks that needed to be completed to answer the research questions. (See Table 1-2, Proposed Research Questions.)
The proposed research questions were divided into three categories:

- Analysis of Options by Work Groups #1-#4
- Electricity Demand by Work Group #5
- Integration Analysis by Work Group #6

MICHIGAN ELECTRICITY OPTIONS STUDY
CRITERIA FOR SCREENING OPTIONS

Firs~-Level Screening
Criteria by WG's #1-Q4

Which Options to Study

(P~ss/Fail)

1. Minimum potential contributions in kW and kWh .•
2. Technology is commercially available by 1987.
3. Maximum cost per kW and per kWh .•
4. Likely to meet or can achieve current regulatory standards.

Second-Level Screening
Criteria by WG *06* & PH

Which Options to Evaluate
(Pass/Fail)

1. Minimum potential contributions in kW and kWh.
2. ~4Ximum costs per kW and per kwh.
3. Meets or can achieve current regulatory standards.

Third-Level Screening
Criteria by ~G U6 & PH

Which Option Combinations to Evaluate

1. Balances supply and demand (energy and peak) with specified levels of reliability.
2. Cost per kW and per kWh.
3. Meets specified environmental and regulatory performance standards.

Levels to be determined by each work group.

Preliminary work of the Models Subgroup involved the review of a number of models, including:

- "HELM," a load/resource model used to examine end-use by sector.
- "WASP," a production costing model developed for the International Atomic Energy Agency. WASP (Wein Automatic System Planning Model) can be used to find the optimal generation expansion policy for an electric system.
- EPRI's "Over/Under Capacity Planning Model," a model that performs risk analysis in conjunction with system analysis. It considers demand uncertainty, measures trade-offs between having adequate/Inadequate energy and determines construction programs yielding minimum total cost to the customer.
- EPRI's "LMSTM," a load management strategy testing model:
- "OGP-FSP," Optimum Generation Planning--Financial Simulation Program developed by General Electric, a capacity planning model which uses a linear programming approach. The Financial Simulation Program is a simplified corporate model which uses the output from OGP to generate financial statements.
- "MAREL," Multi-Area Reliability Computer Program, a model which estimates generation system reliability on an interconnected system.
- "PROMOD," a production costing program which was developed by Energy Management Associates. PROMOD uses an equivalent load approach to estimate the generation dispatch and resulting fuel and production costs.
- "PROJANAL," a model developed by Detroit Edison which provides levelized bus bar costs for proposed generating units.

Optimization Models--These are models which are specifically designed to determine a "best" solution or solutions (in the sense of a minimum or maximum of some objective function) given a specific objective or set of objectives and a set of solution constraints. Generally, an objective function is expressed as an equation to minimize costs or maximize revenues. In the case of electricity resource planning, an optimization model would develop a "least-cost" electricity plan subject to a detailed set of cost and financial assumptions, environmental and other constraints. Optimization models which reflect standard engineering or economic relationships use a long series of linear equations that serve as constraints. For example, total electricity generation from all power plants or other resource options less distribution losses would be required to equal sales demand (less imported power). All of these equations are solved simultaneously to determine a "least-cost" solution.

2.Simulation Models--differ from optimization models in that rather than determining a "least-cost" or "best" solution given a long series of economic and engineering relationships, these models solve to meet a limited set of conditions or requirements with a large portion of the decisions regarding resource options and future events already

predetermined and treated as specific inputs to the model. In the case of electricity option considerations, a simulation model might operate or dispatch an electricity power system subject to a fixed capacity expansion or resource plan with a given set of dispatch rules specified by the user. Generally, many, if not all, of the resource decisions are specified by the user in a simulation model.

Simulation models are suitable when relationships are so complex that analytical solutions are not possible or practical, or when "least-cost" behavior, other financial rules or statistical relationships do not apply. They also provide detailed outputs with much less computation time. Simulation models are often used in very large scale macroeconomic forecasting efforts. However, they usually do not provide least-cost economic solutions, which are extremely useful to policy makers or managers wanting to explore the implications of specific policies, regulations or financing restrictions on the types of strategies to be pursued.

3. Large-Scale Integrated Models--are models which are really several models or modules linked together. These models are used to satisfy several objectives and they provide very different types of outputs. Benefit-cost models are examples of large-scale integrated models which measure benefit and cost outputs separately and in some cases try to optimize on both criteria. The models can be "optimization" or "simulation," or structured as a combination of both. Various modules can also be simple accounting models. That *is*, outputs are based on simple relationships between forecast variables and outputs. For example, sulfur *dioxide* emissions might simply be equal to a factor such as an emissions rate times forecast fuel consumption.

A number of resource planning models were reviewed that were available and potentially useful in providing an integrated analytical framework for evaluating alternative resource decisions. These models differed across a number of attributes, some more important than others. The major component of an integrated modeling framework is the resource planning component. The structure, approach and sophistication of this model is most important when comparing models. Most of the other models are ancillary to the major functions of the integrated framework, typically providing information to report writers or preprocessors of data.

A. Summary of the MEOS Project

Unprecedented in its broad scope and cooperative nature, the MEOS Project involved about 200 participants from more than 90 organizations--electric utility companies, commercial and industrial users, business associations, environmental organizations, universities, consumer groups and state government. All of the major stakeholders in our electricity system helped both to frame the Study and to assure that its results were credible, useful and reasonably balanced. That participants were able to agree on so much is a tribute to the strength of their commitment to producing the data and tools required to assure a least-cost, reliable power supply for Michigan's future.

Among the Study's more important contributions to future electric resource planning are the following:

- It provides for the first time a comprehensive description of Michigan's existing electricity system, current electricity usage, major supply- and demand-side options, and analyses of resource alternatives under various constraints and assumptions about the future.

- It indicates the major economic and environmental consequences of choosing different resource strategies for meeting future needs.

- It shows that the capital investments and total economic costs of different resource strategies will vary by hundreds of millions of dollars by the year 2005.

- It demonstrates that the costs of electric resource options can vary from as little as one-half cent per kilowatt-hour of electricity generated (or saved) to over ten cents per killowatt-hour, with the least expensive options being conservation and efficiency, cogeneration, refurbishment of existing plants and power purchases.

- It shows that extending the Ii ves of current generating plants could provide over 4,400 megawatts of capacity over the next 20 years (the equivalent of 6-8 new, medium-size power plants), cogeneration and
  renewable fuels could provide over 800 megawatts of capacity, and conservation and load management programs could provide over 2,000 megawatts of capacity equivalency.

- • It suggests that average electricity rates in the Detroit Edison/Consumers Power region could be reduced by more than 20 percent during the next two decades (in real, non-inflated dollars) under current assumptions about demand growth and future fuel prices.

- And, it provides the basic information, analyses and tools needed by electric utilities and business customers to make cost-effective electric resource decisions for the future.

If we are to have energy policy that evolves from one administration to another it would seem that the development and use of an Integrated Planning Model would logically get us from point A to point B and so on. If we continue to change coarse from administration to administration we will never advance in this environment of diminishing resources and diminishing environmental quality.

Let's do the smart thing and choose our energy development and use via an analysis of demand and least end cost options.

The matter can be viewed thusly: Our conventional energy production - oil, gas, coal and nuclear - may be thought of as well - explored producing regions. They favor continuing and augmenting production in these terrains. But in terms of allocating resources and effort for further major increments of energy, the evidence strongly suggests that the state and the nation would be better served by concentrating more exploratory and development "drilling" in the partially proven acreage of conservation, and the promising but still largely untested domain of renewable energy.

What is still missing is an energy policy to guide the transition. What is proposed would make possible an economically sound and politically workable transition away from ever growing dependence on imported oil. No other nation has so great an impact on the international energy system. Now is the time for the United States to come to terms with

the realities of the energy situation, not with romanticisms, but with pragmatism and reason. And not out of altruism, but for pressing reasons of self-interest.

Adoption of this strategy, however, will require us to overcome a six-decade-old set of preconceptions about the linkage between growth and energy. It no longer makes sense to equate an increase in national wealth with a growth in energy consumption. We are today at the threshold of a wide reaching revolution in the physical and biological sciences.

It is too early to predict in detail the eventual outcome of these advances. But one fact is clear: they are teaching us to do far more with far less. Efficiency and sustainability will be the hallmarks of the new prosperity.

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MICHIGAN ENERGY OFFICE
STEVE BAKKAL, DIRECTOR

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If you wish to speak today, please complete the following:

Name: Pete Ostrowski

Affiliation (if any): Cone Drive Operations

Phone: (231) 642-1636

Email: postrowski@conedrive.com

Topics you wish to address today:

a. ___ **Renewable Energy Portfolio Standards**

b. X **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): _____

Requested time to speak: X **< 5 minutes** ____ **5 minutes**

Please leave a copy of any written or electronic materials at the welcome center.

2:45pm

Hi, I'm Pete Ostrowski, the Environmental, Health, & Safety Manager for Cone Drive Operations, a gear manufacturer located in the heart of Traverse City since 1950. We have an old plant and office complex with a separate test and training facility. Our oldest part of the plant was brought up brick by brick from Detroit to build bomb casings during WWII. John Parsons and Frank Stulen invented numerical control on the site before it became Cone Drive. Our industrial gearing is used in everything from the huge foundry ladles for moving molten steel to medical imaging machines and everything in between. We are just finishing a project where 96,500 of our gear boxes are being used in the Ivanpah Solar Power Generating Station, currently the largest solar plant under construction in the world, located in California near the Nevada border. We are a Michigan company that benefits from investments in renewable energy. But, my main point today is to address the continuing need to support improvements in energy efficiency.

Efficiency Question 10: Given current technology, how much energy efficiency is technically feasible in Michigan? What is the remaining cost-effective energy efficiency potential in MI?

In the past few years, working with Traverse City Light & Power (TCLP) and local contractors, we have improved the energy efficiency of the plant by installing more energy efficient lighting, upgrading to a variable speed air compressor, and installing a higher efficiency chiller for our test facility. Our efforts over 4 years have saved us an estimated 560,172 kWhrs per year, nearly what the large TCLP windmill generated in a year. We naturally believe in both renewables and energy efficiency for the future. At the Traverse City Energy Summit last summer the main speaker, Peter Garforth, made the statement that renewable energy is fine. But, first you should invest in energy efficiently, often much more cost effective. European countries are two to three times more energy efficient that the United States.

Manufacturers must be extremely cost conscious, having to compete with other manufacturers around the world. Energy efficiency is a win / win for us. However, we do not have unlimited funds and energy efficiency projects generally have to compete with other capital projects that have paybacks of 3 years or less. As we have already picked most of the low hanging fruit in energy efficiency, our improvements are becoming more and more expensive to install. Therefore, we support a stronger push for energy efficiency paying for improvements that cost the utilities up to the lowest new generating costs. In the Michigan 2012 REPORT ON THE IMPLEMENTATION OF P.A. 295 UTILITY ENERGY OPTIMIZATION PROGRAMS, the average energy efficiency cost to the utilities in 2011 was $20/MWh, yet the cost of a new natural gas advanced combined cycle generating unit was estimated to be $66/MWh, the estimated lowest cost new generating source currently available. Let's work to save as much energy as possible, before spending on new generating facilities.

Personally, I agree with Thomas Friedman and Michael Mandelbaum in their book, THAT USED TO BE US, a book on the challenges of Globalization, the IT revolution, Climate Change, and the Deficit. The authors propose the urgent need for a carbon tax, with the proceeds used to lower the deficit and pay for renewables and especially energy efficiency.

Michigan Energy Public Forum 4/22/13
Peter Ostrowski, Jr.
Phone (231) 642-1636

Cone Drive Operations, Inc.
240 E. 12th Street, PO Box 272
Traverse City, Mi 49684

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STEVE BAKKAL, DIRECTOR

Readying Michigan to Make Good Energy Decisions

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If you wish to speak today, please complete the following:

Name: Allan O'Shea

Affiliation (if any): Contractors Building Supply Inc

Phone: 231-510-1817

Email: windowman50@hotmail.com

Topics you wish to address today:

a. X Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. X Other Additional Energy Topic

(Please specify): Solar Energy

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

Please leave a copy of any written or electronic materials at the welcome center.

You are encouraged to submit written feedback at www.michigan.gov/energy.

COMMENTS FOR MONDAY

GOOD AFTERNOON, My Name is Allan O'Shea and I have lived in Manistee County for almost 40 years**I WOULD LIKE TO THANK GOVERNOR SNYDER, THE STATE OF MICHIGAN AND ESPECIALLY COMMISSIONER JOHN QUACKENBUSH AND MICHIGAN ENERGY DIRECTOR STEVE BAKKAL FOR BEING THE EYES AND EARS FOR THESE VALUALBLE LISTENING SESSIONS.

A LITTLE OF MY BACKGROUND----I HAVE BEEN IN THE RENEWABLE ENERGY INDUSTRY IN MICHIGAN FOR THE PAST 40 YEARS— AS THE FIRST PRESIDENT AND ORIGINAL FOUNDER OF AWEA IN DETROIT MICHIGAN IN 1974 **AS CO-FOUNDER OF THE MEF AND I'M CURRENTLY VP OF THE GLREA I HAVE SEEN OUR STATE BEGIN TO TRANSFORM ITSELF INTO A VIABLE ENERGY PRODUCER---WE CANNOT SLOW DOWN **WE MUST ACCELERATE OUR EFFORTS TO PRODUCE CLEAN, SAFE AND LOCAL ENERGY PRODUCTION FOR ALL OF OUR RESIDENTS.**

MY COMPANY CBS HAS INVESTED A GREAT DEAL OF MONEY AND TIME TO CREATE A ASSEMBLY PARTNERSHIP WITH A LARGE PV MANUFACTURER FROM INDIA—SONALI SOLAR . ....**OUR EFFORTS TO CREATE GOOD FULL TIME JOBS (7 this year)** AND ECONOMIC GROWTH FOR NM IS A DRIVING FORCE FOR OUR COMPANY AND ITS AFFILIATES. **OUR PANELS WILL BE SHIPPED ALL OVER THE US AND CANADA AND EVENTUALLY AROUND THE WORLD..** *I HAVE PROVIDED YOU WITH A PRINT VERSION AND A POWER POINT FOR REVIEW LATER.*

EXAMPLE: WE ARE WORKING WITH CHERRYLAND ELECTRIC TO CREATE A NEW AND INNOVATIVE ENERGY MODEL FOR MANY OF THE ENERGY COMPANIES IN MICHIGAN. PRINCIPALLY OUR RURAL ELECTRIC COOPERATIVES AND OUR SMALLER MUNICIPAL LIGHT AND POWER COMPANIES.....**WE CALL IT COMMUNITY SOLAR** ESSENTIALLY IT IS A COOPERATIVE SOLAR ARRAY THAT CREATES A VEHICLE FOR MEMBERS OR USERS**** that may not have the site, economics or ability to install a larger array for themselves A VEHICLE TO GET INVOLVED WITH THEIR LOCAL UTILITY AND TAKE OWNERSHIP. THIS IS A FIRST FOR MICHIGAN AND WE WILL BE EXCITED TO SEE MODELS LIKE THIS THROUGHOUT THE STATE. *IN ORDER FOR THESE INNOVATIVE CONCEPTS TO GROW THE MICHIGAN ** ITS LEGISLATURES NEED IMPROVE THE REGULATORY BARRIERS TO ENCOURAGE LOCAL ENERGY SYSTEM GROWTH ESPECIALY IN OUR URBAN AREAS.*

MICHIGAN WAS RANKED 10TH IN THE CREATION OF RENEWABLE ENERGY JOBS IN THE USA IN 2012. OUR INDUSTRY GREW AT THE RATE OF 13.2% **I WOULD ASK YOU WHAT INDUSTRIES ARE GROWING FASTER THAN THAT?**

I THANK YOU FOR THIS OPPORTUNITY TO SHARE OUR COMMITMENT, GOALS AND ACCOMPLISHMENTS WITH YOU AND I TRULY HOPE THAT THE GOVERNOR AND THE STATE OF MICHIGN EMBRACES ALL FORMS OF CLEAN, SAFE AND ABUNDANT **ENERGY AND PROACTIVLY FIND WAYS TO REDUCE REGULATIONS AND BARRIERS AND CREATE ENERGY SECTOR JOBS THROUGHOUT MICHIGAN****

CONTRACTORS BUILDING SUPPLY

A company for Michigan sustainable, innovative jobs and economic growth

Governor Snyder's Energy Forum

April 22, 2013

WHO WE ARE

- CBS is a 20 year old company that has stayed in tune with the all forms of energy (natural gas, solar, wind and energy conservation) industry as it has grown stronger over the years.

  *Most of the areas in Northern Michigan where natural gas is being extracted do not have natural gas available to residents, a serious economic development flaw.

- We hire locally to help build the local economy and buy locally and in the state of Michigan whenever possible.
- CBS employees have the knowledge and training to handle the smallest or largest of jobs and we are imparting our knowledge by hiring and training a new stream of Northern Michigan workers.

THE CBS TEAM

Contractors Building Supply works closely with it's dealers and professional associates throughout Michigan.

Our common goal is to support Michigan growth and encourage innovation by eliminating barriers through education

GLREA
GREAT LAKES RENEWABLE ENERGY ASSOCIATION

VARNUM

mrea
midwest renewable energy association

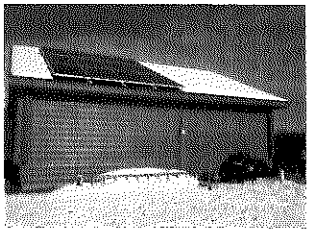
AWEA
AMERICAN WIND ENERGY ASSOCIATION

AMERICAN SOLAR ENERGY SOCIETY

eibc
ENERGY INNOVATION BUSINESS COUNCIL
POWER ADVANCED

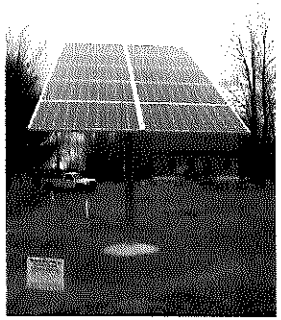
WHAT WE DO

6KW Roof mounted PV System in Ohio



3KW Roof mount in Benzie County

Cherryland Electric Cooperative Solar Garden in Grawn



2.5KW Pole mount job for Muskegon-Oceana Community Action Partnership (MOCAP)

JOBS AND ECONOMIC GROWTH

- Contractors Building Supply is dedicated to creating jobs in Michigan, hiring local residents whenever possible.
- Renewable Green Industry for job creation. We work closely with the Team Vet programs in Detroit and Highland Park.
- K-Light Emergency Lighting-A Western Michigan initiative to bring manufacturing jobs and innovation to the west side of the state from China.
- Sonali Energees-A JV partnership with a large PV manufacturing plant in Gujarat, India to assemble PV panels in northern Michigan (Copemish) beginning in June, creating 7 new jobs for Northwestern Michigan and the energy industry.

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MICHIGAN ENERGY OFFICE
STEVE BAKKAL, DIRECTOR

Readying Michigan to Make Good Energy Decisions

Michigan Energy Public Forum Statement Card

If you wish to speak today, please complete the following:

Name: Ken Wieber

Affiliation (if any): ICC

Phone: 989-292-1187

Email: _____

Topics you wish to address today:

a. X Renewable Energy Portfolio Standards

b. X Energy Optimization / Efficiency Standards

c. X Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

Please leave a copy of any written or electronic materials at the welcome center.

You are encouraged to submit written feedback at www.michigan.gov/energy.

Ken Wieber
5048 N. Wright Rd
Fowler, MI 48835

Good afternoon ~~ladies and gentlemen.~~

I am from Fowler, MI, where I operate a 100 cow dairy/cash crop farm with my brother.

The dairy industry today, ~~for those of you not familiar~~, is a 24/7 operation. Whether it's our milking parlors, which may operate around the clock, or our processing plants, which never stop, not even for Christmas.

Like other sectors of our economy, our industry has become heavily automated; we even have robotic milking machines now. And like all computerized equipment, they are sensitive to any power fluctuations. I have already had to install two layers of voltage regulators to protect my digital equipment and variable speed motors.

Thus, we require not only an inexpensive source of electricity, but also a reliable one.

Consequently, I cannot help but notice what is currently happening in Europe, especially Germany ~~where they have a high saturation of wind power~~ on their grid.

Because of power fluctuations and brown outs, heavily automated German companies are now forced to either install expensive, instant on backup power, or move their factories elsewhere. Keep in mind they're already paying exorbitant electric rates to support the wind power causing the problem.

If they move, do you suppose they'll come looking for a State that is making the very same mistakes?

6

What of our own industrial base? They will have to make the same decisions. Should they stay and pay, or leave? Will they even come here at all?

I find it very telling that Europe is now stepping away from their renewable standards.

You've already been informed by the mining industry in Marquette that the current situation is unsustainable. Over ~~400~~ 690 jobs will be directly impacted. They're not the only industry saying this. The wheat milling industry has informed us that they too will leave our State if the current trend in wind power continues.

The dairy industry however is stuck with whatever you do, and the farmer will once again be required to absorb the costs. The ethanol debacle has already forced us to absorb an additional $700/cow in feed costs. For me that means about $70,000.

My neighbor has 3000 cows, do the math.

Similar numbers can be found in the pork, and beef industry where herds have been liquidated because of the costs.

I'm not saying our electricity costs will reach these levels. What I am saying to ~~the~~ our representatives ~~in the crowd~~ and to Gov. Snyder is this: your decisions have long term repercussions.

You may be able to score some additional environmental donations to your reelection campaigns, and you can look good in front of the camera by "kissing the green energy baby" but out in the real world there will be consequences.

Not only will we see higher electricity rates and lost jobs, but in the rural communities, we will be forced to tolerate these turbines, and there will be abandoned homes and lost quality of life. I would like to respectfully ask Mr. Voss to ask in his next survey - would you sacrifice your home?

If this meant we could shut down a coal plant of two then maybe you could claim it would be worth it. But you can't.

~~We have~~ already absorbed the costs of Ethanol

I can't help but wonder, what else will you ask of us? Should I hook a yolk of oxen to the front of my 400 horse tractor and call it green? Just think of the jobs it would create.

I guess I should be careful what I say. The oxen lobby might get someone to subsidize it, and who knows, after 10 or 20 years it could become a self-sustaining industry.

Sounds silly right? Well that's what you're asking of our utilities. To integrate an expensive, intermittent, and unreliable power source onto our modern grid. A grid that can already handle our present and future demand.

~~The industries of our state require a reliable source of electricity. Wind power cannot provide this in any way. I'm asking the legislators to get out of the way and let the utilities do what they do best. Deliver a cheap and reliable source of power.~~

I'm asking our Legislat. to let the util. do what they do best. Deliver a cheap and reliable source of power to our industries

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STEVE BAKKAL, DIRECTOR

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If you wish to speak today, please complete the following:

Name: Dave Wingard, Bob Cassidy

Affiliation (if any): TrueNorth Community Services

Phone: 231-924-0641

Email: dwingard@truenorthservices.org

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. X Other Additional Energy Topic

(Please specify): Rural Service Delivery

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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You are encouraged to submit written feedback at www.michigan.gov/energy.

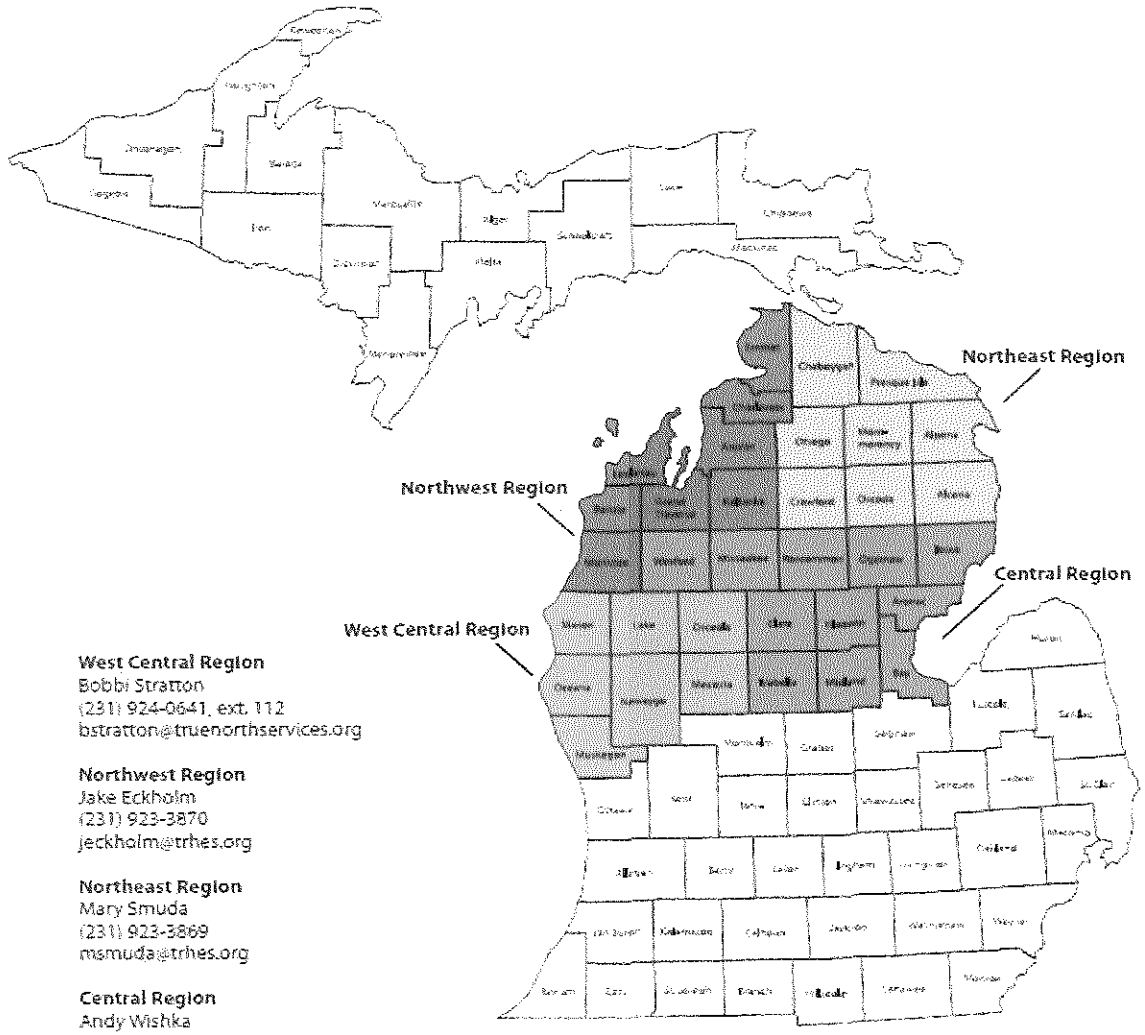
TrueNorth Community Services

Rural Heat and Energy Solutions
for
Rural Michigan Realities

truenorth
community services

truenorth community services

Rural Heat and Energy Solutions 2013



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jeckholm@trhes.org

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(231) 923-3869
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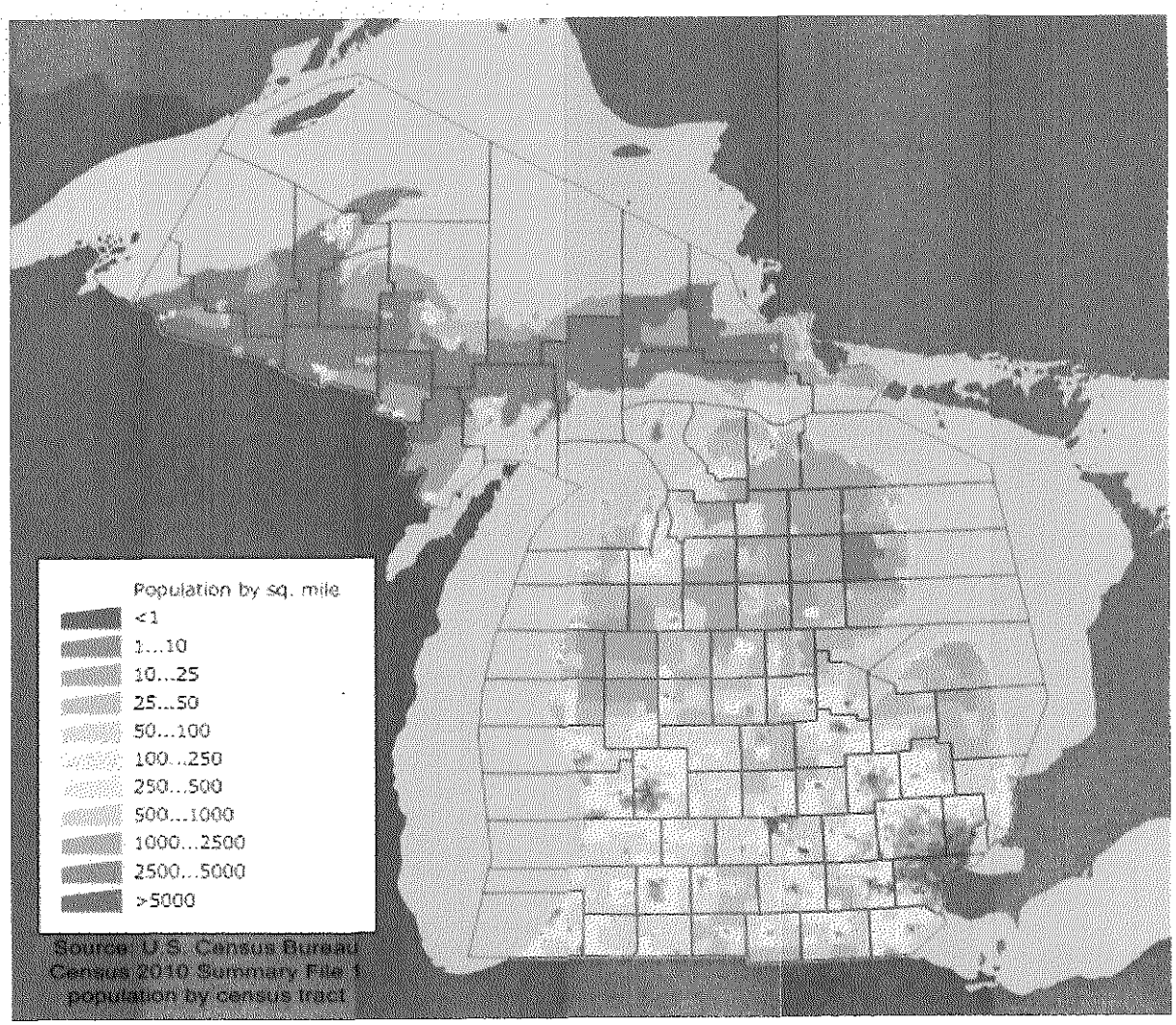
Central Region
Andy Wishka
(231) 923-3868
awishka@trhes.org

truenorth community services

Michigan Rural Realities: Low Population



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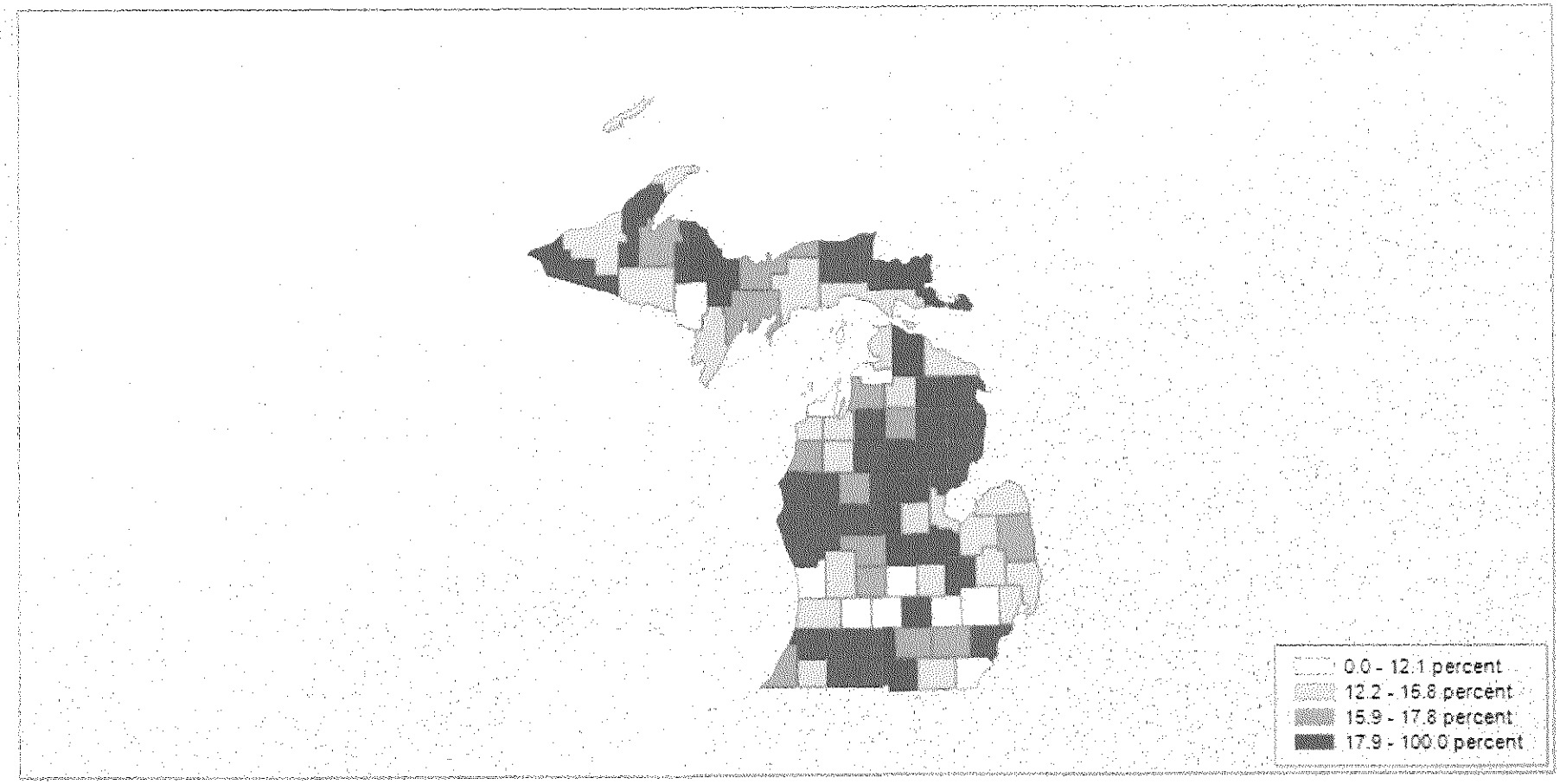
Michigan Rural Realities: High Poverty Rates

Percent of total population in poverty, 2011: Michigan



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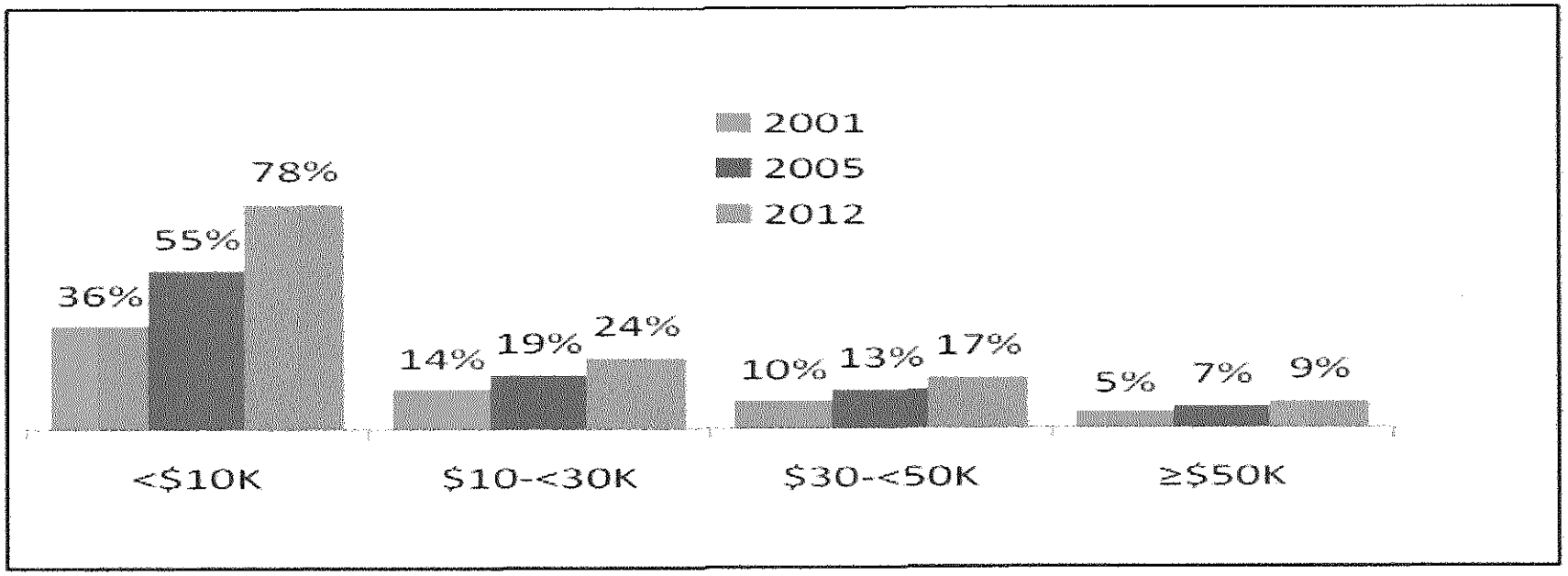
Michigan Rural Realities:
Impact of Rising Energy Costs on the Poor



Energy Costs as Percentage of Annual Household After-Tax Income

truenorth
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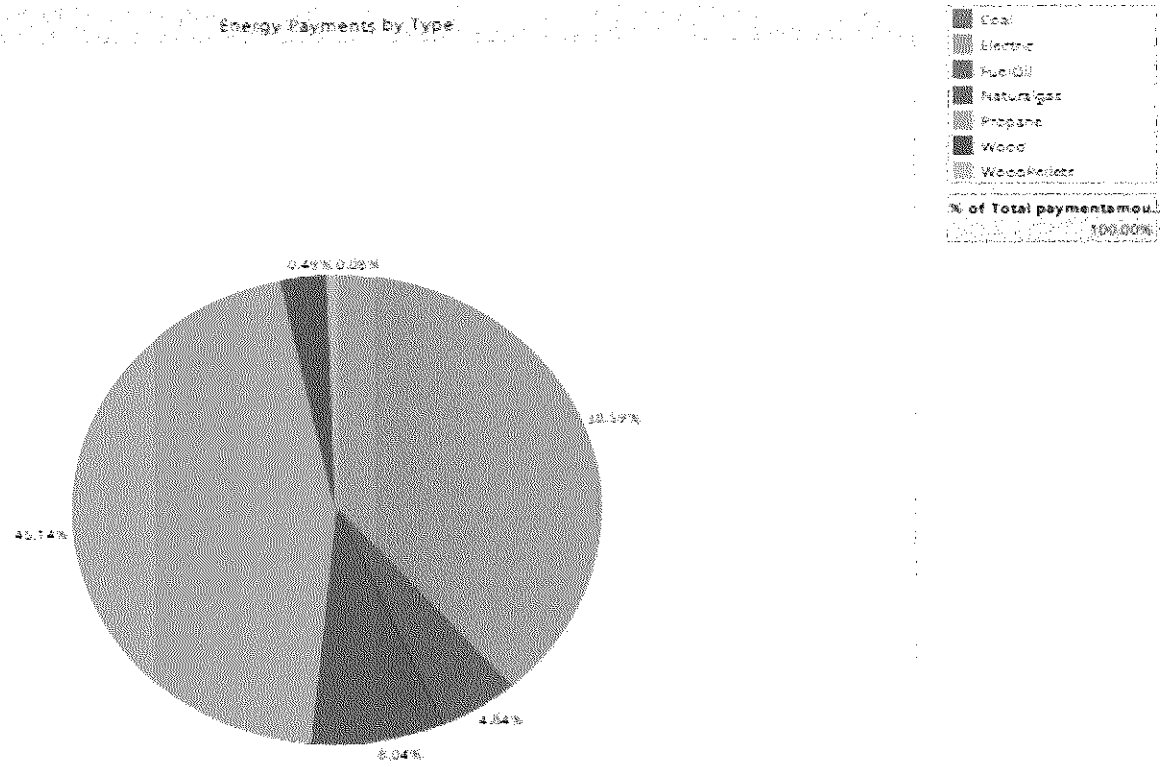
Michigan Rural Realities: Dependence on Deliverable Fuels



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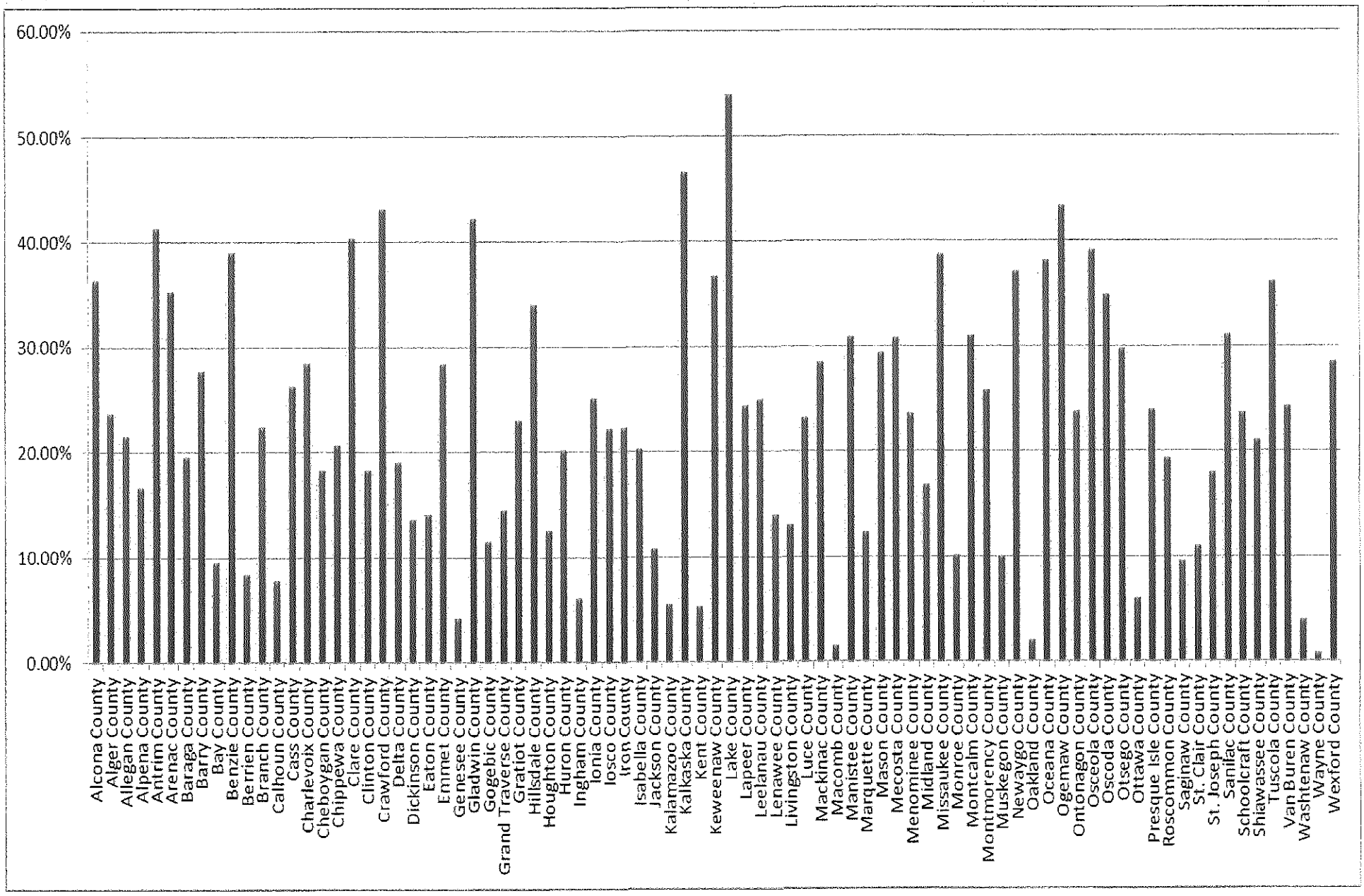
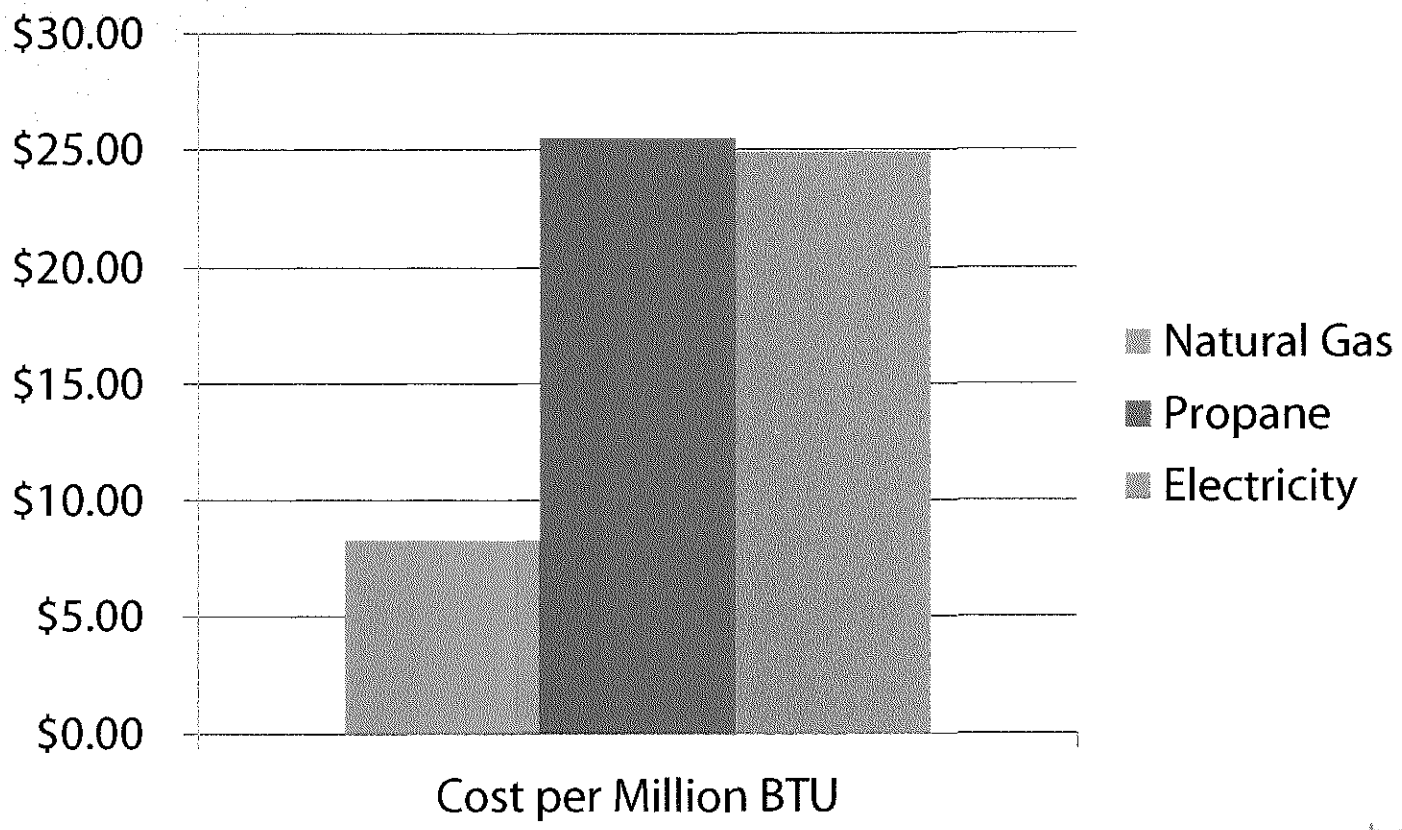
Michigan Rural Realities: Percent of Households Using Propane



Michigan Rural Realities: High Cost Energy Sources



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Michigan Rural Realities

- Northern rural Michigan is dependent on higher cost deliverable fuel energy sources
- High rates of poverty in rural north Michigan increase the impact of high cost energy sources
- Rural Michigan needs efficient and effective solutions to ensure the safety of vulnerable residents
- Future policy solutions to meet Michigan's energy needs must account for rural realities
- Rural Michigan needs a voice in future policy solutions

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If you wish to speak today, please complete the following:

Name: FR. CIPRIAN STREZA (DIDN'T SPEAK)

Affiliation (if any): ARCHANGEL GABRIEL ORTHODOX CHURCH

Phone: 231-492-0493

Email: fatherciprian@gmail.com

Topics you wish to address today:

a. ___ **Renewable Energy Portfolio Standards**

b. ___ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): _____

Requested time to speak: X **< 5 minutes** ____ **5 minutes**

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If you wish to speak today, please complete the following:

Name: BRIAN JOHNSON

Affiliation (if any): E3 INC

Phone: 231-313-6437

Email: bjohnson@E3inc.US

Topics you wish to address today:

a. ___ **Renewable Energy Portfolio Standards**

b. ✓ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): _____

Requested time to speak: X **< 5 minutes** ___ **5 minutes**

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E Three, Inc.
12719 S. West Bayshore Drive
Suite 10
Traverse City, MI 49684
www.e3inc.us

Michigan Energy Public Forum

First of all, thank you Governor Snyder, for taking your valuable time, to gather information on this very important issue.

My topic today is: In Response to question #16, Energy Efficiency in commercial and multi-tenant buildings. By improving the "Energy Footprint" of these buildings, we will guarantee that Michigan will be able to compete in both the national and global markets.

Today, in Michigan, we find ourselves playing catch-up in the understanding of how our buildings use energy. When most of our buildings were built, Energy use was not a high priority, because energy was cheap and interesting architecture was one of the most sought after components in the building process.

It became necessary to look at the building's operating systems with a scientific approach, and today this has happened. Newer construction in the last 10 years has been driven by the desire of building owners, architects, engineers and contractors to work together to design and construct more sustainable buildings. Further, these buildings need to be re-commissioned every 5 to 7 years.

The rebate process has been a huge success, with large rebates for upgrading lighting. In many cases, this reduced consumption has resulted in paybacks in less than 2 years. But this is only a small part of the work that needs to be done with building infrastructure to reduce operational costs. Building owners want the same return on investment, when upgrading their HVAC systems, as they received through upgrading their lighting systems. Unfortunately, due to the initial cost of

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www.e3inc.us

HVAC equipment, these very quick paybacks are not achievable. However, considering the long life of the products, the benefit to the health of the Occupants, and the environment, HVAC equipment upgrades are a very important part of sustainability. Also, because the engineering costs associated with designing or redesigning HVAC systems are much higher, than lighting systems, Owners are unable to fit these costs into their budgets. For these reason, greater focus needs to be placed on creating more rebates and incentives for HVAC retrofits. In addition to rebates and incentives for retrofits, I would like to recommend that an incentive be introduced to require professionally engineered HVAC system design. By requiring a professional for the design It will give a higher rate of success and a better return on investment.

In closing, HVAC systems are evolving rapidly. Within the last 10 years the efficiency of many boiler systems has increased 15% or more. Many other major components of HVAC systems have also seen increases within the same range. But in order to take advantage of this recent rise in efficiency, all of the components must work together in a well-orchestrated manor. If the HVAC design or re-design, in a retrofit application, is not well thought out these high efficiency products will not achieve their potential savings. And in some cases, if misapplied, may damage the equipment or achieve little or no savings. With all of this in mind, I suggest that the design by a professional engineer be a requirement for all projects submitted for rebate and incentive applications.

With Michigan playing catch-up and the large amount of inefficient buildings in this State, expanding efficiency policies in this way will make the programs more effective, encourage more HVAC projects, and create many more jobs.

Thank you for this opportunity to present.

Brian Johnson
231-313-6437
bjohnson@e3inc.us

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If you wish to speak today, please complete the following:

Name: Jim Carruthers

Affiliation (if any): City Commissioner TC

Phone: Board member TCLP

Email: 231-922-7768

jccarruthers@gmail.com

Topics you wish to address today:

a. ✓ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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April 22, 2013, Michigan Statewide Energy Forum
Comments submitted by: Jim Carruthers, City Commissioner
City of Traverse City and Board member TCL&P

Thank you Commissioner Quackenbush and Director Bakkal for this opportunity to speak before you today.

My name is Jim Carruthers and I am a City Commissioner here in Traverse City and a Board member on TCL&P, a publicly owned municipal utility.

I will be speaking broadly to QUESTION 3 – Will 2012 standards continue to be achieved at and beyond 2015? and QUESTION 34 – Are other states making their standards?

It is appropriate that we are gathering today, April 22nd, to discuss clean energy opportunities on Earth Day, a day the world comes together to focus on our living planet and to support our clean air and water that surrounds us.

Renewable energy can help meet critical national and state goals for fuel diversity, price stability, economic development and improving our environment, public health and energy security. In addition, survey after survey shows that Americans STRONGLY favor clean renewable energy sources and national policies to support them.

State leadership has demonstrated that Renewable Portfolio Standards can reduce market barriers and stimulate new clean energy markets, which has driven the clean energy economy. It has also allowed utilities to work toward Grid Parity, the levelizing of costs that is less than or equal to the price of purchasing power from the electricity grid.

Our state commitment of 10% is an excellent start but a stronger renewable standard should now become a cornerstone of Energy Policy, which bottom line can create needed jobs in our state.

I'd like to point out that four years ago, TCL&P had a renewable goal of 30% renewable by the year 2020 and now exceeds the state standard of 10% at 14% renewable currently.

29 States and Washington DC currently have adopted Renewable Energy Standards which have doubled the amount of renewable energy capacity in the United States.

By 2025, new renewable energy production from all state standards will reduce annual carbon dioxide emissions by more than 183 million metric tons. By example this level of reduction is equivalent to taking 30 million cars off the road or planting 44 million acres of trees – an area the size of Washington State.

The Colorado Senate will soon pass Senate Bill 252 increasing the state renewable standard from 10% to 25% for rural electric cooperatives.

Colorado was the first state to create a renewable standard back in 2004 and in 2007 they increased it to 20% and is just one of the states looking at expanding their Renewable Portfolio Standard at this time.

In 2010, Colorado Governor Bill Ritter signed House Bill 1001 into law expanding Colorado's standard to 30%.

Between 2005 and 2010, the clean technology sector in Colorado grew by 32.7% and now has over 1600 clean technology companies employing over 19,000 workers – forth in the nation and the only sector to grow in the state.

Increasing our Renewable Standard in Michigan could also bring benefits such as needed jobs, energy security and clean air to Pure Michigan. I'm sure you have seen the great efforts our Michigan utilities have made at clean energy production as you drive through the Thumb of Michigan and South of Cadillac near McBain.

States all across this great county of ours are joining together to develop greener energy solutions for a greener and cleaner future for our next generations to come.

Here in the North, we rely on our Clean Air, Clean Water and Clean Living as our base for our thriving agricultural and tourism industries, which make Traverse City and Northern Michigan a jewel in our great state.

Please ask Governor Snyder to consider supporting raising Michigan's Renewable Energy Standard above the current 10% and please don't let patrician politics erode efforts at keeping Pure Michigan Pure, something we all hold close to our hearts here in the North and across our great state.

Again, thank you for this opportunity to speak before you today. I will submit my written comments for the record.

Jim Carruthers
City Commissioner, City of Traverse City

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If you wish to speak today, please complete the following:

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Affiliation (if any): CITIZENS CLIMATE LOBBY

Phone: 231 223 4465

Email: EDELBUONO@MHC.NET

Topics you wish to address today:

a. ___ **Renewable Energy Portfolio Standards**

b. ___ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. X **Other Additional Energy Topic**

(Please specify): CARBON TAX

Requested time to speak: 3 **< 5 minutes** ____ **5 minutes**

Please leave a copy of any written or electronic materials at the welcome center.

2:15pm

First, I would like to thank you, Commissioner Quackenbush and Director Bakkal, for the opportunity to express our opinions here today. My name is Lisa Del Buono and I am a surgical pathologist who has the great privilege to live and practice locally.

As a mother, I am deeply concerned about the health of our planet and how that might impact my son's (and all of our children's) future and that's why I am here today.

There is no question that climate change is real. Scientists agree that 350 parts per million of CO2 in the atmosphere is the safe upper limit for a diversity of life on this planet, including human life. We currently are at 393.84 ppm and it is rising.

Burning fossil fuels releases CO2 into the atmosphere. No other industry is allowed to release its waste products unchecked.

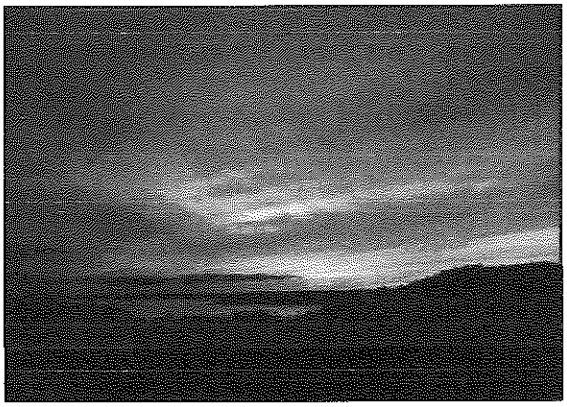
That is why it is critical to move to renewable energy sources and improve energy efficiency standards as quickly as possible.

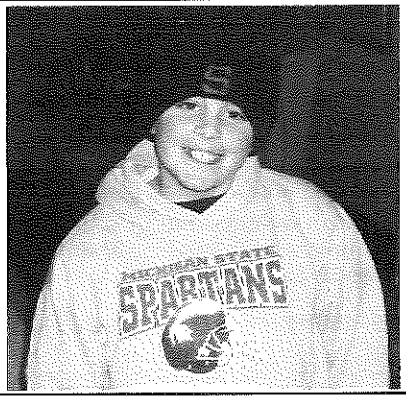
You asked "how would a carbon tax impact the cost of new energy generation in the future" (Question #4 Renewable Energy).

Currently the fossil fuel industry is unaccountable for the damage it does to our society in the form of carbon emissions and its impact on human health and climate.

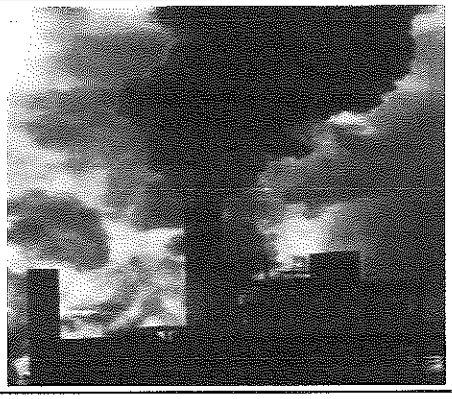
Even conservative economists (Art Laffer-Reagan administration and Greg Mankiw- George W. Bush and Romney advisor), agree a carbon tax would serve to level the playing field and create incentive to move towards renewable forms energy.

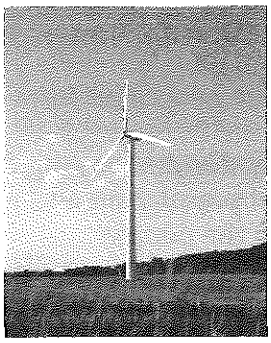
A "revenue neutral" carbon tax is one that would tax fossil fuels at the first point of sale in the range of $15 per ton of carbon increasing annually $10 per ton and lead to a reduction in CO2 emissions to 30% below 2005 levels in about a decade.




MICHIGAN STATE
SPARTANS

WE'RE HERE
392 ppm
WE NEED TO GET BELOW
350 ppm
CO_2 in the atmosphere





What would it do the economy?

- Allow Michigan to lead the way in the clean energy race.
- Opening the market to clean energy and energy efficiency sector.
- Provide a boost to Michigan workers who ideally situated b/c of their experience in the automotive industry.
- Improve overall economic security.

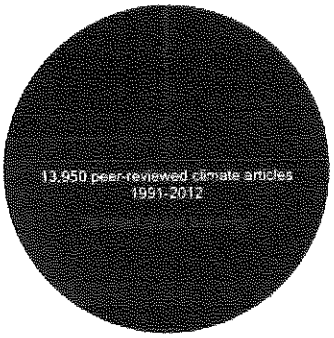
The science is clear! No time to waste!

- For the sake of Michigan workers, our economy, and our children.
- Critical that we move to clean forms of energy and improve energy efficiencies.
- Revenue neutral carbon tax is an ideal bipartisan way to facilitate that process.

Conservative Economists* Support Revenue Neutral Carbon Tax

- By making the fossil fuel industry accountable for the damage they do to society
- Facilitate shift away from carbon based fuels
- Makes clean energy and energy efficiency more attractive to investors.

*Art Laffer (Reagan administration) & Greg Mankiw (George W. Bush administration & Romney advisor)



Scientists Agree!

- Nearly 14,000 peer-reviewed climate change articles published from 1991-2012
- Global warming is real
- Caused largely by human induced CO2 emissions.

*Jim Powell (appointed by President Reagan and the by George W. Bush) member of the National Science Board for 12 years

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If you wish to speak today, please complete the following:

Name: Clay Kelterborn

Affiliation (if any): Twp Trustee (*)

Phone: 989. 963. 9282

Email: _____

Topics you wish to address today:

a. ✓ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

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If you wish to speak today, please complete the following:

Name: Elizabeth Dell

Affiliation (if any): _____

Phone: 231-499-6747

Email: elizabeth@active-pursuits.com

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ✓ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

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If you wish to speak today, please complete the following:

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Topics you wish to address today:

a. ✓ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

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If you wish to speak today, please complete the following:

Name: Kate Madigan X Presentation

Affiliation (if any): Michigan Environmental Council

Phone: 231-633-5353

Email: Kate@environmentalcouncil.org

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ✓ Other Additional Energy Topic

(Please specify): Integrated Resource Planning

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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Improving Integrated Resource Planning

Kate Madigan

April 22, 2013

Thank you Commissioner Quackenbush and Director Bakkal

My name is Kate Madigan, I work for Michigan Environmental Council.

65 members groups – working in communities all over the state. I am based in northern Michigan.

MEC has been actively engaged in utility rate cases on behalf of residential ratepayers for the last ten years.

MEC's Policy Director, James Clift presented at the February event in Lansing. I would like to add remarks to answer Overall Question 1: What information do policymakers need to consider in order to make good energy decisions?

Michigan Energy Plan - Goals

* Control Costs
* Minimize Risk
* Fair Rates for Customers
* Promote Economic Development
* Protect Public Health and Natural Resources
* Preserve Excellent Reliability

To develop a statewide energy plan, we first need to come to a collective agreement that we share the same goals. If we all agree on the same goals it will make investment decisions and policy decisions going forward easier to make.

These are some goals that we think we could all support.

Then we need to align our regulatory oversight process with meeting these state goals.

A prime example of how we can better serve ratepayers and address a number of these goals is through improving the Integrated Resource Planning, or IRP, process.

Integrated Resource Planning in PA 286 of 2008

* Fully evaluate energy resource alternatives
* "Most reasonable and prudent" threshold
* Only major investments (at least $500,000,000)
* Exempts pollution control equipment on old plants
* Has hardly been used so far

An IRP provision was included in Public Act 286 of 2008. It created a process to review major utility investments before they are made, and fully evaluate alternatives (including energy efficiency), to make sure the investments are "most reasonable and prudent means of meeting that power need."

While the IRP provision was a good first step toward resource planning, it has significant limitations. Specifically:

-The IRP is only triggered to review major utility investments – of more than $500 million.
-The IRP exempts environmental upgrades, so expensive projects to install pollution controls in old power plants do not require the IRP process.

As a result, it has only been triggered once in five years. This is hurting Michigan ratepayers!

Exemptions overwhelm expenditures

* Utilities admit upgrade costs could exceed $4.5 billion over the next ten years
* Combined they are already seeking $2.5 billion in rate increases
* IRP exemptions in PA 286 prevent closer scrutiny of rate increases

To illustrate this point, utilities are making significant investments that include upgrades to old coal plants that could exceed $4.5 billion over the next ten years. (From http://www.senate.michigan.gov/committees/files/2012-SCT-ENERGY-09-25-1-02.PDF)

In fact, they are currently seeking authorization to spend $2.5 billion, which will be passed along to ratepayers as rate increases. (Consumers Energy 2011-2014 - $1.4 billion on the five plants they want to continue to run (Karn 1&2, Campbell 1,2 &3. From Case U-17087. DTE - $1.2 billion in environmental compliance through 2017. From DTE Business and Financial Update April 9-10 2013)

This significant level of investment deserves the scrutiny of an IRP. But as I have said, this is not happening.

IRP as Long-Term Planning

Table 1. Planning Horizons Found in IRP Rules.

Planning Horizon	States with Specified Planning Horizon
10 years	Arkansas, Delaware, Oklahoma, South Dakota, Wyoming
15 years	Arizona, Kentucky, Minnesota, North Carolina, South Carolina, Virginia
20 years	Georgia, Hawaii, Idaho, Indiana, Missouri, Nebraska, Nevada, New Mexico, North Dakota, Oregon, Utah, Vermont, Washington
Multiple periods	Montana
Utility determined	Colorado
Not specified	New Hampshire

Synapse Energy Economics, Inc. "A Brief Survey of State Integrated Resource Planning Rules and Requirements." April 28, 2011.

Finally, let me point out that Michigan can learn from examples of more effective IRP processes.

Many states require long-term planning that do not have the $500,000,000 investment trigger, and do not exempt pollution control projects. Instead of being triggered by proposals to build new power plants, IRP in other states simply require comprehensive plans for 10, 15, or 20 years that are updated regularly to ensure **the long-term reliability of delivered energy at the lowest practical cost.** Good IRPs engage a variety of stakeholders and include public input.

Any IRP process for Michigan should also consider the large pollution-related costs to public health and natural resources. While these do not appear on our utility bills, they are very real costs that we end up paying.

By having a more effective IRP process, the great advantages of energy efficiency and renewable energy will be evident as utilities evaluate all the alternatives fairly. It will bring more jobs to our state, lower energy prices, and will reduce pollution.

Thank you for this opportunity to share our views. MEC will also submit written comments by the April 25th deadline. And we look forward to working with the administration on these important issues.

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If you wish to speak today, please complete the following:

Name: Linda Wood (representation

Affiliation (if any): _____

Phone: 231-882-7199

Email: lindawood1971@gmail.com

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. X Other Additional Energy Topic

(Please specify): Turbines longevity

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If you wish to speak today, please complete the following:

Name: Charles Beale

Affiliation (if any): _____

Phone: 231-871-0004

Email: CharleBeale49@Gmail.com

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. X Other Additional Energy Topic

(Please specify): Energy Policy Alternatives

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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If you wish to speak today, please complete the following:

Name: CHARLES WEAVER

Affiliation (if any): MICHIGAN LAND USE INST.

Phone: 989-348-3299

Email: ctejodor@copperinst

Topics you wish to address today:

a. ✓ **Renewable Energy Portfolio Standards**

b. ___ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): _____

Requested time to speak: 3 **< 5 minutes** ____ **5 minutes**

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If you wish to speak today, please complete the following:

Name: Bill Hansen

Affiliation (if any): NMEAC

Phone: 231 421-5540

Email: bdhansen@charter.net

Topics you wish to address today:

a. ✓ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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Michigan Energy Public Forum **April 22, 2013**
Northern Michigan Environmental Action Council Statement

The Board of Directors of NMEAC, one of the oldest environmental organizations in northern Michigan, would like to express our thanks to Governor Snyder for focusing attention on the subject of energy policy through this series of meetings, and for listening to our perspective regarding energy policy for our state. NMEAC has been actively involved with energy issues in our area for some time and considers energy generation to be one of the most important challenges for the future of our state.

As we all know, Michigan, along with much of the rest of the world, has been cruising down a luxurious highway made possible by the rampant use of what seemed like a limitless supply of fossil fuels that would continue to pave this road into an ever brighter future. Today, the same science and technology that made this road so blissful is now telling us that we may be approaching a dead end sign. Dilemmas, such as climate change, weather disturbances, air and water pollution and resulting water shortages can no longer be ignored as natural phenomena; they are increasingly being regarded as red flags alerting us to ominous danger ahead. What are commonly promoted as cheap fixes such as developing so-called clean coal, taking ever greater risks with off-shore drilling, fracking or exploiting biofuels, fail to offer truly healthy, environmentally safe alternatives. In fact many in the scientific world would say that with the continued rate of use of fossil fuels, there may even be a cliff at the end of the dead-end road.

Fortunately, we are we are not without options. Throughout the world nations are racing to develop clean energy as a more sustainable means of supplying the need for power. It is imperative that we engage with them in this endeavor not only for the sake of reversing our dependence on them, but also in reversing our mutual dependence on fossil fuels. Michigan must seek to take the lead in making what are now called alternative fuels into the dominant fuels with fossil fuels becoming the alternative. To push for ever more aggressive ways to extract fossil fuels, compounding their negative effect on the environment and human health, is not a sensible option.

Northern Michigan Environmental Action Council Post Office Box 1166, Traverse City, MI 49685-1166 231 946-6931
www.nmeac.org

Therefore, NMEAC advocates:

1) That it be made a state supported policy to inform the consuming citizenry of the full and true long range cost of the continued use of fossil fuels rather than a cost analysis based on current market prices. This would mean that the cost basis would include all externalities such as health care costs resulting from burning fossil fuels, the costs of obtaining them, transporting them and the resulting environmental impact projected into the future, hopefully as far as seven generations as suggested by the Native Americans from whom we inherited the land.

2) The immediate cessation of any and all public subsidies for the further development of both the securing and consumption of fossil fuels.

3) Providing encouragement through financial incentives to further the research and development of sustainable energy sources such as wind, solar and other sources as continuing research might suggest.

Bill Hansen
NMEAC Board Member

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If you wish to speak today, please complete the following:

Name: Matthew Schoech

Affiliation (if any): _____

Phone: 231 932-1653

Email: Kingsley phoenix@hotmail

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): Good Energy vs Bad Energy Decisions

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If you wish to speak today, please complete the following:

Name: Elizabeth Rosan Kirkwood

Affiliation (if any): FLOW (For Love Of Water)

Phone: (231) 944-1568

Email: liz@flowforwater.org

Topics you wish to address today:

a. ___ **Renewable Energy Portfolio Standards**

b. ___ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): _____

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FOR LOVE OF WATER

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Elizabeth Kirkwood

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TRAVERSE CITY, MI 49684

231 944 1568

INFO@FLOWFORWATER.ORG

April 22, 2013

MEMORANDUM

To: Michigan Public Service Commission Chairman John D. Quackenbush
Michigan Energy Office Director Steve Bakkal

From: James M. Olson, Chair, and Elizabeth R. Kirkwood, Executive Director

Date: April 22, 2013

Re: ***Elevating the Water-Energy Nexus: Bringing Water to the Center of the Conversation***

Overview: Water is Central to Our Energy Choices

Si Quaeris Peninsulam Amoenam Circumspice, "If you seek a pleasant peninsula, look about you." This is the motto on the Seal of the State of Michigan. Water defines Michigan – its quality of life and economy. This is what Pure Michigan is all about. Water and energy are inextricably linked. When it comes to shaping and forming an energy policy for Michigan, it must necessarily be compatible and harmonious with Michigan's close connection and dependence on pure and sustainable freshwater for present and all future generations.

Water is used or lost in energy resource extraction, refining and processing, transportation, and electric power generation. And yet, the true value and cost of water is rarely calculated and balanced in our energy decisions. By 2035, the amount of water consumed for current energy production is projected to double, according to the International Energy Agency. This is particularly significant in the context of increasing water scarcity from pollution, waste, drought and human-induced climate change and impacts. Adopting a strong renewable energy policy is good for water, good for jobs, good for the environment, and good for energy affordability.

Given the clear interrelationship between energy, food, and water, we can no longer "silo" these sectors; rather we must improve decision-making with greater integration and collaboration between water resource management and energy production. This calls for a new vision that recognizes the nexus between water, energy, food, and climate change. FLOW ("For Love Of Water") is a proponent for establishing and applying principles that unify and protect the integrity of the water cycle that flows through this nexus. To make this shift, *we must view water in a different light where water becomes the starting point for everything we do*. Without water the health of our people, economy and ecosystem are diminished. If we allow our policies to overwhelm and jeopardize water or run in directions incompatible with protection of the integrity and sustainability of our water, our state faces a "boom or bust" economy and continued erosion of the quality of our lives and entrepreneurial and business capacity.

Role of Renewable Energy, Energy Efficiency and Conservation
We cannot sit idle anymore; rather we must adapt our current fossil-fuel economy to one with low-carbon and low-water footprint. Water in effect must become the center of everything we do, such that shifting to renewable energy becomes the obvious energy choice and addresses the root causes of receding water levels so that we do not jeopardize our current and future way of life.

Michigan is already seeing renewable energy sources like wind becoming more cost effective and affordable to our businesses and citizens than polluting traditional sources like coal and oil. Wind is at 4.5 cents/KWH as opposed to traditional blended energy sources at 7.6 cents/KWH. The benefits of renewable energy are clear: affordable, clean, stable rates, Michigan job generator, minimal water use, and protective of human health and the environment.

In addition, Michigan should promote energy efficiency and energy conservation in all sectors because it is the cheapest, cleanest, and most quickly deployed source of energy.

Charting the Water-Energy Path
Energy, water, and climate change must be viewed as one and the same issue. Moreover, the State of Michigan and its sister states have a responsibility to their citizens under the Great Lakes Compact and the public trust to protect our waters' integrity, flow, and quality. This means that water cannot be ignored as part of our energy policies.

To chart a clean energy future, Michigan must embrace its innovative manufacturing traditions and promote renewable energy sources to reduce pressure on water resources and limit adverse climate change impacts. We urge Michigan to become a leader in renewable energy, and at a minimum compete with other leading states that currently generate 20% or more of renewable power with excellent reliability. Once we chart this path, then we can proudly say we are living up to our motto: "Pure Michigan."

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If you wish to speak today, please complete the following:

Name: JUNE THADEN

Affiliation (if any): NMEAC, Grand Vision Energy Network

Phone: 231 947-8476

Email: jthaden@charter.net

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. X Other Additional Energy Topic

(Please specify): #3

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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Statement: June E Thaden
NMEAC Board Member, member of the Grand Vision Energy Network

Thank you, Commissioner Quackenbush and Director Bakkal for this forum, and the opportunity to speak about the critical future energy policy of the State of Michigan. I come here as a Michigan citizen, born in Midland and a resident of Traverse City for the past 33 years. I am a Board Member of NMEAC (the Northern Michigan Environmental Action Council), and a citizen member of the Grand Vision Energy Network.

I am very interested in the future of Michigan and the whole earth itself. I have followed closely the rising concerns about climate change and the inadequate energy policies on the federal level. I hope that the new Michigan Energy Policy will meet the challenges of our planet's future.

I am responding mostly to Question 3. I don't speak from a technical background – I don't know the jargon, though I have read extensively. I am responding as a grandmother who is very concerned about the future my adult grandkids will have on a planet that we are polluting so greatly that it may be inhabitable in their children's life times.

Hydraulic fracturing concerns me greatly, for these important reasons.

Water

1. Our drinkable water is a finite resource. Here in Michigan we must be the protectors of 20% of the earth's fresh water. We must not do anything to pollute or jeopardize the Great Lakes water quality.

2. Fracking uses quantities of water, which is forever polluted and will not return to the potable water supply. Industry spokesman, Bill Stolzer, stated at a Town Hall on April 16, 2013, that 5 million to 20 million of fresh, usually surface, water is used for each horizontal hydraulic fracturing well. Stolzer emphasized that this is a one time use of that water.

3. Some of the waste water remains in the original fracked well, and has the potential of escaping to contaminate the ground water. Concrete casings of wells have been known to develop cracks. The waste water that escapes from a horizontal fracking well must be captured, transported and forced into a waste disposal well – with consequences we don't know.

4. The oil and gas industry should fully use the groundwater assessment tool to show the cumulative impact of the water withdrawal from an area. This industry should not be exempt from the Clean Water Act, or any other laws and regulations that others must observe.

Finally the Economic and environmental consequences:

The oil industry already has reserves 5 times greater than the amount of contaminants that the climate scientists have agreed will cause the temperature level where life on earth becomes

impossible. Therefore we must cease endless exploration of new resources, cease subsidizing the fossil fuel industries, and redirect that money to support of the development of renewable energy sources. Remember that our county has subsidized most new industries important in our development, including coal, oil & gas, highways and air travel.

Efficiency in the use of power can save dollars, and help bridge the transfer to the new renewable sources. When all the external costs are included, renewable energy sources are cheaper and cleaner, will grow jobs and our economy, protect our earth and the lives of our grandchildren.

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If you wish to speak today, please complete the following:

Name: James M. Olson

Affiliation (if any): FLOW (For Love of Water) Chair

Phone: 231 944 1568

Email: jim@flowforwater.org

Topics you wish to address today:

a. ✓ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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If you wish to speak today, please complete the following:

Name: RANDY SMITH

Affiliation (if any): RENEWABLE SERVICES, LLC

Phone: 231-933-1264

Email: RANDY@TRASHBUDDY.COM

Topics you wish to address today:

a. X Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

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If you wish to speak today, please complete the following:

Name: Jim Rowlett

Affiliation (if any): Poverty Reduction Initiative

Phone: 922-5050

Email: _____

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. X Other Additional Energy Topic

(Please specify): Cost to Consumers

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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If you wish to speak today, please complete the following:

Name: Charles Cauley

Affiliation (if any): Prometheient llc

Phone: 231-633-1702

Email: ccauley@charter.mi.net

Topics you wish to address today:

a. ✓ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): Ground loop heat pumps
Waste heat recovery

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If you wish to speak today, please complete the following:

Name: Alison Heins

Affiliation (if any): _____

Phone: 231-228-7029

Email: aheins17@gmail.com

Topics you wish to address today:

a. ✓ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

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Remarks for Michigan Energy Forum, April 22, 2013, in Traverse City

Thank you Commissioner Quackenbush and Director Bakkal, for this opportunity to comment.

My name is Alison Heins and I am here representing myself, along with family and friends who believe in and hope for a cleaner, more sustainable energy future.

My personal connection to what we today call "green energy" dates back to the late 1970's, when my family and I were living in eastern Iowa. We moved to Michigan in 1980 and I joined the faculty of the Jordan College Energy Institute to develop and manage the library.

I am addressing Question 1 on the the Governor's list, *What information do energy policy makers need to consider in order to make good energy decisions?*

Any state energy policy must put energy efficiency first; this is our cleanest energy option. Our state is well positioned to manufacture such things as energy efficient vehicles and efficient electric motors.

Next, state energy policy and utility planning should emphasize greater use of renewable energy sources, which have no fuel costs attached. These can provide a price buffer against unknown, but surely rising future fossil fuel prices.

We think of Michigan as a cloudy state, but in fact, during the summer we have as much solar as Jacksonville, Florida. On hot summer days when air conditioners and fans are running full blast, solar electric power provides an important hedge against costly peak demand.

- Michigan's 10% Renewable Energy Standard is weak compared to most other states, yet our manufacturing base is perhaps the strongest in the nation. Our skilled workforce and fine research universities have enabled us to take good advantage of the weak standard very quickly. While the Michigan Public Service Commission report states that Michigan is on track to meet the Renewable Energy Standard by 2015, the document also states that only around 3.6 percent of Michigan's electricity currently comes from renewables. In comparison, 21 percent of Iowa's electricity already comes from renewables, and according to the Iowa Renewable Energy Association, Iowans are headed for 40% by 2020. So we can, and must, set a much higher goal for ourselves.

- Michigan's Renewable Energy Standard is directly sparking Michigan's economy, generating $100 million in investments, spurring manufacturing and business growth, and creating jobs, according to a 2012 report of the Energy Innovation Business Council. Michigan's advanced energy manufacturing sector – solar, wind, advanced energy storage and batteries, and biomass – generates $5 billion a year in economic activity and supports 20,500 jobs a year.

To conclude, Michigan's engineering expertise, skilled workforce, and entrepreneurial businesses provide big opportunities for the renewable energy sector to provide jobs in Michigan. We must take a more aggressive approach as our state energy policies are developed.

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If you wish to speak today, please complete the following:

Name: Heather Miller

Affiliation (if any): _____

Phone: 331-4594

Email: heather@elkrapids.net.com

Topics you wish to address today:

a. ___ **Renewable Energy Portfolio Standards**

b. ✓ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): _____

Requested time to speak: ✓ **< 5 minutes** ____ **5 minutes**

Please leave a copy of any written or electronic materials at the welcome center.

Hello and thank you Commissioner Quackenbush and Director Bakkal for allowing me this opportunity to comment on energy policy changes. My name is Heather Miller. As a mother and grandmother, I am worried about climate change. I want to see Michigan reduce its use of fossil fuels and increase the use of renewable energy. I see energy efficiency as an important step in that development.

I would like to comment on the governor's question #10 about what has been accomplished with regard to energy efficiency and what more is possible.
Michigan is making good gains in energy efficiency improvements, projecting an approximate 8% reduction over 2008 levels by 2015. There is still a lot of low hanging fruit out there. The McKinsey Global Energy and Materials report "Unlocking Energy Efficiency in the U.S. Economy" estimates that energy efficiency measures could save up to 23% of projected demand levels by 2020.

I would like to see the State and Michigan Saves work together to expand their loan

program to businesses, institutions and individuals by offering lower interest rates, 3% rather than the current 7%. Since as the Governor stated the default rate on these loans is 30 times lower than others, why not reward that. Lower rates would quickly help many, more people afford efficiency improvements.

Improvements in efficiency will create more jobs for contractors and tradespeople. Vermont, for example, who is in a similar weather range and must, like us, import their fuel, estimates that every dollar spent on energy efficiency stimulates $5 in economic benefits to their state, while most of every dollar spent on producing fuel goes out of state. Efficiency saves ratepayers money by decreasing our need for more plants and transmission lines, and less energy produced means a cleaner environment by avoiding the use of fossil fuels.

There is no better way to produce cheap, reliable, abundant energy, than supporting consumers in using energy wisely. Every bit of coal we don't have to buy outside the state and transport here, every kilowatt of energy we

don't have to transmit from a coal plant to a home, every milligram of carbon we don't put in our air will benefit every person in Michigan forever. A long term, reliably-funded, low interest, loan program for making energy efficiency improvements in homes, schools and businesses will continue to create new jobs for Michigan. Jobs, reduced costs and cleaner air. We need those in Michigan.

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If you wish to speak today, please complete the following:

Name: Bill Latka

Affiliation (if any): Resident & member ~~of~~ of electric coop

Phone: 310-990-1938

Email: BLatka@me.com

Topics you wish to address today:

a. X Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

Predicted costs to new energy generation

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

Please leave a copy of any written or electronic materials at the welcome center.

You are encouraged to submit written feedback at www.michigan.gov/energy.

Comments from Bill Latka

I'd like to thank the commissioners for this opportunity to comment about Michigan's energy policy.

My name is Bill Latka. I am a resident of Long Lake Township, outside of Traverse City, and own a film production company in Traverse City. I've been involved for the past few years in the Grand Vision – the regional planning initiative here in northwest Michigan. I'm also a member of Cherryland Electric Coop. The discussion about building a proposed new coal plant in Rogers City will directly affect my family and me, which is why I'm here today.

I'd like to answer renewables question #4: What are the predicted costs of new energy generation by type in the future?

There are two costs I'd like to address. The first is the cost of the fuel needed to operate a new coal plant. First of all, Michigan doesn't mine coal. We get it from other states. The money spent on this coal is a huge expense that leaves our state, and does absolutely no good for our economic sustainability.

The purchase price of this coal is rising rapidly. According to an article in the Washington Post, "That's because of rising costs of transportation, explosives, wages — and geology. In most areas, companies first dig coal from areas that are easiest and cheapest to access – they start with the thickest, richest seams. Over time, however, it becomes more expensive to mine." We're seeing all these effects in the cost of coal. Here's a chart from the Energy Information Administration that shows how the cost of coal for Michigan has risen 205% between 2004 and 2011. This upward trend is projected to continue.

The MPSC said that energy costs related to the construction and operation of the Rogers City coal plant would increase residential energy costs by $76 per month per household. This is a cost I'd like to avoid.

The second cost of coal is to our health and well being: Missing from the sticker price are coal's major impacts on ecosystems, human health, and our economy.

- People are sickened by pollution from coal fired power plants, shortening their lives and burdening the health care system with costly care.
- Fish are poisoned when coal mines dump waste into streams, and mercury from the burning of coal contaminates our lakes.
- We are being heavily impacted by global warming from the carbon dioxide that burning coal spews into the air.
- As taxpayers we pay to subsidize coal use and clean up its aftermath.

Comments from Bill Latka

The Clean Air Task Force did a study in 2009, citing the River Rouge coal plant in southeastern Michigan: they said River Rouge Power Plant alone is annually responsible for 44 deaths, 72 heart attacks, and 700 asthma attacks in the surrounding community. That's one coal plant.

Energy executives jump up and down about the relatively inexpensive cost of coal compared to renewables, but I'd like to point out that their math is flawed! They don't pay for the disposal of the waste product – CO2 and the ill effect of human and ecosystem health! These are known as externalities. In a 2011 report by the *Annals of the New York Academy of Sciences*, on the full cost accounting for the life cycle of coal, they find that for coal generation, the "total cost of these externalities ranges from approximately 9 to 27 cents per kilowatt-hour (kWh) of electricity generated, with a median of approximately 18 cents per kWh." And that's not even accounting for the cost of the coal itself!

All this pressure to build an unneeded and costly coal plant in Michigan is delaying the urgently needed transition to cleaner alternatives and accelerating the climate disruption that is already putting our communities at risk.

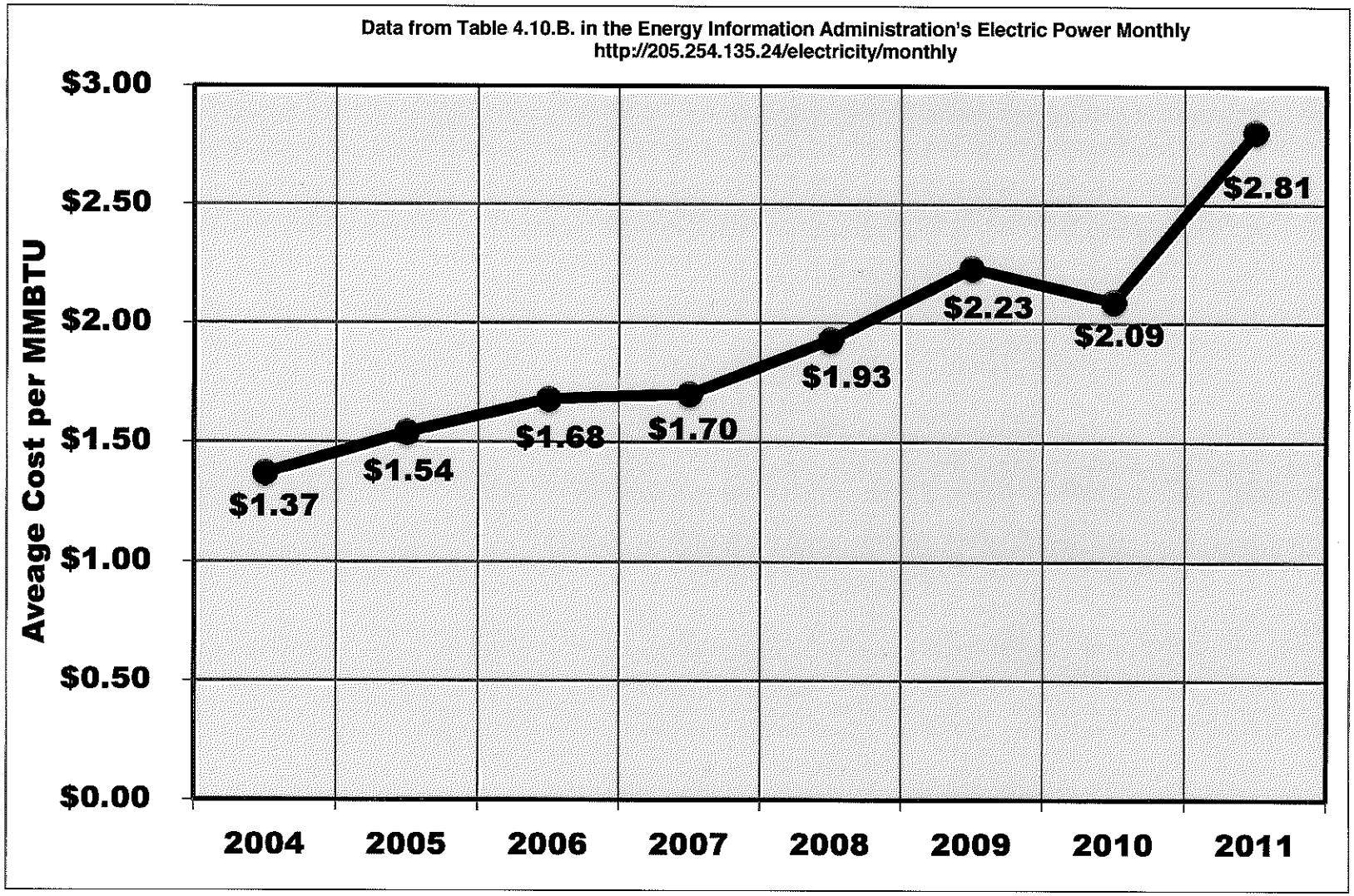
I'd like to compare for a moment the costs electricity generation. The US Energy Information Administration said that the average levelized cost (which are all the costs, like the building, the operation cost, fuel cost, financing, maintenance, etc) says that in 2009, coal was at 9.48 cents per Kwh, and that's not including the average .18 cents of coal externalities! But the cost of wind was at 9.70 cents per Kwh – which was comparable to coal.

And to make this even simpler – the cost of the fuel source for coal - that is sent out of state by the way - is huge. For renewables, there is NO fuel cost. No chance it'll go up, and very few if any externalities for renewables like wind and solar. I think this makes renewables an easy choice for the future of our energy production in Michigan.

To wrap it up - the Stone Age didn't end because we ran out of stones. It's time to wake up, and look at the horrible situation we've gotten ourselves into from a cost, and climate, and human health standpoint with the 20th century technology used for fossil fuel energy production – and to fully embrace renewables that don't have a detrimental effect on our climate, or our wallet.

Thank you.

MICHIGAN AVERAGE COAL COSTS 2004-2011



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If you wish to speak today, please complete the following:

Name: Susan Oheadon

Affiliation (if any): _____

Phone: 231-228-5920

Email: slwheadon@gmail.com

Topics you wish to address today:

a. X Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

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If you wish to speak today, please complete the following:

Name: GUENTHER LENGNICK

Affiliation (if any): –

Phone: 231 8695371

Email: glengn@t23.net, com

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. X Other Additional Energy Topic

(Please specify): WIND TURBINES IN THE LAKE
NO MISTAKE IN THE LAKE

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If you wish to speak today, please complete the following:

Name: Kim Laverty

Affiliation (if any): Enercom Energy Inc

Phone: 231 883-3331

Email: K.Laverty@enercomenergy.com

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. X Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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By Consumers Energy. After all this we contacted C.E. to come and connect the phone line to the meter, (again - the offer was made and accepted. C.E. now replied it was an error - a mistake - we have no capacity available - (and they are not honoring their offer. Calling my client about this was not a call I enjoyed making. Shame on you Consumers Energy. -??

Enough said about that. Lets talk about DTE Energy. Did you know that DTE acts as an alternative electric supplier ~~and or does business~~ in the state of Ohio, But their own DTE electric customers here in Michigan are not allowed the same privilege.

In the state of Michigan we need to end the monopoly that DTE and C.E. enjoy and allow electric choice to happen and quickly. We need to put people first, put em back to work, keep our industrial and manufacturing base here as well as attract new comers to Michigan. An open retail electric market will allow this to happen. We are able to shop competitively for other services, phone, internet, TV, home heating and natural gas. Why not electric.

In ending, I would like to mention the more recent right to work laws and the emotion that was shown to Lansing and thus a quick passage of legislation. How about our right to choose an electric provider. Michigan needs to be competitive not 1 year or 2 or 10 years from now. Again, we need to be competitive now!

We ask, and I ask on behalf of our business partners to our state representatives and Gov. Snyder. Open up electric choice now! and especially consider those in the queue

Thank you

Kim Laverty / Agent / Enercom Energy Inc.

Kim LAVERTY
ENERGY FORUM APRIL 22/12

(1)

Welcome to our state representatives and business partners that made the trip here today. I represent Energcom Energy. We are the nations leading alternative energy savings agency based in Bingham Farms Mich but do business in other states as well. We are unique in that we rep. for multiple natural gas and electric suppliers of our choosing. This is how we obtain our clients the best rates at a particular point in time.

In Oct 2008 legislation was passed that only 10% of DTE Energy and Consumers Energy electric generation capacity could be made available for competitive pricing. It was filled by Aug 12, 2009 in Consumers area and Dec 9th 2009 in DTE electric areas.

We at Energcom have over 1000 clients in the Mich Electric Queue (The waiting list - asking for the right to receive competitive pricing.) The TOTAL number is approaching 11000. The lucky 10% that got in have a competitive advantage. Savings can run 30% or more.

Consider this - In Michigan sagging economy if you are a major manufacturer and looking to open or expand your business, you might consider locating in OHIO versus Michigan if you could save 30% on your electric costs. Michigan's electric costs are higher than the national average and highest of our midwest neighboring states. The average Michigan rates up 28% since the cap. Compare this to IL and OHIO which are deregulated electric states. Illinois rates up only 1% and OHIO rates up only 14% in the same time period. (See this in the recent Detroit NEWS article) So allowing competitive pricing does work for the electric providers as well as saving the end users serious money.

Under the ~~(10% electric cap)~~ (2008 Legislation) DTE and C.E are required to keep the 10% of capacity filled, ~~due to closures etc.~~ I recently had a business client here in Northern Michigan that was released from the Queue and they could take the opportunity to receive choice competitive pricing. I obtained them a 3yr fixed price from my supplier (savings of app. 40m dollars.) We prepped the site, hired a contractor to install a phone line as required -

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If you wish to speak today, please complete the following:

Name: JAMES W. WILLIAMS

Affiliation (if any): ENERCOM INC.

Phone: 5867644357

Email: J.WILLIAMS@ENERCOMENERGY.COM

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. X Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): NO GAP, DTE IS IN OTHER STATE

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If you wish to speak today, please complete the following:

Name: ~~[illegible]~~ Hayes, Michael

Affiliation (if any): _____

Phone: 231-585-6922

Email: mjhholly@avci.net

Topics you wish to address today:

a. X **Renewable Energy Portfolio Standards**

b. ___ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): _____

Requested time to speak: X **< 5 minutes** ____ **5 minutes**

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If you wish to speak today, please complete the following:

Name: MATT VAJDA

Affiliation (if any): GLREA, GTHBA, Voltage Electric

Phone: 231 946-3678

Email: voltageelectric@charter.net

Topics you wish to address today:

a. ✓ **Renewable Energy Portfolio Standards**

b. ___ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): ___

Requested time to speak: ✓ **< 5 minutes** ___ **5 minutes**

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Voltage
Electric Inc.

3283 Wemple Road
Traverse City, MI 49686
phone.231-946-3678
fax.231-946-3687
www.voltageelectric.net

My name is Matt Vajda, owner of Voltage Electric here in Traverse City. We are an electrical contractor with a focus on Solar. I am a member of the Great Lakes Renewable Energy Association and executive board member of the Grand Traverse Area Home Builders. Thank you Commissioner Quackenbush and Director Bakkal, for this opportunity to promote renewable energy in Michigan.

4 points I'd like to make:
1. Peak Load Shedding
2. Job Creation
3. Net Metering
4. Health Benefits

Peak Load Shedding - Across the nation, summer has the highest peak loads due to air conditioning use. Solar produces best during the summer months making it an excellent choice for peak load shedding. Power companies pay around $1 per KWH during those peak times. Solar is a much less expensive, cleaner option.

Job Creation – A strong energy program in MI would benefit our state on several levels. States with the strongest renewable energy programs have the strongest manufacturing of those products. It provides jobs for installers which our colleges and apprenticeship programs have already trained people to install. When we have coal plants, we purchase coal every year and that money leaves MI and never comes back. When you are manufacturing wind and solar, the money stays here in MI and gets recycled amongst the community, also giving us a stable energy cost. When the cost of fossil fuels goes up, our unemployment and foreclosure rates also go up. The cost of fossil fuels continues to increase while the cost of renewable energy continues to decrease.

Net Metering – New Metering has greatly increased the amount of solar being installed, eliminating the need for expensive battery banks. It allows people to spend more money on panels which increases the ability to create solar electricity. I'd like to see the limits lifted on net metering. Some people have a great site for solar while neighbors may be too shaded. Sharing unused electricity with neighbors would again, help with peak load shedding.

Health benefits – Lastly, solar decreases the effects on our health that coal causes. Several studies have concluded that coal burning has caused an increase in asthma and increasing health care cost. This is personal for me because I have asthma, and more and more of my friends are suffering from asthma. I pay $100 per month in prescription co-pays. Add that to the total cost of coal burning and it doesn't look like a very cheap option after all.

Matthew Vajda
Master Electrician, CGP

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If you wish to speak today, please complete the following:

Name: Bob Jones

Affiliation (if any): Michigan Solutions

Phone: 231-590-9901

Email: mentcorporates@netonecom.net

Topics you wish to address today:

a. X Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. X Other Additional Energy Topic

(Please specify): _____

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If you wish to speak today, please complete the following:

Name: Bill Queen

Affiliation (if any): Private Citizen

Phone: _____

Email: wm.queen@gmail.com

Topics you wish to address today:

a. X **Renewable Energy Portfolio Standards**

b. X **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): _____

Requested time to speak: X **< 5 minutes** ____ **5 minutes**

After 4pm, plz.

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If you wish to speak today, please complete the following:

Name: Marcia Curran

Affiliation (if any): citizen stakeholder

Phone: 231-352-4159

Email: curran_marcia@hotmail.com

Topics you wish to address today:

a. ✓ **Renewable Energy Portfolio Standards** and overall

b. ___ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): _____

Requested time to speak: 3½ **< 5 minutes** ____ **5 minutes**

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Comments for the Governor's Energy Forum, Traverse City, April 22, 2013
by Marcia Curran, citizen stakeholder

Qs - Overall 1+2; Renewables Qs 8+10

Thank you for giving me an opportunity to comment on Michigan's energy future, a topic of great importance. Everyone in the world has—and those in generations to come have—a stake in this issue because of its importance to the future health of our planet. We are all major stakeholders. Now is the time to make renewable energy a major, not a token, part of the state's energy portfolio.

We are faced with a very severe threat to our environment, to our fresh water, to our climate, and to our safe and healthy existence on this earth. The threat is human induced climate change—and it is real. We can do something about it. We have the science and the technology to change our current energy mix in such a way as to severely reduce the greenhouse gases caused by carbon based energy. If all the damaging costs of violent storms, agricultural disruptions, pollution of land, air and water from mining activities were factored into the use of those carbon based fuels, renewable energy sources would win the day going away. I note that many of your questions deal with cost; renewables are already cost competitive and effective. And some of them offer the individual citizen the chance to take effective action when political leaders won't. We could meet the goal of a better future if we set a strong goal to move aggressively away from carbon fuels. We need to make that commitment now.

Some personal experience is a case in point: over the last couple of years we have installed PV solar panels on our roof. By tracking the energy production, we have learned that we have produced more than 50% of our electric usage. Net metering works well and we get credit for what we send to the grid. We also have the satisfaction of charging our all-electric vehicle directly from our own solar electric production during the day, so we are not using carbon sourced electricity to charge the EV battery. This is not hard to do! It really works.

Renewables and energy efficiency are no brainers. I hope the state makes it possible for more people to move in this direction with vigor.

I would like to recommend two books that show how we can do this:

Reinventing Fire: Business Led Paths beyond Fossile Fuel by Amory Lovins of the Rocky Mountain Institute

The Third Industrial Revolution: How Lateral Power is Transforming Energy, the Economy, and the World by Jeremy Rifkin

These books offer roadmaps for us. They are used by other governments that have had success putting them into practice. Their authors are Americans who assist organizations in making these urgent and essential transitions. It can be done, it is practical. Not to make this transition to renewables can only be called a failed policy.

Ms. Marcia Curran
940 E Crystal Downs Dr
Frankfort, MI 49635

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If you wish to speak today, please complete the following:

Name: Gary Dillon

Affiliation (if any): Dillon Energy Services

Phone: (586) 541-0055

Email: gwdillon@dillonenergy.com

Topics you wish to address today:

a. ___ **Renewable Energy Portfolio Standards**

b. ___ **Energy Optimization / Efficiency Standards**

c. X **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): _____

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If you wish to speak today, please complete the following:

Name: Jeri deRoi

Affiliation (if any): _____

Phone: 231-709-6472

Email: lightwish2@gmail.com

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): other

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If you wish to speak today, please complete the following:

Name: George Paolucci

Affiliation (if any): —

Phone: 231-932-8757

Email: gpaolucci@yahoo.com

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ✓ Other Additional Energy Topic

(Please specify): _____

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If you wish to speak today, please complete the following:

Name: William Twiddy

Affiliation (if any): Union & Cov Council Scientists

Phone: 231-242-0486

Email: Bill.Twiddy@Gmail.com

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ✓ Other Additional Energy Topic

(Please specify): Business Focus

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If you wish to speak today, please complete the following:

Name: MICKEY SMITH

Affiliation (if any): ARCADIA WIND STUDY

Phone: 231-889-0372

Email: larrymickey@netzero.com

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ✓ Other Additional Energy Topic

(Please specify): _____

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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If you wish to speak today, please complete the following:

Name: Maureen Voss

Affiliation (if any): Concerned Citizen

Phone: 620 3316

Email: maureenavoss@gmail.com

Topics you wish to address today:

a. ___ **Renewable Energy Portfolio Standards**

b. ___ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. X **Other Additional Energy Topic**

(Please specify): Climate Change Concern

Requested time to speak: X **< 5 minutes** ____ **5 minutes**

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If you wish to speak today, please complete the following:

Name: Ric Evans

Affiliation (if any): Paradigm Energy Services, Great Lakes Energy Board of Dir.

Phone: 231-883-3146

Email: ParadigmRic@gmail.com

Topics you wish to address today:

a. ✓ Renewable Energy Portfolio Standards

b. ✓ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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If you wish to speak today, please complete the following:

Name: Henry (HANK) LABATE

Affiliation (if any): N/A private citizen

Phone: 231 709 8839

Email: HALDI@VERIZON.NET

Topics you wish to address today:

a. ___ **Renewable Energy Portfolio Standards**

b. ___ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. X **Other Additional Energy Topic** CARBON POLLUTION &

(Please specify): INEFFIENCY OF WIND AND SOLAR IN COMPARISON TO ABUNDENCE OF NATURAL GAS

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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Monday April 22, 2013
1pm-5pm
Hagerty Conference Center
Traverse City, MI 49686

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If you wish to speak today, please complete the following:

Name: Randy Parsons

Affiliation (if any): Oil & Gas

Phone: 231-499-2747

Email: RandyP0102@Hotail.com

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. X Other Additional Energy Topic

(Please specify): Michigan's Energy Future

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If you wish to speak today, please complete the following:

Name: Margaret Smith

Affiliation (if any): _____

Phone: 231 492 5135

Email: FarrellyRainbow@hotmail.com

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ✓ Other Additional Energy Topic

(Please specify): Fracking Question 10

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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If you wish to speak today, please complete the following:

Name: Betsy Coffia

Affiliation (if any): citizen of Traverse City

Phone: (231)392-4468

Email: _____

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. X Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. X Other Additional Energy Topic

(Please specify): current examples to follow in non-fossil fuel use

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If you wish to speak today, please complete the following:

Name: Aluel Go

Affiliation (if any): Michigan State Univ. - Farm Energy Program

Phone: 517-214-6128

Email: goaluel@msu.edu

Topics you wish to address today:

a. ___ **Renewable Energy Portfolio Standards**

b. ___ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. ✓ **Other Additional Energy Topic**

(Please specify): Renewable Energy - Ag. Sector

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If you wish to speak today, please complete the following:

Name: Shelly Campbell

Affiliation (if any): Sierra Club

Phone: 231-922-2201

Email: shelly.campbell@sierraclub.org

Topics you wish to address today:

a. ✓ **Renewable Energy Portfolio Standards**

b. ___ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): _____

Requested time to speak: ✓ **< 5 minutes** ____ **5 minutes**

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If you wish to speak today, please complete the following:

Name: Lee Williams

Affiliation (if any): TC citizen

Phone: 512-618-9171

Email: leelawill@gmail.com

Topics you wish to address today:

a. ✓ **Renewable Energy Portfolio Standards** question #10

b. ___ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): _____

Requested time to speak: ✓ **< 5 minutes** ____ **5 minutes**

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If you wish to speak today, please complete the following:

Name: Maura Brennan

Affiliation (if any): MLUI, CCL

Phone: 231 645-0827

Email: _____

Topics you wish to address today:

a. ✓ **Renewable Energy Portfolio Standards**

b. ✓ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): _____

Requested time to speak: ✓ **< 5 minutes** ____ **5 minutes**

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If you wish to speak today, please complete the following:

Name: Brenda Aranambo

Affiliation (if any): National wildlife federation

Phone: 231-625-2776

Email: aranambo@sbc-mi.com

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. X Other Additional Energy Topic

(Please specify): Energy and environment

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April 12, 2103 Energy Forum – ~~Marquette, MI~~ Traverse City

Good Afternoon.

Thank you Commissioner Quackenbush and Director Bakkal for the opportunity to speak today. I would also like to commend Governor Snyder for his leadership in hosting these forums.

My name is Brenda Archambo, and I live in Cheboygan. I am the MI Outreach Consultant with National Wildlife Federation, President of Sturgeon For Tomorrow, and President of the Cheboygan County Economic Development Corporation. I am also sportswoman.

I am here today to *Address QUESTION #7: Economic, health and environmental benefits of Renewable Energy*

Michigan's wildlife and natural resources are the backbone of our $5 billion annual recreational tourism economy. The Great Lakes are a national treasure. Our state's history and cultural identity are inseparably linked to our wildlife and natural resources. It is what makes us PURE MICHIGAN!

I believe, and studies have shown that Michigan's economy can be strengthened and jobs created by investing in renewable energy, energy efficiency and conservation, And by using more renewable energy and energy efficiency, we will reduce toxic pollution and give Michigan cleaner and healthier air and water.

Renewable Energy such as wind and solar will:

- Reduce toxic pollution
- Reduce asthma, lung disease, heart disease, and premature death
- Protect the Great Lakes
- And Create jobs

Hunters and anglers realize how important energy is, and we support renewable energy development in Michigan. Responsibly sited renewable energy creates jobs, saves consumers money, protects our health, and safeguards wildlife habitats and the outdoor economy those habitats support.

Sportsmen and women, wildlife advocates, and outdoor enthusiasts want it done thoughtfully, to conserve fish and wildlife habitat, water quality and to reduce toxic pollution. And, given our passion for the land and water, we want a voice in shaping renewable energy strategies.

Investment and growth in properly-sited, wildlife-friendly renewable energy is one of the best ways to reduce pollution, combat climate change, invest in communities, create Michigan jobs, and promote economic growth across Michigan. Renewable energy, developed and sited to avoid impacts to sensitive wildlife habitat is the most economical option to reduce the climate impacts produced by our current dependence on fossil fuels.

Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states. Michigan sends $1.7 billion a year – and the jobs it creates – to other states. Expanding renewable energy and energy efficiency will create more jobs for Michigan workers than maintaining the status quo. It also builds upon our manufacturing strength, talent and knowhow.

Our over reliance on fossil fuels is harming public health, wildlife and our cherished outdoor places.

There are over 600 fish consumption advisories in Michigan, 204 for mercury. All 50 states have fish consumption advisories of some type because of unsafe levels of mercury, PCB's and dioxins. That's just wrong! Reducing mercury, air toxics and industrial carbon pollution will help protect our long standing investment in our outdoor heritage.

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If you wish to speak today, please complete the following:

Name: Cheryl Bartz

Affiliation (if any): Citizens Climate Lobby (Member)

Phone: 231.383.4062

Email: cherylbartz@hotmail.com

Topics you wish to address today:

a. ✓ **Renewable Energy Portfolio Standards**

b. ___ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): _____

Requested time to speak: ✓ **< 5 minutes** ____ **5 minutes**

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If you wish to speak today, please complete the following:

Name: PAUL PHILLIPS

Affiliation (if any): LOCAL

Phone: 231 342-1955

Email: PPhillips@gtcontainer.com

Topics you wish to address today:

a. ___ Renewable Energy Portfolio Standards

b. X Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

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Thank you to Commisioner Quakenbush, Director Bakkal, and everyone involved with this opportunity to discuss Renewable Energy & Energy Efficiencies...

My name is Paul Phillips and I live here in Traverse City, specifically in the Oak Park Neighborhood. My wife, 3 kids, and I live in a 100 year old home a few blocks from here.

I tell you all of this background because of an experience that we were part of in 2012, and I know people around the state of Michigan should be able to enjoy these same benefits as my family have!

My remarks pertain to the Energy Efficiency #16: Do EE programs here or elsewhere address interest rate buy-downs, home performance, industrial process, and deep savings??? "YES"

Simply because of our address, my wife and I were able to sign on for the TC Saves Energy Pilot Program, and DTE Energy. For those who aren't familiar... there was a period in time for specific neighborhoods in Traverse City and I was told Ann Arbor, to secure a 0% loan (up to $20,000 max); to make energy efficient upgrades to your home with newer mechanicals, insulations, new windows/door, siding, etc; basically anything to make the home more energy efficient.

We took the whole amount of the loan and then some. New furnace, New High Efficiency Hot Water Heater, new duct work, a new doorwall, service upgrades, a new entry door, new basement windows, and different forms of insulation from the attic down to the basement floor!

This TC Saves group had to first qualify our home and make their recommendations. We had an energy audit, which we paid for (with a credit coming if work was performed), we were assigned a local contractor was the lead for all procurement, executing the work, and hiring all subcontractors. All these local tradesmen and contractors were extremely busy working in our neighborhood for an elongated period of time, when home construction in general was stalled for economic reasons, as well as the winter season being winter. Also, several of these upgrades also came with tax credits at the end of the year too!

In closing, I hope the State of Michigan can further support and grow such programs as this TC Saves Example for the entire state so all homeowners and local contractors have this same opportunity. It has benefited my family immensely... our monthly energy bills have literally been cut in half, our home is far more comfortable in all seasons, and I also have seen first-hand the how the program created many jobs for local tradesmen at a sluggish time. I hope you will consider extending the program! Thank you.

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If you wish to speak today, please complete the following:

Name: Lisa Danto, RN, BSN, MPH, NCTTAS

Affiliation (if any): (myself)

Phone: 231-271-3684

Email: ldanto@mac.com

Topics you wish to address today:

a. ___ **Renewable Energy Portfolio Standards**

b. ___ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. X **Other Additional Energy Topic**

(Please specify): Air Quality

Requested time to speak: X **< 5 minutes** ____ **5 minutes**

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If you wish to speak today, please complete the following:

Name: Jim Evans

Affiliation (if any): —

Phone: —

Email: —

Topics you wish to address today:

a. X Renewable Energy Portfolio Standards

b. X Energy Optimization / Efficiency Standards

c. X Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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Michigan Energy Public Forum Statement Card

If you wish to speak today, please complete the following:

Name: Pat Timoos

Affiliation (if any): C.C.L.

Phone: 989-448-9024

Email: timoosp7@yahoo.com

Topics you wish to address today:

a. X Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

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STEVE BAKKAL, DIRECTOR

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If you wish to speak today, please complete the following:

Name: SEAN BRADY (Spoke in Marquette)

Affiliation (if any): Wind on the Wires

Phone: 312-867-0609

Email: SBRADY@windonthewires.org

Topics you wish to address today:

a. X Renewable Energy Portfolio Standards

b. ___ Energy Optimization / Efficiency Standards

c. ___ Electric Choice

d. ___ Other Additional Energy Topic

(Please specify): _____

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

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Maura Brennan
130 E 9th St
Traverse City, MI
(231) 645-0827 49684

Snyder Energy Forum Comments

Speaking to effectiveness #3, Renewables - #13 administration

First, I would like to thank the governor, and his ~~advisors~~, for setting up these forums. Acknowledging that our State's energy policy needs serious attention is the first step to a solution. I applaud your efforts to improve Michigan's infrastructure.

I am a member of the Michigan Land Use Institute and the Citizens Climate Lobby. I believe that burning fossil fuels for our energy needs is polluting our air, endangering our health, and threatening the ecosystems upon which our very lives depend. In addition, US dependence on foreign oil is a threat to our economic and national security. For those reasons I believe transitioning to a renewable energy economy is more than a good idea, it is a moral imperative.

However, I would like to focus on the economic impacts of energy efficiency and the transition to renewables.

In 2012, the Michigan Land Use Institute and SEEDS, created a Report called Energy Efficiency and Economic Opportunity in Grand Traverse County, which analyzes the impacts of investing in energy efficiency, and provides examples of how other States have done so. It points out that:

"as of 2006, annual state- and utility-led investments in efficiency of about $2 billion have so far saved about 63 billion kWhs of electricity and 135 million therms, and that the electrical savings eliminated the need for 16 gigawatts (a gigawatt is 1,000 MW) of new generating capacity—roughly the equivalent of 16 very large coal plants which, today, likely would cost more than $32 billion to build."

I encourage ~~you~~ the Gov. to take a close look at this Report. It is very informative an specific to Michigan.

Of course, we must do more than increase efficiency to get off fossil fuels. I believe we should be setting a goal of transitioning to 100% renewables. It is possible.

In 2009, Mark Jacobson of Stanford University and Mark Delucci of UC Davis wrote a paper that appeared in the Scientific American entitled: A Plan for a Sustainable Future, in which they detailed how we can get all energy from wind, water and solar by 2030. http://www.stanford.edu/group/efmh/jacobson/Articles/I/sad1109JacoSp.indd.pdf

Amory Lovins of the Rocky Mountain Institute has also ~~researched this and~~ detailed a plan for transition to 100% renewable energy by 2050 in his book, Reinventing Fire. As Lovins points out:

"The conservative Danish government has adopted a virtually self-financing strategy to get completely off fossil fuels by 2050 by further boosting efficiency and switching to renewables (already 36% of electric generation). Why? To strengthen Denmark's economy and national security. Europe as a whole is going

in the same direction, led by Germany, and now Japan and China are moving that way.

I ask the Governor to

Please consider incentives and policy changes that will allow us to transition to 100% renewables, beginning with efficiency first. This will provide us with long- term environmental benefits, but it will also give Michigan businesses a competitive advantage ~~within the US~~, and allow them to keep up with the global trends, and bring jobs and increased prosperity to our communities. It's A Win - Win - Win

Gretchen Kirschner
226 S Fifth Ave
Alpena, MI 49707-2513

Apr 16, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner future.
I used to be proud to come from Michigan where we had clean air, clean water, pristine forests. It is no longer a state to be proud of. Please utilize the clean, natural sources of energy that we have been given. I don't want to go through cancer again. I would love to be able to stop using inhalers and taking pills to control migraines. It's a sad world where one can be bought out and bullied by dangerous gas and coal companies to put the best interest of Michigan and its people in the landfill.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Gretchen Kirschner

Jeanne Blum
PO Box 6114
Saginaw, MI 48608-6114
(989) 326-3584

Apr 14, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

We need to reduce reliance on fossil fuels, rather than promote their use. Fracking is not acceptable. Doesn't the Halliburton loophole beg this question? What are the chemicals being put into the ground during fracking? Posion! The chemicals that result from these mining practices are dangerous to human health we know from spills onto land and waterways. The risk is unacceptable. We have kess risky means to generate energy.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Jeanne Blum

Barbara Kuhn
1193 Crescent Rd
Harrisville, MI 48740-9556
(989) 724-7146

Apr 12, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

MICHIGAN'S FUTURE SHOULD BE IN CLEAN ENERGY ..... PROTECT OUR WATER AND AIR QUALITY..... THANK YOU

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Barbara Kuhn

Cynthia Schultz-Condon
6084 Herbmoor Dr
Troy, MI 48098-1828

Apr 8, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

As I recently drove home from California, I saw wind and solar energy at work and I thought how badly we need the jobs here. Please, help move Michigan from being a "Rust Belt" state into a thriving, clean energy state.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Cynthia Schultz-Condon

Gary Maveal
636 Flanders St
Chelsea, MI 48118-1121
(734) 355-5911

Apr 4, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

I was heartened to read this yesterday:

"Ontario is scheduled to complete a 21st century environmental cleanup project that distinguishes it among North American jurisdictions. After a decade of work by the Liberal Party government, Ontario at the end of this year is scheduled to close the last of its big coal-fired generators, and leave a single small coal-fired unit available during periods of peak electrical demand until it closes next year. In shutting down the province's 19 boilers fueled by coal, Ontario will become the first industrial region on the continent to eliminate coal-fired generation."

Governor- please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Gary Maveal

Bill Butler
5544 Rochester Rd
Dryden, MI 48428-9316

Apr 1, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility and health costs, and pave the way to a cleaner and more competitive Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Bill Butler

Peggy Mcallister
519 Columbia Ave
Saint Joseph, MI 49085-2405

Apr 1, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.
Please make renewable energy and energy efficiency a top priority.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Peggy Mcallister

Frances Kawahara
430 S Main St
Adrian, MI 49221-3267
(517) 920-4618

Mar 29, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

We cannot afford the cost environmentally, physically and emotionally to continue to pursue those sources of energy that have extracted a terrible price in lives . Mine accidents, the effects of coal dust inhalation, the loss of loved ones, all are results of extracting energy sources from the earth. Not to mention, of course, the destruction of our mountains, undermining our cities so we have cave-ins like in Florida and Ohio and many other areas of the country. If they haven't already happened, they will. the Upper Peninsula suffered from cave-ins after the copper mining that took place there. The contamination of the water in areas where mining has taken place and fracking for gas is shameful. It is undrinkable in areas of Penna. and W. Va.

My sister's father-in-law was a coal miner in Pa and died of lung cancer when he was 60 years old. I always remember the eyelash liner he wore of coal dust even after showering. When we have ways of providing energy that do not extol such a horrendous price in lives lost, endangered, and environmental costs, lets support Clean Energy .

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Frances Kawahara

Judy Clowney
8779 9 Mile Rd NE
Rockford, MI 49341-9499
(616) 874-3105

Mar 29, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

More importantly, inhibiting global warming would insure safety for our descendants.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Judy Clowney

Kevin Williams
207 S Fair St
Otsego, MI 49078-1307

Mar 28, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Dear Sir,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

More importantly a cleaner Planet for our grandkids.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Kevin Williams

Dan Haskell
PO Box 549
South Range, MI 49963-0549

Mar 28, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.
Listen to the people not the fosil fuel lobbiest.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Dan Haskell

Ali Reda Jeafar
6600 Rosemary St
Dearborn Heights, MI 48127-3969

Mar 26, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. This could be the key needed to open the door to Detroit's prosperity.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Ali Reda Jeafar

Beverly Fernsemer
4810 Fox Crk E Apt 177
Clarkston, MI 48346-4939
(989) 220-7978

Mar 26, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

It is a no brain decision. Create a "Purer" Michigan by keeping the State's natural resources clean! The best of all possibilities would be an environmentally clean state, jobs and tourism. Do the right thing. Energy efficiency can be accomplished with many alternative resources.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Beverly Fernsemer

Scott Cramton
30049 S Stockton Dr
Farmington Hills, MI 48336-3563

Mar 25, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Time to lead the way to a new future. We can take advantage of the renewable energy that is out there right now. I know industry likes to drag their feet, and it's easier to just keep things the way they are. Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. Look to the Bioneers and people working with Biomimicry. It's time, lets make the change.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Scott Cramton

Joanne Fuller
8086 Hawkcrest Dr
Grand Blanc, MI 48439-2421
(810) 695-4659

Mar 25, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Michigan needs to become a leader in energy efficiency. It can create jobs and make Michigan more attractive to new business. We need cleaner energy sources for a better environment for our children and grandchildren.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Joanne Fuller

M Nichols
3427 Gull Rd
Nazareth, MI 49074-9800

Mar 25, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Wind and solar are important since they are clean, sustainable and healthy for our children and all inhabitants. Give breaks to clean, green energy comparable to oil and watch the hardworking people of Michigan use their ingenuity and work ethic to make Michigan a model of beauty and healthy sustainability that will build healthy families, while at the same time attracting business and tourists.

Promote a beautiful, healthy and sustainable Peninsula. (Many of us reject fracking and anything that would threaten our water. Short economic gain is unacceptable with longterm pain).

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
M Nichols

Mary Mcgregor
4409 Eastport Dr
Bridgeport, MI 48722-9534
(989) 777-0144

Mar 25, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, r
educe utility costs, and pave the way to a cleaner Michigan future

We have such an opportunity in Michigan to be a leader in renewable energy. Let's not blow it!! Gov. Snyder, do the right thing. What an important legacy we could all leave our children.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Mary Mcgregor

Brenda Millett
1611 Anderson Ave
Ann Arbor, MI 48104-4741
(734) 665-0130

Mar 25, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Please continue to focus on energy efficiency by offering new programs on making our older homes efficient. While we build toward renewable energy sources, we can
make concerted efforts to use less energy.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Brenda Millett

Harriette Ald
7951 Merrick St
Taylor, MI 48180-2549
(313) 291-9571

Mar 25, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

I see many businesses installing solar & wind energy. I expect my energy co. to do the same & certainly my gov. should be encouraging them in any way possible. Humane sensibilities show us how destructive coal is. It is dangerous, people die in mine accidents & work - related illness, strip mining is ruining some of the most beautiful land in the world. It is a shame & a sin not to use the God- given technology for the betterment of ALL.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Harriette Ald

Barbara Dreiband
6905 Camino Del Rey Dr NE
Rockford, MI 49341-9468

Mar 25, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

PURE MICHIGAN! Let's keep it that way with clean energy.
Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency.
Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Barbara Dreiband

Carey James Majeski
2158 Englewood Dr SE
Grand Rapids, MI 49506-4512

Mar 25, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Prior to the 2012 elections, Consumers Energy ran a dishonest flyer and sent a copy to each of its customers. In it, it lied about the costs associated with the proposed energy bill. It claimed that the costs would rise for consumers while ignoring the clause in the bill limiting rising costs to consumers. Please help us heal from this anti-democratic attack on the minds, beliefs, and good intentions of Michigan's citizens. Help us move forward and away from the grave environmental situation towards which Earth is heading. Thank you for your service and leadership in this regard.

In this vein, I urge you to lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Carey James Majeski

Aryana Robbins
3387 Bluett Rd
Ann Arbor, MI 48105-1555
(734) 222-4566

Mar 25, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. Clean energy is NOT Fracking and Nuclear power!

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Aryana Robbins

Elizabeth Buiocchi
4143 Breakwater Dr
Okemos, MI 48864-4413

Mar 25, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Failure to act now will increase the detrimental impacts to the environment and budgets.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Elizabeth Buiocchi

Margaret & Phill Neumann
5730 Forestal Dr
Waterford, MI 48327-2820
(248) 681-5755

Mar 25, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

We need to be good stewards of all the resources whether human/animal, plant or mineral- our air, the beauty of our land, everyone's health need to come before the interests of a few. Please take action to ensure the wellbeing of all not just the "pocketbooks" of a few.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Margaret & Phill Neumann

Ralph Skinner
32740 Redfield St
Niles, MI 49120-7642

Mar 24, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. There is no debating it: fossil fuels are finite. It behoves us to do what we can while we can to be sure that we do our best for future generations. The time to begin the ttransition is now. Michigan should be making the investment into it's grid/micro grid architecture to stand independent and strong regardless of what happens we can all become energy producers and perhaps, just maybe have future discussion about Michigan's aging nuclear plants. Listen, this state is sitting on America's largest supply of fresh water. A resource that could one day be much more valuable than gas or oil. We are the guardians of the future!!

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Ralph Skinner

Peggy Mcallister
519 Columbia Ave
Saint Joseph, MI 49085-2405

Mar 24, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.
Investing in renewable energy will create jobs and help control rising energy costs. It will also improve our air, thus protecting our health and the beauty of our state. This is also protecting our tourism business. Please make clean, renewable energy and energy efficiency your top priority for our state !
Sincerely,
Peggy McAllister
519 Columbia Ave
Saint Joseph, MI 49085

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Peggy Mcallister

Joan Beer
6655 Jackson Rd Unit 762
Ann Arbor, MI 48103-9683

Mar 24, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Money going into dirty energy should go into inventions for clean energy.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Joan Beer

Calvin Messing
8991 Neal Rd
Manchester, MI 48158-9723
(734) 428-0598

Mar 24, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.
We switched to geothermal heating and cooling about 3 years ago and it is very efficient. We went from using about 1100 gal of propane per year for heat and hot water to about $800 per year for heat, hot water and air conditioning. All new construction should consider this very efficient method.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Calvin Messing

Pat Hartsoe
116 Collindale Ave NW
Grand Rapids, MI 49504-5809
(616) 791-0283

Mar 24, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

I am strongly opposed to horizontal hydraulic fracking for natural gass and oil in Michigan. I am also vehemnetly opposed to any pipeline proposed to run through Michigan that will carry dirty tar sands oil from Canada. Both these projects will jeopardize our Great Lakes water supply, which 20 million people depend on for drinking water alone. Also, recreation, tourism, etc. is at great risk if these projects areallowed in Michigan.

Save "Pure Michigan" by movig forward on clean energy initiatives and on emphasizing energy efficiency.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Pat Hartsoe

Mike Strawn
29631 Palomino Dr
Warren, MI 48093-8640

Mar 23, 2013

Governor Rick Snyder

Subject: Michigan and Clean Energy

Dear Governor Rick Snyder,

Increasing Michigan's use of renewable energy and energy efficiency can create jobs, spark investment, and launch new businesses in our state.

A long-term energy plan for Michigan should include more use of renewable energy, increased energy efficiency, and allow Michigan to be a leader in this emerging industry.

A Michigan energy plan that follows these principles will improve public health, protect our state's natural resources, and help rein in rising energy costs.

Michigan is a state with a per capita income that is below the national average; that's a fancy way of saying we're a poor state rather than a rich state. So we have got to find a way to stop sending well over a billion dollars every year out of our state to buy coal. Renewable energy and energy efficiency are the ways to do that.

Therefore please lead Michigan forward and implement policies that will increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will keep well over a billion dollars every year in our state, create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Mike Strawn

Jeanne Servis
31770 Arlington Dr
Beverly Hills, MI 48025-5662
(248) 644-5344

Mar 23, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

In 20011 purchased a Toyota Prius in the first year it was offered here. It has been a pleasure to own and drive all this time. so I have personal experience in working toward cleaner and more efficient energy. I would like to see more planned on a logpterm basis to bring solar, wind,, etc. to replace fossil fuels.
We must move away from destructive energy and practice efficiency in every way we can.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Jeanne Servis

Peggy Pipesh
8681 M 55
Whittemore, MI 48770-9468

Mar 23, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please consider our irreplaceable natural resources. There is no energy emergency, no need to destroy our public parks and give one of our most precious resources, water, to the oil & gas industry. You have the power to stand up and protect Michigan. The Oil & Gas industry is not bringing jobs to the people of Michigan. The few that they may bring will be gone with the resources. Our legislature is passing bills that open the door for oil & gas to rape our State lands and resources. Is this the future land that you want you children and grandchildren to grow up in? Toxic substances in our water, in our woods, on our farmlands, on our roads?

The people of the State do not have the finances to fight the industry, but we have heart and the love of our land. We can educate the voters of Michigan with facts. Please care enough for our land and our peoples to protect them. Please care.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Peggy Pipesh

Elizabeth Del Buono
1800 Nelson Rd
Traverse City, MI 49686-7805

Mar 23, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Moving towards renewable energy is critical to the health of the planet and the well-being of our children. As a scientist, physician, and mother, I believe there is no more critical issue than addressing the need for clean energy. Please don't delay another moment!

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Elizabeth Del Buono

Sally Mason
809 Cedar St
Manistee, MI 49660-2029
(231) 794-5506

Mar 23, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Any source of energy that pollutes air, earth or water is not worth any investment. It is important to conserve and find better ways to use energy efficiently while upgrading our energy grid. Also,our water must not be compromised from extraction of fossil fuels that use huge amounts of water and turn it into unusable toxic waste.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Sally Mason

Jeanette Dalloo
1011 Kenilworth Pl
Clawson, MI 48017-2904
(248) 435-3388

Mar 23, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.
We elected you to continue what our state has started. Please follow the people who put you in office.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Jeanette Dalloo

Susan Pearson
158 Maplefield Rd
Pleasant Ridge, MI 48069-1024
(248) 548-4765

Mar 23, 2013

Governor Rick Snyder

Subject: Move out of the Govenor's house and let someone else take over governing Michigan

Dear Governor Rick Snyder,

We don't trust Snyder to move forward with anything, let alone clean energy. He has made a mess of everything and has damaged Michigan for years to come. He has taken over many small and large cities with no vision and few resources. He is a mis-manager and killer of the safety net for poor people. Poor Michigan!

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Susan Pearson

Susan Amman
4977 Warner Dr
Grayling, MI 49738-8644
(989) 348-5864

Mar 23, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

kae Halonen with Jobs for Justice spoke in Detroit at the Energy Conference. You would be wise to listen to her. kae knows what she is talking about.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Susan Amman

Tana Moore
21472 Wallace Dr
Southfield, MI 48075-7567

Mar 23, 2013

Governor Rick Snyder

Subject: Please support clean energy

Dear Governor Rick Snyder,

This rising manufacturing sector could be part of the solution for Detroit and other troubled cities. It could also put Michigan in the forefront of progressive technology. Support from your administration could make it happen.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Tana Moore

Elizabeth Kueylo
5965 Greenwycke Ln
Monroe, MI 48161-4632
(734) 751-3772

Mar 23, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

I am a mother of three. I would like to be one of the first generations in a long time to leave them an Earth that is in better condition then when my generation inherited it. I want my children to have real sustainable options for work, for life. More I want my children to live under blue skies, and breathe fresh air, and I want the same for my grandchildren. Global warming is real, and moving in more drastic ways earlier then we expected or predicted. It is our responsibility to turn things around, let Michigan be a leader in this initiative.

Thanks Lizzy

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Elizabeth Kueylo

Joan Glisky
610 W Elm Ave
Monroe, MI 48162-7909
(734) 240-8302

Mar 23, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Governor Snyder, this is really an urgent appeal. In fact, we may be too late to avoid overcoming the damage we have done to our environment, but we must not stop while there is hope of some redeeming change. Please help.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Joan Glisky

Mary Linck
367 Lakewood Ln
Marquette, MI 49855-9509
(906) 249-9907

Mar 23, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Michigan is in the unique position of having coastline on 3 of the Great Lakes. We have a huge stake in keeping this fresh water source clean and unpolluted. We also have many opportunities for harnessing wind energy. Iowa is currently leading the nation in the harvesting of wind energy and we could be doing the same. When you take away all the subsidies, wind beats out even natural gas with THE lowest production costs.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Mary Linck

Susan Stewart
2660 Norvell Rd
Grass Lake, MI 49240-9752

Mar 23, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

It only make sense to get rid of dirty energy and replace it with clean energy!
Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Susan Stewart

Michael Chumbley
1121 Maple Leaf Dr
Rochester Hills, MI 48309-3716
(248) 608-0747

Mar 23, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

As we endeavor to diversify our economic base, support of renewable energy initiatives will help establish these sustainable manufacturing jobs. Michigan must be a leader in this sector. I was and am fully supportive of your decision to eliminate the support of the film industry for the very reason that I support this initiative - Sustainability.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Michael Chumbley

Max Slisher
2821 16th Ave
Hudsonville, MI 49426-9635
(616) 896-9918

Mar 23, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

As a leader, you have many responsibilities. The biggest one, however, is sometimes lost and that is to be one of those rare individuals who can look into the future and sometimes do something that is painful at the present but serves humanity and the earth in the future. Supporting and growing Michigans's clean energy policies is one of those historic times. Please be up to the task.

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

However, one caveat - clean energy does NOT include nuclear energy. Until the spent fuel problem can be solved, this source is not clean. (not to mention the horrific possibilities that Japan just endured).

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Max Slisher

Steve Oleksy
2209 Paris Ave NE
Grand Rapids, MI 49505-4152

Mar 23, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Just ask yourself what is best for your kids, kids when they look back at the decisions you made now.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Steve Oleksy

Lewis Lowden
207 S Main St
Ithaca, MI 48847-9585
(989) 875-4160

Mar 23, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Renewable energy is a very positive investment for both our short-term and our long-term economic growth and environmental sustainability. What are you waiting for?

So please continue leading Michigan forward today and into the future by implementing policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind, solar, hydrogen, and fusion will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Lewis Lowden

Goran Blomberg
815 Jerome St Apt 15
Lansing, MI 48912-1439
(517) 402-6471

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

As a Ph. D. in Wildlife Ecology (MSU 1990), and therefore deeply concerned about all aspects of our environment, I plead with you to lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Goran Blomberg

Donald Handy
24b Lodewyck St
Mount Clemens, MI 48043-2221

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Rather than take money from children's education, in order to give even bigger tax breaks to your corporate buddies, shouldn't we be concerned with providing our children with a sustainable future?

Rather than impose your will upon communities, engaging in anti-democratic, fascist takeovers, shouldn't we be ensuring that there will be an industry that we can all be proud of?

Aside from the opinion of your corporate buddies, your legacy is looking pretty shoddy. Do something good, for once!

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Donald Handy

Pat Messer
503 Burr Oak St
Albion, MI 49224-1884
(517) 630-6696

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

I remember well the nearby Enbridge spill into the Kalamazoo River. We need to move away from fossil fuels as soon as possible.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Pat Messer

Kent Newman
2950 Washtenaw Rd Apt 2b
Ypsilanti, MI 48197-1514
(734) 434-8643

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to improve energy efficency, and expand renewable energy production.. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and recue air and water pollution.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Kent Newman

sa Stabile
100 Riverfront Dr
Apt 2501
Detroit, MI 48226-4542
(248) 202-7768

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Create incentives for NET meetering though the power company to encourage Photo Voltaic installations.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
sa Stabile

Patricia Benson
14067 Shadywood Dr
J134
Plymouth, MI 48170-3153

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

I am concerned about the air and water we need, but especially clean air and water for the children and grandchildren. Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Patricia Benson

Jeannine Davie
8030 High Point Trl
White Lake, MI 48386-3542
(248) 701-3950

Mar 22, 2013

Governor Rick Snyder

Subject: Continue to Move Michigan Forward--with Clean Energy!

Dear Governor Rick Snyder,

Governor, I have watched and remain impressed with the direction Michigan has taken under your leadership. I am confident you already recognize the many benefits that (Pure) Michigan would realize as a growing competitor in the clean energy industry, and also as a beneficiary thereof.

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Let's "get 'her done!"

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Jeannine Davie

Kimberly Delks
2921 E Jefferson Ave
Detroit, MI 48207-4267

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Gov. Snyder,

When will you start working for the people, and not just your party?? Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

You weren't put into office to serve your own personal interests, so it's time to show all the people of Michigan you care about them and their future!

Thank you!

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Kimberly Delks

Dale Kenel
2734 Birch
Fennville, MI 49408-9663

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Other than nationalizing the oil industry, clean alternatives are the only road to energy independence from foreign governments who don't really like us, and which require our costly and continuing political and military involvement across the globe. Since Big Oil is highly profitable and subsidized, lets turn our attention and resources inward and create new industries and jobs here instead. Let's free ourselves from dependence on these foreign governments.
Michigan is a tourist state, so let's cut the dirty sources in favour of clean renewable ones, as they're doing in other civilized countries. We used to be a progressive leader in most things, and we have been slipping over recent years. Thanks.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Dale Kenel

Josephine Rood
710 5th St
Ann Arbor, MI 48103-4843
(734) 741-0618

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

We need clean energy NOW! And clean energy doesn't include nuclear power plants. Be a leader and make Michigan a leader. Sieze the future.

Please lead Michigan forward and implement policies to increase CLEAN, RENEWABLE SOURCES OF ENERGY and EMPHASIZE ENERGY EFFICIENCY. Investments in renewable energy sources like WIND and SOLAR will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner, more ECONOMICALLY SOUND Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Josephine Rood

Susan Martin
4906 Shoreline Blvd
Waterford, MI 48329-1687

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

When you ran for office, the phrase "stop kicking the can down the road" was used to describe the need for fiscal balance. The same phrase applies to clean energy - we cannot continue to ignore the future cost of our current consumption of coal and other fossil fuels.

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Susan Martin

Greg & Jean Noah
11758 Oakley Rd
Honor, MI 49640-9735
(231) 325-2832

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Govenor Granholm was a leader in forward thinking effective leadership in this area. Forward is the direction we need to keep moving.... or I should say start moving again.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Greg & Jean Noah

Charles Tazzia
359 Chalfonte Ave
Grosse Pointe Farms, MI 48236-2930

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

You are making positive steps to move the state forward, particularly the EFM in Detroit. I applaud your efforts, but we need to go further to attract your, talented, educated people to our state.

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Charles Tazzia

Elizabeth Harris
PO Box 7
Weidman, MI 48893-0007
(989) 330-0478

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. I expect you won't make an effort, unless there's something in it for you, but I had to ask. It's the right move. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Elizabeth Harris

Jan Ealy
1534 David Pl
Traverse City, MI 49686-4932
(231) 933-3024

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Dear Governor,
Please show some vision. Lead us to a clean energy future and away from the dinosaur fuels that hold us back and degrade our environment.

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Jan Ealy

Lucinda Reinas
734 Orchard St
Wyandotte, MI 48192-6848
(734) 283-3454

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. When you were running for Governor, you said that Michigan's environment was extremely important to you. I didn't vote for you because it has been my experience that most Republicans cannot be trusted and so far you have proven me right. This time, please prove me wrong and do the right thing. Care about the average Michigander, not just those who have a great deal of money. Let us all breathe fresh air and drink clean water. We have a right to these things. Start giving us our rights back and stop taking them away!

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Lucinda Reinas

Gloria Combe
21671 Welch Rd
Northville, MI 48167-2101

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.We fully recognize the value for some coal use, but moving in the direction of renewable energy is critical to future generations.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Gloria Combe

Linda Mulder
21641 Kilrush Dr
Northville, MI 48167-2838
(248) 348-6889

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

One other way you can clean up Michigan's environment is to get rid of CAFO'S in Michigan. The cost to this state in air pollution, water pollution, health, property values and tax subsidies is too much. I don't like having my tax dollars subsidize this unbelievable environmentally damaging way of raising animals for food!

Thank you.
Linda M. Mulder

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Linda Mulder

Christina Kolberg
299 1/2 Jackson St
Petoskey, MI 49770-2368

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

I urge you to courageously lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind, solar & even capturing methane gas from landfills will create thousands of jobs that enable skilled folk to earn a living wage, reduce utility costs, and pave the way to a cleaner Michigan future. "Pure Michigan"? Only if we can lead in sustainability!

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Christina Kolberg

Carol Carter
PO Box 343
Pellston, MI 49769-0343

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. Let Michigan lead the way, we have very precious resources that need our protection and we sure need the jobs. Thank you for listening and your prompt action to move us toward this goal.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Carol Carter

Alethea Bothwell
7823 SE Torch Lake Dr
Alden, MI 49612-9527
(231) 377-7191

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Whatever you do, please do NOT allow fracking in our state. We are the WATER wonderland, please don't turn it into a wasteland.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Alethea Bothwell

Annie Brock
3127 Baylis Dr
Ann Arbor, MI 48108-1709

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

It's important to ensure Michigan cities and companies comply with integrity to its consumers' health and a cleaner environment. I petition your assistance in prohibiting all Fracking processes and dirty electricity Smart Meters. As a concerned citizen of the State of Michigan, I urge you to support the health and vitality of the Michigan communities.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Annie Brock

Christine Gasco
6155 Ashland St
Commerce Twp, MI 48382-3610
(248) 363-5912

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.
Do something for the people of Michigan, instead of your big business pals, for a change.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Christine Gasco

Tom Mccarty
8741 Cox Rd
Bellevue, MI 49021-9627

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. Allowing fracking in the state is a wrong move that we will all regret when the truth of the environmental destruction and health issues it causes now, and will increeasingly get worse in the future, become more evident.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Tom Mccarty

Tom Mccarty
8741 Cox Rd
Bellevue, MI 49021-9627

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. Allowing fracking in the state is a wrong move that we will all regret when the truth of the environmental destruction and health issues it causes now, and will increeasingly get worse in the future, become more evident.

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Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Tom Mccarty

Faith Hoekstra
315 Benjamin Ave SE
Grand Rapids, MI 49506-1601

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

We absolutely must implement clean energy to the highest degree possible.
Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency.
Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Faith Hoekstra

Robert Prior
28296 Cypress Ct
Farmington Hills, MI 48331-2996
(248) 489-0288

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future, #¥%;&!!(.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Robert Prior

Michael Wolk
4545 Niagara Ln
Bloomfield Hills, MI 48301-1462
(248) 626-5358

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

I have personally put a 3kw solar pv system on my roof, and am seeing the benefits each month on my electric bill, but DTE energy still produces 80% of its energy from coal. We as a state should get off the coal standard as many cities (LA for one) are now doing. Let's raise the renewable energy requirement by 1% per year for the next 15 years or some other creative way of getting us off coal and creating energy related jobs. i admire the work you are doing in MI and appreciate your problem solving attitude for getting things done in our state. kudos for the transportation bill as well! keep up the good work you are trying to do despite opposition from many quarters.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Michael Wolk

Gary Randall
3633 Hammond Rd E
Traverse City, MI 49686-9128

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. Lets reprocess spent nuclear fuel like France already does so we can have energy that is always available wither or not the sun shines or the wind blows, we need base load energy that is available when we need it most not just when the sun is shining or the wind is blowing.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Gary Randall

Mary Scanlan
7010 Baltray Ct NE
Belmont, MI 49306-9691
(616) 874-3096

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

In addition, the benefits to more healthy living should not be under-estimated.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Mary Scanlan

Kathleen Borey
7440 Terrace Ave
Elk Rapids, MI 49629-9770

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Michigan for renewable energy tax credits~!

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Kathleen Borey

Marlene Smith
11258 Baldwin Rd
Bridgman, MI 49106-9727
(269) 465-4343

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Iowa is 20 years ahead of us and is already creating clean wind energy to power huge amounts of the state. They are creating jobs that are good paying and will help clean up our carbon heavy environment. Please help Michigan move forward with renewable sources of energy like wind and solar.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Marlene Smith

Margaret Rich
1015 Climax St
Lansing, MI 48912-1601

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

I work for a utility company here in Lansing and we were invited to compete in a competiton in the State of Illinois this week. Driving through southern Illinois, I was overwhelmed with American pride when I saw the countless wind power windmills spinning fast and steady! I even remarked to my colleagues how Indiana is clearly not afraid of alternative energy and I was humbled and saddened when I remembered how Michigan is still clinging to dirty coal plants. It is embarrassing to be from Michigan in terms of environmental standards and our resistance to wind power. We have some windmills to the north, but I don't think there are very many in our state. We could create jobs by opening our energy production to alternative energy.

I am sharing this with you because you have the power to help move our state forward. This is Michigan, an industrial superpower in the US! Not China! Please help our beautiful state move forward and become a clean energy leader.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Margaret Rich

Kathleen Roper
2932 Peach Creek Ct
Fennville, MI 49408-9641
(616) 610-0669

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.
Please don't destroy this beautiful state by allowing fracking to ruin our ground water, soil, roads, real estate values, and more. Fracking is proven to be unsafe. Please wake up to what is happening to our earth, and put at least a temporary stop to fracking until more honest studies can be done.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Kathleen Roper

Patricia Donnelly
685 Lytle Ave
Harbor Beach, MI 48441-1051
(989) 479-3863

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

The sight of wind turbines and solar farms in the Thumb makes me so proud. The investment made by DTE in these renewable sources of energy continues to grow. However, the pace is slow. We need to support these resources and require removal of coal fired plants in this State.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Patricia Donnelly

Mary Wangler
10181 Lloy St
Portage, MI 49024-6834

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

All the states surrounding ours are outpacing us in the development of wind energy. We are training workers for these types of jobs and then they are leaving the state to get jobs. Gone are our tax dollars and gone are our trained workers. What a waste of resources all away around!

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Mary Wangler

Mary White
1606 Morton Ave
Ann Arbor, MI 48104-4441
(734) 662-6464

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.
Much of Michigan's wealth rests on its environment. Let's move away from fracking and other carbon-heavy energy into cleaner energy that won't destroy our drinking water or our environment.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Mary White

Edith Ware
20411 Mendota St
Detroit, MI 48221-1049

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. Please move Michigan forward. The future is today. If not now when.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Edith Ware

Natalie Hanson
1815 Briarwood Dr
Lansing, MI 48917-1773

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

I strongly urge you to lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Natalie Hanson

Dale Kenel
2734 Birch
Fennville, MI 49408-9663
(269) 857-4579

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

As long as we continue to use oil without alternatives, we will never be energy independent. Oil drilled from under our soil goes to Big Oil and its world market which is totally beyond our control. We need domestic alternatives which are for our use alone.

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Dale Kenel

Jean Leonard
60 Burdick Woods Ct
Oxford, MI 48371-4689
(248) 969-7844

Mar 22, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency.
Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.
Make Michigan an exampatory state by creating clean engy jobs.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Jean Leonard

Leslie Witter
235 Brookside Dr
Ann Arbor, MI 48105-1102

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

The current increase in hydraulic fracturing and testing for sites for potential natural gas drilling in Michigan is not a good step forward. This represents more of the same reliance on energy sources that have polluted our environment and accelerated climate change in the past. We need to instead move forward with a focus on renewables and energy efficiency, not continued reliance on oil and gas.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Leslie Witter

Donna Brenner-Allmon
5450 Carlson Rd
Manistee, MI 49660-9497

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.
Clean energy in our state already employs thousands of people. The coast of Lake Michigan has the wind to generate electricity with windmills. There are already plants that manufacture the batteries for grid storage and hybrid vehicles. I purchased a Chevrolet Volt and I get over 100 miles per gallon driving it. Fossil fuel use is damaging the climate. The ocean temperature is up 1 degree and causing unpredictable storms and weather all over the world.

The future is renewable clean energy. The jobs created are high paying. We need to slow the addiction to fossil fuels.

Sincerely,

Donna Brener-Allmon

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Donna Brenner-Allmon

Gertrude Gregory
68135 Frampton Dr
Washington, MI 48095-1281
(586) 752-7290

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

I understood that solar shingles were available in Michigan, but after trying for a year to buy them, I discovered that the company had gone out of business. That's a travesty. Since the technology is available, the product should be available. Favorable tax treatment is one way to keep companies like these from going under.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Gertrude Gregory

Sherron Collins
PO Box 293
Spring Lake, MI 49456-0293
(616) 881-2882

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Michigan is regaining its industrial strength. The future will be stronger with clean, renewable energy sources.

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Sherron Collins

Art Hanson
1815 Briarwood Dr
Lansing, MI 48917-1773

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

I strongly urge yo to lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Art Hanson

Chalmer And Alice Mastin
3742 Cedaridge Rd
Kalamazoo, MI 49008-2555
(269) 375-6870

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.
Such an investment will also help the U.S. to begin to close the gap between
us and China, who is currently leading the field in solar and wind energy development. As world demand increases, it would be a real feather in Michigan's
cap (and good for the state economy) to be one of the world's leading exporters
of advanced technology and and hardware in clean energy field.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Chalmer And Alice Mastin

Carolyn Allen
501 E Farnum Ave
Royal Oak, MI 48067-1912
(248) 545-6153

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

We need to stop playing political and/or financial games and start dealing with changing our energy demands to renewable sources and off of ANY fossil fuel. There may still be significant amounts of fossil fuels available, but changing something like this requires TIME. We changed from LEADED to NON-LEADED fuels (I'm old enough to remember the process we went through). We can achieve THIS change too. But, based on the climate change we're already experiencing and the OBVIOUS fact that fossil fuels are NOT infinite, we need to START the process of change NOW.

IF you are being pressured by fossil fuel companies, IGNORE THEM. DO NOT TAKE THEIR MONEY. THEY will have to change too; and we need to encourage them to DO SO. Show some backbone, for the people of Michigan, for the United States, and for our (one and only) PLANET.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Carolyn Allen

JoAnne Beemon
204 Clinton St
Charlevoix, MI 49720-1325

Mar 21, 2013

Governor Rick Snyder

Subject: Jobs in solar and wind... Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Help create a future for my children. Invest in new renewable energy!
No burning of coal, oil, gas, tarsands, biomass or Nuclear!

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
JoAnne Beemon

Jane Auringer Danjin
518 Rawlins St Apt 3
Port Huron, MI 48060-3752
(810) 987-2892

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward by supporting and implementing policies to increase clean, renewable sources of energy, and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.
Thank you.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Jane Auringer Danjin

Barb Holcomb
7140 Railroad Ave
Cadmus, MI 49221-9700
(517) 445-2172

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Another important way of promoting clean energy would be to order that state issued vehicles must be gas efficient and/or using electric, propane or natural gas as fuel.State parks with ranger cabins or offices could be set-up with solar or wind generated energy sources. They would not need to be approved by local governments and would serve to prove their usefulness to citizens. Any new government buildings could be required to be green. Any schools that receive state funding could be required to go green in increments that would match energy savings, thus not requiring expenditures that would not be paid back to the communities. These ideas potentially would save taxpayers millions of dollars.

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Barb Holcomb

William Bauss
2031 Klingensmith Rd Unit 91
Bloomfield Hills, MI 48302-0283
(248) 872-5666

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.
Forget the short term thinking and try to think long term ! For all of our sake's. DO THE RIGHT THING !

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
William Bauss

Lynn Seaton
29105 Bretton St
Livonia, MI 48152-2085

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Forget what Walsh and his henchmen say, He and his right wing buddies are living in a bubble going back fifty years ago when the air was pure and sex was dirty.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Lynn Seaton

Ben Brown
302 W Walnut St
Kalamazoo, MI 49007-5138
(734) 635-6865

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. To the degree you raise the renewable portfolio standard is the degree Michigan will either benefit creating millions of dollars or shipping out billions of dollars. We are among the top 5 states in the nation with skilled labor to manufacture key wind and solar components. Don't miss this opportunity or a chance to leave a positive historical legacy for yourself and the republican party.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Ben Brown

David Ebersole
26777 Christy Dr
Chesterfield, MI 48051-1536

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. You could be a transformational leader. Leading Michigan to the forefront of Midwestern states as a "Green" State.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
David Ebersole

Linda Lawson
5210 Birkdale Dr
Ann Arbor, MI 48103-9731

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Linda Lawson
5210 Birkdale Dr.
Ann Arbor, MI 48103

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Linda Lawson

Dave Mook
3085 E Midland Rd
Bay City, MI 48706-2720
(989) 686-1945

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Let's Make Michigan a Clean Energy Leader!

Michigan's clean energy sector supports 20,500 jobs and $5 billion in economic activity. But we are falling behind in the clean energy race as nearly 30 other states have higher renewable energy standards than Michigan. Increasing Michigan's use of renewable energy and energy efficiency will create jobs, spark investment and launch new businesses in our state.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Dave Mook

Lewis Okun
321 S Main St Ste 204
Ann Arbor, MI 48104-2126
(734) 929-0366

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. Energy conservation and renewable, sustainable energy such as solar, wind, water, and water wave are the energy sources that will dominate our future. Why delay the future? It has always been the American way to innovate; do not saddle us with 18th, 19th, and 20th century energy sources, look ahead seven or more generations.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Lewis Okun

Alvin Carroll
35077 Old Homestead Dr
Farmington Hills, MI 48335-1337
(313) 850-6839

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.
What you do today will give our kids a clean environment. The State of Michigan can continue to be an example to other states. We have to stop thousands of citizens from leaving Michigan because of bad decisions from our leaders. Let's move forward, not backwards.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Alvin Carroll

Diane Bauer
1141 Island Dr
Commerce Twp, MI 48382-3807
(248) 363-2279

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Michigan is 30th in 50! Let's work together to make us #1!

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Diane Bauer

Anthony Mcmillan
2 N Norwood Ave
Hillsdale, MI 49242-1511
(517) 212-6840

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. Instead of hurting Michigan residents with a huge gas tax, do something that actually helps the average citizen for a change.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Anthony Mcmillan

Sarah McGuire
1908 Hillcrest St
Lansing, MI 48910-0364

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Lets build some sustainable jobs in Michigan by moving forward and implementing policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Sarah McGuire

Steve Turner
21612 N Uldriks Dr
Battle Creek, MI 49017-9007
(269) 965-4247

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. Michigan has so much in the way of environmental resources that each day face polution damage due to our overdependence on hydrocarbon sourced energy. By increasing the percentage of clean energy we produce we can protect these precious resources as well as enhance the air, water and land that all Michiganders depend on.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Steve Turner

Wm Sop Er
50 33 redstone rd
St Louis, MI 48880

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. if you really cared i mean really cared you would do this now , as the people of this great state, we need you to do your job as we intended not the koch boys and devoss, get your head on straight and act right , act like a man who cares, it easy to turn your back on people when big money is involved huh? you r fired

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Wm Sop Er

Nan Griffith
29518 Westbrook Pkwy
Southfield, MI 48076-5073

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future. Michigan needs clean energy.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Nan Griffith

Lynn Hartung
3846 Chenlot
Waterford, MI 48328-4303
(248) 693-4302

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Germany is currently producing 20% of its energy with renewable sources and their plan is by 2020 to produce 100% of their energy with renewable sources. Germany is about the same size as Michigan and has even more cloudy days ... so if they can do we can do it. And this will create thousands of jobs for Michigan.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Lynn Hartung

Maryellen Ramsey
606 Chatham Dr
Midland, MI 48642-3409

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

I'm confused, why does Governor Synder want input from the public, when his past actions (notably the Right to Work law) showed everyone that he doesn't care what the majority of the citizens in Mich. want?

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Maryellen Ramsey

Sally Peck
19637 Rensellor St
Livonia, MI 48152-2528

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

I expect you to lead Michigan forward by implementing policies that increase clean, renewable sources of energy and emphasize energy efficiency and conservancy. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Sally Peck

Jan van Schaik
230 Pretty Lake Hts
Kalamazoo, MI 49009-5924

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

And better than all those very good reasons, it will provide for our children and children's children a sustainable energy future

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Jan van Schaik

Richard Vinsen
6533 E Jefferson Ave
230t
Detroit, MI 48207-4458

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Thanks to the automobile industry, Michigan already has the manufacturing infrastructure -- factories, engineering expertise, a willing and able workforce -- to make Michigan a world leader in the production of wind turbines. The "Motown of Wind Energy" if you will.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Richard Vinsen

Gabriele Jamison
69350 Christiana Creek Dr
Edwardsburg, MI 49112-8731
(269) 699-7482

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Give "Pure Michigan" a meaning!

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Gabriele Jamison

Scott Alf
626 Hiscock St
Ann Arbor, MI 48103-3109
(734) 686-0280

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

What plans do you have to implement education as a component of Alternative Energy Advocacy?
Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future if public education is a part of it..

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Scott Alf

Lindsay Demmon
527 N Sycamore St
Lansing, MI 48933-1039
(248) 739-0093

Mar 21, 2013

Governor Rick Snyder

Subject: Please Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Thank you!

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Lindsay Demmon

Joellen Gilchrist
Riverside dr
Franklin, MI 48025

Mar 21, 2013

Governor Rick Snyder

Subject: Clean Energy

Dear Governor Rick Snyder,

You ran a campaign as a "green" candidate.

Push Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Joellen Gilchrist

Jean Howard
9807b Minnesota St
Oscoda, MI 48750-1934
(989) 739-4182

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.
Oil or gas produced by fracking-especially deep well fracking into the shale is NOT clean energy. In fact, numerous studies (yes real inquiry) have shown that that the flaring and methane produced from such wells is not only extremely wastefull, but contains far more potent greenhouse effect than carbon dioxide from the burning of coal. Making water sources unsafe to drink is a documented occurrence. National Geographic and even Wall St. Journal articles should caution you on any suppossd sustainable economic advantage to Michigan's economy. There is already a glut- let North Dakota, Wyoming, Pennsylvania ruin their land--not Michigan.. Michigan's forests, its tourism, hunting, fishing, wildlife and agriculture cannot withstand the destruction of the deep well fracking. Our national forests are public lands held in trust for the people, the animals and the wide variety of plants. What did Michigan--the individual people get in return for the state allowing oil and gas companies to deep well frack in our state forests? As Pope Francis RECENTLY said, it is a moral duty to protected people AND THE ENVIRONMENT. .The oil and gas companies are experienced lobbyists giving large sums on money to our elected official in Lansing and other states..
Michigan should ban or put a long moratorium on fracking.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Jean Howard

Lorraine Sigle
1706 Peppertree Ln
Lansing, MI 48912-3723
(517) 580-3433

Mar 21, 2013

Governor Rick Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Rick Snyder,

Promoting clean energy is a win win for Michigan. It creates jobs, it provides need State $$ and it is the right thing to do. Climate change is by far the greatest threat our planet faces. It is costly to deny its implicaitons.

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,
Lorraine Sigle

SIERRA CLUB
FOUNDED 1892

Central Field Office

April 22, 2013

Governor Snyder

Subject: Move Michigan Forward with Clean Energy!

Dear Governor Snyder,

Please lead Michigan forward and implement policies to increase clean, renewable sources of energy and emphasize energy efficiency. Investments in renewable energy sources like wind and solar will create thousands of good-paying jobs, reduce utility costs, and pave the way to a cleaner Michigan future.

Renewable energy and energy efficiency help rein in rising energy costs and create jobs for Michigan workers, but Michigan is falling behind in the clean energy race. Nearly 30 other states have stronger renewable energy or energy efficiency goals than Michigan. Michigan's clean energy sector supports 20,500 jobs and $5 billion in annual economic activity and is poised to grow. Michigan currently gets nearly 60 percent of its electricity from coal, all of which is imported from other states, sending $1.7 billion a year and the jobs it creates to other states.

Therefore, we believe Michigan must move forward now by increasing our energy efficiency standards and increasing our renewable energy standard to 25 percent by 2025.

Make clean, renewable energy and energy efficiency a top priority and move Michigan forward.

Sincerely,

The undersigned 693 Michigan residents
Followed by unique comments from 122 of those 693 residents
(Signed since Petitions were delivered on March 25th in Detroit)

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Southfield MI 48075-7567

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Grayling MI 49738-8644

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QUESTION #10

Renewable Energy Question #10- What are the current and projected relative costs of existing and new builds for wind, solar, hydro, biomass, landfill gas, coal, natural gas, nuclear, and other sources? How would those differ if placed in another jurisdiction electrically tied to Michigan?

Thank you, Commissioner Quackenbush and Director Bakkal.

My name is Lee Williams and I am an interested citizen of Traverse City. I recently moved here from Wimberley, TX, a small town between Austin and San Antonio. I've seen the effects of the fracking boom in Texas and I want to share that. My response is to question # 10 under renewable energy and its relative costs to natural gas.

Those who are eager to jump into fracking often overlook the external costs which are evident on the landscape, and hidden in the water. The rural areas where fracking takes place are overwhelmed by the demands for services which cannot be provided for in a timely manner so the region can benefit. Frackers come in, set up, do their work and are gone before the region is able to effectively benefit from them. Contracted crews from outside the state leave behind trashed drilling platforms and housing complexes because they are not invested in the community. Roads are destroyed by their tank trucks and their danger increased as drivers speed to finish a delivery because they are paid by number of trips.

The cost to water is never recouped as millions of gallons are removed from the water supply and contaminated. MI most abundant resource is its beautiful water, and in the future, it will be its most valuable resource. As climate change progresses, water will be the most valuable resource and if MI works to appreciate and protect it now, then MI will be in a place to prosper from a warming planet. TX is not known for water and is destroying its most precious resource, whereas MI has this in abundance and needs to act now to protect it for the future. TX has black gold, but MI has blue gold.

As for jobs, ~~renewable energy like wind~~ and solar ~~are~~ is better for the environment, better for keeping costs down and better for local job creation, employing Michiganders, not outsider crews. Why do we want to give our money to large multinational corporations when we can keep the money in MI by creating our own energy supply?

local control, home generation

Instead of putting our economy, our environment and our water at risk, we need to be choosing ~~renewables~~ Solar as ~~they are~~ it is already cost effective and ~~their~~ costs continue to fall. Let's keep 4 out of 5 Great Lakes preferring MI! Let's embrace Pure MI.

Lastly, the list of questions presented to the public for these forum have been very narrowly directed, both in scope of what "costs" mean and in terms of who chooses to comment in that they are most likely keeping ordinary citizens from coming forward to participate. I hope you will not let short sighted answers destroy a visionary plan for Pure MI.

GROSSE POINTE
War Memorial
a center for community enrichment

April 22, 2013

John D. Quackenbush, Chairman
Department of Licensing & Public Affairs
Michigan Public Service Commission
and
Mr. Steve Bakkal, Director
Michigan Energy Office
Michigan Economic Development Corporation

Dear Director Bakkal & Chairman Quakenbush,

I am writing in support of electric competition in the State of Michigan. Since we have been unable to attend the energy forums in person, we have asked Gary Dillon of Dillon Energy Services to speak on behalf of the Grosse Pointe War Memorial at the April 22 forum in Traverse City.

The Grosse Pointe War Memorial is a community center located on the shores of Lake St. Clair, dedicated in honor of our country's veterans, offering programs in dance, art, music, health and theatre and serving as a venue for a variety of celebrations ranging from weddings to fundraisers.

If the Grosse Pointe War Memorial had been on the Electric Choice Program today, we would be saving 17% on our electric costs. This would have translated into $15,000 annual savings. We would have used these funds for the restoration of our historic building.

The Grosse Pointe War Memorial holds place #1643 in the Queue. We look forward to participating in Electric Choice as soon as possible.

Sincerely,

Elaine Langer

Elaine Langer
Director of Finance

1. The biggest moral issue of our time.
I believe this is opportunity time for Michigan! We are faced with a moral imperative: get off fossil fuels or face catastrophic climate consequences. I think it's a rare opportunity because by doing the right thing we also have the potential to become a "reindustrialized" state with new jobs and new industries. We already have the more patents on renewable energy innovations than any other state!

2. The economics of clean renewables point to huge long-term benefits. There are many examples in the world, so we know it IS possible. Germany has created 380,000 clean energy jobs. It gets 26% of electricity from renewables, with an aim for 40% by 2020. It has the biggest solar deployment in the world and it is north of MI! The economy of Germany has thrived though times when the rest of Europe has struggled.

3. What the world needs now: an example of bipartisan action to benefit the people and environment of Michigan. Our trust in the government doing the right thing is at an all time low. The science of climate change is the strongest "settled" science the world has ever known. We must work together on this one, not because it's kind and friendly, but because our survival depends on it. We are all in this together and imagine what our state would be like if the leaders of our government worked together. Michigan turned its auto industry into airplane and tank building plants in a matter of months at the beginning of WWII. We have the infrastructure and the know how to make the transition to clean renewables. Give us the leadership.

Mary Van Valen
871 Webster St
Traverse City, MI 49686

Michigan Energy Public Forum
Traverse City, MI
April 22, 2013

Comments submitted by:
Elizabeth Dell
117 E Tenth St.
Traverse City, MI 49684

Comment on Energy Efficiency Question #7, What are the related costs and benefits of a range of possible energy efficiency standards?

There are many substantial benefits to maintaining and expanding these standards including job creation, environmental and human health, energy reliability and affordability.

First, job creation. In 2008, a University of California Berkley report examined the state's policies to increase energy efficiency over the previous 35 years and their impact on job creation. They found that from 1972-2006, household energy efficiency policies led to savings of $56 billion enabling Californians to redirect their spending toward other goods and services. This redirected spending created about 1.5 million full-time equivalent jobs with a payroll of $45 billion.

Energy efficiency projects require readily available labor skills including efficiency analysts, HVAC installers, insulation specialists, window installers, and roofers to name a few. This allows us to hire local labor keeping wages in the communities where the jobs are.

Second, energy efficiency benefits environmental and human health. Greenhouse gases created during energy generation are responsible for the greatest environmental problem our planet has ever faced: global warming. Additionally, these gases and other toxins that are emitted have been linked to asthma, heart disease, cancer, birth defects and numerous other adverse health effects. As we reduce greenhouse gas emissions and other pollutants through improved efficiency, we slow the rate at which the Earth is heating up and remove many health-damaging pollutants.

Third, energy efficiency makes substantial and cost-effective contributions to reliability by reducing base load and peak loads.

Fourth, efficiency measures make energy more affordable. Many measures to improve efficiency are relatively low cost with a high return on investment, yet financing can be a roadblock for some homeowners, governments and businesses. There are many opportunities to make energy efficiency programs more affordable including on-meter financing, creating sustainable energy utilities and promoting energy efficiency mortgages. When we think of affordability, we also should

consider making efficiency opportunities available to residents of affordable housing. These individuals have less opportunity to make cost-effective investments in their homes, yet can benefit significantly from them.

These are just a few of the many benefits offered by energy efficiency. In Michigan, we have only scratched the surface. California has had strong policies since the 1970s, so there's no reason to imagine that we don't have many years of efficiency opportunities ahead.

REFERENCES

Energy Efficiency, Innovation and Job Creation in California (University of California at Berkeley) http://are.berkeley.edu/~dwrh/CERES_Web/Docs/UCB %20Energy%20Innovation%20and%20Job%20Creation%2010-20-08.pdf

Energy Efficiency and Economic Opportunity in Grand Traverse County (Michigan Land Use Institute) http://www.mlui.org/userfiles/filemanager/306/

Michigan Energy Public Forum April 22, 2013
Northern Michigan Environmental Action Council Statement

The Board of Directors of NMEAC, one of the oldest environmental organizations in northern Michigan, would like to express our thanks to Governor Snyder for focusing attention on the subject of energy policy through this series of meetings, and for listening to our perspective regarding energy policy for our state. NMEAC has been actively involved with energy issues in our area for some time and considers energy generation to be one of the most important challenges for the future of our state.

As we all know, Michigan, along with much of the rest of the world, has been cruising down a luxurious highway made possible by the rampant use of what seemed like a limitless supply of fossil fuels that would continue to pave this road into an ever brighter future. Today, the same science and technology that made this road so blissful is now telling us that we may be approaching a dead end sign. Dilemmas, such as climate change, weather disturbances, air and water pollution and resulting water shortages can no longer be ignored as natural phenomena; they are increasingly being regarded as red flags alerting us to ominous danger ahead. What are commonly promoted as cheap fixes such as developing so-called clean coal, taking ever greater risks with off-shore drilling, fracking or exploiting biofuels, fail to offer truly healthy, environmentally safe alternatives. In fact many in the scientific world would say that with the continued rate of use of fossil fuels, there may even be a cliff at the end of the dead-end road.

Fortunately, we are we are not without options. Throughout the world nations are racing to develop clean energy as a more sustainable means of supplying the need for power. It is imperative that we engage with them in this endeavor not only for the sake of reversing our dependence on them, but also in reversing our mutual dependence on fossil fuels. Michigan must seek to take the lead in making what are now called alternative fuels into the dominant fuels with fossil fuels becoming the alternative. To push for ever more aggressive ways to extract fossil fuels, compounding their negative effect on the environment and human health, is not a sensible option.

Northern Michigan Environmental Action Council Post Office Box 1166, Traverse City, MI 49685-1166 231 946-6931
www.nmeac.org

Therefore, NMEAC advocates:

1) That it be made a state supported policy to inform the consuming citizenry of the full and true long range cost of the continued use of fossil fuels rather than a cost analysis based on current market prices. This would mean that the cost basis would include all externalities such as health care costs resulting from burning fossil fuels, the costs of obtaining them, transporting them and the resulting environmental impact projected into the future, hopefully as far as seven generations as suggested by the Native Americans from whom we inherited the land.

2) The immediate cessation of any and all public subsidies for the further development of both the securing and consumption of fossil fuels.

3) Providing encouragement through financial incentives to further the research and development of sustainable energy sources such as wind, solar and other sources as continuing research might suggest.

Bill Hansen
NMEAC Board Member

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STATE OF MICHIGAN

PURE MICHIGAN® Energy Office

DEPARTMENT OF LICENSING & REGULATORY AFFAIRS
MICHIGAN PUBLIC SERVICE COMMISSION
JOHN D. QUACKENBUSH, CHAIRMAN

RICK SNYDER
GOVERNOR

MICHIGAN ECONOMIC DEVELOPMENT CORPORATION
MICHIGAN ENERGY OFFICE
STEVE BAKKAL, DIRECTOR

Readying Michigan to Make Good Energy Decisions

Michigan Energy Public Forum Statement Card

If you wish to speak today, please complete the following:

Name: Ross A. Hammersley

Affiliation (if any): _____

Phone: 231-633-6003

Email: ross.hammersley@gmail.com

Topics you wish to address today:

a. X **Renewable Energy Portfolio Standards**

b. ___ **Energy Optimization / Efficiency Standards**

c. ___ **Electric Choice**

d. ___ **Other Additional Energy Topic**

(Please specify): _____

Please prioritize and focus your comments to afford as many as possible, the opportunity to speak. The amount of time allowed for each speaker will be dependent upon the number of people requesting to speak. Please prepare for the time limit for each speaker to be in the 2 – 5 minute range.

Please leave a copy of any written or electronic materials at the welcome center.

You are encouraged to submit written feedback at www.michigan.gov/energy.

Michigan Energy Public Forum
April 22, 2013
Statement of Ross A. Hammersley (Traverse City, Michigan)

Good afternoon, and thank you to Mr. Bakkal of the MEDC's Michigan Energy Office for hosting today's forum.

I'd like to touch quickly on three primary issues that face the state when it comes to this discussion on energy:

(1) Momentum
(2) Innovation, and
(3) Removal of barriers.

Momentum –

As those who have read the 2013 Report on the Implementation of the PA 295 Renewable Energy Standard know, Michigan is on track to meet the 10% renewable energy generation requirement in PA 295 by 2015. The statute has resulted in "significant renewable energy development", and is "meeting its intended purpose to encourage developers to maximize utilization of Michigan equipment and labor."

Although last year's ballot measure to amend the state constitution was unsuccessful, there is simply no reason to think that setting a new legislative target for generating 25% of our state's energy from renewable sources by 2025 is unachievable. In fact, transitioning to 25% would simply continue the state's momentum along these lines while at the same time improving the stability and predictability of rates for consumers in the state and protecting consumers from unreasonable price spikes and cost increases.

Innovation -

Another benefit of PA 295 has been that there has been a documented surge in small business development in the renewable energy industry statewide. Many small businesses, manufacturing companies and entrepreneurs located themselves in Michigan with an understanding that, by passing PA 295, the state had declared an intent to become a regional leader in the energy field. The technological innovation and manufacturing capability that can be found here in Michigan is difficult to replicate elsewhere, making our state uniquely suited to seize that leadership role, however, if the 10% requirement is not expanded, it is quite likely that those businesses will leave Michigan to pursue opportunities in states that are more ambitious when it comes to developing clean energy technologies. We've seen other mid-western states like Iowa and Minnesota set and make significant progress towards 25% targets, so there is certainly room for Michigan to be just as ambitious, if not more. Setting such a target could allow the small businesses focused on clean energy development to settle in for the long-term and solidify their investments in Michigan, which could also potentially foster a true nexus of technological innovation in this field. This is fully consistent with, and could be a vital piece of the Governor's focus on "economic gardening," and helping Michigan companies and businesses grow.

Removing Barriers -

All of this is not to say that setting a 25% goal should be the sole focus of the expected legislative effort to come out of these forums and the statewide dialogue that the Governor has helped to facilitate in the past few months. The advantage in developing such legislation is that there is a lot of room for ambition beyond just 25%, and carefully crafting laws that remove barriers to technological innovation can help to further develop Michigan's participation in this fast-paced and dynamic industry, and there is no reason that doing so needs to include any partisan politics at all.

For example, in Iowa, a bill encouraging small scale wind power development by farmers was recently supported by the independent family farmers of the Iowa Farmers Union as well as the Iowa environmental council, and that bill passed out of its committee with unanimous bipartisan support. The legislature could seek to improve energy efficiency at businesses and in Michiganders' homes, saving money and reducing energy demand simultaneously; new legislation could also expand the Property Assessed Clean Energy program to residential property, could improve the effectiveness of the Integrated Resource Planning process, could foster development of a more intelligent electric grid and more distributed generation capabilities.

Conclusion –

It seems to me that the primary risk facing our state right now is that we will, in the end, be too cautious; that we will decline to continue our active and energetic participation in clean energy technology, lose our competitive edge, and sit idly by while a growing industry sets down long-term roots in other states.

Now is the time to lay the groundwork for clean energy development in the state of Michigan. I would say to our legislators, Governor Snyder, and other lawmakers involved in this debate: Don't be too cautious and remain satisfied with the status quo. There are so many citizens and businesses in our state who stand ready to answer a more ambitious call for clean energy that will create and maintain jobs, foster technological research and development, lower electric rates for Michigan consumers, and reduce our dependence on polluting forms of energy.

Thank you for the opportunity to present these thoughts to you today.

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BACKGROUND: In October 2008, the Michigan Legislature passed a law that allowed no more than 10% of Detroit Edison (DTE) and Consumers Energy electricity customers to take advantage of the potential savings from an *Alternative Electricity Supplier (AES)* at any time. This 10% participation cap was reached by Consumers in August 2009 and by DTE in December 2009. Once the 10% cap was reached customers no longer had Electric Choice in Michigan and had to accept their utility's rates. Anyone wishing to participate in Electric Choice after the cap was reached could sign up with an AES and wait in a queue from which new customers would be selected to replace customers leaving Choice, for whatever reason, on a first-come/first serve basis. To assist the customers who were blocked out from participating in Electric Choice, legislation has been introduced (SB 0166) to raise the participation cap. Should the participation cap be raised, customers waiting in the queue will be accepted into Choice first.

SOLUTION: One of our primary Alternative Electricity Suppliers in Michigan, Integrys Energy, offers a mechanism for getting DTE and Consumers electricity customers into the queue – **WITH NO OBLIGATION!** This no obligation mechanism gives you the best of both worlds: 1) you get a spot in the queue held for you for when the Electric Choice participation cap rises, and 2) because things can change, you are NOT OBLIGATED to accept your Electric Choice participation when your spot comes up – you'll have a 2-day decision window in which to review current circumstances and available rates at that time. So, reserve your spot now so you won't get blocked out later!

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Start by faxing or e-mailing to me a copy of ALL the pages from your most recent electric bill(s) from Consumers Energy or DTE (front and back of each DTE page) for each of your locations. I'll prepare the necessary paperwork and return it to you for review and signature.

Kim Laverty, Savings Agent
TEL. NO.: 231-883-3331

FAX NO.: 231-421-6764
E-MAIL: k.laverty@enercomenergy.com

seeds
Ecology + Education + Design

April 22, 2013

Mr. Bakkal and Mr. Quackenbush:

Thank you for traveling to Traverse City and soliciting information and perspectives from the public.

As you well know, energy efficiency provides both economic and environmental returns. It is also true that simple strategies can be effectively implemented with little cost, effort, or knowledge. Yet even the low-hanging fruit is still frequently neglected due to a variety of frustrations and hurdles.

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Vermont 05403
802 658 9404

ecoSEEDS.org

SEEDS is a 501c3 nonprofit organization with a base of operations is the Grand Traverse Region. We have been working at the intersection of ecology, education and design since 1999 and a large focus of our work is Energy & Environmental Analysis. Over the last six years, we have intensively studied the energy consumption dynamics of NW Lower Michigan. We are committed to our role of providing third-party, technical support for communities who are interested in making effective energy decisions.

To reach the deeper efficiency gains that are possible, we need more reliable cradle-to-cradle data, expert insight, professional follow-through and the creativity of a multi-disciplinary suite of partners. This is the only way to fully realize complex, systemic solutions like demand response, distributed generation, utility profit restructuring and market solutions that reward people for solving their own energy dilemmas.

SEEDS has accomplished a number of complimentary projects examining the economics of local energy use as well as the environmental impacts of energy use. For example,

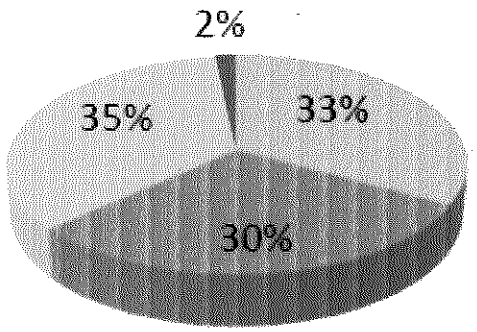
- In the local government sector, we have benchmarked over 120 facilities through the Energy Star Portfolio Manager and developed strategic, actionable, cost saving plans for 20 municipalities in the region. Similar work has been done with a growing number of commercial and industrial customers.
    - **Request:** We could be far more effective and supportive in this regard if utilities made current and historical (at least 3 years) energy consumption, demand and cost data easily accessible to individual rate payers and their assigns, ideally through some form of automated benchmarking.
    - **Request:** We also recommend building off the success of the free-resource, Energy Star Portfolio Manager, and leveraging the new updates.

- In the residential sector, we partnered to bring a Better Buildings for Michigan pilot program directly to over 550 homes in the City of Traverse City making this a leading non-entitlement community. This unique program used ARRA funds to help our community improve its housing stock and build the EE market for private contractors – truly stimulating our economy and likely for the long-term.

Distribution of GHGs by Sector & Energy Type

GHG % By Sector

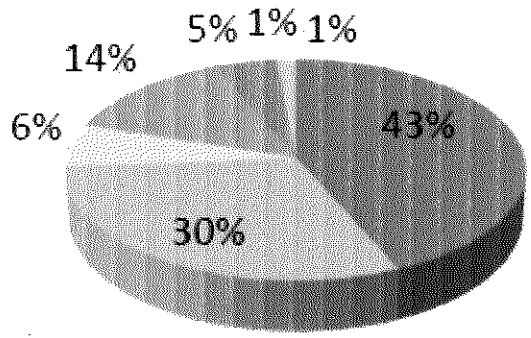
3.4 million MT CO_2-e



- Residential - 33%
- Commercial / Industrial - 30%
- Trans - Non-Commercial - 35%
- Trans - Commercial - 2%

GHG % By Energy Type

3.4 million MT CO_2-e

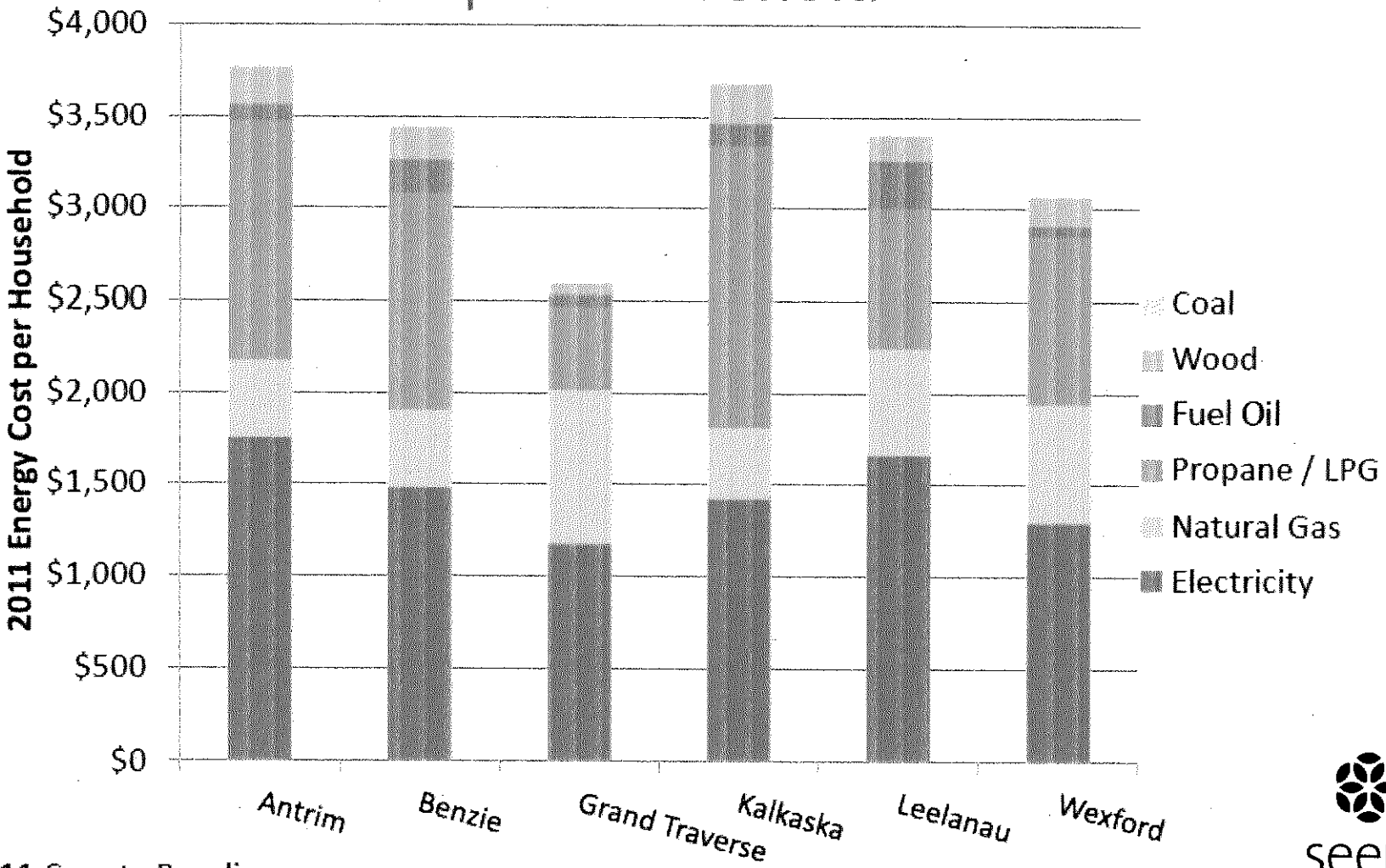


- Electricity - 43%
- Gasoline - 30%
- Diesel - 6%
- Natural Gas - 14%
- Propane / LPG - 5%
- Fuel Oil - 1%
- All Other Fuels - <1%

2011 6 County Regional Baseline

seeds
Ecology – Education – Design

Residential Housing Energy Cost per Household

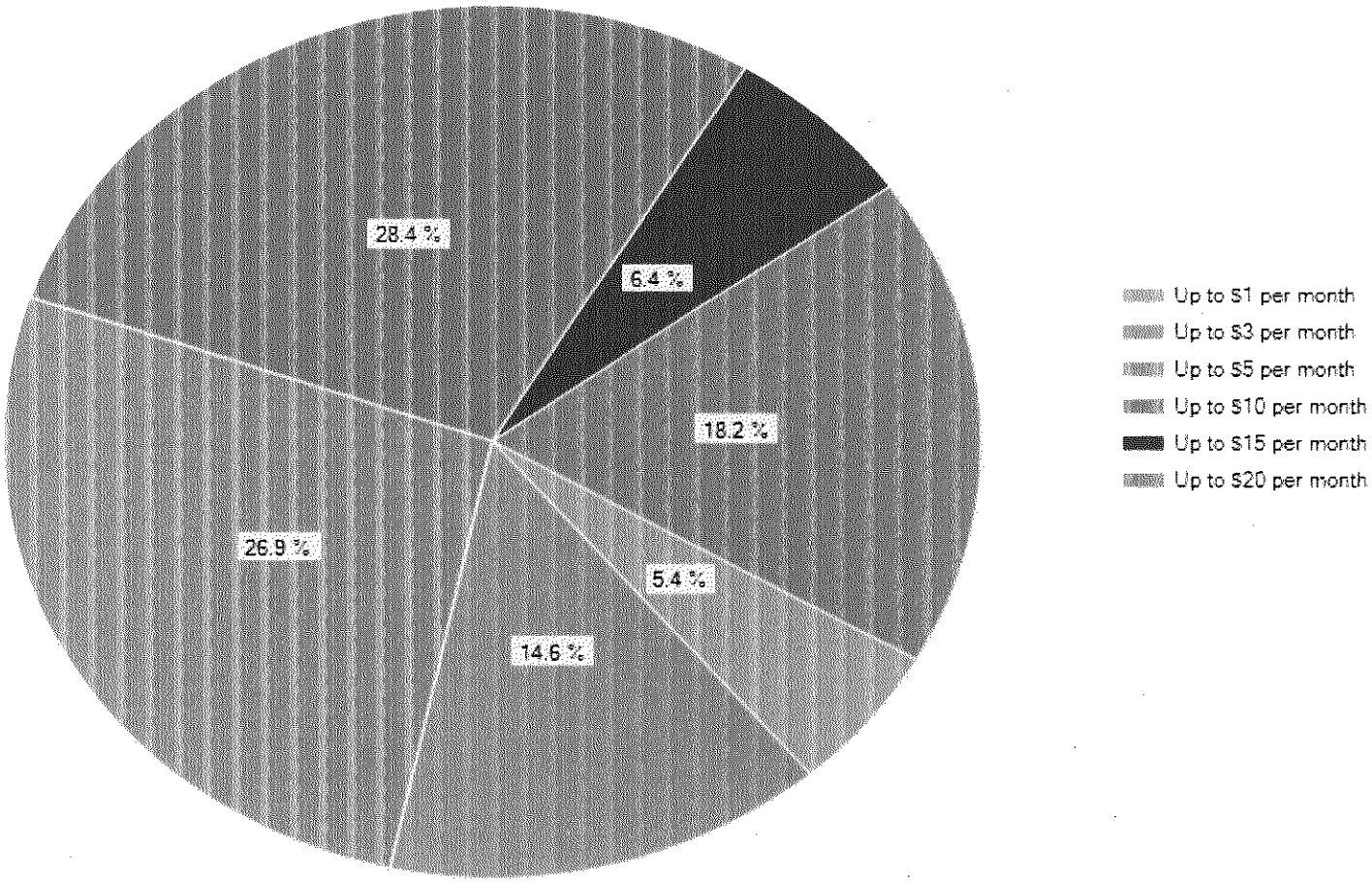


2011 County Baselines

seeds
Ecology – Education – Design

62% of 2000+ surveyed Agree or Somewhat Agree:
"I'd Pay More on Utility Bill if More Conservation and Efficiency Programs Were Provided"

How much more would you be willing to pay per month on your utility bill for more conservation and efficiency programs?



ENSURING MICHIGAN'S ENERGY FUTURE

PUBLIC COMMENTS PROVIDED BY

MARGARET ROBERTS VANHAFTEN

APRIL 22, 2013

I worked in the energy field for 32 years, including two years with the Family Energy Project at Michigan State University, seven years at the Energy Administration, and 23 years at the Public Service Commission prior to retiring in 2010. In this statement I offer comments and recommendations based on my experiences in the energy field, focusing on general energy efficiency, low-income energy efficiency and energy assistance, and wind energy.

Energy Efficiency (Questions 2 & 10):

Based on comments made by previous speakers at these forums, especially Dr. Martin Kushler, David Konkle from the City of Ann Arbor, Sharon Theroux from MCAAA, there is no need for me to say more about the benefits of energy efficiency except "ditto." These people have been involved in energy efficiency programs for decades and have a clear understanding of the issues and the benefits of energy efficiency and the development, delivery, and evaluation of services. I believe their comments, especially Dr. Kushler's, should be given significant weight when considering Michigan's energy future.

I will add one comment: Michigan needs sustainable energy efficiency programs with sustainable funding, with the emphasis on "sustainable." To fully understand the necessity of sustainability, one only needs to review Michigan's thirty-seven year history of establishing and then reducing or eliminating energy efficiency programs. Three years after the first Oil Embargo, in 1976, the Michigan Energy Administration (EA) was established by Governor William Milliken and charged with identifying Michigan's energy problems and making specific recommendations to address these problems. Based on those recommendations, EA developed and provided successful programs through the mid-late 1980s, including those for the residential, industrial and commercial, governmental, school, hospital, and transportation sectors as well as energy education programs in schools. By the mid- to late-1980's these

programs had lost funding or been phased out. Thus began a pattern of establishing programs, seeing progress, and then eliminating or downsizing the programs in favor of other solutions to our energy problems. Programs would be planned, funding mechanisms established, target audiences identified, staff trained, and service provided, only to have policy-makers determine that a different approach was more attractive or politically expedient. If we had continued those initial programs, allowing for adjustments based on new technologies and evaluations, but sustaining them over the past 37 years, we would probably not be having this discussion today. I admit that energy efficiency isn't glamorous; it is tedious work. Nevertheless, as Dr. Kushler and others have demonstrated, it is the responsible path for Michigan's energy future.

A sustainable program will provide organizations and companies offering services to plan, hire, train, and provide service with the confidence that they will not be eliminated or cut back based on political whim. We cannot expect these companies and organizations to establish themselves in Michigan, especially with our on-again, off-again history, without some type of assurance that they will have the opportunity to operate into the future. There is still plenty of work to do as so pointedly demonstrated by the Cadmus Group's baseline study cited by the Commission in its "2012 Report on the Implementation of P.A. 295 Utility Optimization Programs" and discussed by Dr. Kushler.

Low-Income Programs:

I support the comments provided by the Coalition to Keep Michigan Warm and other speakers discussing the difficulty low-income customers have when struggling with increasing energy bills. This group includes a significant number of Michigan residents, including older citizens, those not currently working or disabled, and working citizens with low-incomes. These customers are often hampered by the aging and inefficient nature of their housing. In many cases, these people cannot afford to move to more efficient housing and cannot afford loans to weatherize their existing homes. They are trapped in a cycle of high bills, arrearages, shut-offs, and reconnections when enough money is available to establish a payment plan with the utility company, only to repeat the cycle. This is nothing new, but the situation has intensified as the housing stock as aged and more energy customers find themselves with incomes below poverty levels. Michigan continues to combine Federal funds with utility surcharges and charitable

funds to pay utility bills year after year, keeping in mind that available energy assistance funds do not meet the demand. I recommend the work of Roger Colton (Fisher, Sheehan & Colton, Public Finance and General Economics) and review of the Energy Affordability Gap Report for Michigan: http://www.homeenergyaffordabilitygap.com/05_Current_State_Data2.html. I also encourage the consideration not only of bill-paying assistance in the cost benefit analysis, but also the resulting arrearages passed on to other ratepayers and losses associated with low-income theft. I encourage an intense and aggressive initiative to improve the energy efficiency of the homes of those who cannot afford to pay utility bills; that they receive weatherization services ending the need for bill payment assistance or at least a reducing the amount of assistance needed, or access to affordable efficient housing with assistance to cover moving expenses. This continuing and expanding crisis demands solutions considered to be "outside the box."

It might be beneficial to have different approaches in dealing with different groups of non-paying customers:

- Those who can afford to pay but choose not to;
- Those who could pay provided obstacles are eliminated; and
- Those who do not have sufficient income to pay.

The dynamics are different for each situation and targeted approaches may be needed. Think outside the box and be innovative. I suggest the reviewing the work of Nancy Brockway (NBrockway and Associates) who has extensive experience working with government agencies and utilities on developing programs to assist low-income customers. There was an interesting study, I believe conducted by Wisconsin Public Service Corporation which looked at the impact of professional social workers working one-on-one with low-income customers to break through the barriers that kept them from paying, for example by helping the customers establish budgets or obtain access to assistance programs. Despite the costs associated with this labor-intensive endeavor, it still paid for itself in the reduction of arrearages. The Michigan Electric and Gas Association has a copy of the report and there should be copies in files at the

PSC (I left one in my files). The LIHEAP Clearinghouse also is a valuable resource on what other states are doing for low-income customers.

Wind Energy:

There have been several presentations on the potential for wind generation in Michigan, including those for and against further development of wind turbines. Supporters of wind generation have provided maps showing the potential for wind generation in Michigan estimating amount of electricity that could result from an intensive wind program. These are potentially impressive exhibits. However, what these maps don't show is the availability of units of property large enough to support industrial-scale wind turbines without negatively impacting the health, environmental safety, and property values of neighboring property owners. As large farms have been divided into smaller parcels for residential use, space for industrial-scale turbines is not as available as indicated in the maps. There are quite a few relatively small plots of land (10-20 acres) in this area, Federal land, and property owned by the Land Conservancy.

While renewable generation sources in general, and wind specifically, offer hope for Michigan's energy future, development should be done carefully, heeding health and safety studies and anecdotal experiences of problems associated with the turbine operation You have heard from several landowners experiencing help problems and there are a variety of international studies providing supporting data. When considering the widespread installation of many turbines as some of the large developers propose, there is a greater likelihood that many more residents will be negatively impacted. It would be irresponsible to construct industrial-scale turbines when questions exist about the health, safety, and economic impacts on the surrounding public and refer you to Elizabeth Wheatley's comments.

One only needs to think about the days when nuclear energy was viewed as the panacea for the county's energy future, promising energy "too cheap to meter." Concerns were ignored and the industry moved to build plants. The promises failed to deliver, there were cost overruns, rate increases, and there are still concerns and unanswered questions about safety, viability and especially the safe and proper disposal of nuclear waste. While I am not intending

to place wind in the same category as nuclear, there is no panacea for generation, all options have direct and indirect costs. Major industrial-sized wind farms will require addition costly transmission, again a threat to property values. It would be a mistake to put significant money into wind generation, or any other generation source, without a full accounting for all of the costs with appropriate remediation in place.

While perhaps premature, I also want to add a few words about initiatives to shift zoning for wind turbines from the local unit of government to the State. This is ill-conceived plan for a number of reasons:

- Zoning is inherently a local issue. Local officials have the responsibility to ensure appropriate property use within their jurisdictions and to enforce any resulting zoning requirements, answering directly to the voters in their jurisdictions. One set of standards will not fit all areas if the state. State officials are entirely too detached from the implications.
- The State is not set up to deal swiftly and aggressively with zoning violations it enacts, and local units of government cannot assume the financial responsibility for pursuing violations for codes established by the State.
- The State is not able to assume financial responsibility for loss of tax revenue from any reductions in property values, or to supplement residents for loss in property value.
- The State is not in a position to deal with any possible financial fallout resulting from health, safety, or environmental impacts related to the operation of turbines.
- Local units of government can consider the implications of any transmission that might be required to serve the turbines.
- It will be the local units of government who will be required to deal with abandoned turbines and they should have the ability to set the standards.

I encourage the Commission to consider all sound research on health, safety, and economics as well as who sponsored the research before supporting development of large-scale wind farms. Appropriately sited and sized wind turbines, developed in conjunction with local units of government and the citizens there in, can be a part of Michigan's energy

future. However, we do not need and cannot afford more panacea-type answers that fail to deliver the promised benefits.

Finally, based on my years in State service, I am clearly aware that there is often a "disconnect" between the legislature and the experts in the various State departments, as well as their constituents. Especially since term-limits do not foster the opportunity for legislators to develop true expertise in the fields they must make decisions on, I am hoping they will give serious and thoughtful consideration to the report generated from these forums. Now is not the time for politics to rule the day. The issue is far too serious to be taken over by special interests. I appreciate the opportunity to provide comments on Michigan's Energy Future.