



STATE OF MICHIGAN



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: Brindley Byrd

Affiliation (if any): Coalition of Michigan Energy Efficiency Contractors

Phone: (517) 203-9180

Email: brindleybyrd@me.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): Question #1

Requested time to speak: < 5 minutes 5 minutes

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

A COALITION OF MICHIGAN ENERGY EFFICIENCY CONTRACTORS

Statement at Michigan's Energy Forum

February 14, 2013

Good afternoon ladies and gentlemen. My name is Brindley Byrd. I represent a start-up, grassroots coalition of contractors and businesses serving Michigan's energy efficiency industry. We would like to respond to Question 1 of the Governor's Overall Questions regarding sources of information to consider.

I would first like to thank Chairman Quakenbush and Chairman Bakka for the opportunity to participate in framing the conversation surrounding Michigan's energy efficiency goals.

We applaud Governor Snyder for sending out the call for much needed dialogue regarding energy choices and for your effort to lead a public discussion on Michigan's energy future. Further, we would like to also thank the Michigan Public Service Commission for organizing these most important energy forums. Michigan's energy efficiency contractors have heard the call.

With their experience in the residential and commercial sectors providing energy efficiency installations and retrofits in all types of buildings and throughout the built environment, their knowledge is vital as Michigan considers its energy future. The challenge before now has been how to assemble such a diverse and disparate constituency into a cohesive resource for policy makers to efficiently draw upon.

As a coalition, we pledge assistance to Michigan's legislators, regulators and policy makers who are now undertaking this task.

We have three priority goals that if upheld, are sure to lead to a healthy energy future for Michigan.

1. Securing a world-class, long-term and predictable energy efficiency market for Michigan citizens.
2. That Michigan's energy efficiency market has minimal barriers to access and multiple bridges to connect generators, ratepayers, contractors, manufacturers and other energy efficiency service businesses.



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

Name: George W. Clark
Affiliation (if any): Doctor Energy Saver
Phone: 517-775-4586 o 517-646-4026
Email: gclark@drenergy.ce

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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February 14, 2013

To: Michigan Energy Public Forum

From: George Clark, Dr Energy Saver

Regarding: Addressing Q10, How much energy efficiency is technically feasible in Michigan.

My name is George Clark and I run a auditing and weatherization company in Lansing. We have been in business for 2 ½ years and have created 25 jobs in the area. I believe that facts don't lie, so here are some statistics. I would like to illustrate what the potential is for jobs, energy savings, and the economy based on the results we have had. The numbers I am using are approximated and rounded down in all examples, therefore the data will be very conservative.

- We have completed over 1500 full BPI certified audits
- We have only run into 10 homes that we could not help in a significant manor.
- We have completed over 600 retrofit weatherization projects.
- The average price for a project is \$5000.
- The average annual savings has been conservatively \$500 for each home.
- We have installed over 500 energy saving kits through Consumers Energy, DTE and Better Buildings for Michigan.
- These initiatives have produced \$300,000. in energy savings for the utility companies.

It is important to keep in mind that only 40% of the homeowners that we could help moved forward with doing at least some of the work. Not every homeowner did everything that was recommended to save energy. The full potential for savings with just this group of 1500 homeowners' could have been \$750,000.

- There are 1.7 million homes in the state of Michigan, I am going to assume that there are 1.5 million homeowners that we can help
- Energy prices are not going to go down, which always helps move the market toward taking action.
- This represents 7.5 billion in potential retrofit weatherization.
- This represents \$750,000,000 in savings on the utility costs, and that is using today's rates.
- Utility rates have gone up 142% in the last decade.

This is only addressing residential usage which is only 21% of the total energy used in our state. It does not include the potential business and savings for HVAC equipment, doors, windows, alternative energy initiatives or the commercial sector.

In closing, any way you look at or want to apply your own economics to these facts, the potential for economic growth for the state, jobs and savings has not even been touched. We need to do everything possible to stimulate the education, awareness, and incentives to encourage the people of Michigan to take action and do something. It all starts with us!

Thank you



George Clark
Dr Energy Saver
General Manager
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517-646-4026 (office)
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drenergysaverlansing.com



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

Name: Jo Ann Render

Affiliation (if any): Great Lakes Renewable Energy Association

Phone: 517-679-3316

Email: jrender@umich.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): _____

Requested time to speak: < 5 minutes 5 minutes

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

Name: Julie Lyons Bricker

Affiliation (if any): Michigan Interfaith Power & Light

Phone: _____

Email: director@mippl.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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If you wish to speak today, please complete the following:

Name: Nick Zientarski

Affiliation (if any): _____

Phone: 616 292 0119

Email: Hola Zemail@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: < 5 minutes 5 minutes

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Nick Zientarski 616.292.0119 HolaZemail@gmail.com
11517 van lopik ave Grand Haven MI 49417

Thank you moderator, Mr. Director, Mr. Chairman, to Legislators, Public Officials, Presenters, and fellow attendees, for the floor.

My name is Nick Zientarski, My mission is the rid the World, of financial insecurity... for this to occur, I NEED my State to lead by example. Before, my suggestions. I feel obligated to share this short story, being Valentine's Day, today, this story is about love,

Before the 10% cap of alternative energy supply, was reached late in the year of 2009, I recently was hired as a Manager, for an alternative supplier, once the 10%cap hit, 4 months into my new career, this, actually empowered me to move to Illinois, for 2 reasons, one, I wanted to keep my new job, because those that stayed in Michigan, were soon let go.

Second, moving gave me a greater opportunity, to become a caregiver for my 2 grandparents who were still living alone and in their 90's. my gift of caregiving with a physical move, was 2 days late, my grandfather slipped on the ice in January 2nd, 2010 and busted the whole right side of his body, Now, I was truly needed in Illinois. With great gratitude I Thank you for Re-Regulating DeRegulation. unfortunately both grandparents are past, and so should the 10% cap.

With my previous career, hopefully, I am just like everyone here, with each new career, gaining Tacit knowledge. The Great Abraham Lincoln said, "I do not think much of a person who does not know more today than yesterday."

if on choice your delivery charge stays the say, but Did you also know, Michigan is the only State in which customers, on Choice, are forced to pay an extra premium every month, known as Interval Metering.

This is not attracting, future Michiganders or businesses

Here are my suggestions:

on Reliability, in Illinois, I frequently spoke to the regional manager, of distribution, with over 25 years experience, he, with confidence, told me that de-regulation does improve their speed and ability to fix the power lines when an outage.

Second, pricing visibility . all in one billing, when using a Choice Supplier, in the chicago land area is standard, the rest of Illinois, the standard is 2 bills. Seeing both sides, I encourage, Let's make this simple. single bill WITH, a cost comparison on every bill every month,

This will keep both suppliers in check, the default & Choice. Every Month

Let your mind rewind to the forced extra premium, for choice customers only, called Interval Metering. This premium is a separate fax line hooked up to your meter. This makes Choice, no longer financially attractive to the medium or small scale user. What is good for the big, has to be good for the little. Learning as a boy scout, the best way to build anything, is from the bottom - up

In closing and moving forward, Let's call the 10% cap what it really is. a 90% monopoly. An all in one billing, with a savings analysis, every month would be incredibly attractive to future Michiganders.

Let's remove the monopoly to increase reliability, Lets simplify billing, Lets build from the bottom up

We must, at minimum remove the hurdle of Interval Metering.-----

Nick Zientarski 11517 van lopik ave grand haven MI 49417
616.292.0119 HolaZemail@gmail.com



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

Name: Nancy James
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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): _____

Requested time to speak: < 5 minutes 5 minutes

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

Name: PETER WONG

Affiliation (if any): ROY SMITH COMPANY

Phone: 313-883-6969

Email: peter.wong@rcmain.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: Lewis N. Walker
Affiliation (if any): Chancellor Lawrence Tech
Phone: 248 204 3059
Email: lwalker@lwtu.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): _____

Requested time to speak: < 5 minutes 5 minutes

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See attached

<http://historyofderegulation.tcaptx.com/SB7-Report-2012.pdf>

<http://blog.chron.com/lorensteffy/2012/12/what-has-electric-deregulation-cost-you/>

<http://blog.chron.com/lorensteffy/2013/01/national-panel-questions-reliability-of-texas-electric-grid/>

Comments of Lewis N. Walker
Chancellor, Lawrence Technological University
Energy Forum #1, Lansing, MI
Feb. 14, 2013

Good afternoon. My name is Lewis N. Walker and I am Chancellor of Lawrence Technological University and professor of Electrical Engineering.

LTU is a private, fully accredited university founded in 1932. We have grown to serve the needs of 4,500 students drawn from 25 states and 50 countries.

We offer more than 100 degree programs through the doctoral level in our Colleges of Architecture and Design, Arts and Sciences, Engineering, and Management. *Bloomberg*

Businessweek ranks Lawrence Tech among the nation's top 20 percent of universities for return on undergraduate tuition investment, and highest in the Detroit metropolitan area. Lawrence Tech also places in the top tier of Midwestern universities according to *U.S. News and World Report* and the *Princeton Review*. Our students benefit from small class sizes, experienced faculty who provide a real-world, hands-on, "theory and practice" education, and a great overall development experience with an emphasis on leadership.

Speaking of leadership, I want to thank Governor Rick Snyder, MPSC Chairman John Quackenbush, Michigan Energy Office Director Steve Bakkai and their staffs for putting together this forum, the first in a series spanning the state. I believe it is the best

approach to tackle such an important issue of energy policy and support it wholeheartedly.

Policy decisions that will define Michigan's energy future are key to ensuring that our state remains attractive to families and businesses.

The policy decisions that will result from this inquiry also will serve as a foundation for sustained economic growth.

It is important for elected officials and other policymakers to understand, evaluate, weigh and balance many factors in developing the energy policies that will serve Michigan for decades to come.

Much has been made recently about the cost of electricity. Cost, while important, is just one factor. I encourage policymakers to also carefully consider such factors as reliability, the eventual need for a new generation of power

plants, and the expansion and modernization of Michigan's transmission system as well as the proper role for renewable energy and energy optimization initiatives.

Equally important, I believe we must adopt policies that encourage investment, not only in Michigan's generation portfolio, but in the distribution system. The supply of reasonably priced power is meaningless if the system to move that power to its end users fails.

Make no mistake, the availability of clean, reliable, reasonably priced electricity is critical to my institution. If we don't have it, we simply cannot fulfill our mission of guiding our students on path to becoming leaders with an entrepreneurial spirit and global view.

I remember what happened in California when decision makers adopted energy policies that turned out, in retrospect, to have not been

adequately researched. Those policies nearly ruined that state.

In 2008 state legislators passed a comprehensive energy policy for Michigan. Three years later it is clear that Michigan's energy policy is working. This follows an unsuccessful deregulation experiment (Public Act 141) from 2000-2008. That eight year period resulted in an environment that failed to produce benefits for Michigan's electricity consumers, failed to lower prices and badly discouraged investments in the electrical infrastructure required for long-term economic growth. There is no denying that electricity rates have increased. Still, the 2008 comprehensive energy policy has encouraged and produced energy efficiency improvements that will save customers hundreds of millions of dollars, is on-track to having all customers

paying their true cost of service, and has supported over \$4 billion in electrical infrastructure improvements, environmental improvements and added sizable renewable electrical energy generation.

In contrast, California and other states that have pursued a deregulation policy have been exposed to the volatility of commodities market that has produced sharp price increases and rolling blackouts, not a good environment. If you seek a more recent example, I encourage you to examine a recent report issued last December by the Texas Coalition for Affordable Power, a scathing assessment of that state's experiment with deregulation.

I encourage decision makers to avoid returning to the path of ideology-based policy experimentation.

My view of the current environment for energy in Michigan and the role electric power plays in the success of my organization suggests that the state's current law is working as it was designed to.

The current system makes sure that the lights come on and that energy is readily available at a reasonable stable price to grow the economy. Taken a step further, raising the 10 percent cap and moving to a deregulated market risks the 100 year history local utilities have of providing power when we need it.

Michigan's 2008 Energy Laws, passed by the legislature in an overwhelming bipartisan manner, have paved the way for the state's largest investments in renewable energy and energy efficiency or optimization initiatives.

Of course, all processes can be improved, and the current regulatory model in Michigan is no exception. We believe there can be constructive discussion around how to better ensure that our customers get consistent, quality services at a reasonable price. That is why these deliberative fact finding forums work.

In order to make these discussions fruitful, we need to understand where the current system has been successful. We will be happy to provide any additional information to the Chairman that helps the process.

Again, we'd like to thank Gov. Snyder, Chairman Quackenbush, Mr. Bakka and the committee for this opportunity to share our perspective on the issue of Michigan's energy future.



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

Name: John Sarver

Affiliation (if any): GIREA

Phone: 517-290-8602

Email: johnsarver3@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: < 5 minutes 5 minutes

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

Name: WAYNE APPLEARD

Affiliation (if any): ANN ARBOR ENERGY COMMISSION

Phone: 734 904-5650

Email: wayneapple@aol.com

Topics you wish to address today:

- a. Renewable Energy Portfolio Standards
- b. Energy Optimization / Efficiency Standards
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- d. Other Additional Energy Topic

(Please specify): _____

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

Name: Jon Van Camp
Affiliation (if any): Sierra Club
Phone: 810-278-5346
Email: vanccam14@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): renewables vs coal

Requested time to speak: < 5 minutes 5 minutes

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

Name: JESSICA YORKO

Affiliation (if any): MI AIR, MI HEALTH COALITION / INGHAM CO.

Phone: _____

Email: jyorko@ingham.org

HEALTH
DEPARTMENT

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): health impacts

Requested time to speak: < 5 minutes 5 minutes

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

Name: Carol Simon

Affiliation (if any): _____

Phone: 248-256-6339

Email: carolgsimon@comcast.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): education about efficiency & energy usage

Requested time to speak: 2 < 5 minutes 5 minutes

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

Name: MIKE LINSEA
Affiliation (if any): SOLAR WINDS POWER SYSTEMS
Phone: 616 635 7855
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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): _____

Requested time to speak: < 5 minutes 5 minutes

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

Name: LOIS ROBBINS
Affiliation (if any): NONE
Phone: (248) 969-2518
Email: lois@robbinsmail.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): Distributed Energy w/Renewables

Requested time to speak: < 5 minutes 5 minutes

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

Lois Rottine - Ottawa, IL
~~Phase II~~ storm water Mgt. edu
worked on local Envoissages

DATA: Resource;
Jeremy Ricklin,
The 3rd Indust. Revolution

Request

as you develop your energy plan, please
think more long-range,
eg: I'd like to see more attention to
distributed power (more localized
power generation & net metering)

Not on anyone's radar

I understand power companies will not
be comfortable w/ this, till their role
evolves into one of managing the
flow.

addresses
Hard bundle, but cost-efficient in the
long run - also → • Env. stps • Affordable ^{over long} term

• More reliable (illustrated by Superstorm
Sandy - windless still
w/out power)

• More Secure from cyber-attacks
DATA

Require 3rd cap on
Net Metering

Distributed
Mentioned by
John Sawyer



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

Name: Kevin Martis
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Email: Kevin @ Kevin Martis - com

Topics you wish to address today:

- a. Renewable Energy Portfolio Standards
- b. Energy Optimization / Efficiency Standards
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- d. Other Additional Energy Topic

(Please specify): _____

Requested time to speak: < 5 minutes 5 minutes

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Does wind deserve a seat at Michigan's energy table?

Kevon Martis

Even as Governor Snyder sets the table for a yearlong discussion on Michigan's energy policy, Proposal 3's recently defeated boosters are still at it, using the same rhetoric that failed to convince Michigan voters to increase Michigan's renewable energy to 25% of retail sales by 2025.

Yet the question remains: does wind energy deserve a seat at the governor's newly-set table?

Wind energy by itself has effectively zero chance of replacing fossil fuel plants because of wind energy's capricious fuel source: the wind. According to American Wind Energy Association board member E. On Energy (EON), a German wind turbine developer and utility grid operator:

*"As wind power capacity rises, the lower availability of the wind farms determines the reliability of the system as a whole to an ever increasing extent...[a]s a result, the relative contribution of wind power to the guaranteed capacity of [Germany's] supply system up to the year 2020 will fall continuously to around 4%. **In concrete terms, this means that in 2020, with a forecast wind power capacity of over 48,000MW, [only] 2,000MW of traditional power production can be replaced by these wind farms.**"*

Assuming EON isn't being too generous to wind, by their own reckoning wind plants can at best replace coal plants at a ratio of 24 parts wind to 1 part coal. This reality has profound implications for Michigan energy policy. It also has profound implications for environmental and economic policy.

Using EON's data, if we intended to use wind alone to replace DTE's Monroe Coal plant we would need to build 72,000MW of wind capacity. That equals 40,000 Vestas V-100 industrial skyscraper wind turbines. In Michigan these currently cost about \$4 million each, for a grand total of **\$160 billion dollars**.

This does not include some equally earthshattering sum for new transmission lines and excludes the external human and wildlife costs of such massive wind development such as property value losses, quality of life and sleep disturbance from industrial noise pollution and endangered bird and bat devastation.

If we adopted this solution to reducing coal emissions, Michigan would need to erect one 50 story tall turbine in every single square mile of the Lower Peninsula. Yet having done this, we would eliminate only ¼ of Michigan's coal generation.

Imagine: \$160 billion worth of wind turbines to replace only 1 Michigan coal fired power plant. If we are intent upon cost effectively reducing emissions while maintaining our competitive edge as a manufacturing state, is there a way to get a bigger return on such a massive investment?

\$160 billion could build 160GW of Combined Cycle Gas Turbine (CCGT) generation. *That is 8 times Michigan's average generating capacity from gas, coal, nuclear and renewables generating plants combined.* Since CCGT plants produce half the emissions of conventional coal plants, \$160 billion worth of these gas plants could permanently replace every coal fired power plant in Michigan, Ohio, Wisconsin, Minnesota, Illinois, Indiana, Pennsylvania, New York, Kentucky, West Virginia and Missouri- thereby slashing their pollution and CO2 emissions by half.

Further, if we chose to spend that same sum constructing new nuclear generation, we could permanently close every coal plant in Michigan, Ohio and New York, reducing those states' coal emissions to zero.

Recognizing that wind as a standalone replacement for coal generation is an absurd impossibility, advocates like *Michigan Energy, Michigan Jobs'* Mark Fisk have been promoting natural gas and wind in combination as a replacement for coal generation. They know that by pairing flexible natural gas generation with small quantities of wind generation (Michigan still produces less than 1% of our electricity from wind), wind's appalling inefficacy is hidden since natural gas generation furnishes almost all of the energy.

ME-MJ attempted to predict the correct generation mix for Michigan's energy future – by mandating it. Michigan voters wisely rejected the attempt by nearly a 2:1 margin.

As Governor Snyder opens the door to a yearlong public discussion on energy policy, let us remind him that our ability to compete as a manufacturing state will never be strengthened by mandating expensive intermittent resources like wind. Further, if we are serious about reducing emissions, protecting people's health and preserving our *Pure Michigan*, we also need to remind him that wind energy is a ridiculously inefficient way to do so.

Kevon Martis
Senior Policy Analyst
Interstate Informed Citizen's Coalition, Inc.
Blissfield, MI
www.iiccusa.org

The Interstate Informed Citizen's Coalition, Inc. is a bipartisan renewable energy citizen's watchdog group committed to promoting science based energy policy. ICC is supported by small donors across the State and is not allied with any industry or advocacy groups.

708 Words



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RICK SNYDER
GOVERNOR

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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: Emily Eiffert
Affiliation (if any): Student
Phone: 585-734-1859
Email: eeiffert@umich.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): _____

Requested time to speak: < 5 minutes 5 minutes

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

Name: ROGER COPE
Affiliation (if any): ASTRAEKS WIND / DOWDING INDUSTRIES
Phone: 517-663-5455
Email: rroberts@dowdingindustries.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): TECHNOLOGY INTRODUCTIONS

Requested time to speak: < 5 minutes 5 minutes

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STEVE BAKKAL, DIRECTOR

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

Name: Dawn Fleming

Affiliation (if any): _____

Phone: (517) 267-9065

Email: FLEMINGD@Cooley.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): FRACKING

Requested time to speak: < 5 minutes 5 minutes

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

Name: Susan Harley
Affiliation (if any): Clean Water Action
Phone: 517-775-4254
Email: s Harley@cleanwater.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): Fracking

Requested time to speak: < 5 minutes 5 minutes

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STATE OF MICHIGAN



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

Name: CATHERINE OTTARSON

Affiliation (if any): _____

Phone: 517 4824123

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): NUKES

Requested time to speak: 2 < 5 minutes 5 minutes

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

Name: LILLIAN CUSOMANO
Affiliation (if any): SMART METER UPDATE.COM
Phone: 586-7385271
Email: GREAT2BET4U@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): SMART METER / FREQUENCIES / HEALTH

Requested time to speak: < 5 minutes 5 minutes

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STEVE BAKKAL, DIRECTOR

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

Name: JEFF METTS
Affiliation (if any): ASTRAEUS WIND/DOWDING INDUSTRIES
Phone: 517-663-5455
Email: rroberts@dowdingindustries.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): Technology Introductions *efficiency*
energy
& automobile

Requested time to speak: < 5 minutes 5 minutes

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

Name: Joseph Hess, MD
Affiliation (if any): Union of Concerned Scientists
Phone: 517-351-9290
Email: jwhessgm@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): Public health implications

Requested time to speak: < 5 minutes 5 minutes

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COMMENTS FOR GOVERNOR SNYDER'S ENERGY FUTURE FORUM
LANSING, MICHIGAN FEBRUARY 14, 2013

Submitted by Joseph W. Hess, M.D. retired Professor of Internal and Family Medicine
Wayne State University and University of Utah medical schools
Member, Union of Concerned Scientists (UCS)

First I want to commend and thank Governor Snyder for recognizing the critical impact which future energy policy will have on the economic and physical health of the people of Michigan. This Forum and others like it to be held across the state will help address the need for policy makers and the public to become better informed about the complex web of issues surrounding state, national and global energy policies and their impact on climate change.

I also commend our Governor and his team for inviting representatives of the Union of Concerned Scientists to participate and submit comments to these deliberations. UCS is one of the premier science based organizations with the broad expertise to help guide energy policy development locally and nationally.

As a medical professional my remarks will be directed toward the public health and health care economic implications of energy policy. The health implications are complex and the details are continuously being refined by the research community. But there are well documented broad trends in understanding the health and economic consequences of widespread use of fossil fuels as energy sources and the potential for reducing these negative consequences by accelerating the transition to cleaner, less polluting sources of energy.

Coal as an energy source is a prime example. Coal has been a mainstay for generating electricity for nearly two centuries but it is only in the last 50-75 years that high quality research has documented the complex mix of toxic pollutants released into the surrounding air, water and coal ash holding reservoirs. These byproducts include carbon dioxide, carbon monoxide, nitric oxide, mercury, radioactive elements and particulate matter which can be inhaled and damage lung tissue and many others.

The documented personal health consequences of these pollutants are equally diverse and growing. They include aggravation and possibly causation of a wide variety of health problems including asthma, bronchitis, emphysema, chronic obstructive pulmonary disease, heart disease, some types of cancer and others. A similar scenario applies to petroleum based energy. They contribute to the even broader health consequences of our changing climate.

The health care economic impact of fossil fuel pollution related illnesses and disabilities runs into the millions each year in Michigan and billions nationally. Quantified estimates of costs should be requested from the Michigan Dept. of Community Health, the Centers for Disease Control and health policy research centers. But the point is, that in a time of increasing urgency to control health care costs, transitioning from fossil fuels to cleaner energy sources such as wind, solar and biofuels has the potential for reducing the upward pressure on state and national health care budgets. At the same time it will do more to protect the health of our people. When combined with the job creating and economy expanding benefits of clean energy manufacturing, it's a win-win opportunity for Michigan.

In summary, I would urge all involved in setting energy policy for the State of Michigan to factor into the equation the potential savings in health care costs from accelerating the transition to cleaner energy sources.

As you digest the information gathered from these public forums, please also take advantage of the wealth of resources available from UCS, the Michigan Department of Community Health, Michigan's research universities, Pew Charitable Trusts, the CDC, EPA and others. The stakes are so high over the long term that the citizens of Michigan and the world should benefit from the best scientific expertise and research available.



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Readying Michigan to Make Good Energy Decisions Michigan Energy Public Forum Statement Card

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

Name: REBECCA HAMMOND

Affiliation (if any): SILVERA CLUB GREAT LAKES PROGRAM

Phone: 248-548-6575

Email: bhammond73@aol

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): FRACTURING + WATER - LAKE LEVELS

Requested time to speak: < 5 minutes 5 minutes

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

Name: DOMINIC CUSUMANO
Affiliation (if any): SMARTMETERUPDATE.COM
Phone: 586-7385271
Email: BREAT 2 GET 4 U @ 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): FCC SMARTMETER / WIRELESS

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

Name: Tyrone Stephens
Affiliation (if any): Environment Michigan
Phone: 202-215-8880
Email: tyes22@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: < 5 minutes 5 minutes

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

Name: David Konkle
Affiliation (if any): Great Lakes Responsible Energy Assoc
Phone: 734 323-2828
Email: konkle@fast.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): Energy Education

Requested time to speak: < 5 minutes 5 minutes

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

Name: Lucinda Hohmann

Affiliation (if any): Union of Concerned Scientists

Phone: 312 898 5489

Email: LHOHMANN@UCSUSA.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: Anne Woiwode
Affiliation (if any): Solar Club
Phone: 517-484-2372
Email: Anne.Woiwode@SolarClub.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): Biomass

Requested time to speak: < 5 minutes 5 minutes

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

Name: Connor Meston

Affiliation (if any): _____

Phone: (616) 607-4102

Email: mestonco@msuedu

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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Union of Concerned Scientists
Citizens and Scientists for Environmental Solutions

Readying Michigan to Make Good Energy Decisions
Michigan Energy Public Forum: Lansing
February 14, 2013

Submitted on behalf of
Union of Concerned Scientists

Delivered by LuCinda Hohmann, Midwest
Campaign Manager

The Union of Concerned Scientists (UCS) is a leading nonprofit science organization with more than 12,000 supporters in the state of Michigan. UCS is a partnership of scientists and citizens working for a healthy, safe, and sustainable future. We thank Commissioner Quackenbush and Mr. Bakkal for convening today's forum and we thank Governor Snyder and his team for the opportunity to provide comments during this process.

Securing a sustainable future for Michigan includes developing a sustainable energy plan and we applaud the governor for creating a process that allows for serious public engagement on this topic. Michigan's energy plan and this process must be driven by science, data, and credible research. Relying on sound science and rigorous analysis will show that supporting policies to boost Michigan's use of clean energy resources, such as renewable energy and energy efficiency, will help grow Michigan's economy by creating jobs, lowering costs, and improving public health and the environment.

Michigan is already a clean energy leader. The state's natural resources, strong manufacturing base, and talented workforce position Michigan to reap the economic benefits of growing its clean energy sector. There are more than 240 businesses across Michigan that are part of the wind and solar energy supply chains. These companies represent an important and growing part of Michigan's economy and together have created more than 10,000 jobs. However, unless we continue to put policies in place to drive continued investment and growth, Michigan will likely fall further behind other states with stronger clean energy policies.

In fact, Michigan's investments in clean energy will drop-off significantly when the state's current renewable energy and energy efficiency requirements are fulfilled in 2015. The Union of Concerned Scientists urges the governor to include an increase of both renewable energy and energy efficiency in his energy plan and to work to implement stronger clean energy

policies in early 2014. This timing is critical so that Michigan's clean energy businesses will have the certainty they need to continue investing and building on the momentum they've already created.

Not only is it critical that Michigan renew its commitment to clean energy development but the state should aim high in order to reap all of the benefits of its ample clean energy resources. In fact, Michigan's current renewable energy standard already lags behind other Midwestern states with more ambitious requirements. While Michigan's current renewable energy standard requires 10% renewable energy by the year 2015, Illinois, Ohio, and Minnesota all have standards of reaching 25% renewable energy by 2025. And this year, the Minnesota legislature is looking to increase that to 40% renewable by the year 2030. These are real investments in clean energy and Michigan should consider similar standards if the state is to remain competitive in this sector.

And finally, increasing our use of renewables and energy efficiency will help protect public health and the environment. Michigan has among the nation's oldest coal fleets. As older, uneconomic coal units are retired, there can emerge new opportunities for Michigan to tap readily available and more affordable clean energy alternatives. Let's invest in our future and the health of our families and communities by investing in clean energy. And we can do that with strong renewable energy and energy efficiency policy in early 2014.

Again, thank you for spearheading this process for public input over the next few months and thank you for the opportunity to speak today.



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Readying Michigan to Make Good Energy Decisions Michigan Energy Public Forum Statement Card

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

Name: MAGGIE STRIZ CALVIN

Affiliation (if any): INDEPENDENT CONSULTANT; INTERESTED CITIZEN

Phone: 517 281 9810

Email: Maggiesc@maggiestrizcalvin.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): TRANSPORTATION FUELS/ENERGY

Requested time to speak: N/A < 5 minutes N/A 5 minutes

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fuel quality

Transportation energy availability, choice, and reliability are critical for the economic and "homeland" security of Michigan. We must include these topics in energy planning. To continue to avoid them is irresponsible. There are active efforts and experts in Michigan who can help.

e.g. distribution

March 6, 2013
1612 W Shiawassee St
Lansing, MI 48915

John D. Quackenbush, Chairman
Michigan Public Service Commission
Michigan Dept of Licensing & Regulatory Affairs

Steve Bakkal, Director
Michigan Energy Office
Michigan Economic Development Corporation

Dear Sirs,

I attended the February 14, 2013 Michigan Energy Public Forum, "Readying Michigan to Make Good Energy Decisions," and I would like to provide the following written comments:

Considering the Governor's three-points of reliability, environmental stewardship, and affordability, it is obvious we must end our dependency on fossil fuels and begin investing in solar and wind energy.

Reliability: Renewable energy will become more reliable and more affordable only if we invest in the research and development of these resources. The reliability of solar, wind, and geothermal energy will increase if we demand increased use of renewable energy, which will prompt research and development. Forty out of forty-one electric companies are on track to meet the 10% requirement for using renewable (all except Detroit Public Lighting, which does not have any residential customers). Innovation and investment in these clean energy resources will increase only if we increase our goals for using these sources. The goal should be at least 20% by 2020. As noted at the February forum, five states already generate 20% of their energy from renewables. Other countries, such as Spain and Germany, have drastically reduced fossil-fuel consumption, and they now use solar and wind energy for the majority of their energy. This shows such energy sources can be reliable. Spain accomplished increased use of solar power by removing economic barriers to the connection of renewable energy technologies to the electricity grid. We need to do the same in Michigan and allow individuals and companies to "sell back" electric power produced from wind and solar projects. Generally, solar energy peaks during daytime hours and wind energy peaks during nighttime hours. Reliability increases with the use of both forms of energy.

Environmental Stewardship: If we continue to invest our infrastructure in dangerous, polluting fossil fuels—which includes natural gas—we will be stuck with antiquated and unhealthy energy for many years to come. A quick visit to any site where coal or tar sand oil is extracted—even a visit on the Internet—demonstrates that there is no such thing as "clean" coal or tar-sand oil. These fuels devastate the environment and pose dangers to ground and surface waters. Water is already our most precious resource, and it is bound to become more valuable with increased population and changes in climate conditions. We must protect our water resources from the dangerous practice of hydraulic fracturing of natural gas. Not only does "fracturing" waste and pollute millions of gallons of precious fresh water, it has not been proven safe from polluting and destroying our underground water systems. Therefore, we must stop investing in fractured gas,

coal, and tar-sands oil, and we should immediately place a moratorium on hydraulic fracturing, until it is proven safe for our underground water. Such studies must be conducted by neutral parties—not funded by stakeholders in the industry. Because the environmental costs of using hydraulic fracturing cannot be determined at this time, that source of energy fails the test for environmental stewardship and for affordability in the long run.

Affordability: Although the investment in solar and wind will be high initially, the cost of using these energy sources will decrease with time, because the sources of the energy are free. As noted at the February forum, electricity is being produced in Holland, Michigan, for 4.5 cents per kilowatt hour—the lowest cost available—and it is clean. On the other hand, the cost of coal, oil, and gas in the future is unknown and could be very expensive, especially if environmental penalties or fees (EPA violation penalties or carbon-tax fees) are imposed for using such sources. Such fees or penalties should be imposed, because these unhealthy sources have been proven to cause many health problems, which cost our country millions in medical costs. When considering whether solar and wind are as affordable as fossil fuels, we must consider the health and environmental costs of using fossil fuels. As noted at the February forum, reducing greenhouse gases by 20% reduces mercury and SO₂ by 90% and N₂O by 95%. As noted at the February forum, we spend 1.5 billion dollars on healthcare costs annually due to health problems caused from the five largest coal plants in Michigan. These externalities or un-priced consequences must be considered; otherwise, the cost comparison is not accurate. Even without the threat of fees and penalties for using fossil fuels, the price of coal, oil, and gas are unpredictable and could soar in the future. As noted at the February forum, the cost of coal is expected to increase 78% due to regulatory changes on carbon emission, whereas renewable have a guaranteed price for 20 years after installation. Further, money paid for coal and oil go outside of Michigan, whereas we could develop our own solar and wind industries. As noted at the February forum, Michigan already has 121 solar supply firms and we are 4th in solar jobs. Additionally, we have 120 wind supply firms and we are first in clean energy patents. Therefore, the MEDC “Business Connect” program should require energy companies to procure spending in Michigan.

Energy Efficiency: We should also focus on energy efficiency and optimization. Energy efficiency is the most cost effective way to keep costs down, because it can postpone the need to build new power plants. As noted at the February forum, for every dollar we invested the first year in energy optimization, we reaped \$5.28 in benefits.

Thank you for providing the public an opportunity to attend the Michigan Energy Public Forums and for allowing public comments on this important issue.

Sincerely,



Dawn S. Fleming

Cc: Governor Snyder
Gretchen Whitmer
Andy Schor

From: "Angel Jenio" <ajenio@byrumfisk.com>

To: [Energyinfo](mailto:Energyinfo@michigan.gov) <Energyinfo@michigan.gov>

Date: 4/23/2013 9:29:30 AM

Subject: Comments for <http://www.michigan.gov/energy>

 ALM CMYK 6in

April 23, 2013

To Whom It May Concern:

Agriculture is one of Michigan's top three industries, generating \$91 billion each year and supporting jobs and local communities across our state. Farmers and agri-businesses have a vested interest in Michigan's energy future. We depend on affordable and reliable electricity to power our businesses and enable us to compete in the global economy.

To meet the needs of farmers, businesses and residents, Michigan needs an energy plan that reduces the high cost of electricity and ensures that rural areas have access to reliable, affordable energy. Michigan also needs a more transparent integrated resource planning process to ensure that the concerns of Michigan's ratepayers are adequately addressed.

The high cost of electricity in Michigan has real consequences for Michigan's agriculture sector. Energy costs not only add to the bottom line costs of running a business, they are also a major factor when processors and other agricultural businesses decide where to locate. Reining in high energy costs will bring more business to the state, and is particularly important for attracting processing operations which Michigan sorely needs.

Adopting more energy efficiency measures is one of the best things Michigan can do to reduce energy costs. The Michigan Public Service Commission found that every dollar invested in energy efficiency measures saves the consumer \$3.55. Becoming more energy efficient is a common-sense step that will save money, and help Michigan farmers and agri-businesses compete with businesses in nearby states and around the world.

Access to electricity is another major area of concern for Michigan's agriculture industry. Many rural areas are literally at the end of the line for utility access. Ensuring that enough electricity can be supplied to run a farming operation or agri-business in these areas should be a priority.

Energy policy that is flexible will better position Michigan to adapt to technology used to generate, distribute and store power. Removing barriers will enable agriculture to advance and grow.

Access to reliable and affordable electricity is of the utmost importance for Michigan farmers and businesses across the state. Michigan needs an energy plan that embraces both energy efficiency and new technologies to address this issue.

Thank you for your consideration. Please do not hesitate to contact any one of us if you'd like to discuss this further.

Respectfully,
Dave Armstrong,
President and CEO
GreenStone Farm Credit Services

Ken Nobis
President
Michigan Milk Producers Association

Mike Wenkel
Manager
Potato Growers of Michigan

Sam Hines
Executive Vice President
Michigan Pork Producers Association
(517) 853-3782

Jim Byrum
President
Michigan Agri-Business Association

Jim Zook
Executive Director
Michigan Corn Growers Association

Gail R. Frahm
Executive Director
Michigan Soybean Association

Val Vail-Shirey
Executive Director
Michigan Allied Poultry Industries Inc.



Agricultural Leaders
OF MICHIGAN

From: Ellduapent@aol.com

To: [Energyinfo](mailto:Energyinfo@energyinfo.michigan.gov) <Energyinfo@energyinfo.michigan.gov>

Date: 3/10/2013 8:31:39 PM

Subject: Comments re energy policy

I am writing to comment on Michigan's energy policy.

I urge policymakers that in their haste to produce green energy, that we do not devastate the natural beauty of our "pure Michigan." Selection of where to place, for instance, wind turbines, makes all the difference. We must not ruin our beautiful vistas as has happened between Pentwater and Ludington. The Consumers Energy Project has defeated our "Pure Michigan" concept, important to tourism, which in turn is important to the thousands of small businesses in Michigan.

Sadly, there are many beautiful places in Michigan where the turbines (industrial power plants) are being considered. Turbines are also being considered at one of the number one "birding hotspots" in Michigan, the Muskegon WWTP, and also near the Baker Bird Sanctuary in southern Michigan. That is not acceptable.

Do not put industrial power plants in our lovely pristine Lake Michigan. We have already ruined the south end of the Lake.

New Jersey could be a role model for Michigan. Please go on-line and research their use of solar panels. GeoGenix for instance, has installed a solar system on a 130,000 square foot roof. In that state, solar panels are being placed on BROWNFIELDS, landfills, tops of parking structures, public building roofs such as libraries, etc.

I believe Michigan companies manufacture solar panels, so our wise use of solar panels rather than the blight of turbines, would be a natural fit for those companies. The solar panels would also avoid the devastating effect that turbines have on families who live near them. The solar panels should be used wisely, as noted above, on existing buildings, brownfields, etc.—**not placed on open pristine and lovely areas.**

Sincerely,

Ellen Sue Hamburger
5951 W. Duna Vista Dr.
Pentwater, MI 49449
ellduapent@aol.com

NOTE: Just to be clear, I do not live near turbines and I do not have a Lake view. I simply want the beauty of our State preserved, not destroyed in the name of "green energy".

From: "Terry Link" <link@msu.edu>

To: [Energyinfo](mailto:Energyinfo@michigan.gov) <Energyinfo@michigan.gov>

Date: 3/19/2013 2:16:30 PM

Subject: Considerations for our energy future in Michigan

<http://possibilitator.blogspot.com/2013/02/design-attributes-for-michigans-energy.html>

Terry Link, President

Starting Now, LLC
8767 Price Rd.
Laingsburg, MI 48848
link@msu.edu
www.startingnowllc.com

Senior Fellow, U.S. Partnership for Education for Sustainable Development
www.uspartnership.org

BLOG: <http://possibilitator.blogspot.com>

One Planet, One Family, One Future

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Saturday, February 16, 2013

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About Me

 [Terry Link](#)

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From: "Fred Sittel" <clamlake@frontier.com>

To: Energyinfo <Energyinfo@michigan.gov>

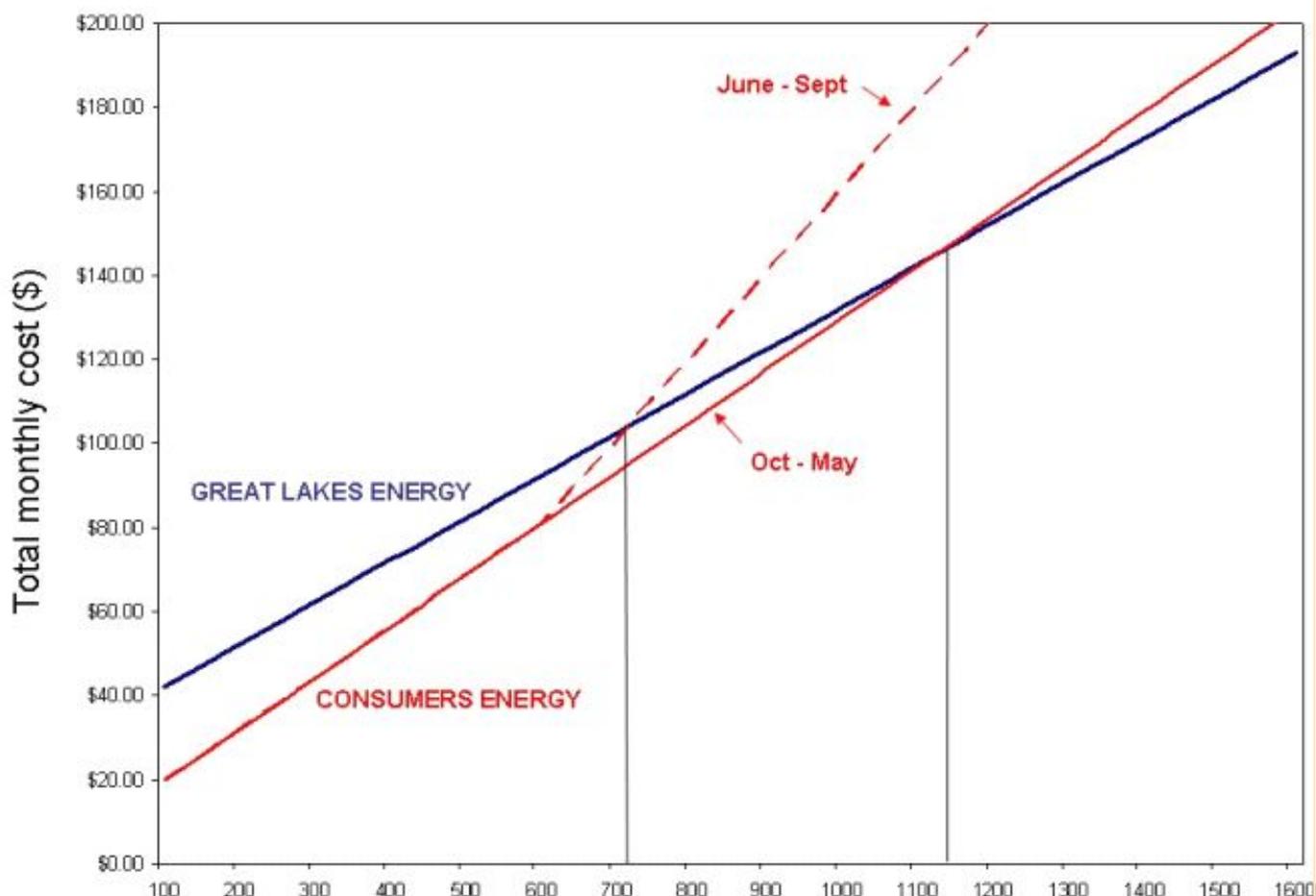
Date: 4/3/2013 11:13:38 PM

Subject: Difference between rates

How can the two residential rate structures in the attached chart be allowed to coexist in adjoining service areas ? GLE's new restructured rates which go into effect in September have the highest monthly charge in Michigan and severely penalize customers that use below average amounts of electricity. Consumers Energy on the other hand has a low monthly charge but its higher usage (per kWh) charges that include a stepped up rate above 600 kWh per month usage during June through September, penalizes customers that use above average amounts of electricity. This extreme difference suggests that there are legislative and regulatory policy problems that need to be addressed. When people purchase a home they should check crime statistics and the local school system, do we really need to add the utility supplier to this list ?

Fred Sittel
(231) 377-7818

**COMPARITIVE MONTHLY COST OF RESIDENTIAL ELECTRICITY
GREAT LAKES ENERGY RESTRUCTURED RATE VS. CONSUMERS ENERGY RATE**



From: "Kimberly Daley" <krdaley@umich.edu>

To: Energyinfo <Energyinfo@michigan.gov>

Date: 4/23/2013 12:51:10 PM

Subject: Earth Day Request

Governor Rick Snyder
Ave.
30013
Lansing, MI 48909

111 S. Capitol
P.O. Box

Dear Governor Snyder:

Please think about the big picture when you consider Michigan's energy future. Immediate costs and benefits are important, but we need to consider more than direct effects on jobs, health, and Michigan's economy. Climate change will also have effects on our jobs, health and economy.

Michigan will be affected by climate change, no matter what energy decisions we make, but we have some choice about whether the effects are just troublesome, seriously problematic, or catastrophic. **A major increase in the use of renewable energy and energy efficiency and a corresponding cut in our use of coal would help prevent the following problems** that are already beginning to affect our state and will become worse.

*[The information cited below is based on recent data. See the Midwest chapter of the **National Climate Assessment**, January 2013 (draft); <http://ncadac.globalchange.gov>]*

"Extreme rainfall events and flooding... are expected to continue, causing erosion, declining water quality, and negative impacts on transportation, agriculture, human health, and infrastructure."

Temporarily increased yields of some crops in the short term "will be increasingly offset by the occurrence of extreme events such as heat waves, droughts, and floods."

In the long term, climate change is expected to decrease agricultural productivity, especially without significant advances in genetic and agronomic technology.

In the Great Lakes region, climate change will exacerbate a range of risks, including

- changes in the range and distribution of important commercial and recreational fish species,
- increased invasive species,
- declining beach health,
- harmful blooms of algae.

"Increased heat wave intensity and frequency, degraded air quality, and reduced water quality will increase public health risks."

While we are causing more than our share of the problem, we also have the potential to contribute significantly to the solution.

"The Midwest has a highly energy-intensive economy with per capita emissions of greenhouse gases more than 20% higher than the national average. The region also has a large, and increasingly utilized, potential to reduce emissions that cause climate change."

As you are developing the energy plan for our future, **please think about the big picture and think outside the box!**

Sincerely,

Kimberly Daley
Ann Arbor Resident

From: "Joel Baetens" <joel.m.baetens@gmail.com>
To: Energyinfo <Energyinfo@michigan.gov>
Date: 4/18/2013 11:36:29 AM
Subject: Energy Efficiency, Mandated Fees, and Economy

to: energyinfo@michigan.gov

subject: Energy Efficiency, Mandated Fees, and Economy

I am an energy engineer, a lifetime resident of Michigan, a human rights advocate, and a concerned citizen.

I understand the importance of energy efficiency, as a necessary first step to an overall goal to get to a sustainable system for providing us with our energy needs. I have a realistic vision that I can share with you about reaching these goals but this email is not for that.

Specifically, I want to address the situation that I cannot get resolve with through DTE. I, like all electricity customers are charged an energy efficiency surcharge. I am okay with the concept because I believe it is necessary. However, the implementation of allocating the collected funds is disturbing. I called DTE to ask for my energy efficiency kit - which was sent to my home. The kit contained broken mercury light bulbs. This is a serious health hazard as my wife and I are young and exposure to neurotoxins like mercury has lifelong consequences. Secondly, and to me more importantly, is that every single item in the kit was made in China. China, a communist country that is a sinkhole for business owners to cash in American jobs for short term profit, a country that regularly steals USA technology, a country that completely disrespects human life. I called DTE and there was not a current mechanism to record my complaint.

In conclusion, I am forced to pay a fee for DTE to buy poisonous outsourced products and then have them shipped to my home where I live with my family. I see this as a tragedy and as a failure on the part of DTE and whoever authorized the energy efficiency surcharge without mandating American manufactured parts be supplied. This situation is resolvable in a way that saves energy, creates healthier homes, and creates sustainable and safe manufacturing processes in the USA.

I would like some resolve.

I am an energy engineer, a lifetime resident of Michigan, a human rights advocate, and a concerned citizen.

I understand the importance of energy efficiency, as a necessary first step to an overall goal to get to a sustainable system for providing us with our energy needs. I have a realistic vision that I can share with you about reaching these goals but this email is not for that.

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I would like some resolve.

--
Joel Baetens
Energy Engineer
810-300-0837 (C)

From: "Fred Sittel" <clamlake@frontier.com>

To: Energyinfo <Energyinfo@michigan.gov>

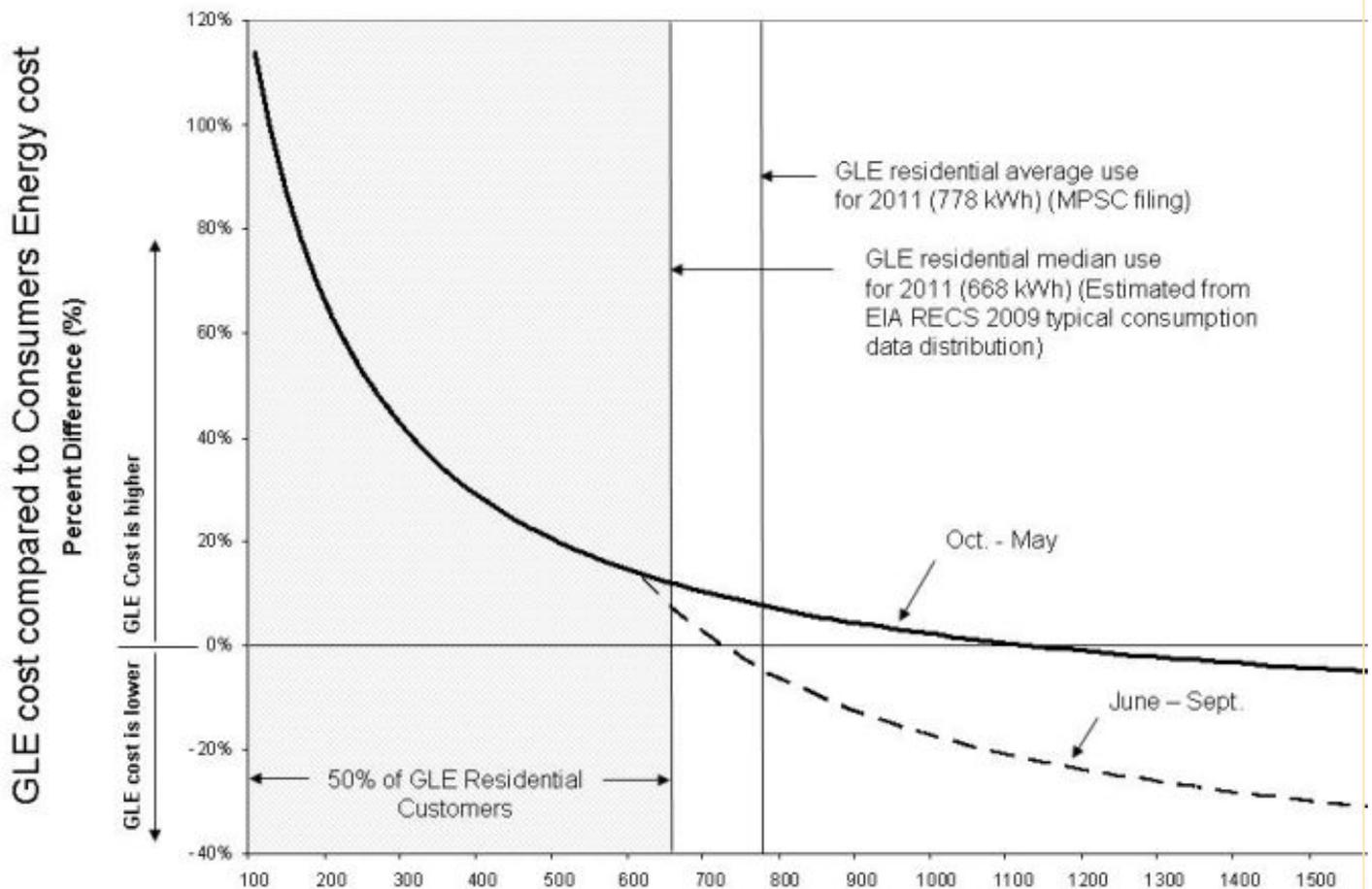
Date: 3/27/2013 11:09:20 PM

Subject: GLE Rate Restructuring

Starting September 1, 2013 rate restructuring by Great Lakes Energy will create quite a disparity for a customer serviced by GLE vs. one serviced by Consumers Energy. The dotted line on the attached chart reflects the Consumers Energy rate structure which has a stepped up rate for the residential class above 600 kWh consumption for the months of June through September. That step up in rate is just the opposite of what GLE just did to their rate structure. This type of turmoil indicates there must be issues with legislation and regulatory policy. When a person buys a home they should check the school district and crime statistics but do we really need to add the electricity distribution utility to the mix ?

Fred Sittel

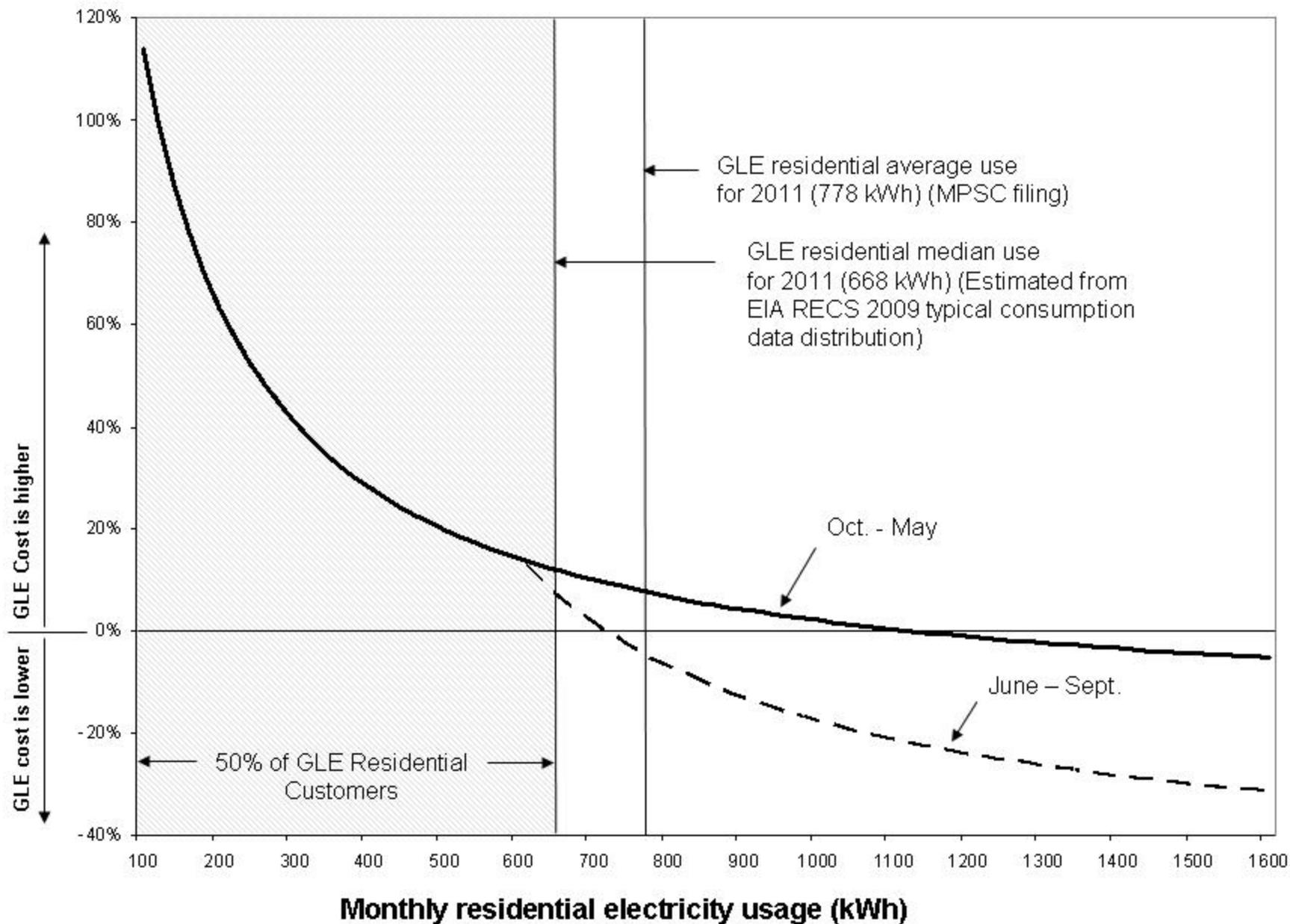
**COMPARITIVE MONTHLY COST OF RESIDENTIAL ELECTRICITY
GREAT LAKES ENERGY RESTRUCTURED RATE VS. CONSUMERS ENERGY RATE**



COMPARITIVE MONTHLY COST OF RESIDENTIAL ELECTRICITY GREAT LAKES ENERGY RESTRUCTURED RATE VS. CONSUMERS ENERGY RATE

GLE cost compared to Consumers Energy cost

Percent Difference (%)



MPSC Energy Policy Forum
On-Line Comments

Michelle Rison
Environmental Engineer
Focus is on health, safety and cost.

First Topic:

Electrical Power being provided by out-of-state providers.

Granted, competition may help lower energy prices but what consideration has been given to whom will be responsible for maintaining transmission lines? Out of State Energy Contractors have no stake in the long-term improvements and innovation, necessary for the power transmission technology to match the growth in power generating technologies.

I have personal experience in projects as a scientist where an entire process to achieve an overall planned result was derailed for over 13 years simply due to the failure in assigning regulatory responsibility. A break in the chain of custody and responsibility in any infrastructure system serving the public is one that unfortunately often goes unnoticed until a disaster. One example is in our Federal governments realization that America's bridges were in a sorry state, after the unthinkable happened one-day in Minnesota.

Second Topic:

Wind Power. I had an intriguing conversation w/ a utility renewable energy engineer in March of 2012. I posed the question of what was being done so that **wind power integrates into the grid transmission lines w/ less distortion?** I was delighted to learn, that the sine wave distortion - voltage transients – dirty electricity, i.e., power quality issues, that wind previously exhibited had been solved by Vesta engineers. The beauty of this was that this issue had been acknowledged and brought to the attention of the Vesta engineers and thus 'resolved', however, only the power quality issue was fully acknowledged. It remains to be seen if the solution of discharging the harmonics to the ground creates stray voltage issues and subsequent health issues for all things living nearby.

Our Wind program is in its infancy in the State of MI. In the even bigger picture, multiple forms of alternative energy generation will be a part of life for future generations. Now is the time to ensure we are doing things in an appropriate manner rather than being too far down the road to recover. We have an opportunity in MI to be at the forefront of human and environmental health and safety.

Alternative energy is heading towards a big alliance dilemma among scientists and groups that likely won't serve either side much good, unless they work together. This is because the fundamental concepts and benefits of alternative energies fit in with sound environmental progress, but the consequences of the electrical aspects are too serious to

not address. Environmental groups and health/safety groups are almost always exclusively on the same side, but on these electrical issues may be opposed.

For the next few topics I speak personally as someone whose nervous system and body is highly sensitive to certain environmental conditions including those associated with electricity, non-ionizing radiation and basically all things vibrating.

Third Topic:

Wind Concerns.

Many creatures we share this planet with are affected by changes in voltages and waves in general including the voltage potential changes by wind turbines. At least some organisms detect voltage potential changes in ways that are only partially understood. Infrasound less than 20 hz causes humans to shake and have balance issues.

This area of concern is an immediate issue related to Wind farms, but transcends as an issue to all power generating and transmission technologies. This issue needs to be studied further.

Fourth Topic:

Electric Cars. Recharging stations & Lithium Ion batteries. I have observed voltage transients in volts / second (dirty electricity), a distortion of the 60 hz sine wave at the recharging station at the Marec Center in Muskegon. I measured 950 v/s. The value considered as safe by those who study the health affects of EMR is less than 25 v/s. Personally, when in a sensitized state, I shake at a cellular level. My nervous system is impacted in a way that is indescribably horrible in the presence of dirty electricity. I had the opportunity to measure the magnetic field of the front center console lithium battery of the Chevy Volt provided by an automotive Prof in Detroit. The magnetic field exceeded my gauss meter upper limit of 100 mg. In another case I measured the magnetic field of the nickel metal hydride battery in the back seat behind the driver's seat of the Toyota Prius at 8 mg. One typically sits their most precious cargo, a child in this area. It has been well documented that exposure to a magnetic field of as little as 2.5 mg creates 4x the chance of childhood leukemia.

Voltage transients and magnetic fields need to be acknowledged so that engineers can learn to develop ways to ensure exposures not harmful to occupants.

Fifth Topic:

CFLs. CFLs emit magnetic fields, dirty electricity and radio frequency. Special Needs Educators of children so sensitive to the on-off flicker associated with CFLs drape cloths over their CFL classroom lights. **These fields need to be addressed if use of CFLs is to be continued. The evaluation of all other existing and new technologies being considered should include potential affects to all people and with special consideration of those highly sensitive. Along those lines, LEDs emit high RF as well and may be remiss to assume no potential adverse affects will result from their long-term use.**

Sixth Topic:

Bulk petroleum storage tanks and pipelines also exhibit high voltage potential. This is seldom acknowledged. These fields need to be addressed.

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From: ["Lucille Janowiak, OP" <mljanowiak@earthlink.net>](mailto:mljanowiak@earthlink.net)

To: [Energyinfo <Energyinfo@michigan.gov>](mailto:Energyinfo@michigan.gov)

Date: 2/25/2013 8:03:53 PM

Subject: Process of Strategic planning

Attachments: Enhancing planning for local energy systems by the strategic sustainable development framework |
The Natural Step.msg

Director Bakkal and Chairman Quackenbush:

Please include the attached information for policymakers as they consider strategic plans for the State's energy future.

Thank you.

Lucille Janowiak



Enhancing planning for local energy systems by the strategic sustainable development framework

Ann Cassidy; Dephine Le Plage; Sean Spender.

The world is facing energy supply challenges. Rising prices and finite reserves of fossil fuels, combined with necessary reductions in their use in order to mitigate anthropogenic climate change, will dramatically reshape the future energy supply. Among the greatest contributors to greenhouse gas emissions are the energy systems that power transportation, heating and cooling, and industrial processes. It is imperative that energy planning is sustainable, secure and effectively implemented for local development. The aim of our research is to enhance the planning process that can aid authorities moving towards sustainable local energy systems. Local energy systems refer to the supply, distribution and use of energy within a municipality. In this study, we advocate applying a strategic sustainable development framework based on 'backcasting from principles of sustainability'. We analyzed global, European Union and Swedish energy objectives, as well as the results of a survey of beacon European cities to inform strategic planning guidelines for authorities moving towards sustainable local energy systems. Our research suggests that the strategic sustainable development framework provides structure to inform strategic and critical decision points for planning and implementing local energy systems.



[Enhancing planning for local energy systems by the strategic sustainable development framework \(PDF\)](#)

filed under [Research](#)



From: "Susan Barber" <sbarberswimson@gmail.com>

To: [Energyinfo](mailto:Energyinfo@michigan.gov) <Energyinfo@michigan.gov>

Date: 4/18/2013 1:50:29 PM

Subject: Property rights/environmental concerns with wind turbine farms development

Dear governor and all concerned,

As a new permanent resident in an economically poor township/ biologically rich area of NW Emmett county. I find the lack of property owners rights to be in dire jeopardy due to the lacking in state regulation for predatory leasing by large wind turbine companies. I believe in the advancement of alternative power supplies but not at the cost of biodiversity, and destruction of natural habitat. Who protects birds, bats, waterfowl, eagles, Sand hill Cranes, Piping Plovers and hard working, small private land owners, that are at the mercy of their desperate elderly farming neighbors. My reference is to neighbors that are land rich and tax poor. They are trying to survive, and promised false riches at the expense of the small landowners rights to a peaceful rural home and landscape.

I find the lack of consistency in state policy with promotion of our natural resources, such as our newly designated International Dark Sky Park, and the proposed wind turbine farms a half mile from their border an obvious dichotomy.

Which is it you are trying to promote? Preserve our natural beauty and varied avian species for tourism or allowance of unbridled development in wanton land designation for economic and devastating land use to meet our 10% alternative energy mandate? No body wants to have a wind turbine in their back yard but if you are in the bottom of the economic ladder you don't seem to possess necessary rights to stop this biologically disrespected development. The local governments are hamstrung with legal threats and it seems money talks right over the common taxpaying folk and governmental agencies.

Who represents us? Who protects our rights to live in in a rural area of such natural beauty that is wonderful to share, but that we would like to prevent the destruction of?

Where are the new recommendations to policy from MI State University concerning wind turbine farms noise and light pollution? Review the international standards and turbine placement practices of 1.5 mile distance from residence. Are our rich avian populations of Emmett county worth destroying? I think the 66 Sand hill cranes eating in the field adjacent to a prospective wind turbine site are worth something.

How do the economics of wind turbine farms better our state? There doesn't seem to be any increase in jobs for construction of wind turbines. Wind Turbines are not made in Michigan. They seem to be being shipped non stop by the coal dumping ferry from Wisconsin. How non polluting and ridiculous is that arrangement?

Are not the taxpayers going to end up paying for construction through federal grants, local energy cost increasing to pay for updated transmission lines, road repairs for construction will be financed by whom, and where is the power going to be used? These are all more unanswered questions that effect home owners in areas destined to have wind turbine farm development. Talk to the home owners in mid and thumb area of Michigan. It is similar to Eminent domain without any reimbursement for destroying people's home environments.

Are landowners going to receive a 70% lowering of their tax bills with their land devalued by such monstrosities? Or 40% for empty land? My reference, recent studies by Wisconsin Realtors from three wind turbine farm development areas.

Wind turbine farms do not belong near a residence. We should have rights as small property owners. Why must there be destruction of rich bio diverse natural areas for some company to make a quick buck?

Preserve our rights as small land owners and guardians of great rural landscapes for all Michigan residence.

Sincerely,
Susan Barber, retired public school teacher

From: ["Fred Sittel" <clamlake@frontier.com>](mailto:clamlake@frontier.com)

To: [Energyinfo <Energyinfo@michigan.gov>](mailto:Energyinfo@michigan.gov)

Date: 3/25/2013 9:54:17 PM

Subject: Rate De-Skewing by Unregulated Electric Cooperatives

Attachments: Rate-Comparison-Chart-Feb-2013.pdf

I have evidence that Public Act 167 of 2008 is harming a subset of residential electricity customers. An emerging factor regarding affordability of electricity is the sudden shift of fixed distribution costs from high to low consumption customers. Unregulated electric cooperatives are rapidly moving fixed costs into the monthly charge and reducing the energy use (per kWh) charge. Great Lakes Energy voted to restructure residential rates on March 22, doubling the monthly charge from 2011 levels, to \$32.21 per month, the highest in Michigan. The new rates go into effect September 1, 2013. Comments by GLE suggests concern over not being able fully recover all fixed costs through the energy usage charge due to mandated energy optimization programs, a possibility the 10% constraint on customer choice may be lifted and net metering laws. This sudden rate de-skewing assesses fixed costs equally to each customer. The idea that the cost to provide electricity to each customer is the same regardless of usage may be flawed. A recent study by MIT on the future of the power grid concluded that where fixed costs are recovered primarily through monthly customer charges these should be applied differently to customers based on that customers contribution to peak demand. Peak demand load drives network expansion and through the heating of components is responsible for a portion of maintenance and replacement cost.

At the end of 2011 GLE had 75,654 residential customers with an average monthly consumption of 780 kWh. The GLE rate change chart shows residential customers averaging 250 kWh per month or less will experience a 20% or greater cost increase. Customers consuming above average amounts will experience a modest cost decrease around 5%. It is critical to examine who are the customers that average 250 kWh per month or less to determine if a 20% or greater step up in cost in a single year, on top of already high residential rates in Michigan, is causing undue harm. I have contact information for ten customers that average 250 kWh or less monthly. The list is growing as this group is currently reaching out to similar customers. The commonality we have identified within this group is that they are either single living alone, retirees, or have smaller homes and family size. Many say they constrain electricity use due to their budget. The idea that this type of customer should not experience a sudden 20% or greater step up in cost due to energy policy while the cost for other customers is reduced, would pass the reasonable person test.

To extent that energy optimization programs are driving rapid rate restructuring at GLE and other unregulated electricity cooperatives, these programs may not be as "green" as people think. The new GLE rate structure with the highest monthly charge in Michigan is similar to an all you can eat restaurant. Once a customer pays a certain fixed amount there is a higher break even point in consumption to get your money's worth. The new rates may tip the balance between heating residential hot water with propane or electricity. In effect EO programs are driving utility rates in a direction where more people will choose to pay the utility to burn fossil fuel far away and incur a 6% transmission loss to get it to their homes rather than burn the fuel on-site at 90% efficiency in a propane hot water heater.

Fred Sittel
(231) 377-7818

Rate Class	Current Rate	Proposed New Rate	Increase(+)/Decrease(-)
Residential	Monthly Chg - \$18.28 Energy Chg - \$0.09653/kWh PSCR - \$0.02123/kWh	Monthly Chg - \$32.21 Energy Chg - \$0.08640/kWh PSCR - \$0.01415/kWh	Monthly Chg (+) Energy Chg (-) PSCR (-)
Seasonal	Monthly Chg - \$18.28 Energy Chg - \$0.14629/kWh PSCR - \$0.02123/kWh	Monthly Chg - \$32.21 Energy Chg - \$0.08640/kWh PSCR - \$0.01415/kWh	Monthly Chg (+) Energy Chg (-) PSCR (-)
General Service - CSP (single phase)	Monthly Chg - \$18.00 Energy Chg - \$0.096/kWh PSCR - \$0.02123/kWh	Monthly Chg - \$32.21 Energy Chg - \$0.08640/kWh PSCR - \$0.01415/kWh	Monthly Chg (+) Energy Chg (-) PSCR (-)
Additional Meter(s) RES, SEA or CSP rates	Monthly Chg - \$18.28 Energy Chg - \$0.09653/kWh PSCR - \$0.02123/kWh	Monthly Chg - \$9.94 Energy Chg - \$0.08640/kWh PSCR - \$0.01415/kWh	Monthly Chg (-) Energy Chg (-) PSCR (-)

NOTES:

With board approval, new rates would take effect 9-1-13.

New monthly charge for each additional meter served by same transformer as main meter would be \$9.94.

With new rates, all seasonal accounts would be billed monthly.

Effective 2-1-13, PSCR factor increased from \$0.01583 to \$0.02123/kWh for all accounts except commercial/industrial.

PSCR is the power supply cost recovery factor.

From: ["Claudia Wier" <crwier@comcast.net>](mailto:crwier@comcast.net)

To: [Energyinfo <Energyinfo@michigan.gov>](mailto:Energyinfo@michigan.gov)

Date: 4/2/2013 4:31:23 PM

Subject: Re: comments

Hello,

I tried to find a link to upload my comment but it only took me to a letter addressed to Governor Snyder. Would you please post the following comment to the site for me?

Energy Consideration

Let's invest in a clean, efficient energy economy that creates jobs here at home, saves families and businesses money, makes America energy independent, and combats global warming. I have travelled in Europe and Canada and see the outlays made there for solar and wind energy in a very comprehensive way. In Germany farms all over the country have solar panel arrays so that small family farms are also harvesting that energy, selling it, and keeping their farms. Much of this technology was invented and developed here in the US so, why aren't we nurturing our own innovations and businesses? The long-term human and environmental damages caused by dirty gas, coal, and oil operations aren't worth the short-term corporate profits or the short-term savings on gas at the pump or on our energy bills. We will save much more in the long run anyway with renewables. Why doesn't the state encourage and subsidize the conversion of private residences, along with state run operations, to energy independence with renewable energy sources? Then we will reach true energy independence and citizens will have much more expendable cash to spend on other priorities. It works in other countries so why not do it here and why not do it now? We need some visionary leaders, along with involved citizens, to step up and take action today. Claudia PhD student

Thank you!

Claudia

From: Colleen A [mailto:protia@yahoo.com]
Sent: Wednesday, February 27, 2013 2:29 PM
To: Energyinfo
Cc: rick.snyder@rickformichigan.com
Subject: Energy Meeting....

Good Afternoon to you too!

Appreciate your timely response to the deficit of speaking opportunities at this past Monday's meeting at Grand Valley. Over all, I found that meeting to be very good. Many varied ideas & possibilities for Michigan's Energy future. The meetings are an excellent idea IF the information is truly used to achieve a "responsible cutting edge" solution & not just benefiting a particular segment of our business community/people. We need to be leaders again! I've been to many hearings/meetings commissioned by the State of Michigan in the past 6 yrs. I was also at all of the meetings that the wind energy facilitator Scandia Wind presented. Somebody isn't doing their homework. When the lake-based turbine issue arose three years ago, two presentations were given. Venues were high school theaters. Capacity of 200+ each. Full-No standing room. Senator Hansen can attest to this. That was only the lake based issue. A venue in a rural area. At your meeting it was mentioned that they only had a few people show for the meeting in Lansing. Not surprising, that is where the big ideas come from. They do not have to live daily with all of their own laws they impose. I noticed the venues that are near to recent, potential and pending wind factory parks drawing hundreds of people. Please secure a proper venue for future presentations? Your opportunities to speak were handled poorly. People who signed almost an hour before the program began were left out. A woman, a college professor fresh off a European trip, fact finding mission on alternative energy was left out. Why? I too was screened out of the process, tho a woman I walked in with & had signed just before me to speak, was one of the first 20 speakers? She was from Grand Rapids. You had a meeting a week ago in Lansing, 45 minutes from Grand Rapids. Why are these venues so close? Why did I notice Holland, Muskegon and Grand Rapids speakers given preferential treatment over those who have to drive long distances because we never have a venue placed in or near our community? Muskegon would be a reasonable compromise. Were good enough to host the blight and the ill health effects, but forgotten after the fact? What kind of government does that? I was 20 minutes late for the meeting. Why? I attempted to park in 4 parking lots with signs that read parking for staff, students and visitors. After entering the four, we had to take time to leave with traffic and lights impeding us. I did learn from that! Finally ended up at a lot under the expressway parking illegally due to 0 parking spaces left. Being in business for the past 34 yrs. I understand one can plan but sometimes it just doesn't work. I appreciate that. But, if people are paying attention you should know and understand the seriousness of this issue and the passion that accompanies it. I will take advantage of submitting information on this website, but something most metro people are missing is this. Citizens, living with Lansing's grand ideas, planning OUR future in the rural communities need to understand the negative impact of their decisions. The very people who are using the energy & those making the components etc for the chosen energies need to hear us. I had that opportunity taken, as did the college professor. We have been ridiculed, our businesses targeted, attacked in the media & on the internet. Why? For asking for better setbacks in Mason County to ensure our basic health safety and welfare that you and others take for granted? We wanted the same or greater setbacks that the turbine manufacturer Vesta set in their own safety manual to ensure the safety of their employees. (taken off-line once they knew we had it) Our lives have less value than their employees? Before you move forward you must understand the past & correct any mistakes if there are any. Who doesn't want a cleaner planet? But, disrespecting the health safety & welfare of those affected & dividing communities is a problem. If something has to be put in an area where people live then buy them out. What is being done to date is just dishonest and cruel. WE are the unintended collateral damage of Lansing's ideas. WE are being ignored. Might seem like strong accusations, but true. We taped the truth. Collusion, conflict of interest, too many to mention here. On that I will close. I do appreciate the efforts of Gov. Snyder. They have greatly improved over Granholms past stacked meeting and skewed presentations. May we have a state that protects the health safety and welfare of ALL Michigan residents? Thank you..



Good afternoon my name is Gary Marcicano and I am the Executive Vice-President of the Michigan Business and Professional Association, a small business trade group boasting over 20,000 businesses statewide. Thank you for allowing testimony on renewable energy and energy efficiency in Michigan. As a voice for small business, our association prides itself in fighting hard to keep costs low for Michigan's business community, which in turn makes our state an attractive place to do business.

In answering question #7: How does Michigan's renewables requirement compare to other states/provinces/countries? How are other jurisdictions similar/dissimilar?

Approximately 30 other states have stronger renewable energy or energy efficiency goals than Michigan. As a state, we should strive to improve upon our goals. By increasing Michigan's use of renewable energy and energy efficiency, it will create new jobs, jump start investment and last but not least, launch new businesses in our great state.

As previously mentioned, Michigan is lagging in the clean energy race, so it is critical for companies to weigh in during our governor's energy forums. We need to be the voice of democracy, as for the business community, we provide three-quarters of Michigan's workforce with jobs. Keeping up the pace and keeping costs down for businesses, will help make certain our businesses can continue to hire additional workers.

Michigan's clean energy sector supports 20,500 jobs and \$5 billion in annual economic activity and is poised to grow. This is another supporting fact that investing time and efforts into improving Michigan's clean energy status and ranking, we would be guaranteed job growth, which is a win-win.

In closing, the business community in Michigan values the consideration towards job growth and retention. I thank you for your time and attention today, as this is an important issue that needs to be addressed. Thank you.