

CLEAN ENERGY



Clean energy means Michigan jobs

INVESTING IN MICHIGAN-MADE CLEAN ENERGY WILL INJECT PROSPERITY INTO OUR ECONOMY AND STIMULATE NEW JOB GROWTH THROUGHOUT THE STATE. Global demand for clean energy products is skyrocketing. By positioning ourselves as leaders in advanced-battery technology, solar component manufacturing and wind turbine production, Michigan businesses will cultivate global markets.

In Michigan, we import 100% of our coal, 100% of our uranium, 97% of our petroleum and 80% of our natural gas. This amounts to more than \$26 billion being permanently shipped out of the Michigan economy annually.¹ Homegrown clean energy ventures will produce jobs here in Michigan and keep that money circulating locally.

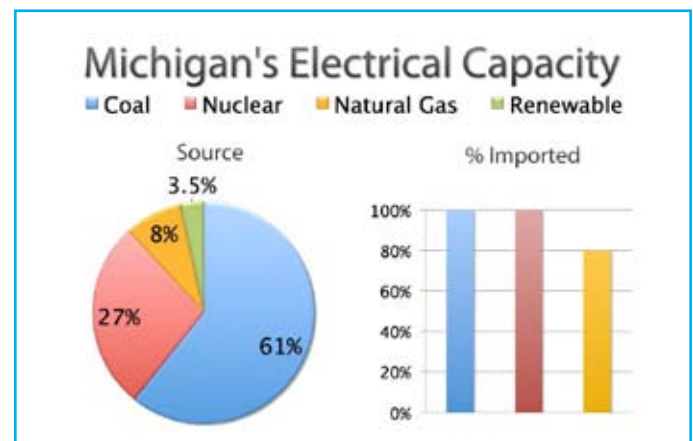
The Facts — Michigan's key advantages can shape a powerful future

Michigan is in a unique position to profit from the clean energy economy. Currently, the U.S. imports more than 70% of its clean energy components.² In Michigan, we can utilize our skilled workforce, technical know-how and manufacturing infrastructure to produce the next generation of clean energy technologies and ensure that we are not replacing a dependence on foreign oil with a dependence on foreign-made batteries and wind turbines. Investing in this new sector will also allow Michigan to attract a variety of high-tech employers and expand opportunities for small businesses and entrepreneurs.

Michigan's key advantages include:

- Available skilled labor force
- Advanced manufacturing and robotics expertise
- Well-established supply chain logistics
- Outstanding universities and community college system
- Deep water ports to handle the heaviest wind turbine components
- Significant wind power potential

Michigan has already made extensive inroads in the area of clean energy. The advanced-battery, solar and wind sectors, called the 'New Big Three' by some, have experienced the most impressive increases in investment over the last several years.³ Some important milestones include:



Source: Michigan Public Service Commission 2008 Michigan Energy Overview

- Michigan is establishing itself as the nation's advanced-battery capital, with investments of over \$5.7 billion since January 2009 that will create over 54,000 new jobs in the state.
- Solar industry investment in Michigan from 2004–2010 was approximately \$3.27 billion, and these investments will create more than 23,000 jobs.
- Michigan has seen over \$200 million in wind industry investments and currently there are over 100 companies throughout the state that are involved in the wind energy sector.

Clean energy for a clean Michigan

Replacing polluting fuels with nonpolluting choices will make Michiganders healthier. Less mercury, reduced smog and declines in particulate emissions will decrease healthcare costs, increase employee productivity and lessen the number of children with crippling asthma.

Climate change poses real threats to Michigan's natural resources. These threats include the introduction of new diseases, insects and exotic species, as well as the disruption of our state's cold-water ecosystems. Reductions in carbon pollution will reduce these threats and may generate valuable carbon credits for future use.

The clock is ticking

A remarkable example of how swiftly others in our region are accelerating towards the clean energy economy can be seen right across our border and into Canada. Ontario recently announced that its revolutionary clean energy policies will stimulate \$9 billion in investment in the country and potentially create 20,000 direct and indirect jobs.⁴

Other Great Lakes states are also moving aggressively into the clean energy marketplace. Michigan must build on the clean energy foundation it laid with the passage of modest renewable energy standards in 2008 or risk becoming uncompetitive in the new clean energy economy.

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SOURCES:

- 1 MPSC 2008 Michigan Energy Overview
<http://www.dleg.state.mi.us/mpsc/reports/energy/energyoverview/>
- 2 The Apollo Alliance
- 3 Michigan.gov <http://www.michigan.gov/gov/0,1607,7-168-23442-235787--,00.html>
- 4 Ontario Power Authority

2010cleanenergy.org/states/michigan

The Solution—

Unlock Michigan's potential to produce a prosperous future

To achieve a prosperous clean energy future, Michigan legislators must unlock our state's vast potential to innovate and produce tomorrow's clean energy solutions.

Maximize energy efficiency

Energy efficiency is our cheapest, cleanest and most abundant energy resource. In order to reduce ratepayer bills and make our businesses more competitive, we should increase our utility energy savings to at least 2% a year, retrofit our massive existing building infrastructure and ensure that new buildings are constructed as efficiently as possible.

Expand the use of renewable energy

We should continue to increase the investment in utility scale renewable energy, while also encouraging the use of more distributed, smaller scale renewable systems.

Promote homegrown energy

Homeowners, businesses and customers should be allowed to produce and sell electricity back to the grid for a reasonable rate of return.

Implement a smarter grid

An upgraded, smarter grid will foster energy savings programs, while facilitating the introduction of electric vehicles and their use of cheaper, off-peak power.

