

Michigan Green Jobs



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What Are Green Jobs?



What are Green Jobs?

Definition of “Green”

- **Green Jobs:** Includes primary occupations engaged in generating a firm’s green-related products or services, and the other support jobs created by the firm’s green-related revenue.



What are Green Jobs?

Industries that provide products or services in five areas:

- Agriculture and natural resource conservation**
- Clean transportation and fuels**
- Increased energy efficiency**
- Pollution prevention or environmental cleanup**
- Renewable energy production**



Where Are the Green Jobs?



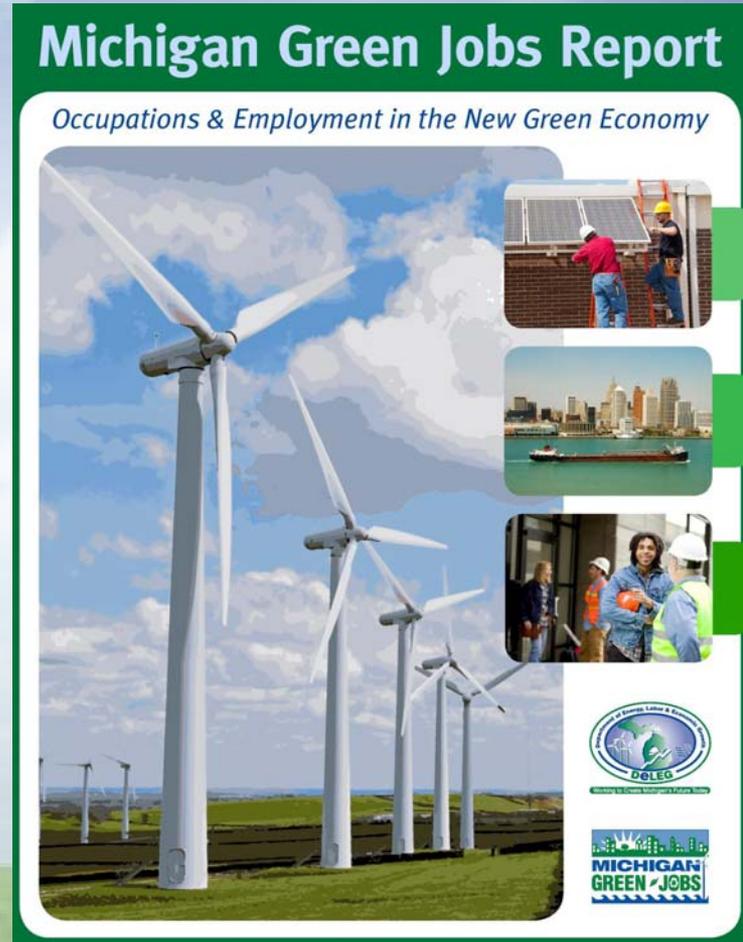
Michigan's Great Strengths

- **Advanced manufacturing and robotics**
- **R&D and engineering intensity**
- **Outstanding universities and community college system**
- **Superior supply chain capacity**
- **Available facilities**
- **Available labor force**



Green Jobs Report

- In Michigan:
 - 109,067 total green jobs (private sector)
 - 96,797 direct
 - 12,300 support
 - 3% of private sector employment



Green Jobs Report

- 2005 to 2008, more than 2,500 Green jobs to Michigan (7.7% expansion)
 - Overall Michigan employment -5.4%
- Higher wages
- Wide range of occupation
- Education and training



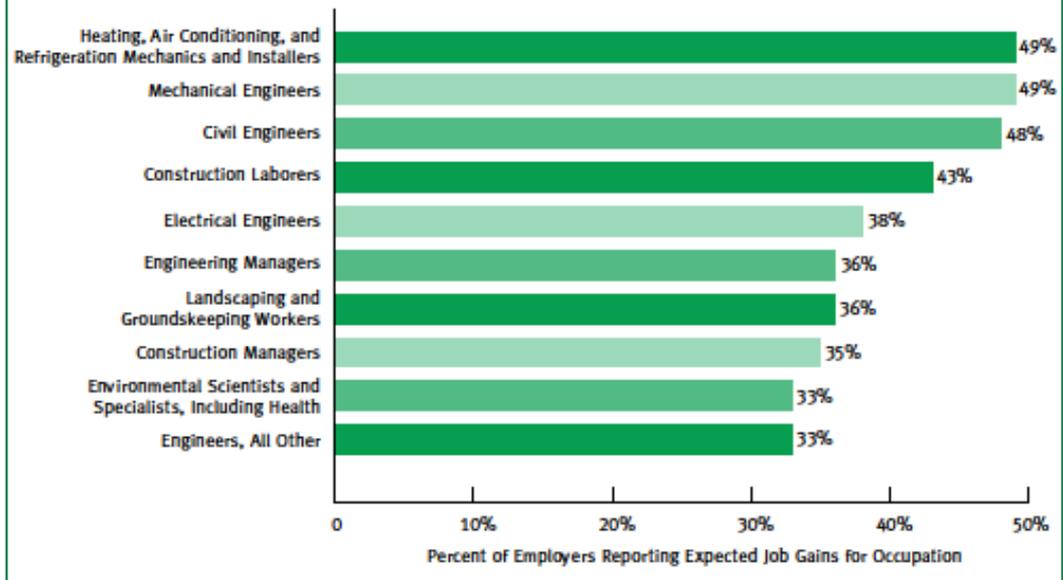
Strategic Vision

Michigan Green Jobs Report

Occupations & Employment in the New Green Economy



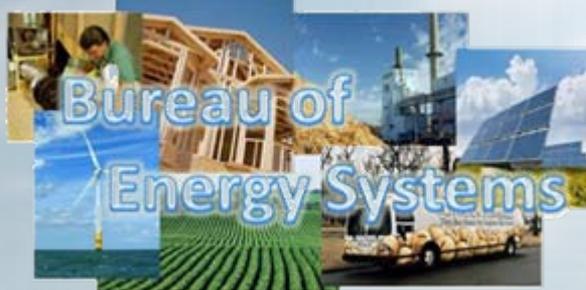
FIGURE 7: SELECTED OCCUPATIONS WITH ABOVE-AVERAGE SHARE OF EMPLOYERS INDICATING LIKELY JOB EXPANSION 2009-2011



Source: Michigan Department of Energy, Labor & Economic Growth



How Do We Expand Michigan's Green Economy?



Obama Administration

Energy and Workforce Goals:

- Invest in alternative and renewable energy
- End our addiction to foreign oil
- Address the global climate crises
- Create millions of new jobs



Obama Administration

American Recovery and Reinvestment Act (ARRA)

- February 17, 2009
- US DOL awarded approximately \$53 Billion
- Over 90,000 jobs created



Governor Granholm's Leadership

Perfect alignment with Obama Administration

- Create jobs by transforming Michigan's economy
- Reduce reliance on foreign fuels
- Emit less CO2
- \$18 billion (US DOE)



Governor Granholm's Leadership

- **Department of Energy, Labor & Economic Growth (DELEG)**
 - Bureau of Workforce Transformation
 - Bureau of Energy Systems
 - Bureau of Labor Market Information and Strategic Initiatives
 - Michigan Public Service Commission
- **Michigan Economic Development Corporation (MEDC)**



Governor Granholm's Leadership

- **Green Jobs Report**
- **State Energy Plan**
 - **Renewable Portfolio Standard**
 - 10% by end of 2015
- **Midwestern Governor's Association**
- **Energy Optimization Plan**



Governor Granholm's Leadership

- **No Worker Left Behind**
 - **Green Jobs Initiative**
 - State Energy Sector Partnership Training Grant
 - Green Skills Alliances
- **Michigan Works! Agencies**
 - Michigan Talent Bank



Michigan Green Jobs “In the News”

**2426
Jobs**

“West Michigan schools make plans to train workers for expanding battery industry”
-Grand Rapid Press

**280
Jobs**

“GRCC, Energetx partnership could be blueprint for other colleges to train workers in new way”
-Grand Rapids Press

“New clean-technology company could bring hundreds of jobs to Southwest Michigan, company official says”
-Kalamazoo Gazette

**100-200
Jobs**

**190,000
Jobs**

“Green vehicles and strong climate policy can create jobs, says new report”
-mlive.com



Energy Efficient Construction

- **Definition of EE Construction**
 - Weatherization
 - Green Construction
 - Green Deconstruction
- **Programs to Stimulate Market Drive**
 - Mi Saves
 - Weatherization Assistance Program
 - EECDBG
 - Retrofit Ramp Up
 - HPwES
 - Home Star -“Cash for Caulkers”



Wind

- **Potential to be one of top 8 states for wind production**
- **Core competency in advanced manufacturing**
- **Partners in wind movement**
- **Regional transportation advantages**
- **Total job creation projected of 4,715**
- **Total new business investment of \$132 million**



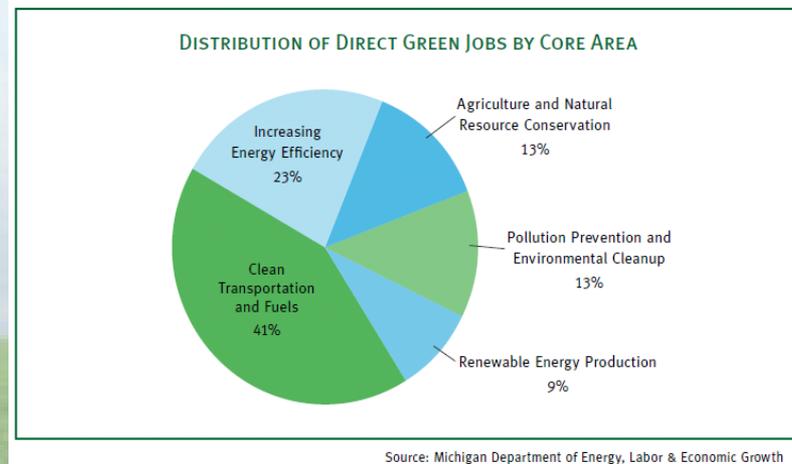
Solar

- **Total job creation projected of 21,592**
- **Total new business investment of \$2.8 billion**
 - Wixom Facility
 - Global Watt
 - Suniva
- **Established solar companies**
 - Hemlock Semiconductor
 - United Solar Ovonic
 - Evergreen Solar
 - Dow



Advanced Energy Storage

- Positioned to become the leader in battery development
- Automotive manufacturing strength
- Total new business investment of \$5.7 billion



Strategic Vision

- **Geothermal**
- **Biofuels, biomanufacturing, bioproducts**
- **Smart Grid**
- **Clean Transportation**
- **Carbon Capture and Storage (CCS)**



How Can You Be a Part of Michigan's Green Economy?



How Can You Be a Part of Michigan's Green Economy?



www.mycareereducation.org



www.onetcenter.org

www.michworks.org



www.michiganworks.org



Thank You

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