

FOR IMMEDIATE RELEASE  
Wednesday, June 10, 2009

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**Pew Report:**  
**Michigan Clean Energy Economy**  
**Jobs Grew as Overall Jobs Declined**  
*Emerging Sector Poised for Explosive Growth*

DETROIT – Jobs in Michigan’s clean energy economy grew 10.7 percent while overall jobs declined 3.6 percent in the state between 1998 and 2007, according to The Pew Charitable Trusts in the most detailed look yet at this sector. In *The Clean Energy Economy: Repowering Jobs, Businesses and Investments Across America*, Pew developed a clear, data-driven definition of the clean energy economy and conducted the first-ever hard count across all 50 states of the actual jobs, companies and venture capital investments that supply the growing market demand for environmentally friendly products and services.

Michigan was part of a national trend that saw job growth in the clean energy economy outperforming overall job growth in 38 states and the District of Columbia over the same period. Nationally, jobs in the clean energy economy grew at a rate of 9.1 percent while total jobs grew by only 3.7 percent, between 1998 and 2007.

“The clean energy economy is a vehicle for Michigan’s economic recovery,” said Kerry Ebersole, Michigan representative for the Pew Environment Group. “Michigan has been losing jobs since 2000 – but the clean energy sector has been a bright spot, with jobs growing by nearly 11 percent between 1998 and 2007. The state ranks third in clean technology patents and has attracted \$55 million in clean technology venture capital in just the past three years. These investments, along with Michigan’s recently enacted renewable energy and efficiency standards, will create even greater market demand for jobs and businesses in clean energy generation.”

Today, the clean energy economy is a central component of Michigan’s recovery strategy. Part of Governor Jennifer Granholm’s “No Worker Left Behind” program aims to create clean energy jobs for Michigan residents.

The state’s business leaders hailed Pew’s study.

“Michigan has served as the home to the Hemlock Semiconductor Group for more than 45 years, and we are proud to be the world’s largest manufacturer of polysilicon, a key raw material used in solar technology,” said Rick Doornbos, president and CEO of Hemlock Semiconductor. “Dow Corning and Hemlock Semiconductor are excited about the future potential of solar technology as a clean and renewable energy source and are making significant investments to support this rapidly growing industry.”

In 2007, there were nearly 23,000 jobs in Michigan’s clean energy. Unlike previous studies of the so-called “green economy,” Pew’s numbers are a hard count of actual jobs and business and do not rely on estimates, multipliers or projections. The report finds that the emerging clean energy economy is creating

well-paying jobs in every state for people of all skill levels and educational backgrounds. Included in Pew's definition are jobs as diverse as engineers, plumbers, administrative assistants, construction workers, machine setters, marketing consultants, teachers and many others with annual incomes ranging from \$21,000 to \$111,000.

Federal and state lawmakers see the sector as helping to spur America's economic recovery and protect the environment. Michigan's clean energy economy will receive a boost from the recently enacted American Recovery and Reinvestment Act, which allocates nearly \$85 billion nationwide in direct spending and tax incentives for energy- and transportation-related programs. A renewable portfolio standard enacted by Michigan lawmakers last fall will encourage more growth in clean energy jobs. Additionally, Michigan has created an energy efficiency resource standard and participates in a regional clean energy initiative.

Pew's definition of the clean energy economy is based on previous research and input from nationally recognized environmental scientists and economists, including an advisory panel convened to help guide the study. According to Pew, *"a clean energy economy generates jobs, businesses and investments while expanding clean energy production, increasing energy efficiency, reducing greenhouse gas emissions, waste and pollution, and conserving water and other natural resources."* It comprises five categories: (1) Clean Energy, (2) Energy Efficiency, (3) Environmentally Friendly Production, (4) Conservation and Pollution Mitigation, and (5) Training and Support. The definition provides a groundbreaking framework for tracking jobs, investments and economic growth over time and allowing the public and private sector to evaluate the effectiveness of policy choices and investments.

"There is bipartisan support and a growing market demand for transitioning to the clean energy economy," said Phyllis Cuttino, director, U.S. Global Warming Campaign, at the Pew Environment Group. "Americans understand the transition is good for the overall economy, is creating new opportunities for jobs and business growth, and helps protect our national security by reducing our dependence on foreign oil. Congress and the Obama Administration can and must produce energy and global warming legislation that creates jobs, enhances energy independence and sustains our environment."

The complete study is available online at [www.pewtrusts.org/cleanenergyeconomy](http://www.pewtrusts.org/cleanenergyeconomy).

#### **ABOUT THE HEMLOCK SEMICONDUCTOR GROUP**

The Hemlock Semiconductor Group (Hemlock Semiconductor) is comprised of two joint ventures: Hemlock Semiconductor Corporation and Hemlock Semiconductor, L.L.C. The companies are joint ventures among Dow Corning Corporation, Shin-Etsu Handotai, and Mitsubishi Materials Corporation. Hemlock Semiconductor is a leading provider of polycrystalline silicon and other silicon-based products used in the manufacturing of semiconductor devices, and solar cells and modules. Hemlock Semiconductor began its Michigan operations in 1961 and broke ground at its Tennessee location in 2009, Michigan remains the Global Headquarters.

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