



Economic Impact of Wind Energy Development in Rural Areas

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Apollo Alliance

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The Apollo Alliance

- **23 Major Labor Unions, including:**
AFL-CIO, AFSCME, SEIU, IBEW, Unite HERE, UAW representing over 10 Million Working Men and Women
- **Environmental Groups , including:**
Sierra Club, Union of Concerned Scientists, Greenpeace, National Wildlife Federation, Natural Resources Defense Council, and League of Conservation Voters
- **Social Justice Groups, including:**
AGENDA, Green for All, Ella Baker Center for Human Rights, ACORN, and Urban Agenda
- **Business Leaders, including:**
American Council On Renewable Energy (ACORE), Energy Innovations, Conservation Services Group, Pacific Ethanol, Sharp Solar

Why Do We Call it *Apollo*?

We choose to go to the moon in this decade . . . not because [it is] easy, but because [it is] hard, because that goal will serve to organize and measure the best of our energies and skills, because that challenge is one that we are willing to accept, one we are unwilling to postpone, and one which we intend to win



A Clean Energy Revolution

- **Reduce dependence** on foreign oil
- **Cut carbon** emissions
- Restore America as a **leading innovator and producer** of clean energy products
- Create a new generation of **well-paid, green-collar jobs**





A Ten-Point Plan

FOR AMERICA'S ENERGY INDEPENDENCE BY 2015

- 1 Promote Advanced Technology & Hybrid Cars**
- 2 Invest In More Efficient Factories**
- 3 Encourage High Performance Building**
- 4 Increase Use of Energy Efficient Appliances**
- 5 Modernize Electrical Infrastructure**
- 6 Expand Renewable Energy Development**
- 7 Improve Transportation Options**
- 8 Reinvest In Smart Urban Growth**
- 9 Plan For A Hydrogen Future**
- 10 Preserve Regulatory Protections**

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Expand Renewable Energy Development: Diversify energy sources by promoting existing technologies in solar, biomass **and wind** while setting ambitious but achievable goals for **increasing renewable generation**, and promoting state and local policy innovations that **link clean energy and jobs**.

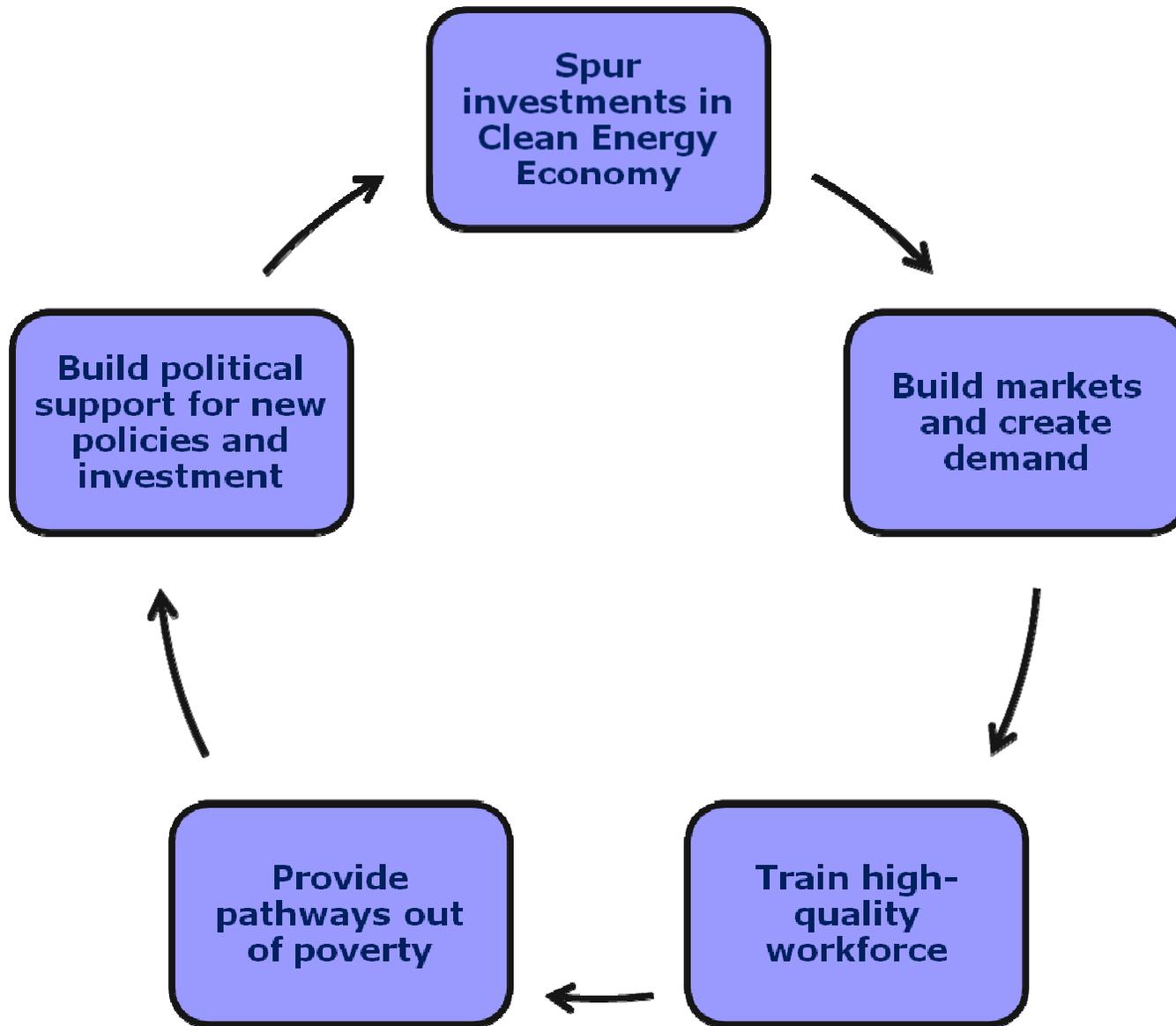
Apollo 10-point Plan

=

\$300 Billion in State & Federal
Investments over 10 years

=

- \$1.43 Trillion in GDP Gain
- \$954 Billion in Personal Income
- 3.3 Million Good Jobs
- 50% drop in dependence on foreign oil



Spur Investments in Clean
Energy Economy

+

Build Markets and Create
Demand

Policies and Incentives

- Renewable Portfolio Standards
- Production Tax Credits
- Manufacturing Incentives
- Interconnection & Net Metering
- Cooperative Ownership Incentives



New Jobs, New Markets for Existing Firms

Location	# Firms	New Jobs Wind	New Jobs Solar	New Jobs Geothermal	New Jobs Biomass	TOTAL New Jobs
California	4,658	14,147	24,288	3,320	2,848	44,602
Texas	2,795	10,000	12,299	1,841	3,261	27,401
Illinois	1,961	11,303	8,472	1,455	1,715	22,946
Ohio	2,156	13,215	5,957	1,896	1,854	22,922
Pennsylvania	1,839	9,029	8,119	1,538	1,832	20,517
New York	1,605	7,876	6,318	3,136	2,683	20,013
Indiana	1,154	1,186	3,834	1,410	1,524	17,954
Wisconsin	1,123	11,335	2,193	845	1,844	16,218
Michigan	1,817	10,369	2,457	587	1,021	14,435
N. Carolina	940	4,897	4,722	1,350	2,006	12,976

"The wind industry is growing very rapidly right now. Some might say almost too fast right now because there is a **bit of a skills shortage**. What the industry really needs is trained technicians."

- **Kevin Devlin, Vice President, PPM Energy**

Train High-Quality Workforce

Wind Industry Job Potential

- Manufacturing
 - 4x the jobs of natural gas
 - 40% more jobs than coal
- Installation
- Operating & Maintenance
- Secondary Economic Effects
(new jobs in region = regional investment in housing, retail & service economy)



Jobs in Wind Power

Jobs created for 1 MW wind power: about 9500 hours of labor (4 person-years).

240 MW Iowa wind farm =
200 6-month long construction jobs +
40 Permanent M&O at \$16/hour

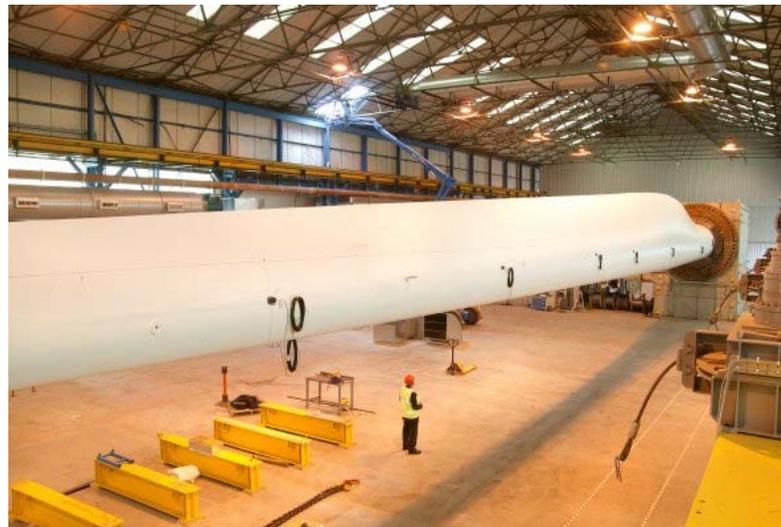


Regional Training Partnerships

- Industry
- Labor
- Community/Tech Colleges
- Community Organizations
- Regional Workforce Development System



*Siemens Selects Iowa Site for Its First
Wind Turbine Blade Manufacturing Facility
in the U.S.; Will Help Meet Strong U.S.
Demand for Clean, Renewable Energy*
- 8/18/06 Story in CSRWire



Provide Pathways out of Poverty



Rural Poverty

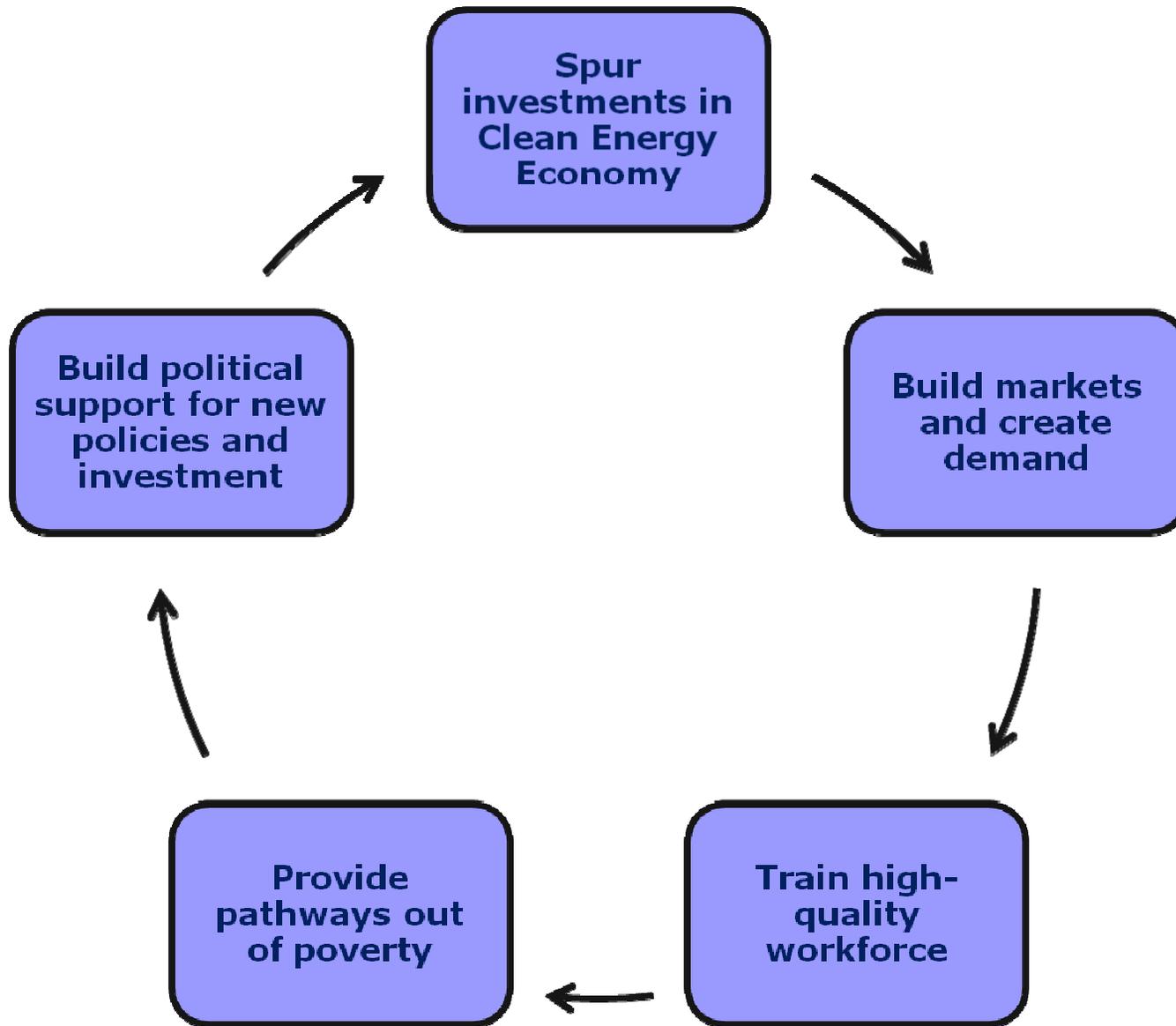
From 2000-2006, the overall non-metropolitan poverty rate increased from **13.4 percent** to **15.2 percent** (a 13 percent increase).

In Illinois:

- Per capita income: \$36,264/**\$26,375 rural**
- Poverty rate: 11.8%/**11.9% rural**
- No high school: 18.3%/**20% rural**
- Unemployment: 4.4%/**4.9% rural**

Green Pathways out of Poverty

- **Target** low-income, under-served populations
- **Integrate** with broader green-collar jobs programs
- **Collaborate** with communities on design and implementation
- Provide **comprehensive** employment services; “soft skills”
- Combine public and private **financing**



This is America, the richest, most technologically advanced and industrious country in the world. If anyone can do it, we can do it. And we will.



For more information...



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