Economic Impact of Wind Energy Development in Rural Areas

Kate Gordon, Program Director
Apollo Alliance
November 7, 2007
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:**
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

www.apolloalliance.org
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 political support for new policies and investment

Build markets and create demand

Provide pathways out of poverty

Train high-quality workforce
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

<table>
<thead>
<tr>
<th>Location</th>
<th># Firms</th>
<th>New Jobs Wind</th>
<th>New Jobs Solar</th>
<th>New Jobs Geothermal</th>
<th>New Jobs Biomass</th>
<th>TOTAL New Jobs</th>
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<tbody>
<tr>
<td>California</td>
<td>4,658</td>
<td>14,147</td>
<td>24,288</td>
<td>3,320</td>
<td>2,848</td>
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<td>Illinois</td>
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<td>1,455</td>
<td>1,715</td>
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<td>Ohio</td>
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<td>13,215</td>
<td>5,957</td>
<td>1,896</td>
<td>1,854</td>
<td>22,922</td>
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<td>Pennsylvania</td>
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<td>8,119</td>
<td>1,538</td>
<td>1,832</td>
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<td>New York</td>
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<td>6,318</td>
<td>3,136</td>
<td>2,683</td>
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<td>Indiana</td>
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<td>1,410</td>
<td>1,524</td>
<td>17,954</td>
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<td>Wisconsin</td>
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<td>Michigan</td>
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<td>N. Carolina</td>
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<td>4,897</td>
<td>4,722</td>
<td>1,350</td>
<td>2,006</td>
<td>12,976</td>
</tr>
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</table>
"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

- 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-collared jobs programs
• Collaborate with communities on design and implementation
• Provide comprehensive employment services; “soft skills”
• Combine public and private financing
Spur investments in Clean Energy Economy

Build markets and create demand

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Provide pathways out of poverty

Build political support for new policies and investment
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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