

**GREEN JOBS FOR**  
**America**

# Agenda

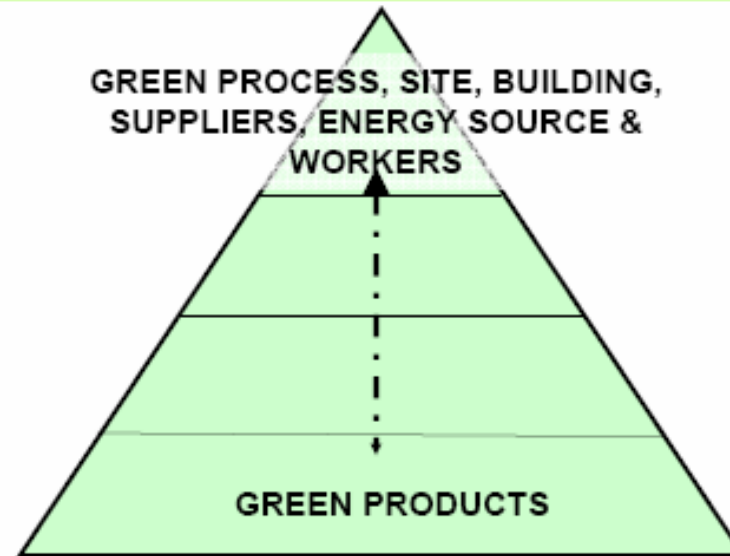
- BGA Mission
- What are “green jobs”?
- The green economic recovery plan

# Blue Green Alliance

- A strategic partnership of:
  - United Steelworkers,
  - Sierra Club,
  - Natural Resources Defense Council,
  - Communications Workers of America,
  - Service Employees International Union, and
  - Laborers International Union of North America.
- 6.2 million members.
- Focusing on the economic benefits of environmental investments, particularly global warming solutions.

# Defining Green Jobs?

## Defining “Green” Manufacturing Base



Mayors' Initiative on Green  
Manufacturing

# What Are “Green Jobs”?

- Blue collar jobs with a green purpose



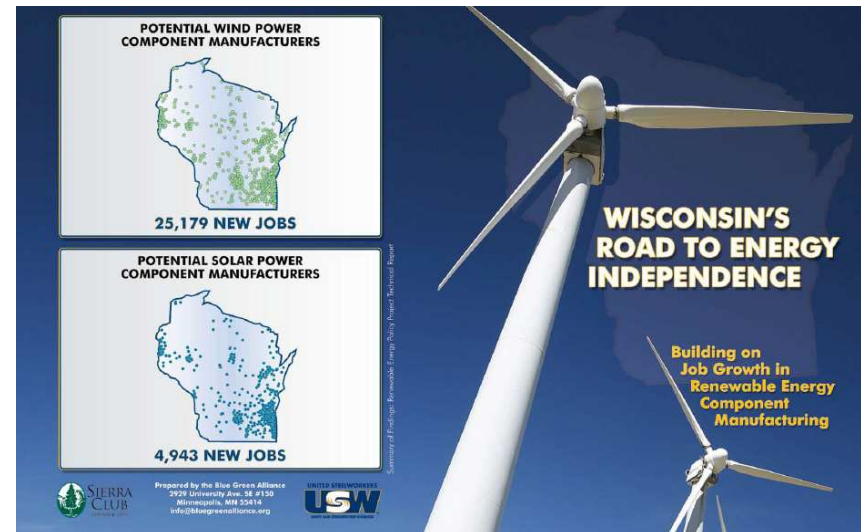
Brandy Smith, millwright at Mortenson Construction, installs wind turbines.



Betsy Burns, precision grinder for Timken Steel, makes roller bearings for renewable energy equipment.

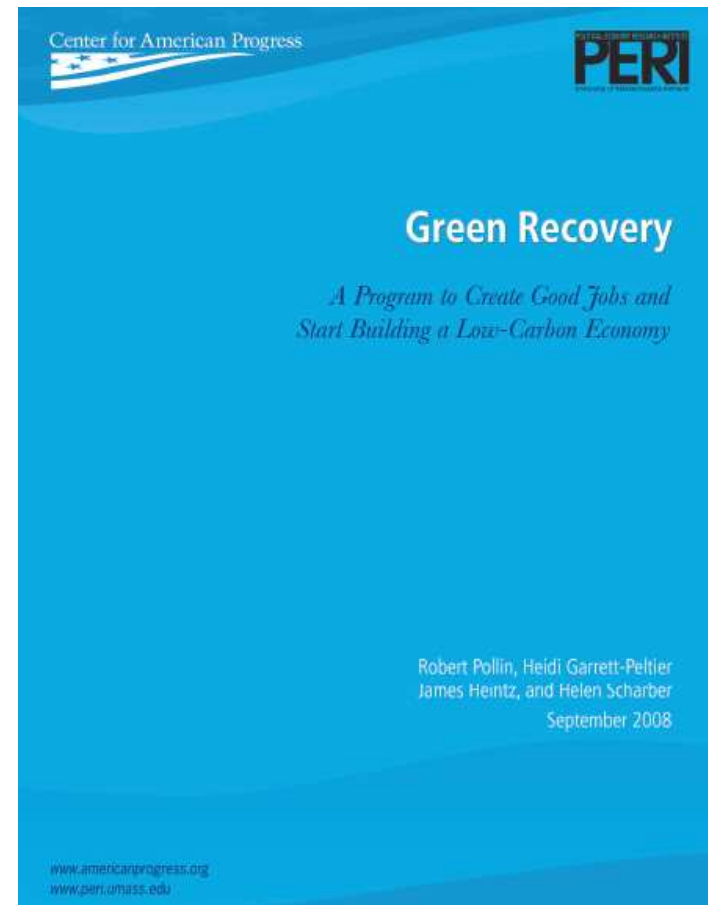
# Estimates of Green Jobs in the U.S.

- Management Information Services, Inc.—8.5 million jobs in 2006 in renewable energy and energy efficiency.
- Renewable Energy Policy Project/BGA—840,000 potential new manufacturing jobs from a 15% federal renewable energy standard.
- National Renewable Energy Lab—180,000 new jobs from 20% wind-generated electricity by 2030.
- Economic Policy Institute—net 1.4 million more jobs from meeting Kyoto protocols, including most manufacturing sectors



# Green Economic Recovery

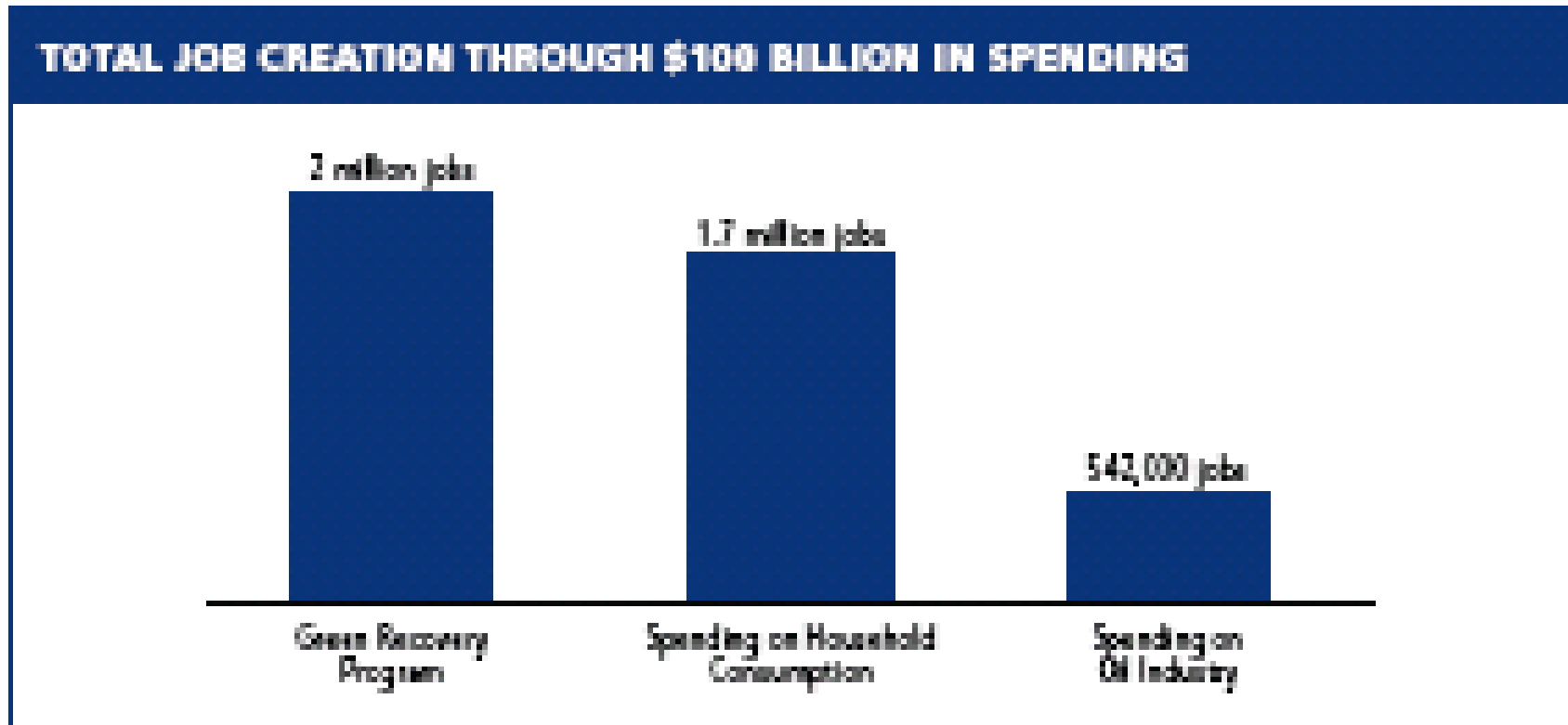
- 9-9-08 Report produced by Center for American Progress and U Mass.
- Released by GJFA in 34 states
- Major features
  - 2 years \$100 Billion investment
  - 2 million new jobs
  - 4 times as many jobs as investment in oil
  - Reduce US employment by 1.7%



# The Six Key Strategies

- Building retrofitting for energy efficiency
- Mass transit and freight rail
- Smart grid electrical transmission systems
- Wind energy
- Solar energy
- Advanced biofuels

# Green vs. Oil Spending



Source: U.S. Bureau of Economic Analysis and authors' calculations. See appendix for details.

# Jobs Created by Each Strategy

GREEN INVESTMENTS AND JOBS	
STRATEGIES FOR GREEN ECONOMIC INVESTMENT	REPRESENTATIVE JOBS
Building Retrofitting	Electricians, Heating/Air Conditioning Installers, Carpenters, Construction Equipment Operators, Roofers, Insulation Workers, Carpenter Helpers, Industrial Truck Drivers, Construction Managers, Building Inspectors
Mass Transit/Freight Rail	Civil Engineers, Rail Track Layers, Electricians, Welders, Metal Fabricators, Engine Assemblers, Bus Drivers, Dispatchers, Locomotive Engineers, Railroad Conductors
Smart Grid	Computer Software Engineers, Electrical Engineers, Electrical Equipment Assemblers, Electrical Equipment Technicians, Machinists, Team Assemblers, Construction Laborers, Operating Engineers, Electrical Power Line Installers and Repairers
Wind Power	Environmental Engineers, Iron and Steel Workers, Millwrights, Sheet Metal Workers, Machinists, Electrical Equipment Assemblers, Construction Equipment Operators, Industrial Truck Drivers, Industrial Production Managers, First-Line Production Supervisors
Solar Power	Electrical Engineers, Electricians, Industrial Machinery Mechanics, Welders, Metal Fabricators, Electrical Equipment Assemblers, Construction Equipment Operators, Installation Helpers, Laborers, Construction Managers
Advanced Biofuels	Chemical Engineers, Chemists, Chemical Equipment Operators, Chemical Technicians, Mixing and Blending Machine Operators, Agricultural Workers, Industrial Truck Drivers, Farm Product Purchasers, Agricultural and Forestry Supervisors, Agricultural Inspectors

# Distribution of Jobs & Investment

## TOTAL JOB CREATION THROUGH \$100 BILLION GREEN STIMULUS PROGRAM

Direct jobs	935,200
Indirect jobs	586,000
Induced job	496,000
<b>Total job creation</b>	<b>1,999,200</b>

Source: U.S. Bureau of Economic Analysis and authors' calculations.

- **\$50 billion for tax credits.** This would assist private businesses and homeowners to finance both commercial and residential building retrofits, as well as investments in renewable energy systems
- **\$46 billion in direct government spending.** This would support public building retrofits, the expansion of mass transit, freight rail, and smart electrical grid systems, and new investments in renewable energy
- **\$4 billion for federal loan guarantees.** This would underwrite private credit that is extended to finance building retrofits and investments in renewable energy

# The Candidates' Stands



**OBAMA'08**  
[WWW.BARACKOBAMA.COM](http://WWW.BARACKOBAMA.COM)

- Provide short-term relief to American families facing pain at the pump
- Help create five million new jobs by strategically investing \$150 billion over the next ten years to catalyze private efforts to build a clean energy future.
- Within 10 years save more oil than we currently import from the Middle East and Venezuela combined
- Put 1 million Plug-In Hybrid cars – cars that can get up to 150 miles per gallon – on the road by 2015, cars that we will work to make sure are built here in America
- Ensure 10 percent of our electricity comes from renewable sources by 2012, and 25 percent by 2025
- Implement an economy-wide cap-and-trade program to reduce greenhouse gas emissions 80 percent by 2050

# Current Recovery Proposals

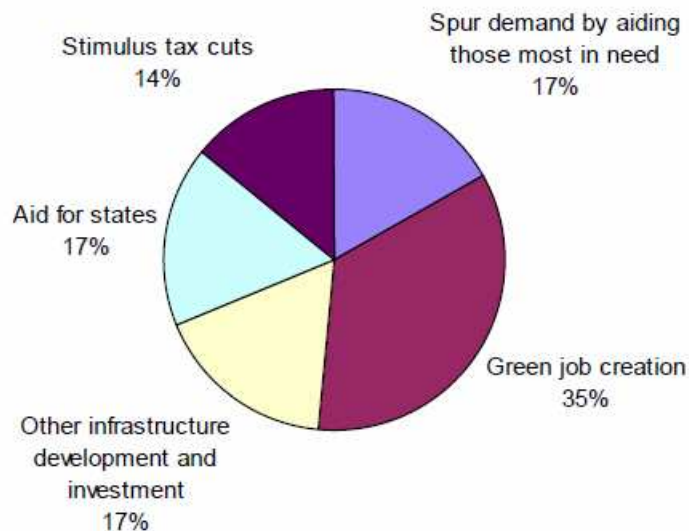
United Steelworkers-  
Institute for America's  
Future proposal

Total Proposed Stimulus Spending for Two Years		
Green <sup>i</sup>	50	50
Infrastructure <sup>ii</sup>	75	150
Aid to States <sup>iii</sup>	50	75
Education <sup>iv</sup>	40	40
Research and Development <sup>v</sup>	5	15
Health Care <sup>vi</sup>	15	55
Unemployment Insurance <sup>vii</sup>	15	15
Food Stamps <sup>viii</sup>	15	15
Poverty Reduction <sup>ix</sup>	35	35
Middle-Class Tax Cut <sup>x</sup>	150	-
	—	—
<b>Total</b>	<b>450</b>	<b>450</b>

# Current Recovery Proposals

## Center for American Progress

\$350 Billion



### Green job creation

\$121bn

Transit fare reductions and service expansions	2.00
The Weatherization Assistance Program	0.90
Financial Energy Management Program	1.30
Workforce investment in the Green Jobs Act	0.25
Refundable residential energy efficiency tax credits	5.00
Solar roofs on federal buildings	3.50
New Starts Transit project investments	5.00
Smart grid federal matching funds	1.30
Green jobs restoring the land	0.80
Manufacturing Extension Partnership	0.20
Building Retrofits	10.00
Energy efficiency and conservation block grants	3.00
"Cash for Clunkers" rebates for older cars	2.50
Clean renewable energy bonds	3.00
Advanced coal technology to capture carbon	1.10
Electric Transmission Grid	10.00
Manufacturing	16.00
Advanced Technology Vehicle Manufacturing and Retooling	7.50
Replacing aging buses and acquire rail cars	4.00
Local transit infrastructure	8.00
Capital Assistance to States	10.00
Clean Energy Corps	3.00
Greening affordable housing	5.00
Industrial Waste Recovery Program	0.41
Extension of the Production Tax Credit	10.00
Green school construction and renovation	7.25

# Current Recovery Plans

## Green Group

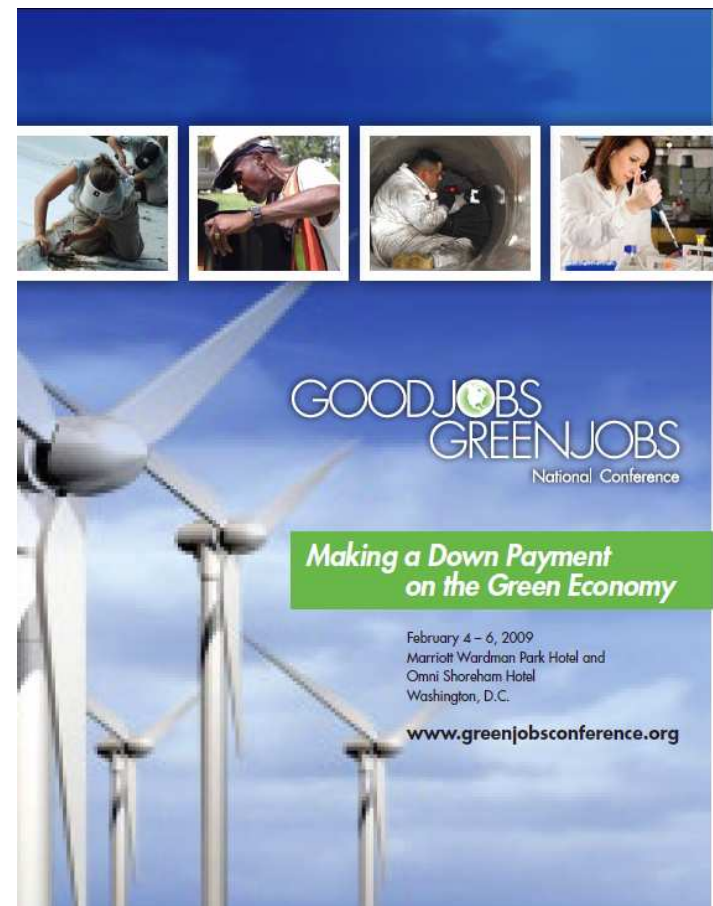
- \$100 Billion from “Green Recovery” +
  - \$2 B Transit funding projects
  - \$10 B Energy Star tax credits
  - \$5 B Clean renewable energy bonds
  - \$6 B Energy block grants
  - \$3.5 B Federal solar roofs
  - \$7.25 B Green schools
  - \$6.5 B Green infrastructure for clean water
  - And \$18.5 B additional projects

# Recent Obama Statement

- *“We’ll put people back to work rebuilding our crumbling roads and bridges, modernizing schools that are failing our children, and building wind farms and solar panels, fuel-efficient cars and the alternative energy technologies that can free us from our dependence on foreign oil and keep our economy competitive in the years ahead,”* Mr. Obama said in a radio address last month, echoing a campaign promise with a new sense of urgency.

# Making a Down Payment on the Green Economy

- Feb. 4-6, 2009 over 100 organizations and 2000+ delegates will come to Washington, DC to advocate for the “Green Recovery”—the most important immediate step to solving global warming.



# Green Jobs for America



[www.sierraclub.org](http://www.sierraclub.org)



[www.usw.org](http://www.usw.org)



[www.nrdc.org](http://www.nrdc.org)



[www.americanprogress.org](http://www.americanprogress.org)



[www.cwa-union.org](http://www.cwa-union.org)



[www.workingamerica.org](http://www.workingamerica.org)



[www.greenforall.org](http://www.greenforall.org)



[www.bluegreenalliance.org](http://www.bluegreenalliance.org)



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