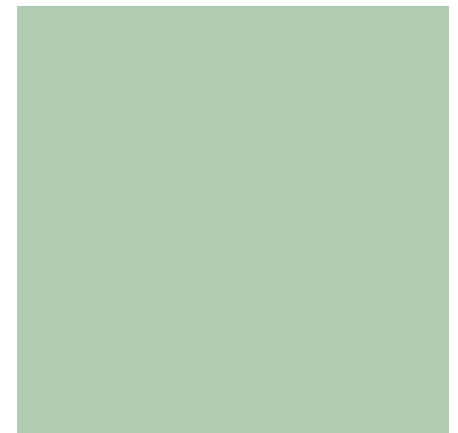
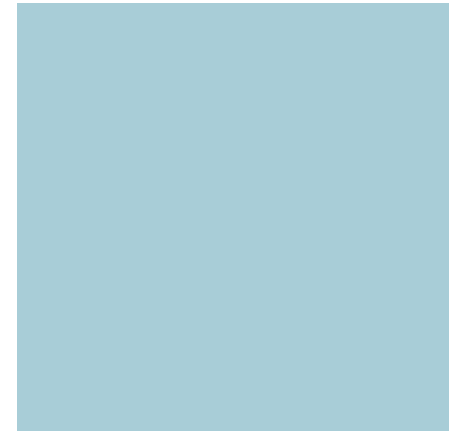




Green Jobs: Opportunities for Rural Communities

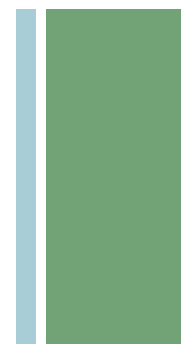


Phaedra Ellis-Lamkins,
Chief Executive Officer

+ What's happening to our planet



+ What's happening to our communities



- + Climbing percentages of unemployment
- + Alarming rates of respiratory illnesses
- + Increase in health problems caused by environmental pollution
- + Scarcity in community capital & wealth accumulation opportunities
- + Incarceration
- + Disenfranchisement from the political process



+ Green For All's Vision

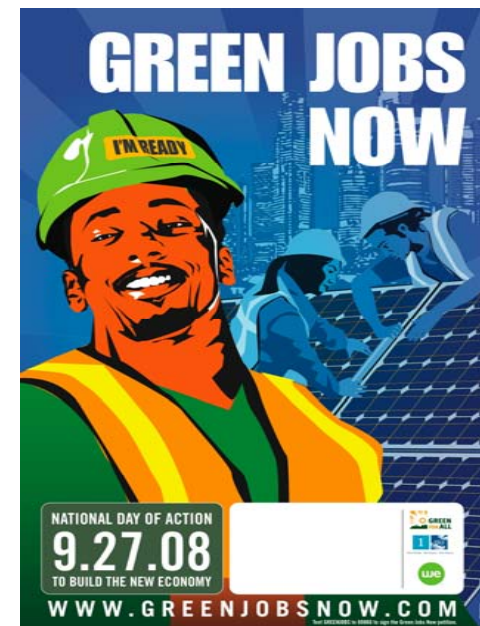
Fight Poverty and Pollution at the Same Time

The shift to clean energy can improve the health and well-being of low-income people, who suffer disproportionately from cancer, asthma and other respiratory ailments in our carbon-based energy economy

AND

it can create entrepreneurial, wealth-building opportunities for those who need new avenues of economic advance.

Green For All is dedicated to building an inclusive green economy strong enough to lift people out of poverty.



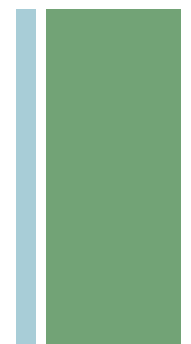
+ Green Jobs

Jobs that are good both for **people** and the **planet**



- + rebuild a strong middle class
- + build pathways out of poverty
- + tend to be local jobs
- + strengthen urban and **rural communities**
- + protect our health and the health of the planet
- + **accessible to our most needy communities**
- + family supporting, career track jobs

+ Green-Collar Jobs in the Clean Energy Economy



- Energy Efficiency
 - Building Retrofits
- Renewable Energy
 - Solar
 - Wind
- Alternative Fuels
 - Biofuels



+ Energy Efficiency Retrofits

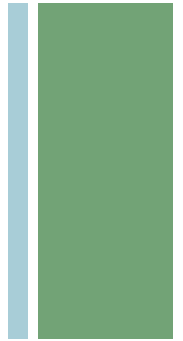
Reduce Energy Costs + GHG Emissions:

- 55% of all U.S. energy is wasted: Efficiency is the fastest and cheapest way to address global warming.
 - Americans spend more than 5% of their income on energy costs. Low-income Americans spend more than 16%
 - Low-income housing in rural communities tends to be even less energy efficient
 - \$1 million invested in retrofits=approx. 12 jobs;
\$10 billion a year in retrofits=120,000 jobs
- Retrofitting homes will save occupants money, create jobs, and reduce greenhouse gas emissions



+ Solar Power

- Solar photovoltaics (PV) are labor intensive: 20 manufacturing jobs and 13 installation/maintenance jobs per megawatt of energy
- Installation and maintenance are local jobs
- Manufacturing depends on demand and incentives—companies move to where the market is
- Require new technical skills, provide good wages



+ Wind Power

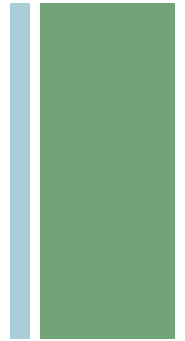
- Zero-emissions energy source
- Rapid growth and high profile industry
- U.S. has lead in annual wind power installation for the past 3 years
- Great potential in Midwestern states
- Potential for jobs in manufacturing turbines and components, operations, installation, maintenance



+ Biofuels

- Efficiency, sustainability, and job creation vary among crops and process
- Job creation not as high now, but technological advances in biofuel and biopower hold promise for agricultural states
- Focus on the bioeconomy as a whole will lead to greater economic development in agricultural areas





Green Jobs on Tribal Lands

- High unemployment, poverty, inefficient homes present needs and opportunities in Native communities
- Opportunities: Local energy efficiency retrofits, development of renewables
- Estimated 535 Billion kWh/year wind power generation potential
- Estimated 12,000 Billion kWh/year of solar electricity generation potential (4.5 times the US annual generation)
- Local investment, hiring, training, materials use will help revitalize Native communities

+ Winds of Change: Pennsylvania

- Spanish-owned wind company, Gamesa has 2 manufacturing plants in rural PA
- Edensburg, in the southern Alleghenies and Fairless Hills (at site of former US Steel)
- Gamesa has employed 1,160 workers in PA
- Public policy was key: PA passed a measure in 2004 requiring 18 % of the state's electricity come from renewable sources by 2021.

+ Winds of Change: Iowa

- Emmet & Dickson counties to house 2 largest community-owned wind farms
- 300 and 200-megawatt wind farms in NW Iowa agricultural community
- Currently Iowa employs 1400 workers in existing wind turbine/components manufacturing facilities
- Dept of Energy projects: 500 megawatts=800 construction jobs, 125+ in operations and maintenance
- National Wind is developing 11 other large community-owned wind projects in MN, IA, SD, ND, Colorado

+ Wind Opportunity in West Virginia

Coal River Wind Project, West Virginia

The proposed project would:

- Create 154 turbines
- Bring online 300 megawatts of power
- Employ 200 construction workers initially and 50 employees long-term plus more over time as demand increases



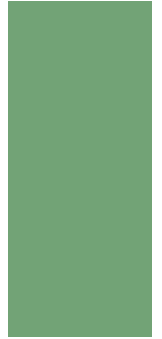
The wind turbines would line the edge of the Coal River Mountain where currently mountaintop removal has been sited.

+ What will it take?

- **Public Policy** to create demand and develop training
- **Dedicated Funding**
- **Engaging Business**



+ Policies that Fuel Green Growth



- State Renewable Portfolio Standards
- State Energy Efficiency Resource Standards
- State/Local Climate Action Plans
- Federal Production Tax Credit
- American Recovery and Reinvestment Act
- American Clean Energy and Security Act (???)

+ Additional Resources



- Green For All
 - Recovery Resources: www.greenforall.org/recovery
 - Case Studies & Reports: www.greenforall.org/resources

- Apollo Alliance: New Energy for States
 - www.apolloalliance.org/reports

- Institute for Local Self Reliance: Rural Power
 - www.newrules.org/energy/publications

- Indigenous Environmental Network
 - Energy Justice in Native America: www.ienearth.org

- Coal River Wind Project
 - www.coalriverwind.org

