

An aerial photograph of a residential neighborhood, showing several houses with varying roof colors (grey, brown, white) and green lawns. The houses are interspersed with trees, some of which are evergreens and some are deciduous. The overall scene is a typical suburban or rural residential area.

# Vernonia

A vision for a transformed and sustainable community.

An aerial photograph of a residential neighborhood, showing houses, streets, and trees. The image is slightly faded and serves as a background for the text.

# Immediate Recovery and Sustainability Projects

- Rebuild Vernonia school system
- Rebuild power system
- Rebuild and improve wastewater treatment and solid waste disposal
- Include distributed Energy Options in each project
- Rebuild public infrastructure

# Immediate Job Creation

- Street improvements ready to go (10-15 jobs)
- Utility relocates summer/fall (10-15 jobs)
- School salvage and materials recycling begin this summer (15-20 jobs)
- Accelerated Project Delivery for Wastewater Treatment Facility (20-30 jobs)
  - Design/Build begin summer '09
- Design/Build of school system underway this summer (20-30 jobs)

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# Use of Oregon Companies

- Program Management by Oregon firm
- Land surveys by local company
- Engineering by Oregon-based or Willamette Valley located firms
- Architecture by Oregon firm
- Construction oversight by Oregon firm
- Construction by Oregon firms

# Renewable Energy, Carbon Reduction and Sustainable Development

- Biomass plant opportunity for energy dependability utilizing local feed stocks
  - Surrounded by 800,000 acres private forests
    - Fuel load reductions
    - Carbon management for carbon credits
  - Community solid waste as feedstock (presently hauled cross-county)
  - Biogas from wastewater plant
  - Solar thermal/solar PV integration
- GHG reductions across multiple sectors

# Sustainable Community Design

- Relocate and integrate three schools into a national model for compact sustainable schools
  - BOORA to hold national symposium May 20, 2009 on the Vernonia School Design
  - Involve the community and the students in the design, materials recycling, and construction of building elements
    - <http://www.ConnectLive.com/events/ednews>
  - Green streets and model green building for each new facility

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# Green Jobs Training Opportunities

- New school design will be part of curriculum
- Summer jobs '09 include materials recycling, green streets construction, floodplain restoration, housing retrofits
- Biomass facility and feedstock chains to be designed for local technical training
- OSU natural resources curriculum to be embedded in new schools design and program
- PCC engaged to provide green job training at the new school site

# Innovative Green Technologies

- State-of-the-art sustainable school campus
  - National showcase
- Integrated biomass energy facility
  - Forest management for fire and carbon
  - Shift solid waste exports (via trucks) to feedstock
  - Achieve community-based energy efficiency
- Sustainable Wastewater Treatment
  - Biogas capture, minimal-to-zero NPDES discharge
- Sustainable floodplain and community restoration



An aerial photograph of a residential neighborhood, showing houses with various roof colors (brown, grey, white) and green trees interspersed among them. The image is slightly faded and serves as a background for the text.

# Showcase Oregon's Commitment to Sustainability

- Shifting a logging community to a sustainable resources community
- Moving to energy independence
- Building local intellectual capital, technical skills, and supply chains for the new Green Economy