

Madison County

Innovative Energy Projects and Initiatives

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Outline

- Why get engaged in Clean Energy Projects?
- How did we get started?
- Engaging partners and resources
- Internal energy management efforts
- How has WRP helped?
- Where do we want to go?

Why has Madison County been engaged in Energy Projects?



Green Opportunities staff and Congressman Heath Shuler at ground breaking solar hot water project - Madison County Community Services building

How did we get started?



Micro-hydro Power generation Led by Mountain Valleys Resource Conservation and Development

Engaging partners



Wind Turbine Demonstration at Hot Springs Elementary School
Mountain Valleys Resource Conservation and Development Agency and Progress Energy Grant



Geothermal HVAC at Mars Hill College

Madison County Schools Energy Saving Performance Contract

- ▶ 2005 Energy Efficiency Assessments – WRP
- ▶ 2008 Energy Performance Process Launched
- ▶ Team Approach – Owner led
- ▶ 5\$ Million Contract
- ▶ HVAC Changes, controls, light improvements
Improved comfort

Outcomes:

36% Energy savings predicted
\$5.9 Million in utility cost saving over
15- year contract



Superintendent, Ronald Wilcox, Richard Paxton and
Larry Schwake
Photo Courtesy Mountain Xpress



Waste Reduction Partners

Improving Energy Management at County Facilities

- Establishing an Energy Policy
- External Input by Energy Professionals
- WRP Energy Assessments
- Staff Engagement
- Strategic Energy Plan Development
- ARRA State Energy Office funding



Assistance by Waste Reduction Partners

- Energy assessments at county facilities
- Development of a Strategic Energy Plan
- Staff training on energy conservation
- Project development for grant application



What's Next Madison County?

- Complete ARRA funded energy projects
 - Joint partnership with Towns of Marshall and Mars Hill
- Continue capacity building
- Continue to look for traditional and non-traditional opportunities

