

WV Energy Benchmarking Initiative

Year 1 Update



Project Overview

- \$300,000 USDOE Competitive State Energy Program Grant awarded in 2018
- 3 years, start April 2019
- Goal: Benchmark Energy Performance in State Owned Buildings and work with state agencies to develop Policy for Annual Benchmarking and Public Disclosure Policy.
- Primary focus on K-12 Schools. Objective: Benchmark all public K-12 Schools using Energy Star Portfolio Manager
- Other Deliverables: staff training and education; outreach and assistance to local governments; Sustainable Energy Education Development to be used in schools; Develop Benchmarking and Disclosure Policy

Partners:

Benchmarking & Training - WV ASHRAE Chapter / WVU School of Engineering Mechanical Engineering Dept.

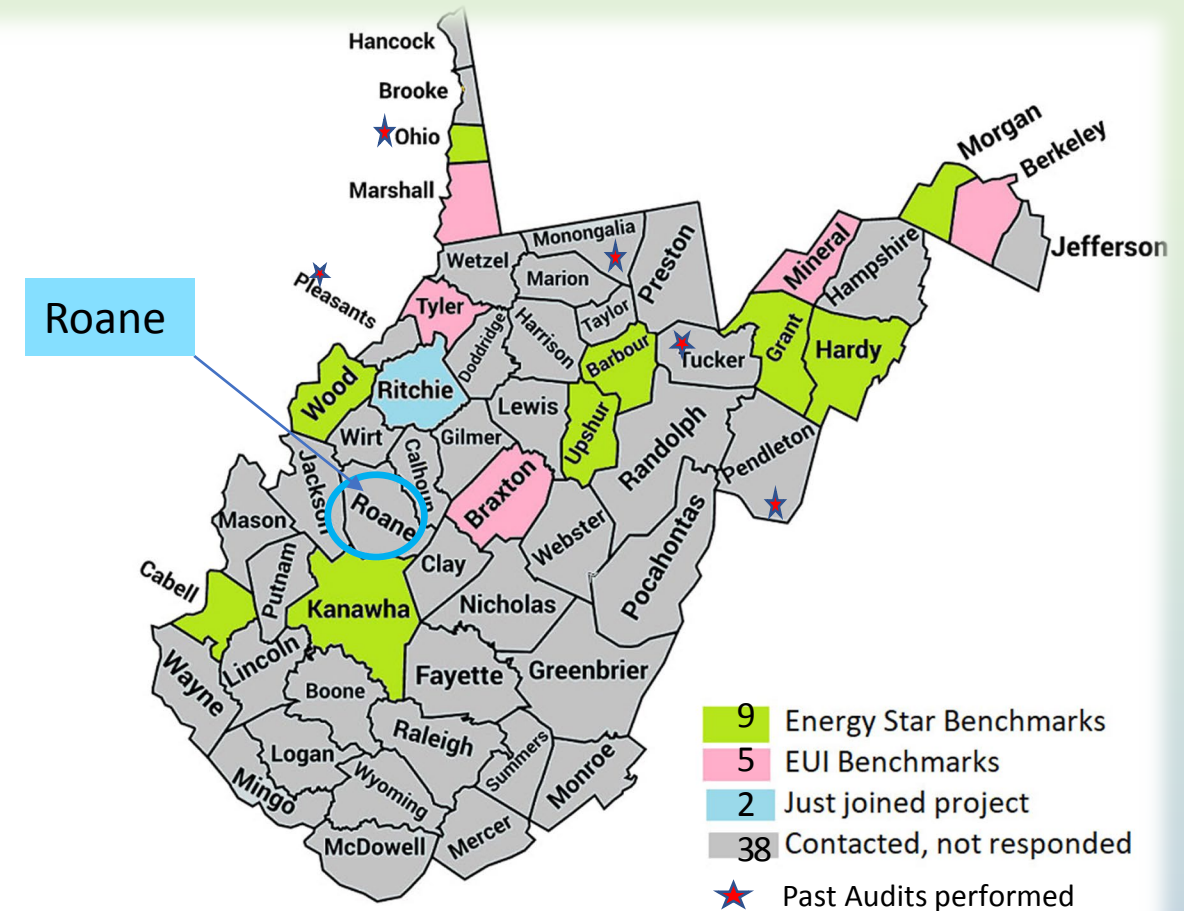
Energy Education Curriculum – National Energy Education Development Program

Why Benchmarking?

- Use Energy Use Index (EUI) like gas MPG mileage for car, removes utility rate fluctuations.
- Allows accurate comparisons... Building to Building year to year.
- Better visibility of performance changes, aging of equipment, control calibration, on site maintenance
- Helps ID the best candidates for energy efficiency opportunities within a portfolio.


What's been done

- Coordination w/ WV Dept of Ed, Office of School Facilities; WV School Building Authority
- ASHRAE Committed pro Bono PE time to certify data collected
- Presented to WV Assoc. School Facility Administrators Annual Meeting
- 17 counties / 289 buildings
- Both Utilities on board, supportive
 - AEP- energy use data history (pending permission) Automatic Data Transfer
 - MonPower: considering the same
- Assisting WV Office of General Services, Cities of Charleston and Huntington



Source: WV ASHRAE Benchmarking Project Team

What's next

- Recognition of top performing Schools and Counties: **Battle of the Buildings!**
 - Work with staff to prioritize under performing schools and ID savings opportunities: **Assessments**
 - Training for Staff and Facility with WVU, MEEA: **Benchmarking 101; Building Operator Certification** (*training ops available to interested State & County agencies as well*)
 - Participating schools receive resources and materials for teachers and students: **Building Science and energy kits, curricula, training, awards, energy fairs.**
 - *Establish Policy Development Steering Committee*
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Questions?

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