Expanding Energy Efficiency in WV

DOE / CBER Conference

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Overview

- **How can WV meet the EE requirements of building block four of the EPA's CPP?**
- **What will be the cost and benefits?**

Answer is…

I don’t know

EPA's Clean Power Plan

- **EPA's proposed rule is all we have seen**
- **Final rule to be issued this summer**
- **Once the rule is issued it is up to the State to develop the plan to comply**
  - One year to develop plan
  - State has latitude on how to comply with the rule

EPA's Four "Building Blocks"

Heat rate (efficiency) improvements for coal plants

Increase use of natural gas plants to displace coal

Increase renewables and preserve nuclear

Increase energy efficiency

Building Blocks used to Model

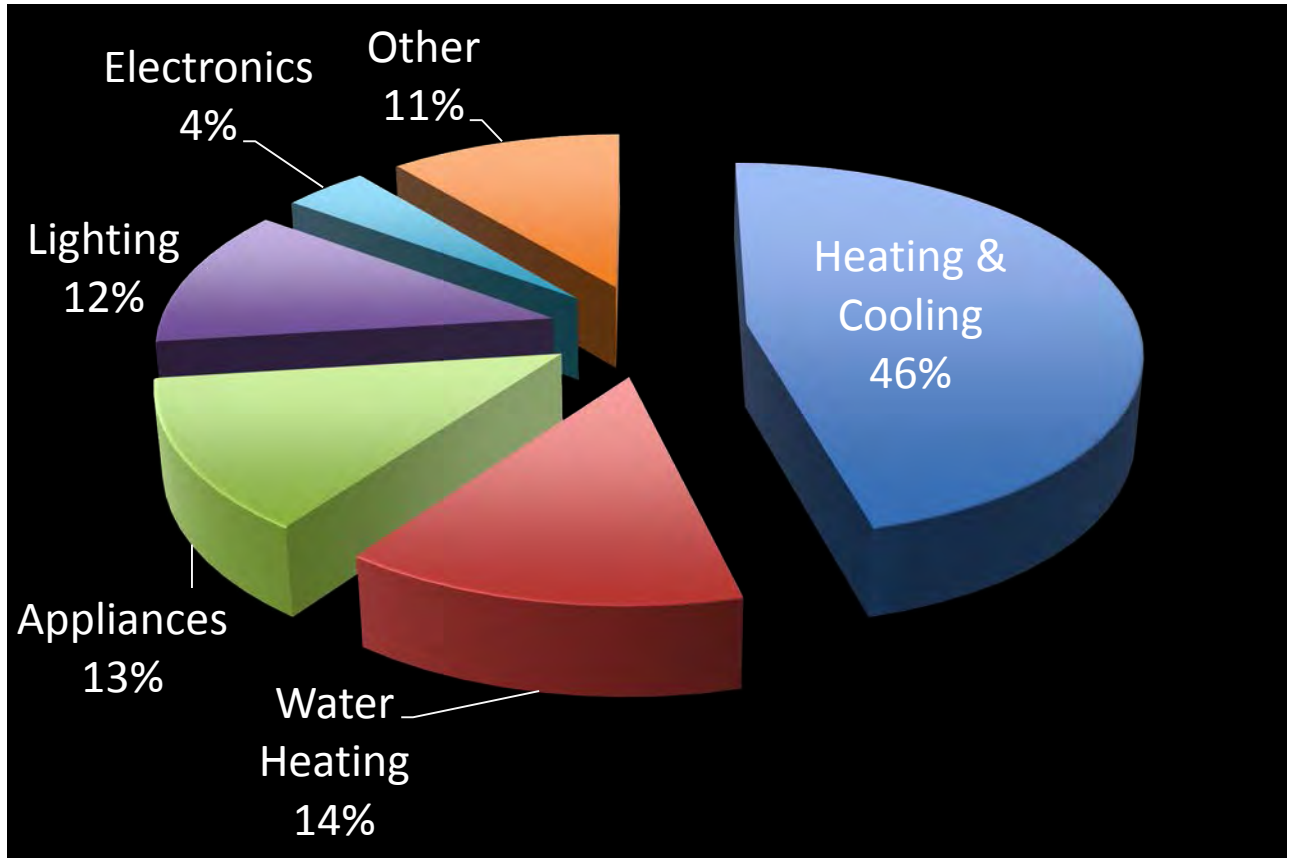
Increase energy efficiency

- **Building blocks modeled using Best System of Emissions Reduction**
- **Benchmark used highest performing states as best system.**

Differences Between WV and Best States

- **Energy Prices (motivation to improve efficiency)**
  - **WV $0.0915**
  - **VT $0.1653**
  - **MA $0.2167**
  - **CA $0.1717**
- **Economic Health**
  - **Energy Efficiency generally does not happen without a willing participant**
  - **Businesses have to be willing to invest**
  - **Homeowners need to have money to spend**
- **Potential for savings is different in WV**
  - **Potential is reducing with new “standard” products (t-8 lamps)**
  - **Energy usage is very different**

Breakdown of Average Usage



How can WV meet the EE requirements of the CPP?

- **The State plan needs to reasonable**
- **Volt Var Optimization is an option to contribute**
- **Creative programs will need to be adopted**

What will it cost and benefits?

- **Current program cost of $9M with 0.3% reduction**
- **Benefits for participants is much higher, cost effectiveness for ratepayers will be less with higher goals**
- **Energy efficiency is generally looked at as cost savings but also can provide additional comfort and cost competitiveness**

Questions?