



**Residential construction in the Wood River Valley - Installation of second roof layer which prevents loss of heat through roof.**



**Measurement and verification is a critical part of strategic energy management.**

## IDAHO STRATEGIC ENERGY ALLIANCE

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# Energy Facts

## Idaho — ENERGY EFFICIENCY



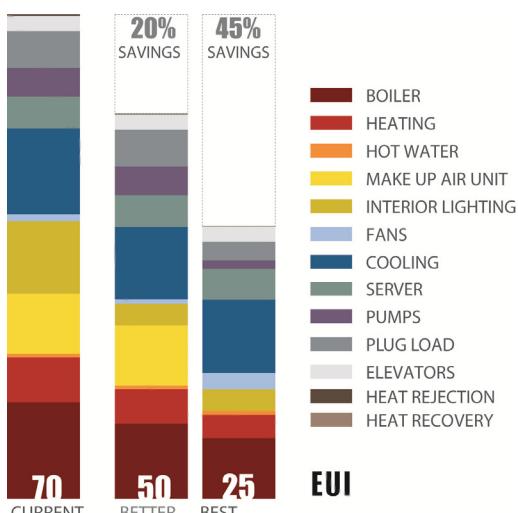
*Energy Efficiency is “Using less energy to provide the same service”<sup>1</sup> or benefit.*

The ISEA Energy Efficiency and Conservation (EE&C) Task Force issued reports in 2008 and 2010 that highlight the important role that energy efficiency plays in meeting Idaho's energy needs:

- From 2000-2009 Idaho's three investor-owned electric utilities (Avista, Idaho Power Company, Rocky Mountain Power) invested approximately \$119 million in energy efficiency programs statewide (including cost-effective financial incentives) resulting in 893 million kWh of “first year” electric savings (approximately 102 aMW) for their customers. Avista saved approximately 4.5 million therms of natural gas.
  - The electric savings were enough to provide service to over 68,000 homes in Idaho annually. In 2012, the utilities reported an additional 22.6 aMW of first year savings.
- Energy efficiency can be an important resource for meeting future energy needs for Idaho.
- The Department of Energy estimates that "homeowners can achieve an energy savings of up to 25% while improving the home's comfort level by adopting energy efficient building practices."

### Energy Efficiency Measures for Commercial & Industrial Buildings

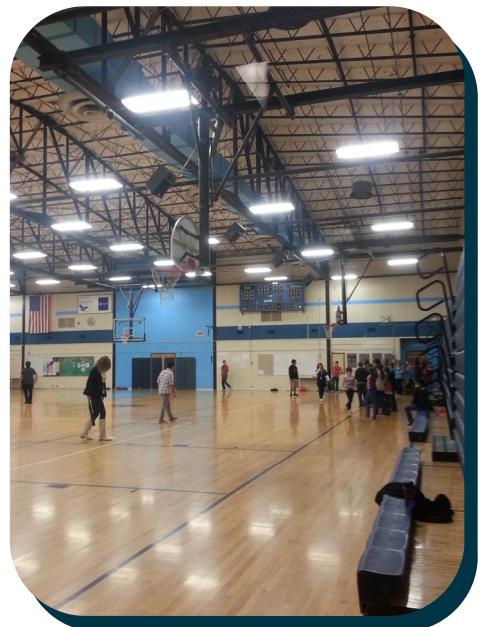
The following energy efficiency measures can be applied to new or existing buildings to save energy and money over the life of the building.



<sup>1</sup>Lawrence Berkley National Lab - <http://eetd.lbl.gov/ee/>

## Energy Efficiency in Idaho

- Idaho requires new residential and commercial buildings to meet energy efficiency standards. Residential and commercial buildings must comply with the version of the International Energy Conservation Code (IECC) adopted by Idaho. The IECC, developed by the International Code Council, is a model code that mandates certain energy efficiency standards.
- The Center for Advanced Energy Studies is a research and education consortium (INL, BSU, ISU, UI, UW) with a mission to promote the effective and efficient use of energy resources through cutting-edge research, effective outreach, and accessible education.
- The Idaho Awards for Leadership in Industrial Energy Efficiency program recognizes the industrial companies that are exceptional state leaders in implementing energy efficiency at their local facilities. Now in its second year, the recipients of the Awards for Leadership in Industrial Energy Efficiency have combined to save enough energy to power nearly 1,000 Idaho households for an entire year.
- State buildings in the Capitol Mall area are benchmarked using a program called Portfolio Manager; this will support future tracking of energy efficiency measures.
- The Idaho K-12 Energy Efficiency Project demonstrated that school districts can save both energy and taxpayer money through energy efficiency measures.



### What energy efficiency resources are available?

The Idaho Office of Energy Resources and your local utility are great places to learn how you can increase the energy efficiency of your home, business or facility. Visit the OER web site for a complete list of Energy Efficiency links at <http://www.energy.idaho.gov/energyefficiency/index.htm>.

### Find the ISEA Task Force Reports:

<http://energy.idaho.gov/energyalliance/d/Efficiency%20Packet.pdf>

[http://energy.idaho.gov/energyalliance/d/ee\\_and\\_c\\_report\\_2011.pdf](http://energy.idaho.gov/energyalliance/d/ee_and_c_report_2011.pdf)



**Lighting retrofit saves energy by replacing inefficient bulbs with more efficient bulbs.**

### Why should you care about Energy Efficiency?

1. **Consumers save money due to lower energy bills.**
2. **Keeps energy prices low due to delaying the need for new energy generation facilities.**
3. **Energy efficient homes are more comfortable as they reduce cold drafts and keep rooms an even, pleasant temperature.**



**Pressure testing ducts in a residential application to determine the air tightness of the envelope.**