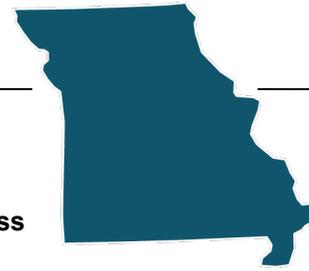


# Why Energy Codes Matter for Missouri



## Save Energy, Save Money

In Missouri, homes built to the current model energy code use **18-26 percent less energy** than the state average, saving their occupants **\$337-559 per year in lower utility bills**. That's money that goes directly to consumers' and companies' pockets.

And these savings add up. If all municipalities in Missouri adopted and enforced the model energy code statewide in 2011, the state would **save \$318 billion annually in energy costs by 2030. It would also avoid 26 trillion Btu of energy use annually by 2030.**

## Protect Occupants

**Everyone has a right to buildings that meets national standards for energy efficiency.** Builders must comply with energy codes as stringently as they comply with codes for life, health, and safety.

## Make a Cost-Effective Investment

Would you rather spend a few dollars more on a monthly mortgage or spend thousands on a retrofit down the line? **It's much more cost-effective to build to the model energy code** than try to improve efficiency later through expensive retrofits that do not achieve comparable savings.

Even when you factor in the additional upfront cost, when amortized over a standard mortgage, **Missouri homeowners will see net savings within the first year.** From there, they will **spend about \$28 to \$47 less on utility bills per month!**

## Help Make Informed Decisions

Knowing that a building is energy-efficient **empowers consumers and businesses to make informed decisions.** Before buying or renting, do your research. Ask the current occupants what they pay. If it's a new home, ask the builder about its energy efficiency—and then **make them show you how it meets code.**

## Reduce Pollution and Increase Reliability

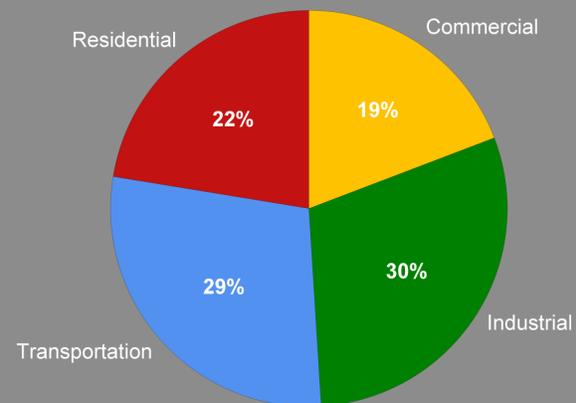
Most buildings waste energy needlessly, which **increases pollution and puts stress on the grid.** By adopting energy codes, Missouri would prevent 1.4 million metric tons of CO2 annually by 2030 .

## Provide Quality and Comfort

How do you know if a home or office is built well? **One way to measure quality construction is through energy efficiency.** Buildings that meet or exceed the model energy codes are built with the occupant's best interests in mind, which carry over to all facets of construction. **Energy-efficient buildings are also more comfortable and require less heating and cooling.**

Did you know that buildings account for **over 40 percent of total energy use in the United States?** That's more than either the transportation or industrial sectors.

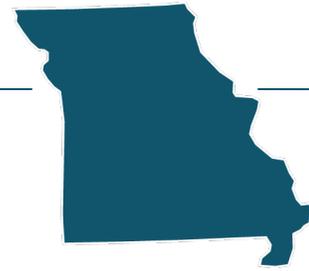
End-Use Sector Shares of Total Consumption, 2009



U.S. Energy Information Administration / Annual Energy Review 2009



# Missouri Costs and Savings: By The Numbers



## Energy Costs

Energy isn't cheap. Just look at the numbers:

- 95% Primary energy imported.
- \$20b Annual spending on energy statewide.
- 22% The rise in the cost of residential electricity in Missouri, 2004 to 2009.

By not adopting the model energy code, **Missouri residents spend billions** importing energy that could go back into the state economy. Why throw away a perfect opportunity to **put money back into the pockets of consumers and businesses?**

## Energy Code Savings

The savings from building to the model energy code are significant. Consider:

- 18-26% Energy savings in homes.
- \$337-559 Annual savings from reduced utility bills.
- 10-11% Energy savings and reduced utility bills in office buildings.

What's more, **these savings add up**. If all municipalities and counties in the state adopted and enforced the model energy code in 2011:

<b>\$318 million</b> Annual energy savings by 2030.	<b>18-26%</b> Annual utility bill savings for new homes.
<b>26 trillion</b> Btu of energy avoided annually by 2030.	<b>1.4 million</b> Metric tons of CO <sub>2</sub> prevented annually by 2030.



Sources: Energy and CO<sub>2</sub> savings calculated by BCAP's code estimator. Energy Savings estimates for homes and commercial buildings are sourced from DOE. Baseline energy consumption data sourced from EIA.