



BUILDING ENERGY CODES SAVE MONEY, STRENGTHEN COMMUNITIES, AND GROW THE ECONOMY

ANSI/ASHRAE/IES Standard 90.1, *Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings* (Standard 90.1) and ICC's *International Energy Conservation Code*® (IECC) are the nation's model energy codes for residential and commercial construction respectively. These energy codes are:

- Proven to be cost effective, delivering immediate savings for families and businesses without substantially increasing construction costs.
- Developed at zero expense to the taxpayer and are updated every three years.
- Provide federal agencies, states, and localities with ready-out-of-the-box tools.
- Improve occupant comfort and health, and building resiliency.
- Create industry wide consistency.
- Proven tool for lowering energy bills.
- Support U.S. jobs in construction, manufacturing, and design.
- Create jobs while lowering energy bills.

A WIN/WIN: WE CAN SAVE BILLIONS WITHOUT INCREASING CONSTRUCTION COSTS

The U.S. Department of Energy estimates that implementing of modern energy codes and standards will save the nation \$182 billion (cumulative 2010-2040).

- A national laboratory analysis found that ASHRAE Standard 90.1-2019 provided a strong return on investment compared to the 2016 version of the standard, with **immediate utility bill savings** being greater than any minor increases in construction costs for many building types.
- A national laboratory analysis found Standard 90.1-2022 showed **strong return on investment** compared to the 2019 version of the standard as well, with a short payback period of about six years for all building types.
- A national laboratory analysis on the 2024 edition of the IECC showed life-cycle cost **savings of almost \$3,000** for the average homeowner at an **initial cost of less than \$300** for single family homes.
- In many instances, **construction costs are expected to decrease with adoption** of a modern energy code or standard. This is in large part because better building insulation allows for a smaller (and less costly) HVAC system to be used to effectively condition the building.
- Homes built to modern energy codes are more comfortable, healthier, and more resilient against extreme weather.

THE BOTTOM LINE

Every dollar wasted on inefficient buildings is money leaving our communities. Every dollar saved through efficiency stays in American pockets, strengthens local economies, and strengthens our electric grid which keeps the lights on.