The IECC “Pays”

The Only I-Code That Pays For Itself in Cash . . . Then Keeps On Paying for 100 Years.
IECC Stabilizes Grids; Delays the Need For New Power Plants

The 2011 Prediction:
Continued savings of the magnitude of recent efficiency gains in building energy codes and appliance standards “will completely offset the anticipated growth in demand in the residential, commercial, and industrial sectors combined, eliminating the need for additional power plants to serve these sectors through 2025.”

_Institute for Electric Efficiency White Paper  May 2011_

The 2014 Evidence:
“Improvements in energy efficiency for buildings & appliances appear to have broken the traditional connection between electricity demand & economic growth.”

_Duke Energy CEO Lynn Good, 1/6/2014 Financial Times interview_
IECC IS A LIFE SAFETY CODE

• IECC, IgCC: Part of ICC’s Resiliency Initiative

• SWEEP/MEEA Analyses: IECC IS a Life-Safety Code
  – Moisture Management
  – Indoor Air Quality
  – Fire Safety
  – Thermal and Air Barriers
  – Strong Envelope Performs Best in Extreme Weather
  – Tighter Construction/Better Windows Help in Storms

• If You Haven’t Seen It Yet – See SMC Chair Greg Johnson’s Presentation: “Green Building Codes Are Life Safety Codes”

Signed by Both Presidents Bush after strong bipartisan passage by Congress

2009: All 50 states cash billions in ARRA $ in exchange for:

1. Adopting 2009 IECC & ASHRAE 90.1 2007 or better
2. Implementing a plan to achieve 90% compliance with 2009 IECC or equivalent by 2017
The ONLY I-Code That Pays for Itself

... And then Some

- 2012/2015/2018 – Unfortunately all about the Same – Put $4,763 - $33,105 in Homeowner Wallets Over 1st 30 years

<table>
<thead>
<tr>
<th>IECC Climate Zone</th>
<th>30-Year Life-Cycle Savings ($US)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IECC 2009 vs. 2006</td>
</tr>
<tr>
<td>1</td>
<td>$2,877</td>
</tr>
<tr>
<td>2</td>
<td>$2,443</td>
</tr>
<tr>
<td>3</td>
<td>$1,944</td>
</tr>
<tr>
<td>4</td>
<td>$2,259</td>
</tr>
<tr>
<td>5</td>
<td>$2,466</td>
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<tr>
<td>6</td>
<td>$3,094</td>
</tr>
<tr>
<td>7</td>
<td>$3,622</td>
</tr>
<tr>
<td>8</td>
<td>$9,147</td>
</tr>
</tbody>
</table>
The IECC Solve Big Hairy Problems

- National Energy Policy
- Making Homes & Commercial Buildings More Affordable AFTER Purchase
- Most Cost-Effective & Impactful Way to Reduce Carbon Emissions
America’s Homes & Commercial Buildings use:

- 42% of all energy
- 54% of natural gas
- 71% of electricity

... And account for 39% of US manmade GHGs
AFTER MORTGAGE, PRINCIPAL & INTEREST, ENERGY IS THE HIGHEST COST OF HOME OWNERSHIP

Average U.S. Homeowner Costs
The IECC Bridges Chasms

- Between Home Buyers and Builders
- Between Ratepayers & Utilities
- Between Tenants & Landlords
Nine out of ten buyers would rather buy an energy-efficient home... and they are willing to pay up to 3% more!

(Source: National Association of Home Builders)
For Home Buyers, Paraphrasing Hamlet, “Here’s the Rub”

NW Survey: Home buyers believe the home they’re buying is meeting the most current energy efficiency and safety codes.

Very few home buyers are involved in their home design, even fewer in measures boosting its safety and efficiency. By the time we buy, those features are set.
Can You Spot Which Home Is More Efficient?

No evident difference to a new homebuyer, but . . .

Actual Michigan Homes . . . Just a Few Hundred Yards Apart
These Homes Look – And Are – Identical . . . Except for the IECC They Meet!

No evident difference to a new homebuyer, but . . .

2006 IECC

2012/2015/2018 IECC

This House Cost $1,250 More
...Far Less Than 2-3%!
Which Home Would You Choose?
Better Codes = Better Homes

38% more efficient

$10,081 in energy savings over a typical 30-year mortgage after fully recouping $1,250 added cost.

Savings will continue to accrue over the home’s 100-year life

2012/2015/2018 IECC
And As Ratepayers or Tenants, We Have Absolutely No Say

All building owners are ratepayers, but they can’t tell utility we’re going to shop around, yet at an average of around $2,000/year, our home will cost its owners over $200,000 over its century long-life.

For landlords who can pass energy costs through to tenants, a building energy code is the principal incentive to constructing efficient rental properties.
Building Energy Codes Reduce CO2 Emissions
EECC’s CO2 Calculator is an easy to use, but extremely powerful tool that determines the carbon saved based on:

• Climate Zone
• Current IECC Version in Force
• Code Compliance %
THAT SAID, IECC IS THE BANK FOR LIFE SAFETY CODES

• The entire suite of I-Codes is essential – together they address all of our nation’s needs
• Within that suite, only the IECC generates thousands of dollars of homeowner savings that not only pay for its efficiency elements, but help recoup costs for fire and safety codes to boot.
# of Votes Available to Local Gov’ts: 
>100,000 votes

Most # of Votes Cast on an IECC Proposal: 
~500 votes

Your votes can make a big impact.
Long-Term Goal: A Glide Path to Climate Goals

Aiming for a 10% boost in 2021 IECC, followed by 5% every code cycle afterward to help achieve:

- Affordable Homes & Commercial Buildings
- Stabilized Utility Costs and Grids
- US Energy Independence and Security
- Net Zero Building Construction by 2050
- Meet Paris Climate Targets
The IECC is America’s “Most Public Secret”

Only Governmental Officials Can Vote to Update the IECC

Of the More than 100,000 Potential GMVRs, Fewer than 500 Voted on the Last IECC Update

First Deadline Approaching: Governmental Memberships Must Be Paid by March 23\textsuperscript{rd} to Ensure Voting Eligibility
1. **JOIN ICC OR UPDATE YOUR MEMBERSHIP**
   - By March 29, 2019
   - Annual fees are $135 - $370 based on population

2. **REGISTER YOUR INDIVIDUAL VOTERS**
   - By September 23, 2019
   - 4-12 votes per membership. Multiple memberships per jurisdiction are possible.

3. **VOTE**
   - Online voting in November 2019
   - Voting guide forthcoming.
## Prominent Code Proposals

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A Golden Opportunity: Small Steps, Big Results

Easy, Small Steps: Big Results

By March 29, 2019
Identify Multiple Memberships
Each Government Member Joins/Renews ICC;
Designates a “Primary Representative”

By September 24, 2019
Each Primary Rep submits 4, 8, or 12 voter rosters to ICC
Assign staff to ensure votes get cast

November 2-Week ICC Voting Window
Cast your City’s maximum online votes!

Moderate Steps: Big Results

April 23 – May 8, 2019
ICC Committee Action Hearings, Albuquerque
Send 1-2 officials to testify in support of proposals that boost efficiency

October 23 – 30, 2019
ICC Public Comment Hearings, Las Vegas
Send 1-2 officials to testify and/or vote
### The Means to Succeed

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For More Information

• International Code Council (iccsafe.org)
  – Energy Code adopting agency
  – Join ICC to become eligible to vote on code updates

• Energy-Efficient Codes Coalition (energyefficientcodes.org)
  – Factsheets and FAQs
  – Energy Codes Carbon Calculator
  – Voting Guide (available this fall)
THANK YOU!

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