

Advanced Building Energy Efficiency Policy Task Force (ABEEP) Meeting

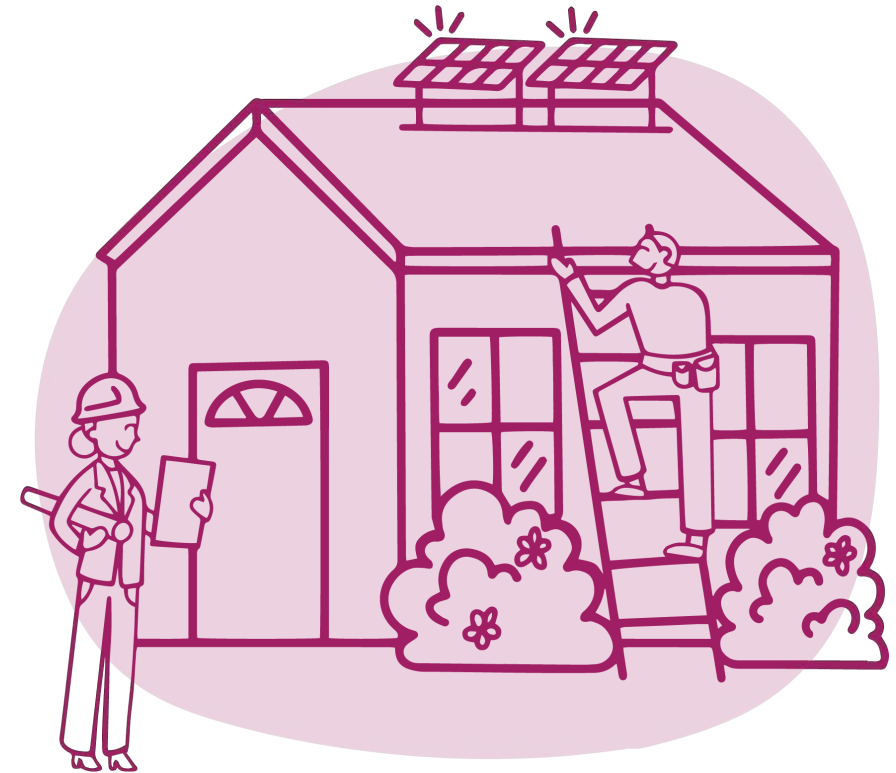
Building Energy Policies and Municipal
Opportunities in Illinois

May 2, 2024



Agenda

- Introduction
- Community Updates
- Robert Coslow, Professional Services Administrator, Illinois Capital Development Board
- Chris Dillion, President, Campbell Coyle
- Federal Funding Opportunity
- Questions / next steps





Project background

Project Background

Our Approach

- Engage with municipalities to assist with the adoption and implementation of advanced building policies
- Develop utility-funded support programs that help municipalities successfully implement policies
- Develop savings and attribution methodologies that follow market transformation protocols

Our Team

Slipstream, MEEA, MMC with funding support from ComEd



Advanced Building Policies Overview

Stretch codes

Target: New Buildings

Alternative compliance path that defines a higher level of energy efficiency

Benchmarking and Building Performance Standard (BPS)

Target: Existing buildings

Focus on improving existing building stock through setting targets for efficiency upgrades



One-on-One Municipality Updates

1-on-1 Assistance

Goals

- Provide technical assistance directed at each city's circumstances
- Help drive forward adoption of stretch code and BPS

Requirements

- Recurring meetings at cadence that works for each city
- Consider the policies in earnest with no need to commit

1:1 Municipal Engagement

Engaged Municipalities

- Broadview
- Chicago
- Downers Grove
- Elgin
- Evanston
- Naperville
- Northbrook
- Oak Park
- Skokie

Examples of Technical Assistance

- Town Hall or public meeting presentations and material support
- Internal presentations on stretch code details
- Analysis of building data to estimate savings
- Comparison of stretch vs. base code
- Benchmarking “data jam” facilitations



Illinois Energy Code Update



Presented by

Robert Coslow
Professional Services Administrator
Capital Development Board

Illinois Stretch Energy Code

Mandated by Public
Act 102-0662 Energy
Transition Act
formerly CEJA

Modified the Energy
Efficient Building
Act (20 ILCS
3125/55) to require a
Stretch Energy Code.

Stretch Code

Energy Efficient Building Act (20 ILCS 3125/55)

- Creates an optional, more stringent code that municipalities can adopt to achieve more energy efficiency than the Illinois Energy Conservation Code through a consistent pathway across the State.
- Shall be available for adoption by any municipality, taking the place of the Illinois Energy Conservation Code.
- Shall have separate components for commercial and residential buildings, which may be adopted by the municipality jointly or separately.

Illinois Stretch Energy Code Requirements

Commercial Buildings

- By 6/30/24 must have a site energy index no greater than .60 of the 2006 IECC.
- By 12/31/25 must have a site energy index no greater than .50 of the 2006 IECC.
- By 12/31/28 must have a site energy index no greater than .44 of the 2006 IECC.
- By 12/31/31 must have a site energy index no greater than .39 of the 2006 IECC.

Residential Buildings

- By 6/30/24 must have a site energy index no greater than .50 of the 2006 IECC.
- By 12/31/25 must have a site energy index no greater than .40 of the 2006 IECC.
- By 12/31/28 must have a site energy index no greater than .33 of the 2006 IECC.
- By 12/31/31 must have a site energy index no greater than .25 of the 2006 IECC.

Illinois Commercial Stretch Energy Code

Commercial is based on 2024 IECC

- Allows PHIUS as a compliance path
- Renewable Energy Requirement
- EV readiness
- Electric readiness in R-2
- Heat pump incentives in exist buildings
- ASHRAE 90.1 alignment with IECC

Illinois Commercial Stretch Energy Code

2024 IECC Final Draft vs Final Version

- Appealed items moved to appendices in IECC Final Version remain in the main body of the Stretch Code.
- C406.1.1.1 Requires buildings w/o heat pumps to get 25% more credits.
- C403.4.6 Demand responsive controls.
- C405.14 EV charging infrastructure.
- C405.16 Energy storage system readiness.

Illinois Residential Stretch Energy Code

Residential is based on 2021 IECC

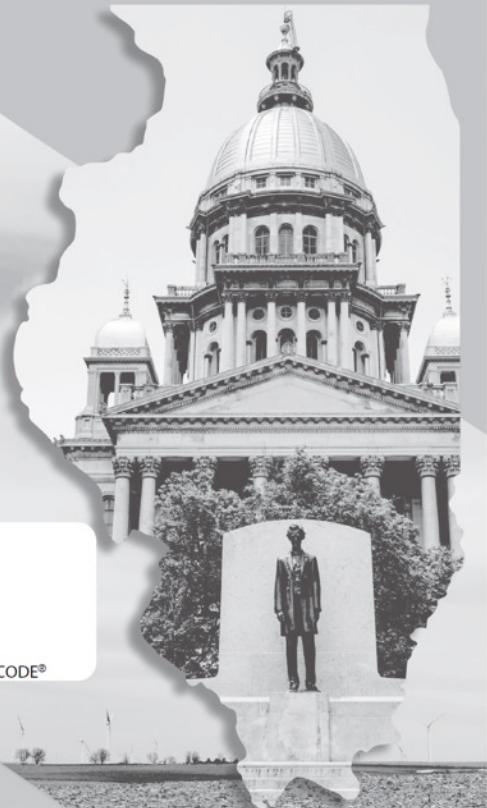
- Allows PHIUS as a compliance path
- Electric readiness
- Renewable energy readiness
- Heat pump incentives
- Demand response thermostats

Illinois Residential Stretch Energy Code

Cost Effective Analysis

- The resulting analysis shows that the proposed code is cost-effective, yielding short-term and long-term consumer benefits when homes are built to the stretch code as compared to the 2021 IECC. Over the course of 30 years, a homebuyer will net approximately \$2,355 in life-cycle energy cost savings as well as \$6,474 in avoided future retrofit costs for the electrified technologies, resulting in a total life-cycle cost savings of \$8,829.
- Visit CDB website for full report.

2023



ILLINOIS

STRETCH ENERGY CODE

BASED ON THE INTERNATIONAL ENERGY CONSERVATION CODE®



ICC to Publish Stretch Code
online and print versions

Illinois
Stretch
Energy Code



DOE is working on a custom IL Stretch Code version of REScheck targeted for end of this year and COMcheck for 2025.

Illinois Stretch Energy Code

Status

- Currently in rulemaking process
- Public comment period
- Should be effective by year end



Questions?



**Chris Dillion,
Campbell Coyle**



Introduction to Federal Funding Opportunity

Designing & Implementing Building Performance Standards in Small, Rural, and Justice40 Communities

- **Technical Assistance**
 - Receive support on how to add administrative capacity to implement the policy, engage stakeholders, support local job growth, and more.
- **Peer-to-Peer Exchange**
 - Engage with other communities to help inform efforts, identify needs
 - In-person and Virtual meetings
- **Software Access**
 - Access to the BEAM platform to help implement the policy



This Project is supported by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE) under the Building Technologies Office - DE-FOA-0002813 - Bipartisan Infrastructure Law Resilient and Efficient Codes Implementation



Next steps

Next steps

- Stay tuned for follow-up from MMC with resources
- Next ABEEP meeting later in summer or early fall
 - Focus on stretch code next steps
 - Program support next steps
- Always looking for more communities interesting in 1:1 assistance

Interested in finding out more about energy codes or policies?



Jeannette LeZaks
Slipstream

jlezaks@slipstreaminc.org



Alison Lindburg
MEEA

alindburg@mwalliance.org