

What energy codes and standards does your state or municipality use?

Energy codes and standards are updated every three years



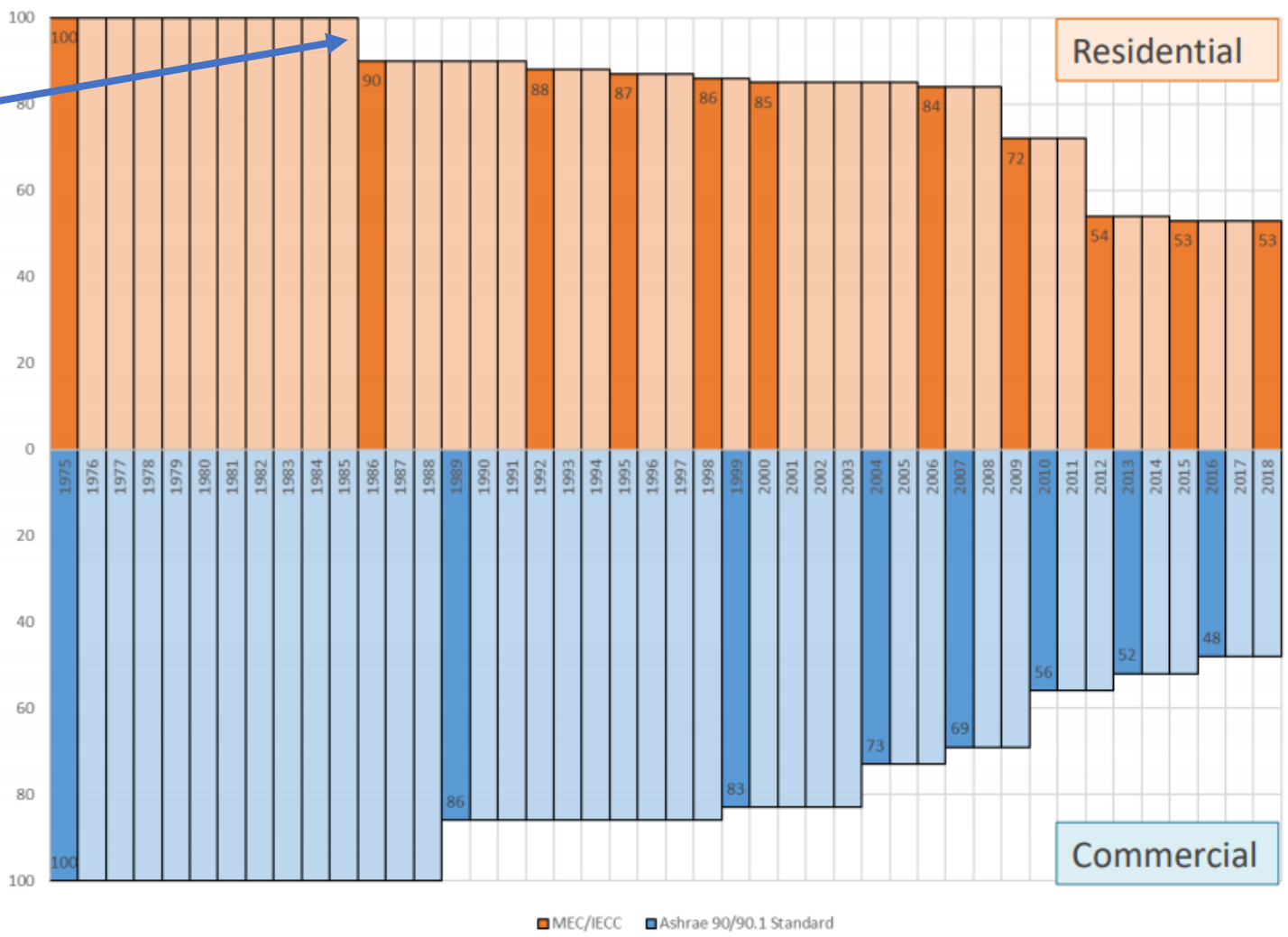
ASHRAE 90.1 began in 1975 and is updated every 3 years. The latest edition was published in 2019.



The IECC was created in 2000 and has been updated every 3 years. The latest edition was published in 2021

Energy consumption is gradually reduced each code/standard cycle.

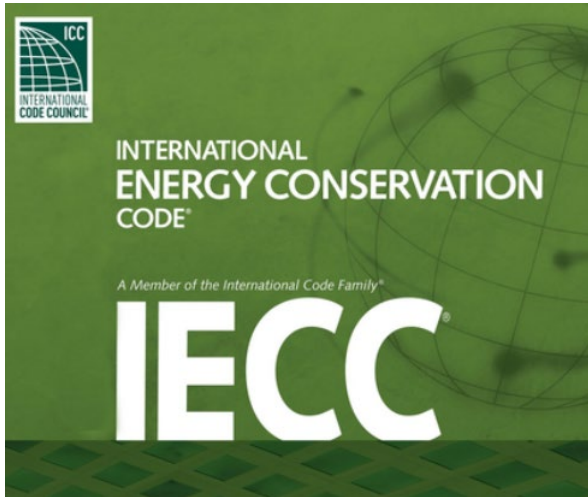
Baseline energy consumption in 1985 for model residential home



Baseline energy consumption in 2018 for model residential home

Building energy codes are administered on the **state or local level**

Three basic options:



Adopt/amend the model national code: IECC

or



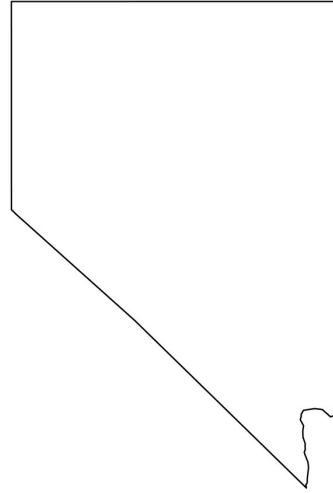
Use ASHRAE 90.1, 90.2 Standard as basis for state or local code

or



Create state-specific energy code

Some states adopt/amend the IECC



Illinois and Nevada have adopted the 2018 IECC with amendments.

Hawaii has adopted the 2015 IECC with amendments

Some states base their code on ASHRAE standards



Oregon uses
ASHRAE 90.1-2016 for
commercial



Maine uses ASHRAE 90.1-2007
(though only municipalities
over 4,000 in population are
required to enforce their code)

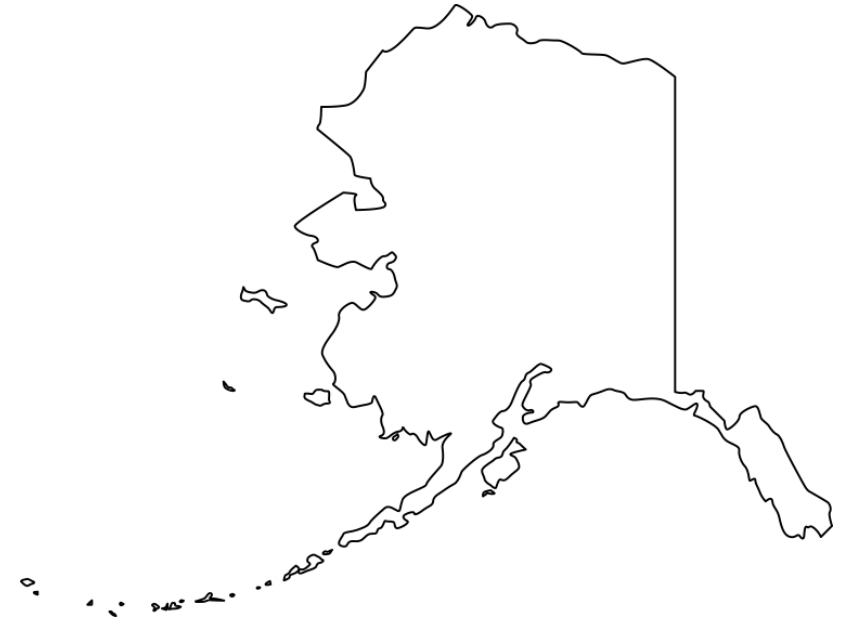
A few states do their own thing



California has its own energy code that is stricter than the IECC or ASHRAE 90.1



Colorado requires local jurisdictions to adopt one of the 3 most recent IECC versions



Alaska has no mandatory code, but does have a standard based on 2012 IECC and ASHRAE 90.1-2010, with amendments

Many states and municipalities have amendments to the model codes and standards

Illinois has amendments to the IECC

SECTION C405 ELECTRICAL POWER AND LIGHTING SYSTEMS

C405.1 General (Mandatory). This section covers lighting system controls, the maximum lighting power for interior and exterior applications and electrical energy consumption.

No less than 90% of the permanently installed lighting serving dwelling units shall be provided by lamps with an efficacy of not less than 65 lm/W or light fixtures with an efficacy of not less than 55 lm/W, or with Sections C405.2.4 and C405.3. Dwelling units within multifamily buildings shall comply with Section R404.1. All other dwelling units shall comply with Section R404.1, or with Sections C405.2.4 and C405.3. Sleeping units shall comply with Section C405.2.4, and with Section R404.1 or C405.3. Lighting installed in walk-in coolers, walk-in freezers, refrigerated warehouse coolers and refrigerated warehouse freezers shall comply with the lighting requirements of Section C403.10.1 or C403.10.2.

The City of Chicago has also made amendments to the IECC



Residential Compliance Statement 2019 CHICAGO ENERGY CONSERVATION CODE

Application Details

* Project Address

* Permit Application Number

Certification of Compliance with Energy Conservation Code and Solar Reflectance Requirements

To the best of my knowledge, belief, and professional judgment, all work shown in the construction documents for this application is:

- In compliance with the residential requirements of the 2019 Chicago Energy Conservation Code, as detailed below.
- Exempt from the energy conservation requirements of the 2019 Chicago Energy Conservation Code as: [\(select one\)](#)
 - The reconstruction or renewal of any part of an existing building for its maintenance or to correct damage. (No alterations or additions)
 - The alteration, relocation, or change of occupancy of a historic building, and the report required by Section R501.6 is attached to this statement.

Roof coverings, if any, in this application comply with the solar reflectance requirements of the Chicago Building Code (Sec. 1515).

Additionally, the construction documents submitted with this application comply with the specific requirements of the Chicago Energy Conservation Code and the general requirements of the Chicago Construction Codes Administrative Provisions (Title 14A).

I have notified the permit applicant of the requirements to perform post-construction air-leakage testing in Section R402.4.1.2 and duct testing in Section R403.3.3, if applicable.

* Signature

* Date

* Professional Seal

* Printed Name

* Illinois License Number

* Compliance Method

- REScheck (Recommended)** [Visit www.energycodes.gov/rescheck for more information.](http://www.energycodes.gov/rescheck)
A REScheck compliance certificate demonstrating the project's compliance with IECC-2018 is attached to this statement. Complete and accurate information about the project was entered into REScheck.
- Prescriptive Path**
A report or narrative substantiating how the project complies with the prescriptive requirements of the Energy Conservation Code, including Sections R401, R402, R403 and R404 is attached to this statement.
- Simulated Performance Method**
The project complies with Section R405 and the provisions of Sections R401 through R404 labeled "mandatory." A compliance report meeting the requirements of Section R405.4.2.1 is attached to this statement.
- Energy Rating Index**
The project complies with the provisions of Sections R401 through R404 labeled "mandatory" and Section R403.5.3. A pre-construction compliance report meeting the requirements of Section R406.6.2 is attached to this statement. Proof that the permit applicant has hired a third party to provide a post-construction energy rating is also attached to this statement.

How can I find out what code my state uses?

<https://www.energycodes.gov/status-state-energy-code-adoption>

State Adoption


Select a state for more detail on the status of its energy codes:

Illinois

Commercial Residential Code Change

Current Code: 2018 IECC with Amendments

Amendments / Additional State Code Information: [Illinois-specific amendments](#) 

Effective Date: Jul. 01, 2019

Adoption Date: Jun. 11, 2019

Code Enforcement: Mandatory

Does my municipality have separate code or amendments? Hint: Look up the municipal building department



Energy Conservation Requirements

The 2019 Chicago Energy Conservation Code (Title 14N of the Municipal Code), based on the 2018 edition of the *International Energy Conservation Code* applies to permit applications started on or after June 1, 2019. Solar reflectance requirements for roof coverings also apply and are found in Section 1515 of the Chicago Building Code (Title 14B).



Energy Conservation Code

The New York City Energy Conservation Code (NYCECC) is comprised of New York City local laws and the current Energy Conservation Construction Code of New York State (ECCCNYS). By State law, all local government energy codes, including the NYCECC, must be more stringent than the ECCCNYS.