Construction Codes Advisory Council





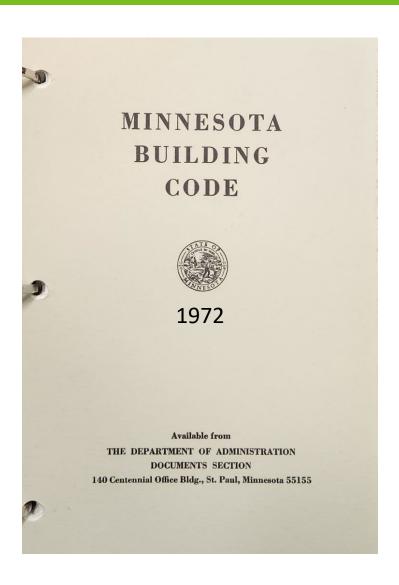


Deputy Commissioner Kate Perushek
Department Update

Scott McLellan Division Update



50-years of the State Building Code



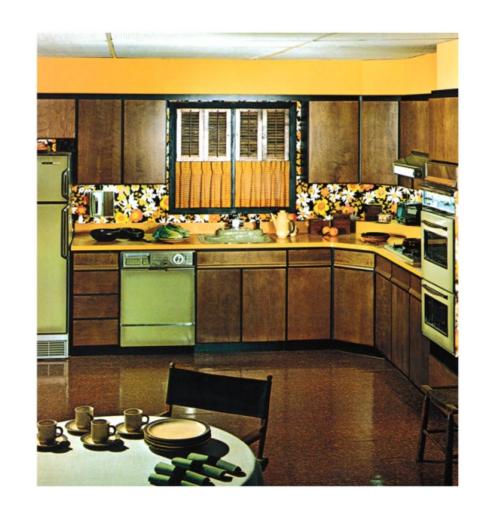
The State Building Code is 50!

July 1, 2022, marked the 50-year anniversary of the first State Building Code.

50-years of the State Building Code

Highlights from 50 years ago in 1972

- Median new home cost was \$29,000 versus \$471,200 today
- 35,500 new single-family homes built versus 63,000 in 2022
- Gas was 39 cents per gallon versus
 \$3.27 today
- Median income was \$12,000 versus \$71,000 in 2022

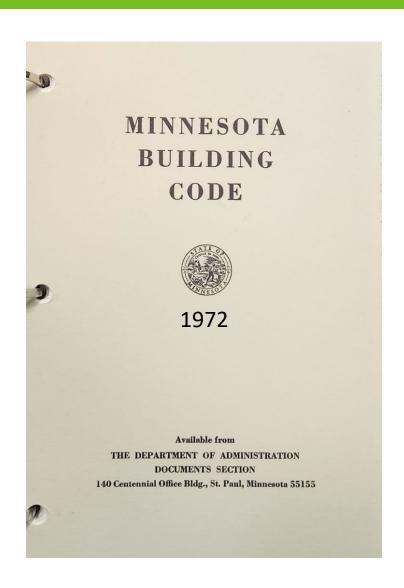


50-years of the State Building Code – Past, Present, & Future Continuing the Vision!



THE STATE BUILDING CODE, 1972-2022 Celebrating 50 years of building safety in Minnesota

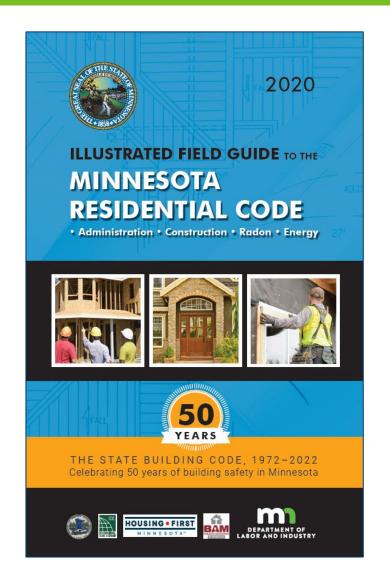
50-years of the State Building Code



- 50-year-old technology
- Could we do better?
- Something more than words on paper

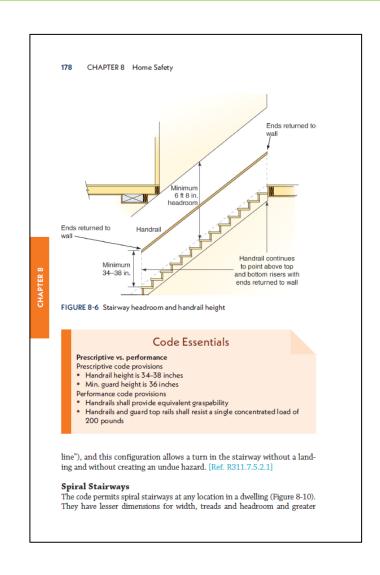
Illustrated Field Guide to the MN Residential Code

- Useful Minnesota specific amendments
- Communicate clearly
- Practical compact and durable
- Accurate
- Benefit inspectors, homebuilders, remodelers, deck-builders, siders, roofers



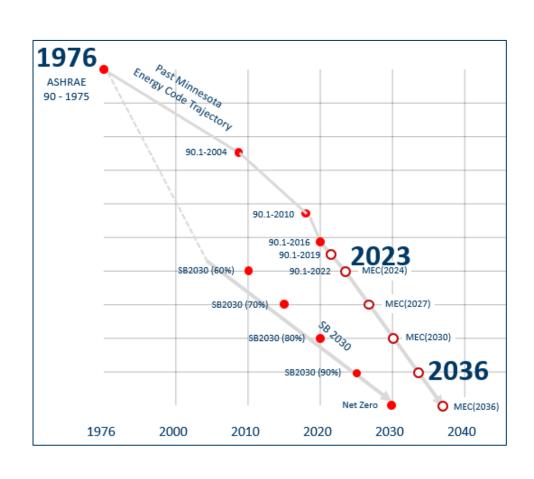
Illustrated Field Guide to the MN Residential Code

- Simplify code compliance
- Minimize misunderstandings
- Eliminate common code controversies
- Level playing field for contractors



Scott McLellan Old Business – Proposed DLI Legislation





Commercial Energy Code

Issue: At the current rate, Minnesota will not achieve its goal for new construction to be net-zero by 2036.

Proposed resolution: Maximize energy efficiency in new and remodeled buildings by accelerating and enhancing adoption of new commercial energy codes by 2036.

EV Charging Stations



Issue: One of the largest barriers to electric vehicle purchases to assist in reducing greenhouse gas emissions is the lack of available charging stations.

Proposed resolution: Add scoping requirements in law to be able to include charging stations in code.

Window Cleaning Safety

Issue: Current statute requires window cleaning anchors on all buildings, four or more stories in height, regardless if they can be accessed for use by suspended window washers.

Proposed resolution: Permit <u>all</u> nationally recognized safe window cleaning methods through the building code.



Assisted Living

Issue: Current statute does not allow code enforcement of assisted living facilities in non-codes areas.

Proposed resolution: Amend definition of state licensed facilities to include assisted living facility and assisted living facility with dementia care.



Boiler Inspections

Issue: Current exceptions are identical for both hot water supply boilers and industrial water-heaters. These are two distinctly different devices that operate at much different temperatures.



Proposed resolution: Define hot water supply boilers and potable water heaters by their respective temperature limits and the lower input of 200,000 BTU/HR. This would match current requirements of the National Boiler Inspection Code.

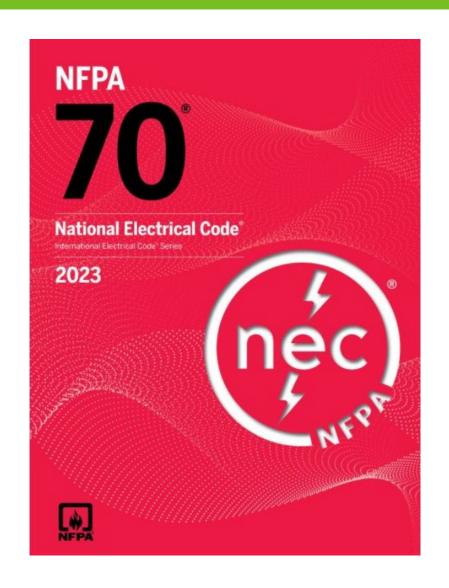
Licensing

- Allow for the refund of Contractor Recovery Fund fee if a residential building contractor license is not renewed <u>or issued</u>.
- Change wait time for individuals who fail a license exam to 30 days from date of failed exam instead of from date mailed.
- Reduce the reinstatement fee from \$100 to \$50 after license suspension or revocation to \$25 if voluntarily terminated.
- Clarify when a license is required for building or improving homes for resale or speculation.

Scott McLellan New Business – Code Updates



Code Updates



NEC 2023

- On Jan. 31, the Board of Electricity accepted their sub-committee's recommendation to adopt the 2023 NEC without amendments.
- The NEC 2023 will become effective July 1, 2023.

Code Updates

STANDARD

ANSI/ASHRAE/IES Standard 90.1-2019

(Supersedes ANSI/ASHRAE/IES Standard 90.1-2016) Includes ANSI/ASHRAE/IES addenda listed in Appendix I

for Buildings Except Low-Rise Residential Buildings (I-P Edition)

See Appendix I for approval dates by ASHRAE, the Illuminating Engineering Society, and the American National Standards

This Standard is under continuous maintenance by a Standing Standard Project Committee (SSPC) for which the Standards Committee has established a documented program for regular publication of addenda or revisions, including procedures for timely, documented, consensus action on requests for change to any part of the Standard. Instructions for how to submit a change can be found on the ASHRAE® website (www.ashrae.org/continuous-maintenance).

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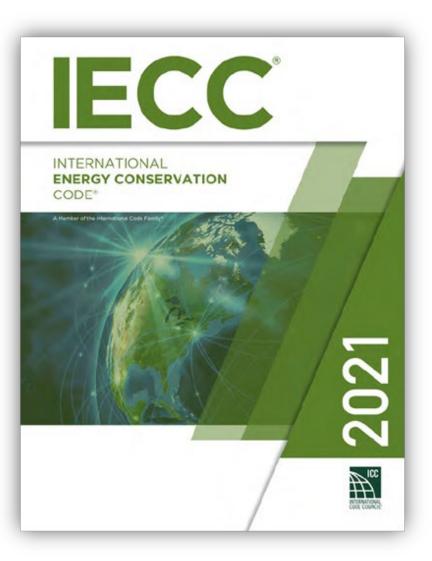




New Commercial Energy Code

- The proposed rule will be adopted in March 2023 and become effective in November 2023.
- This will adopt ASHRAE 90.1-2019 with amendments and replace the commercial portion of the IECC.
- The department is working with NW Pacific Labs to create a custom Comcheck for Minnesota to simplify compliance.

Code Updates



New Residential Energy Code

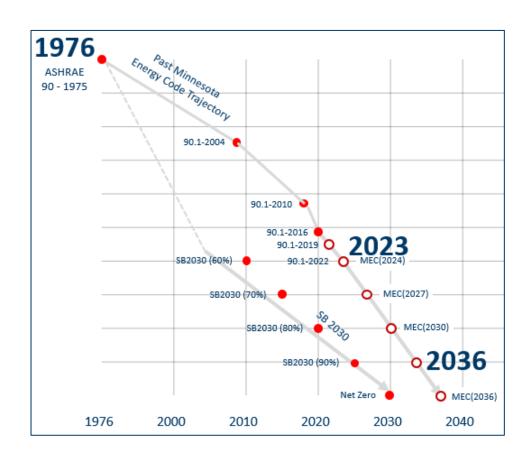
- A public hearing was held on Aug. 23 re adopting the 2021 IECC (Residential Code)
- The administrative law judge issued a report stating that the record could support adopting the 2021 IECC or waiting for the 2024 edition.
- The commissioner has made the decision to explore and review the appropriateness of adopting the 2021 IECC in consultation with the Construction Codes Advisory Council.

New Business – Proposed Legislation



Proposed Legislation – Commercial Energy Code – HF772 Chair McLellan

Commercial Energy Code – Joint proposal with DLI



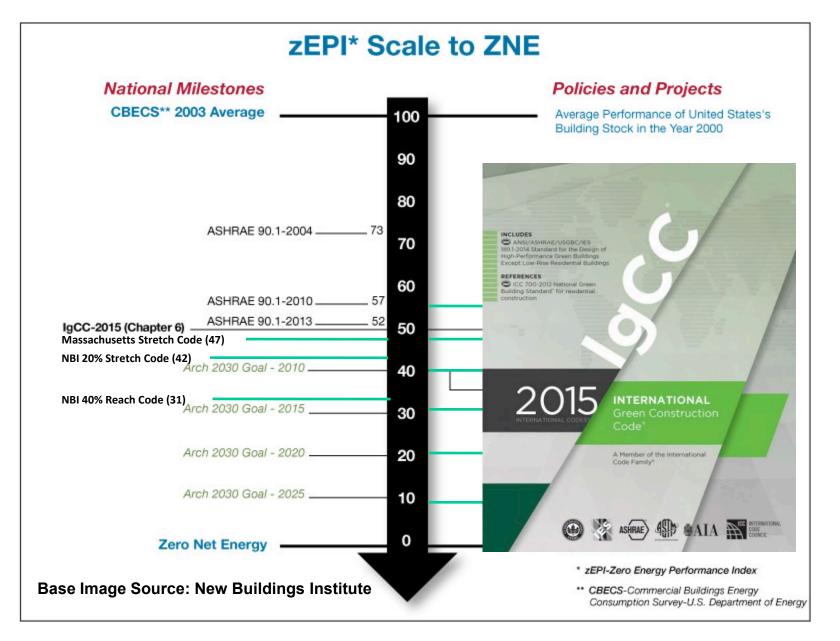
Issue: At the current rate, Minnesota will not achieve its goal for new construction to be net-zero by 2036.

Proposed resolution: Maximize energy efficiency in new and remodeled buildings by accelerating and enhancing adoption of new commercial energy codes by 2036.

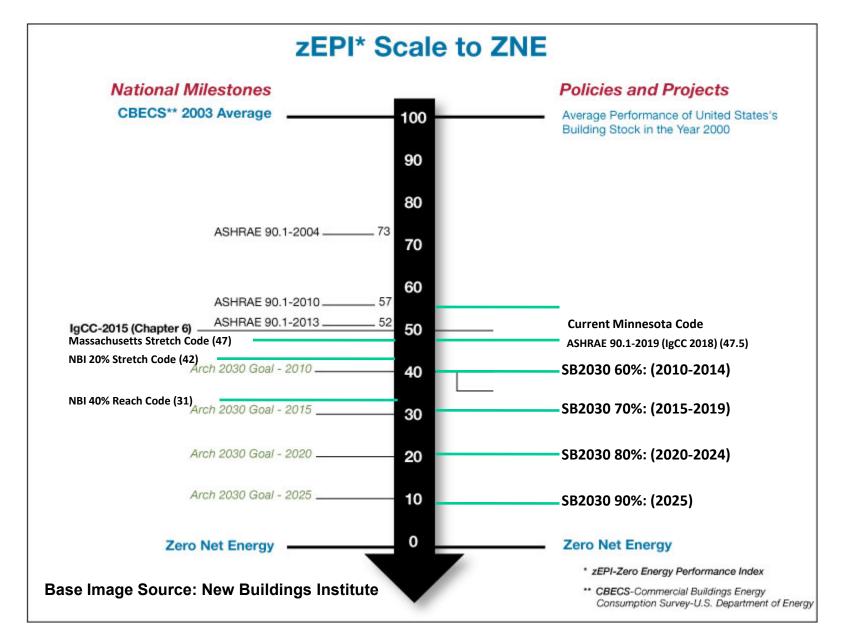
Proposed Legislation – Commercial Energy Code – HF772 Rep. Kraft

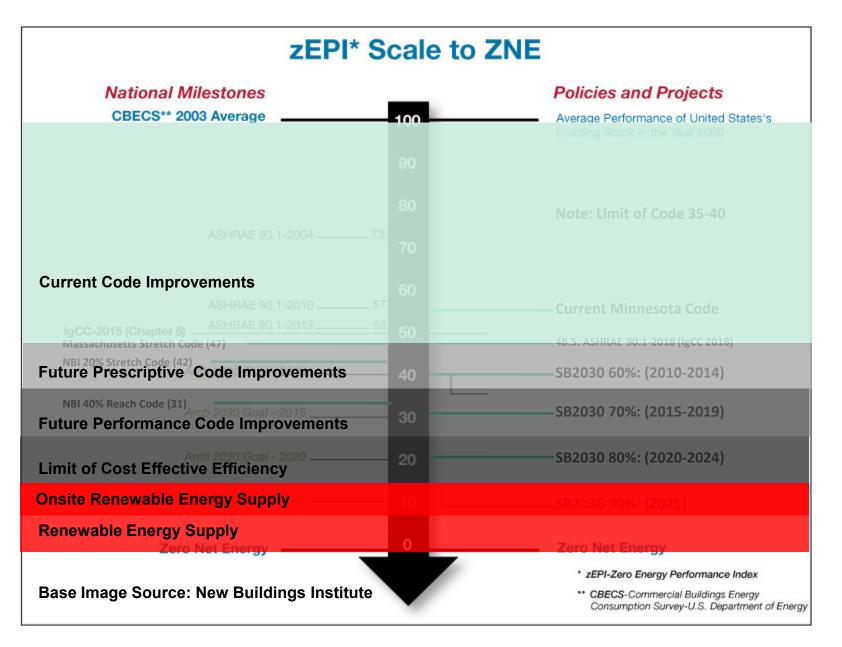
Commercial Energy Code – Joint proposal with DLI

- (d) ...The commissioner may adopt amendments prior to adoption of the new energy codes, as amended for use in Minnesota, to advance construction methods, technology, or materials, or, where necessary to protect the health, safety, and welfare of the public, or to improve the efficiency or use of a building or to mitigate the impact of climate change by increasing energy efficiency, improving resiliency, and reducing greenhouse gas emissions of new buildings and of existing buildings undergoing additions, alternations, and changes of use.
- (e) Beginning in 2024, the commissioner shall act on the new model commercial energy code by adopting each new published edition of ASHRAE 90.1 or a more efficient standard. The state energy code for commercial construction in effect in 2036 and thereafter must achieve an eighty percent reduction in annual net energy consumption or greater, using the ASHRAE 90.1-2004 as a baseline. The Commissioner shall adopt state energy codes for commercial construction from 2024 through 2036 that incrementally move towards achieving the eighty percent reduction in annual net energy consumption. The Commissioner shall report to the appropriate committee within the legislature its progress in January following each new code adoption.

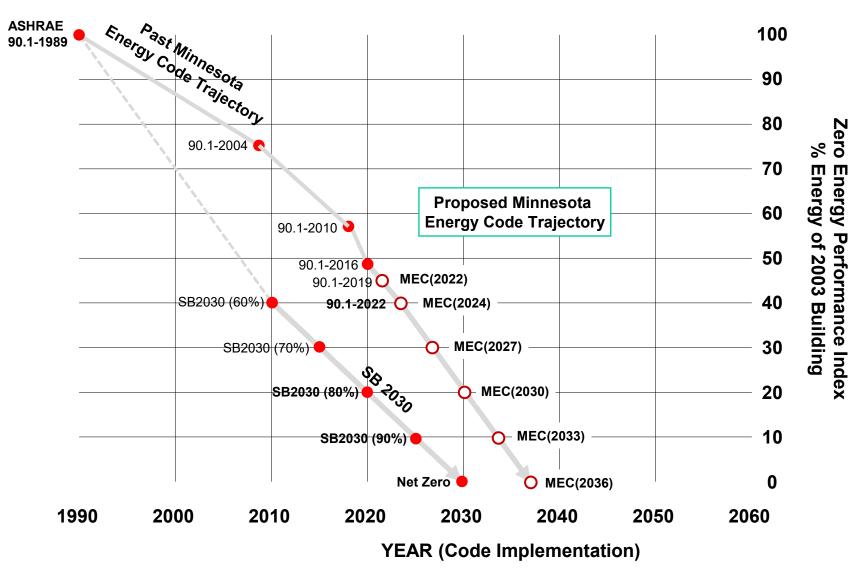


College of Design





Proposed Minnesota Energy Code Trajectory

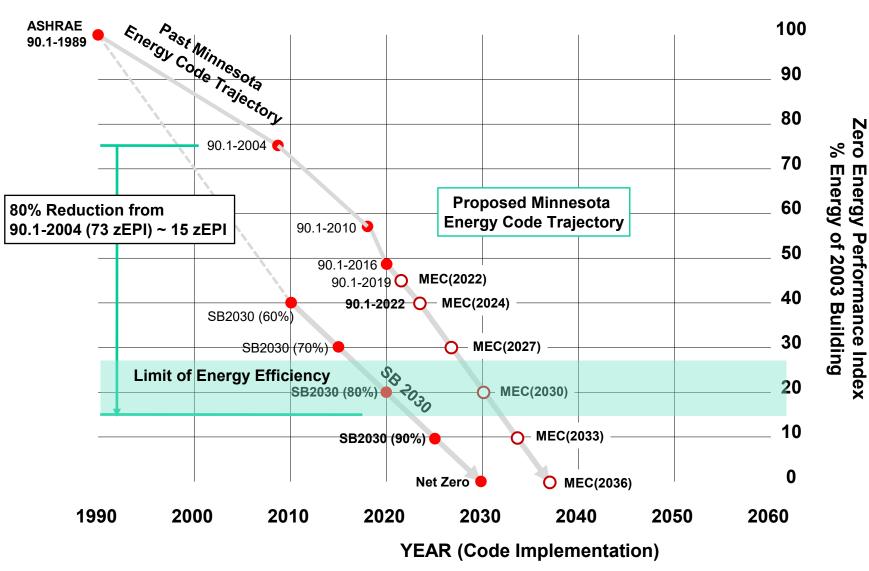


Based upon zEPI: Zero Performance Index for Energy Codes from the New Buildings Institute

Proposed Minnesota Energy Code Trajectory

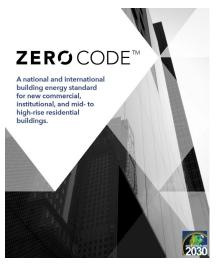
Zero

Performance Index

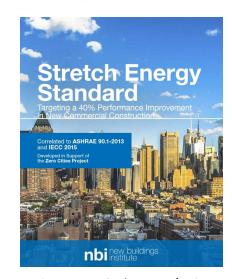


Based upon zEPI: Zero Performance Index for Energy Codes from the New Buildings Institute

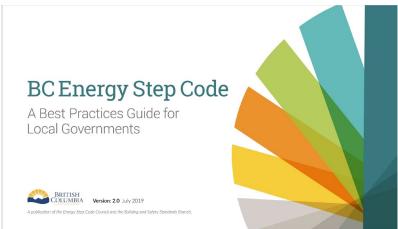
Other Programs



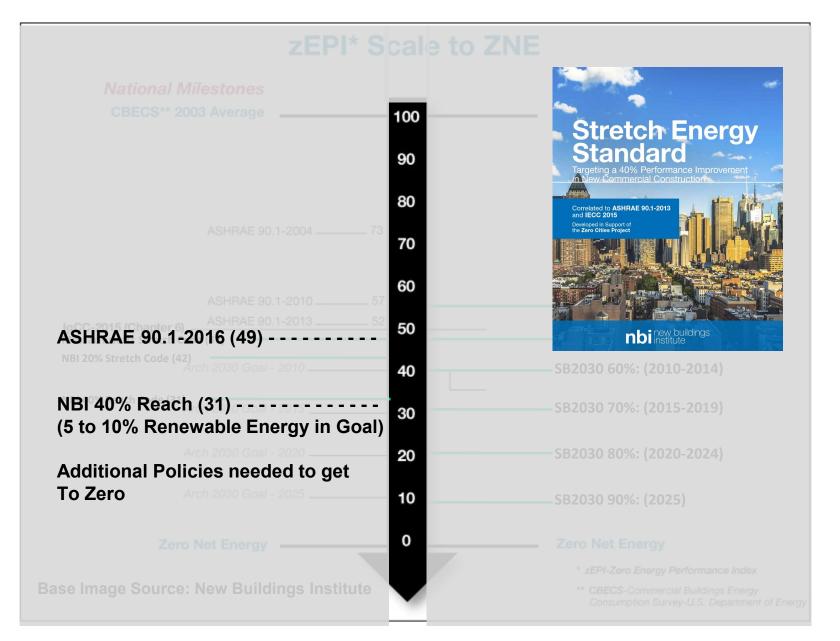
Architecture 2030 : Zero Code

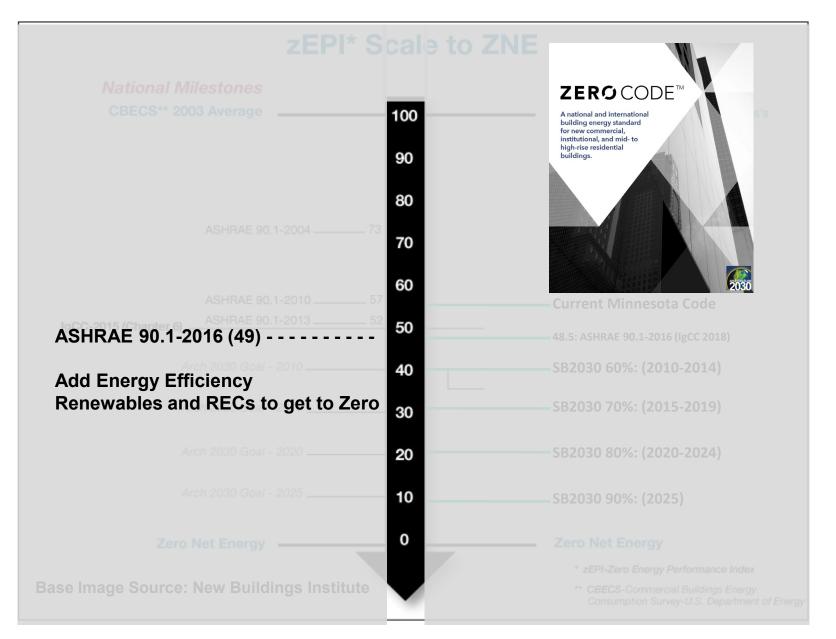


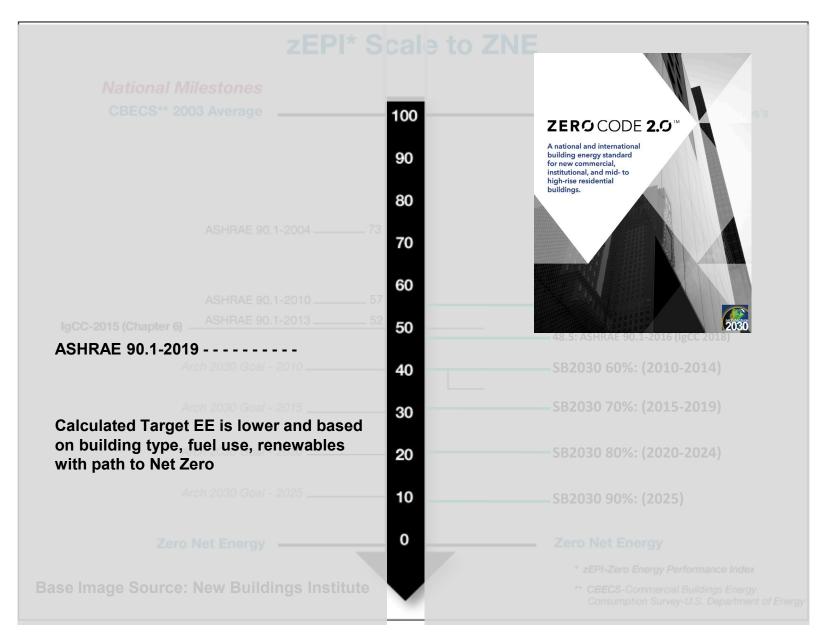
New Buildings Institute: 40% Reach Standard

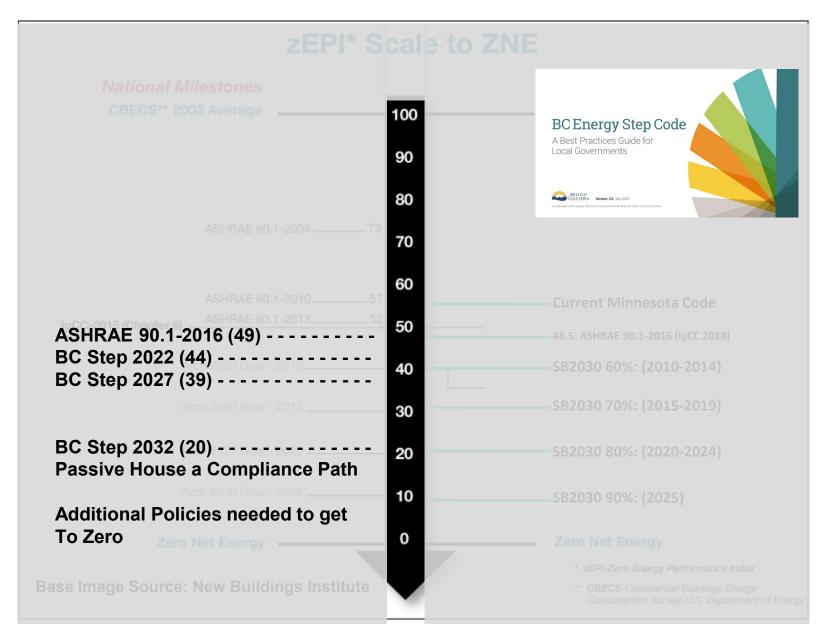


British Columbia: Step Code









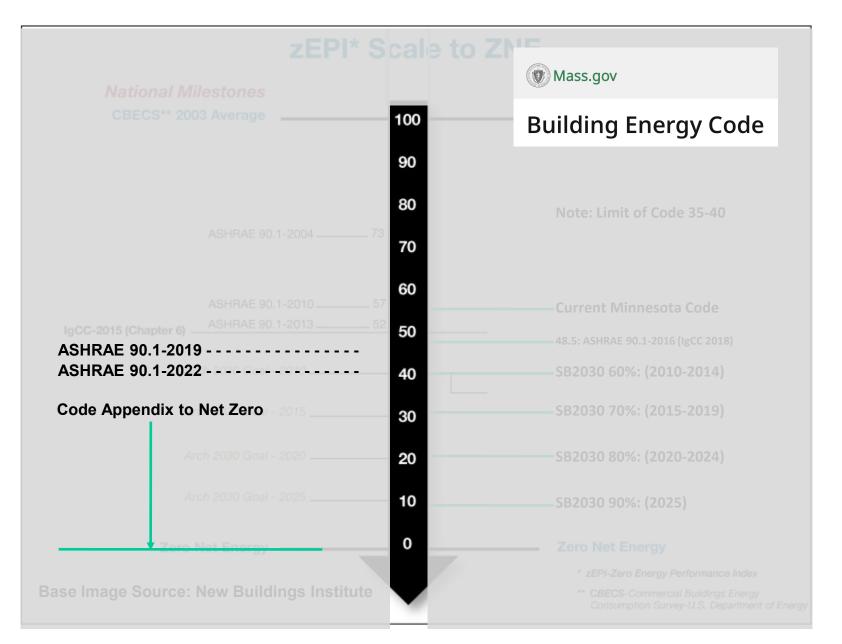
British Columbia Step Code

PATHWAY TO 2032: PART 3 (WOOD-FRAME RESIDENTIAL)



British Columbia Step Code

Timeline for Energy Efficiency Regulatory Requirements in the BC Building Code Here's what the province's CleanBC plan will mean for new-construction requirements. **NET-ZERO ENERGY-READY** 80% 2032 STEP 5 STEP 4 40% 2027* STEP 4 STEP 3 2022* STEP 3 STEP 2 Energy-efficiency improvement *NEW TIMELINES above 2018 BC Building Code BUILDINGS requirements



Massachusetts Energy + Stretch + Specialized Code

• **Updated Stretch Code** = IECC 2021 with MA amendments + Stretch Code amendments

Specialized Code Base Code Stretch Code (IECC 2021) ("Net-Zero") (2023 update) · New construction · New Construction · New construction in towns & cities in towns & cities in towns & cities not a green that are a green or that vote to opt-in community to this code stretch community 52 communities · Effective date: · 299 communities Typically 6-11 Expected from BBRS: Residential: Jan 2023 months after July 2023 Commercial: July 2023 Town/City vote

Current Energy Code Options

• **Specialized Code** = IECC 2021 with MA amendments + Stretch Code amendments + Specialized Code appendices

Proposed Legislation – Adult Changing Tables – HF981 Greg Metz

CCAC Review and Comment Legislative and/or Code Information Bill number(s) description (if applicable) - Attach Bill language SF 2536/HF 2135 Adult-Size Changing Facilities (n) Adult-size changing facilities. (1) The code must require the installation of adult-size changing facilities on each floor where there is a restroom accessible to the public. This requirement is met by providing adult-size changing facilities in either a unisex restroom or in both a men's restroom and a women's restroom. Adult-size changing facilities consist of: (i) an adult-size changing table in a private location; (ii) a supply of paper table liners and disinfectant wipes; (iii) an appropriately sized waste container for used supplies; (iv) nonslip flooring; (v) wall-mounted hooks and a shelf for a user's personal supplies; (vi) a chair for the user's attendant or caregiver; and (vii) signage indicating the presence of the adult-size changing facilities. (2) Adult-size changing tables must have a changing surface that: (i) is a minimum of 24 inches wide and 71 inches long; (ii) either sits at or is capable of being adjusted to a height of between 18 and 28 inches above the floor; (iii) is weight-bearing to a minimum of 350 pounds; and (iv) has both a safety rail and restraint straps available. Subject/Building Code Section(s) Minnesota Rules, chapter 1341, Minnesota Accessibility Code Proposed Minnesota Statutes 326B. 106 Subd. 4 (n) Technical Advisory Group (TAG) TAG Formed X Yes No Title of TAG: Building Code Series 1 TAG TAG Members Affiliations/Representing Scott McKown MN DLI/CCLD; Assistant Director Irene Kao League of Minnesota Cities Charlie Vander Aarde Metro Cities Nick Erickson Housing First Minnesota Brian Hoffman City of St. Louis Park; Association of MN Building Officials Kurt Welker Welker Custom Homes; Builders Association of MN MN DLI/CCLD; Accessibility Specialist Karen Gridley Barry Greive Target Corporation; Building Owners Simona Fischer MSR Design; MN American Institute of Architects John Smith Michaud Cooley Erickson; Building Systems Design and Engineering Practices CBS Construction Services, Inc; Contractors Ken Hinz

TAG Meeting Date(s)		
11/9/2021; 11/23/2021; 12/7/2021; 12/21/21		
TAG Comments/Recommendations – Attachment 🗌 Yes 🔯 No		
1.	TAG members support adoption of national model code requirements for adult changing tables through the rulemaking process that will adopt the 2024 "I" codes in lieu of the proposed statutory requirements.	
2.	Placing technical requirements in statute limits the ability of designers, builders and building officials from proposing and approving alternative designs.	
3.	 The bill language conflicts with the intent of the State Building Code that buildings be designed to accommodate all persons with disabilities. The addition of a requirement for adult changing tables without any increase in the size of the restroom, will create barriers for other members of the disability community who use wheelchairs or other mobility devices. 	
4.	4. Adopting the national model code language reduces costs by only requiring adult changing tables in key locations	
and using existing requirements for family- and assisted-use restrooms.		
5.	Accessibility advocates and subject-matter experts recommend regulating adult changing tables in the building code rather than through legislation to prevent inconsistency with the national standard. It is anticipated that the 2024 IBC will contain appropriate provisions for adult changing tables.	
6. TAG members do not recommend these proposed legislative changes. However, if the proposed bills move forward, they should be modified to include an effective date that allows 18-months for implementation and a sunset date, so the statute expires when the new building code with criteria for adult changing stations becomes effective.		
Criteria Addressed (check all that apply)		
☐ Eliminating inconsistencies ☐ Promoting coordination & consistency ☐ Making rules easier to understand & apply		
Streamlining construction regulation & construction procedures		
Other:		
CCAC Comments & Recommendations		
A motion was made by Sprung, seconded by Guth, to approve the Technical Advisory Group Report on Adult- sized Changing Facilities. The roll call vote was unanimous with 17 votes in favor.		
Date of CCAC Meeting: January 20, 2022		
Prepared by/Name & Title Date		
	Scott McLellan, Construction Codes Advisory Council Chair	January 21, 2022

Proposed Legislation – Adult Changing Tables – HF981 Greg Metz

Department's suggested change to HF981

n) Adult-size changing facilities. The commissioner shall adopt rules requiring adult-size changing facilities as part of the State Building Code.

Rulemaking authority language: The commissioner of the Department of Labor and Industry shall adopt rules, using the expedited rulemaking process in Minnesota Statutes, section 14.389, that set forth adult-size changing facilities to conform with the addition of Minnesota Statutes, Chapter 326B.106, subd. 4, subsection (n), under this act.