2Q 2021 Nevada energy code collaborative meeting

JUNE 22, 2021

2. State and Local Outlook

Nevada Energy Code Collaborative meeting
June 22, 2021
1:00 PM ~~ 2:30 PM (PDT)

Teleconference call-in number: (646) 749-3122
Participant access code: 232-453-669

To View Slides, Video Conference and Online Presentation join
https://global.gotomeeting.com/join/232453669

1. **Welcome, introductions, review agenda** (5 minutes)

2. **State and Local Outlook, Trends, Policies** (~20 minutes)
   Nat Hodgson, SNHBA, Matt Walker, Greenberg Traurig, LLP.
   - The homebuilders view in Nevada from state and local outlooks, trends and policies that affect new residential construction.
3. **2021 IECC Significant changes** (25 minutes)
   Shaunna Mozingo, MCG, LLC
   - A fast paced summary of significant changes in the IECC for both residential and commercial buildings. (emphasis on *fast* as a lot of changes)

4. DOE Preliminary Determination for Residential Energy Savings 2021 IECC

4. **DOE Preliminary Determination for residential energy savings 2021 IECC** (5 min)
   Jim Meyers, SWEEP
   - The U.S. DOE has released the preliminary determination for the 2021 IECC residential. Hear energy and carbon savings opportunities for Nevada climate zones.
5. **DOE Residential field study update** (5 min)
   Jim Meyers, SWEEP
   - Update on the field study and when the training phase will start in Nevada.
   - Highlights of findings from the study and should translate to training focus in phase 2.
6. **ICC Update** (5 minutes)
   Susan Dowty, ICC
   - Updates on 2024 IECC standards status and process. Additional ICC activities of interest to collaborative.

3. 2021 IECC Significant Changes

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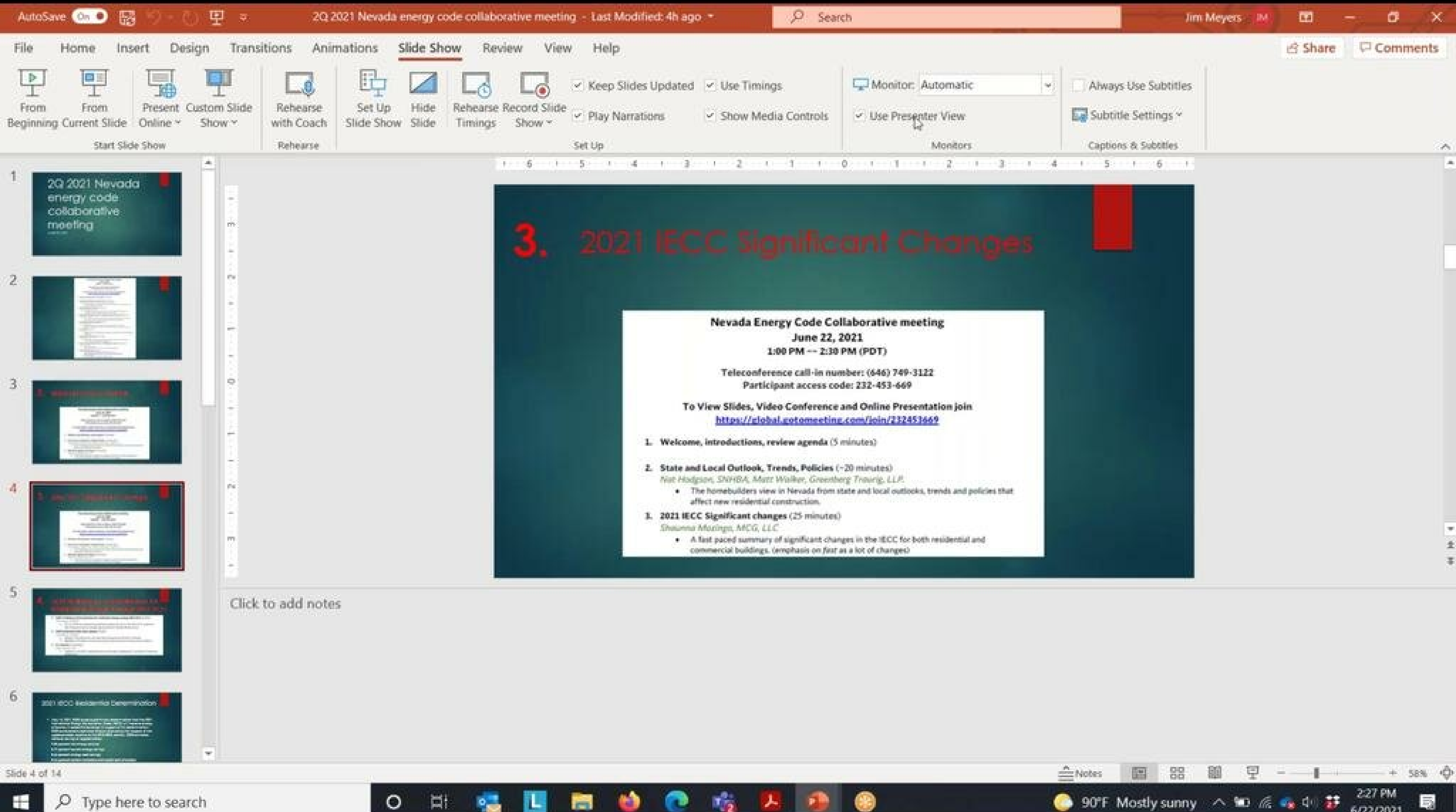
3. **2021 IECC Significant changes** (25 minutes)
   Shaunna Mozingo, MCG, LLC
   - A fast paced summary of significant changes in the IECC for both residential and commercial buildings. (emphasis on *fast* as a lot of changes)

7. Legislative Summary

6. **ICC Update** (5 minutes)
   Susan Dowty, ICC
   - Updates on 2024 IECC standards status and process. Additional ICC activities of interest to collaborative.
7. **Legislative Summary Report** (15 minutes)
   Robin Yochum, GOE
   - The session has ended. Hear what passed through the legislature this year and any relations/impacts to buildings or the energy code.
8. **Nevada Governor's Office of Energy – Building program update** (10 minutes)
   Robin Yochum, GOE
   - GOE website update
   - State adoption of latest IECC version, and additional appendices
9. **Wrap Up & Next Steps** (5 minutes)
   - DOE National Energy Codes Conference (Virtual, no-cost) https://www.energycodes.gov/2021-national-energy-codes-conference
   - Closing comments
   - Next meeting date (3 months appx September 2021)



2Q 2021 Nevada energy code collaborative meeting - Last Modified: 4h ago
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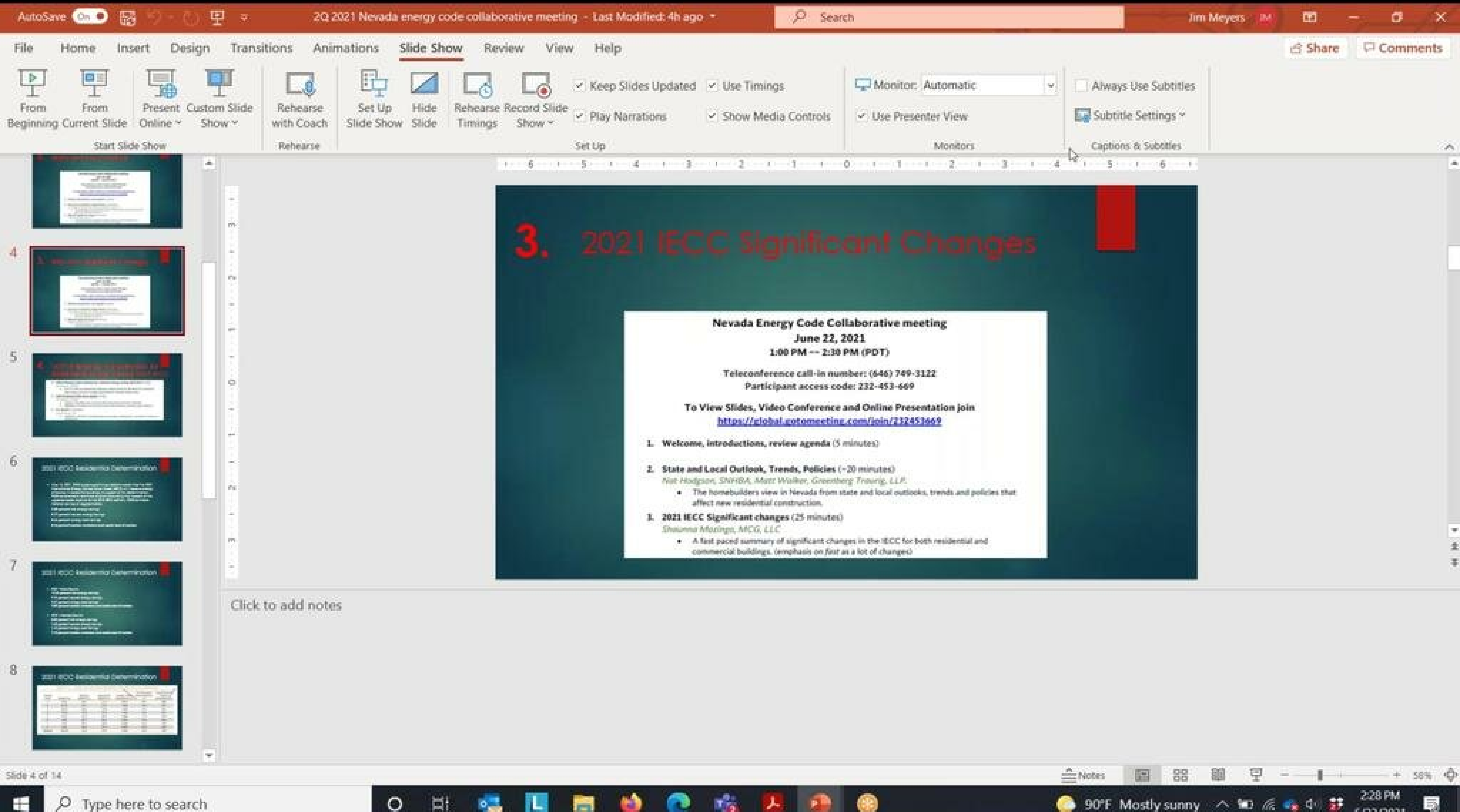
Click to add notes
Slide 4 of 14

Wrap Up

9. - Next meeting (September 2021) – Look for link to poll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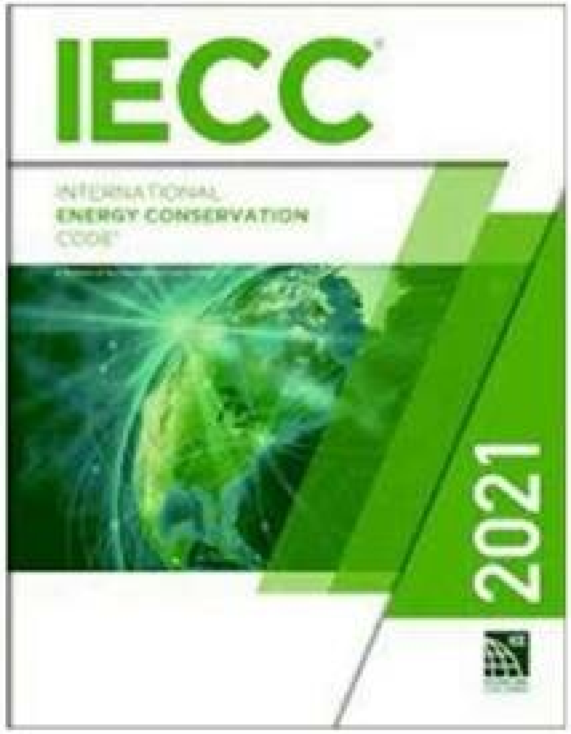
Click to add notes
Slide 4 of 14
2:28 PM
6/22/2021



IECC 2021 Significant Code Changes

Shaunna Mozingo, Mozingo Code Group LLC

Declare Your Path of Compliance

- R103.2
- R401.3

Chapter R2 Definitions

New Definitions

Cavity Insulation

Dimmer

Dwelling Unit Enclosure

Area

Occupant Sensor Control

On-Site Renewable

Energy

Renewable Energy

Certificate (REC)

Renewable Energy

Resources

Thermal Distribution

Efficiency (TDE)

Revised Definitions

"Accessible" changed to "Access to" and "Ready Access to"

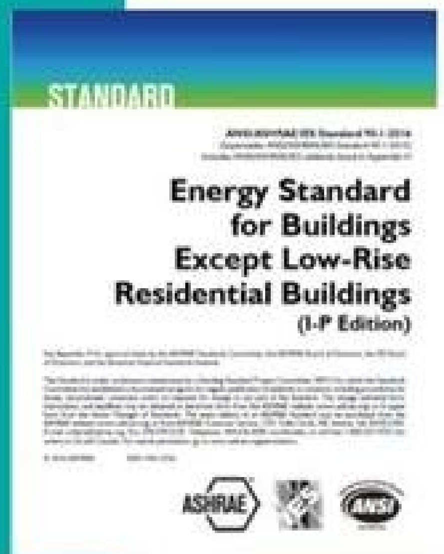
Demand Recirculation Water System

Skylight

"High Efficacy Lamp" is now "High-Efficacy Light Sources"

Roof Recover

Chapter 3: General Requirements



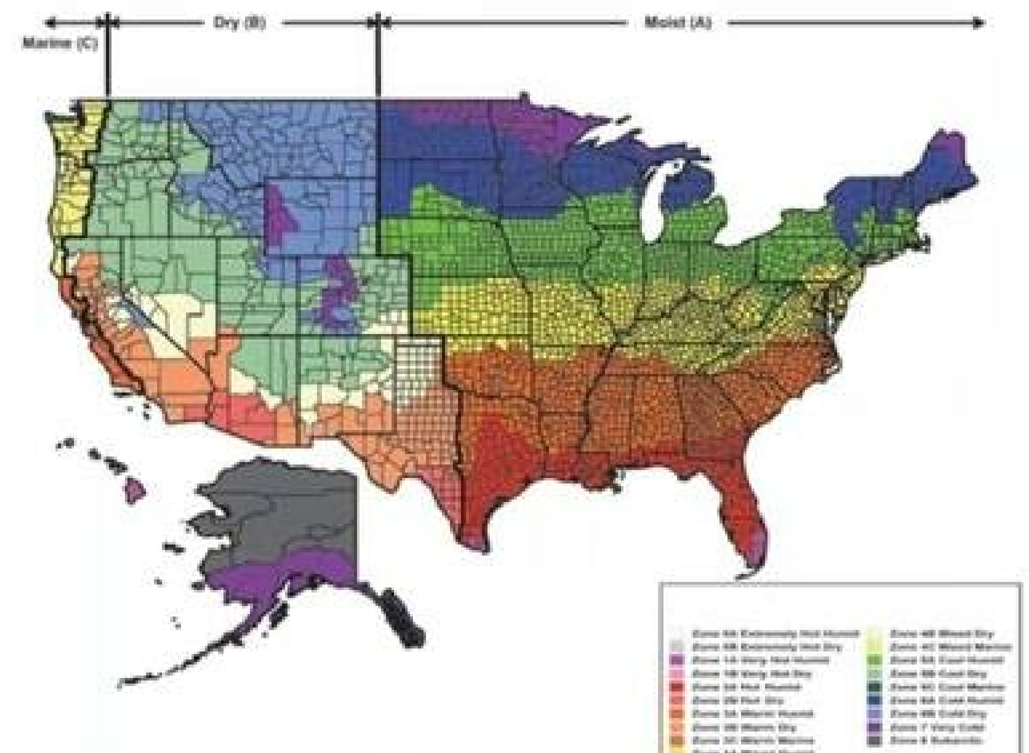


Figure Annex1-1 ASHRAE Standard 169-2013, Figure B-1: Climate zones for United States counties.

SEHPCAC
Reformats Code for
“Mandatory” items

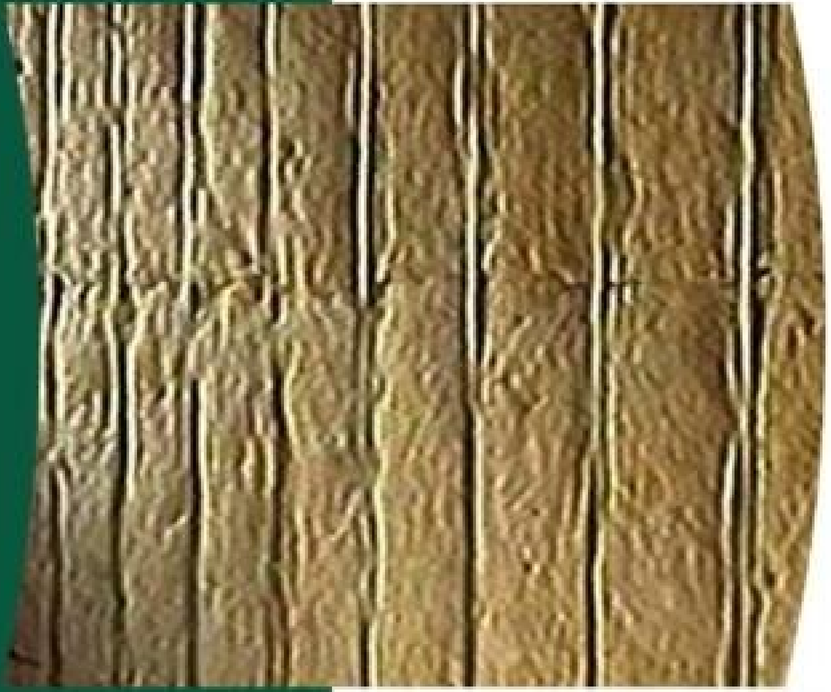
Moved to R405 & R406

as a Table of required
provisions that can’t be
traded off

INSULATION MINIMUM R-VALUES AND FENESTRATION REQUIREMENTS BY COMPONENT[a]

CLIMATE ZONE	FENESTRATION U-FACTOR[b, i]	SKYLIGHT[b] U-FACTOR	GLAZED FENESTRATION SHGC[b, e]	CEILING R-VALUE	WOOD FRAME WALL R-VALUE[g]	MASS WALL R-VALUE[h]	FLOOR R-VALUE	BASEMENT[c, g] WALL R-VALUE	SLAB[d] R-VALUE & DEPTH	CRAWL SPACE[c, g] WALL R-VALUE
0	NR	0.75	0.25	30	13 or 0+& 10ci	3/4	13	0	0	0
1	NR	0.75	0.25	30	13 or 0+& 10ci	3/4	13	0	0	0
2	0.40	0.65	0.25	49	13 or 0+& 10ci	4/6	13	0	0	0
3	.30	0.55	0.25	49	20 or 13+& 10ci[h] or 0 & 15ci[h]	8/13	19	5ci or 13[f]	10ci, 2 ft	5ci or 13[f]
4 except Marine	.30	0.55	0.40	60	30 or 20& 5ci[h] or 13 & 10ci[h] or 0 & 20ci[h]	8/13	19	10ci or 13	10ci, 4 ft	10ci or 13
5 and Marine 4	0.30[i]	0.55	0.40	60	30 or 20& 5ci[h] or 13 & 10ci[h] or 0 & 20ci[h]	13/17	30	15ci or 19 or 13+& 5ci	10ci, 4 ft	15ci or 19 or 13+& 5ci
6	0.30[i]	0.55	NR	60	30 or 20& 5ci[h] [illegible]	15/20	30	15ci or 19 or [illegible]	10ci, 4 ft	15ci or 19 [illegible]

Table R402.1.2 Insulation and Fenestration Requirements by Component



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0	NR	0.75	0.25	30	13 or 0+& 10ci	3/4	13	0	0	0
1	NR	0.75	0.25	30	13 or 0+& 10ci	3/4	13	0	0	0
2	0.40	0.65	0.25	49	13 or 0+& 10ci	4/6	13	0	0	0
3	.30	0.55	0.25	49	20 or 13+& 10ci[h] or 0 & 15ci[h]	8/13	19	5ci or 13[f]	10ci, 2 ft	5ci or 13[f]
4 except Marine	.30	0.55	0.40	60	30 or 20& 5ci[h] or 13 & 10ci[h] or 0 & 20ci[h]	8/13	19	10ci or 13	10ci, 4 ft	10ci or 13
5 and Marine 4	0.30[i]	0.55	0.40	60	30 or 20& 5ci[h] or 13 & 10ci[h] or 0 & 20ci[h]	13/17	30	15ci or 19 or 13+&5ci	10ci, 4 ft	15ci or 19 or 13+&5ci
6	0.30[i]	0.55	NR	60	30 or 20& 5ci[h]	15/20	30	15ci or 19 or	10ci, 4 ft	15ci or 19

Table R402.1.2 Insulation and Fenestration Requirements by Component

TABLE R402.1.3
INSULATION MINIMUM *R*-VALUES AND FENESTRATION REQUIREMENTS BY COMPONENT[a]

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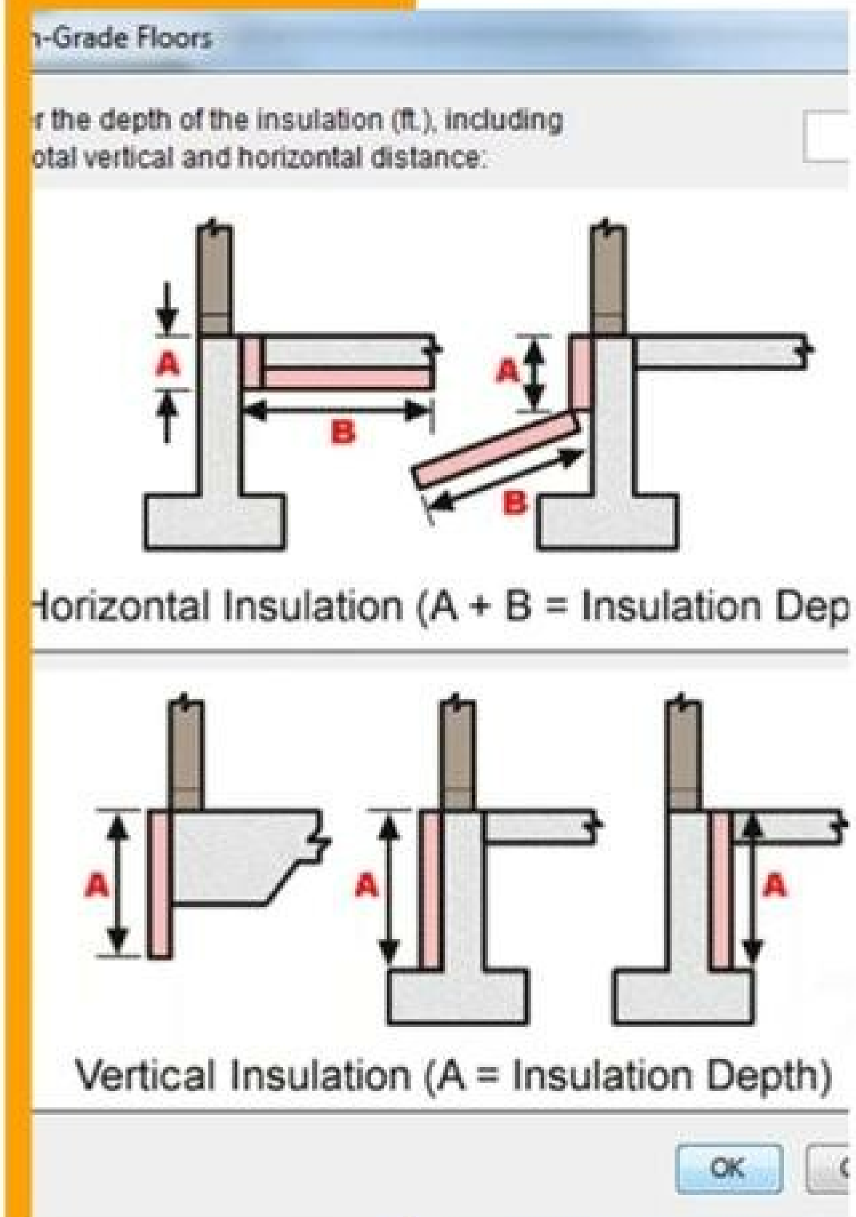
0	NR	0.75	0.25	30	13 or 0~~+~~& 10ci	3/4	13	0	0	0
1	NR	0.75	0.25	30	13 or 0~~+~~& 10ci	3/4	13	0	0	0
2	0.40	0.65	0.25	49	13 or 0~~+~~& 10ci	4/6	13	0	0	0
3	.30	0.55	0.25	49	20 or 13~~+~~& 10ci[h] or 0 & 15ci[h]	8/13	19	5ci or 13[f]	10ci, 2 ft	5ci or 13[f]
4 except Marine	.30	0.55	0.40	60	30 or 20& 5ci[h] or 13 & 10ci[h] or 0 & 20ci[h]	8/13	19	10ci or 13	10ci, 4 ft	10ci or 13
5 and Marine 4	0.30[i]	0.55	0.40	60	30 or 20& 5ci[h] or 13 & 10ci[h] or 0 & 20ci[h]	13/17	30	15ci or 19 or 13~~+~~&5ci	10ci, 4 ft	15ci or 19 or 13~~+~~&5ci
6	0.30[i]	0.55	NR	60	30 or 20& 5ci[h] or 13 & 10ci[h] or 0 & 20ci[h]	15/20	30	15ci or 19 or 13~~+~~&5ci	10ci, 4 ft	15ci or 19 or 13~~+~~&5ci
7 and 8	0.30[i]	0.55	NR	60	30 or 20~~+~~& 5ci[h] or 13~~+~~& 10ci[h] or 0 & 20ci[h]	19/21	38	15ci or 19 or 13~~+~~&5ci	10ci, 4 ft	15ci or 19 or 13~~+~~&5ci



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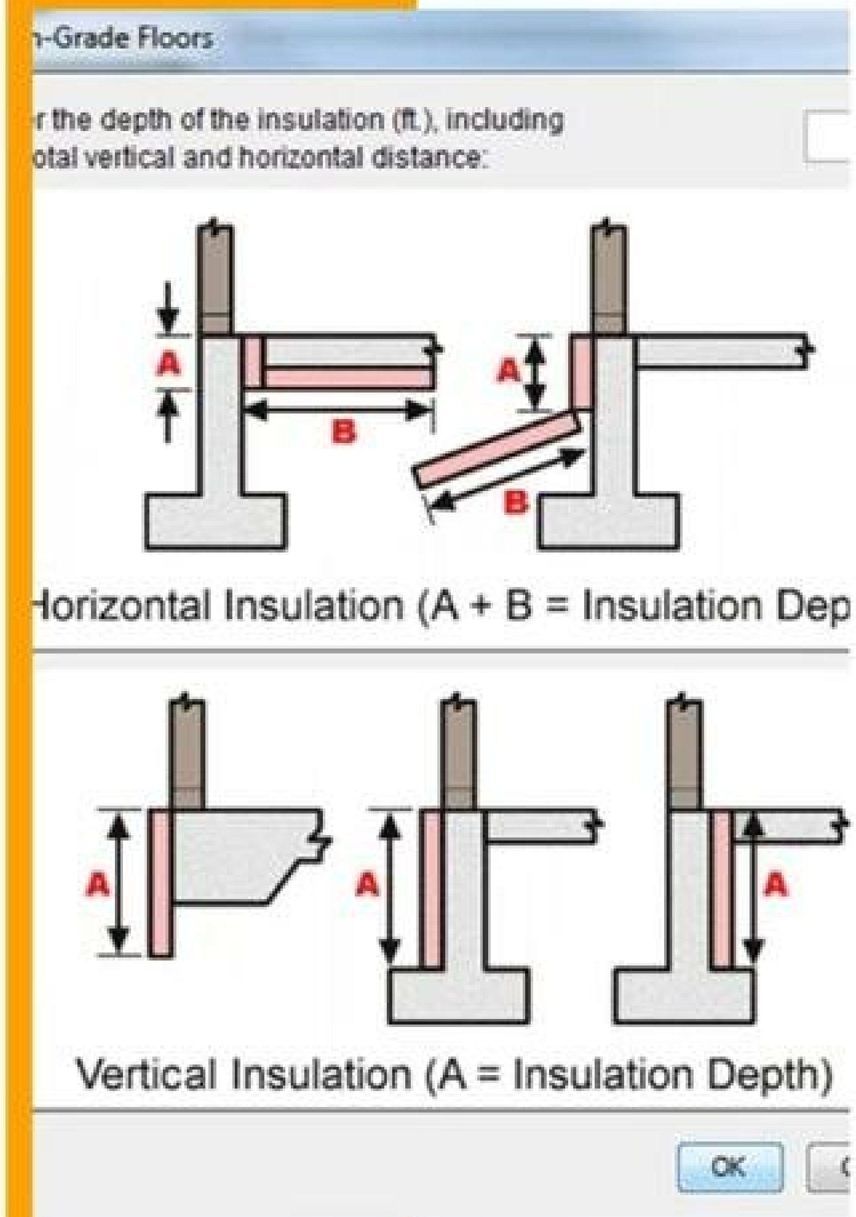
5 and Marine 4	0.30[i]	0.55	0.40	60	30 or 20& 5ci[h] or 13 & 10ci[h] or 0 & 20ci[h]	13/17	30	15ci or 19 or 13~~+~~&5ci	10ci, 4 ft	15ci or 19 or 13~~+~~&5ci
6	0.30[i]	0.55	NR	60	30 or 20& 5ci[h] or 13 & 10ci[h] or 0 & 20ci[h]	15/20	30	15ci or 19 or 13~~+~~&5ci	10ci, 4 ft	15ci or 19 or 13~~+~~&5ci
7 and 8	0.30[i]	0.55	NR	60	30 or 20~~+~~& 5ci[h] or 13~~+~~& 10ci[h] or 0 & 20ci[h]	19/21	38	15ci or 19 or 13~~+~~&5ci	10ci, 4 ft	15ci or 19 or 13~~+~~&5ci



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6	0.30[i]	0.55	NR	60	30 or 20& 5ci[h] or 13 & 10ci[h] or 0 & 20ci[h]	15/20	30	15ci or 19 or 13+&5ci	10ci, 4 ft	15ci or 19 or 13+&5ci
7 and 8	0.30[i]	0.55	NR	60	30 or 20+&5ci[h] or 13+&10ci[h] or 0 & 20ci[h]	19/21	38	15ci or 19 or 13+&5ci	10ci, 4 ft	15ci or 19 or 13+&5ci

Table R402.1.2 Insulation and Fenestration Requirements by Component

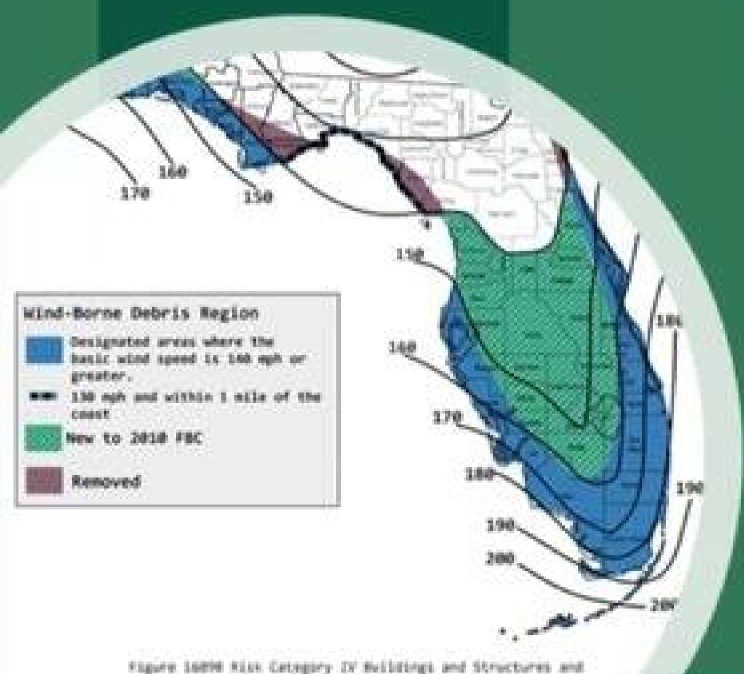


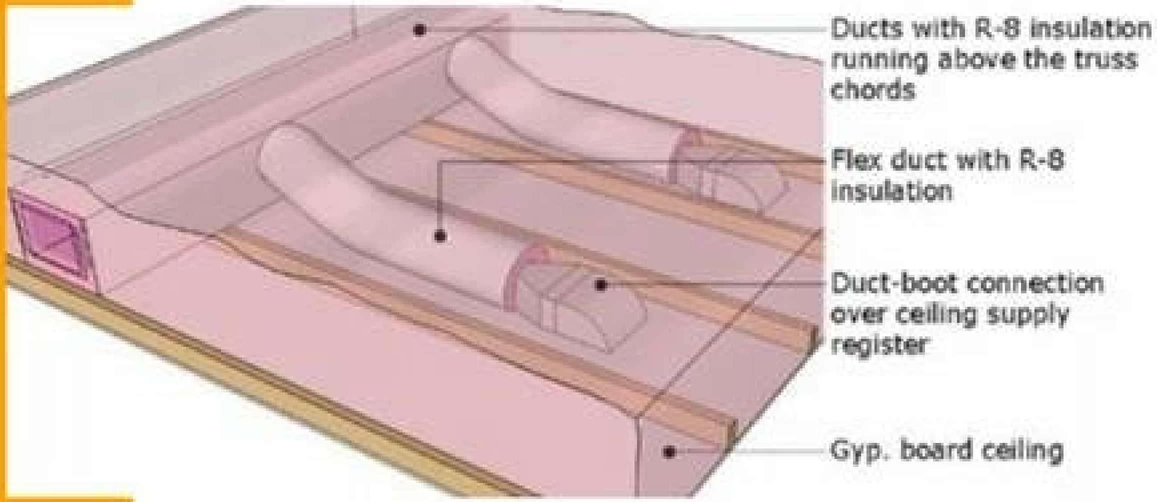
Table R402.1.2 Insulation and Fenestration Requirements by Component

f. A maximum U-factor of 0.32 shall apply in Marine Climate Zone 4 and Climate Zones 5 through 8 to vertical fenestration products installed in buildings located either:

1. Above 4,000 feet in elevation above sea level, or
2. In windborne debris regions where protection of openings is required by Section R301.2.1.2 of the International Residential Code.

R402.4.1.2 Testing

Get your ducts in a row…



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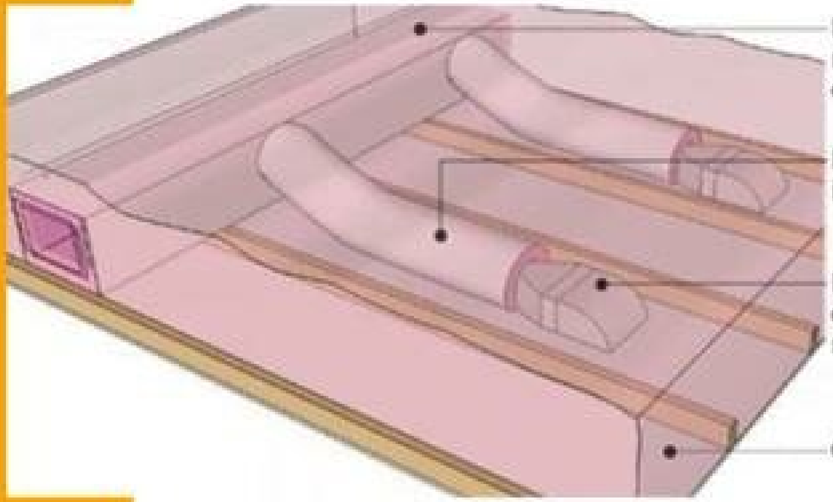
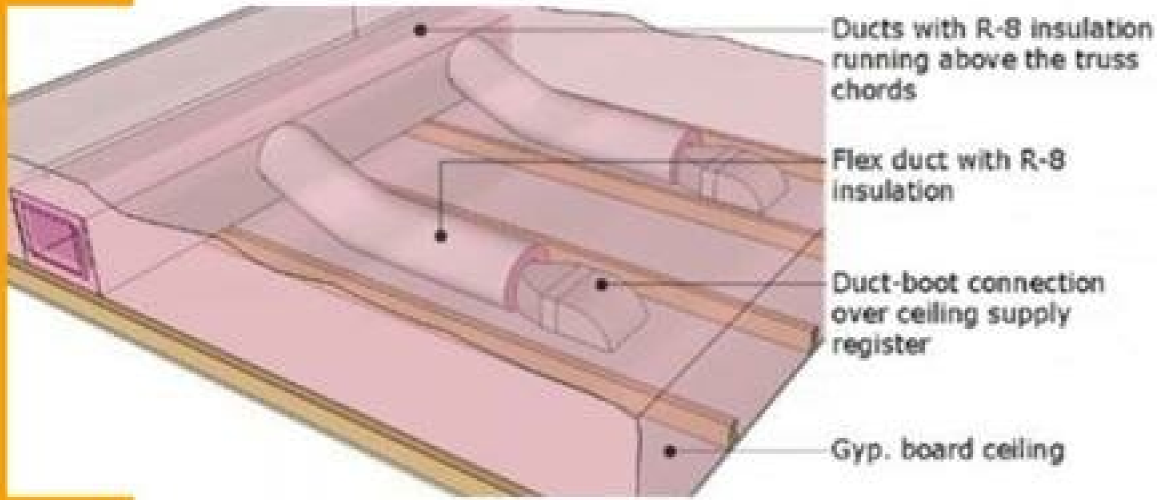
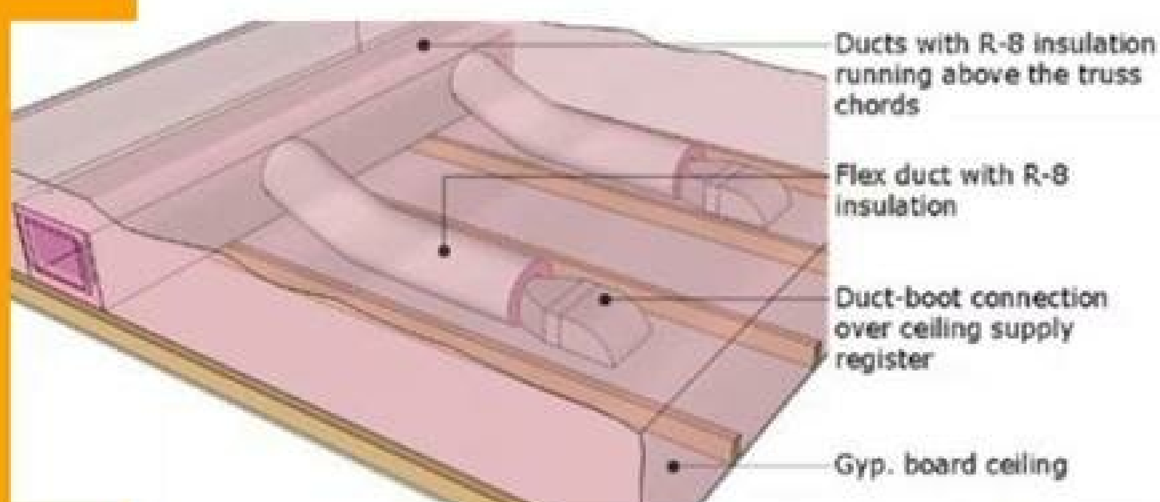


Get your ducts in a row…

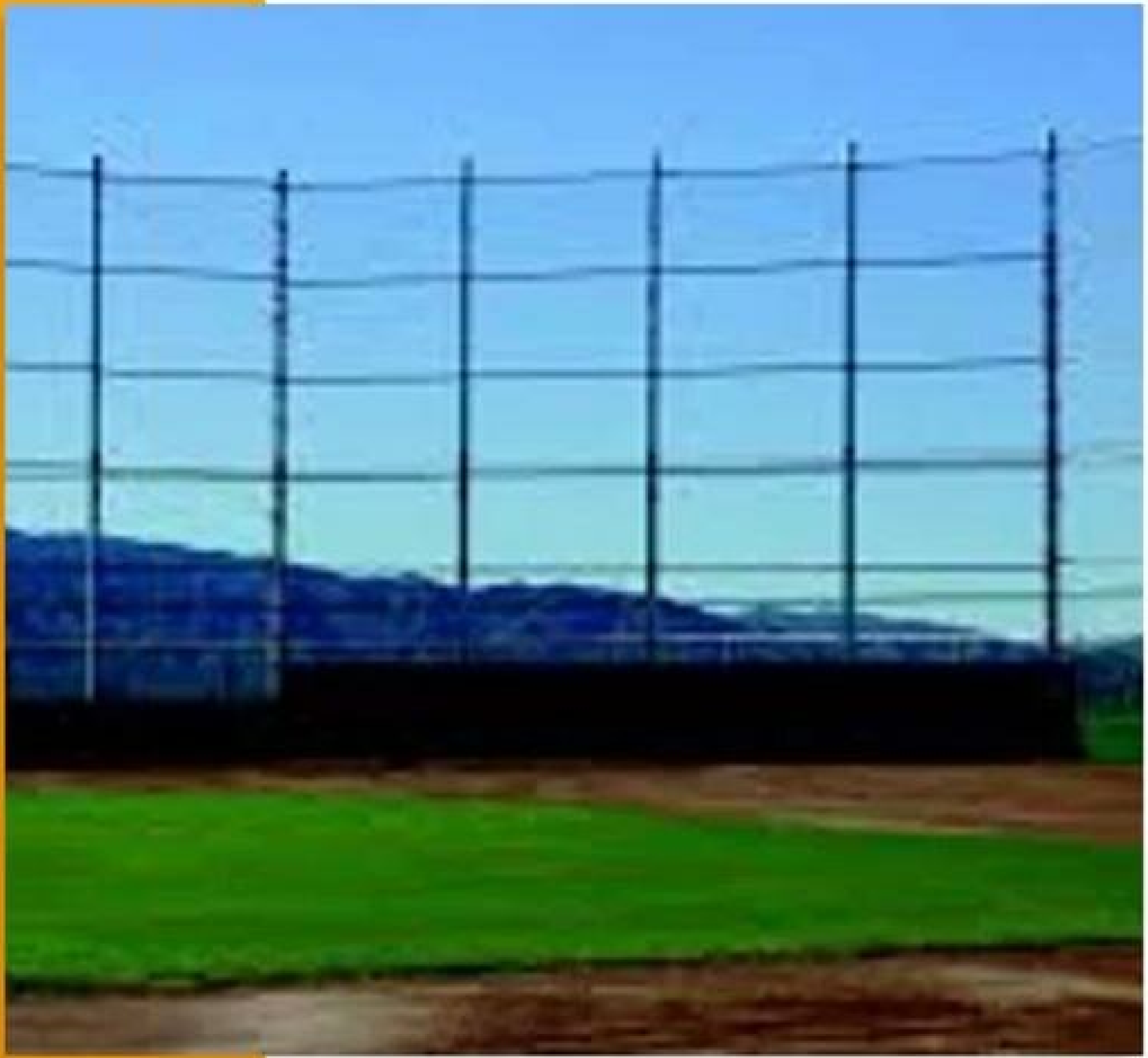


3. **Test for ducts within thermal envelope**: Where all ducts and air handlers are located entirely within the building thermal envelope, total leakage shall be less than or equal to 8.0 cubic feet per minute (226.6 L/min) per 100 square feet (9.29 m2) of conditioned floor area.



More Efficiency

R404 Lighting



- Total UA within 15%
- 2018 backstop when using renewables
- 5% cap on trade-off credit allowed for on-site power
- Lower ERI scores required
- Declare your path
- Who gets the RECS?

R406 Energy Rating Index (ERI)

New R408 Additional Efficiency Package Options

Chapter 5 – Existing Buildings

- Removes requirement for additions to be air leakage tested.
- Removes requirement for duct leakage testing on duct extensions.
- A change to 505.1 and 505.2 to require that changes of occupancy only comply with the existing buildings chapter and not the entire code.

Appendix RA – Solar Ready

Appendix RB- Net Zero Energy Ready Buildings

Commercial provisions

2021 IECC

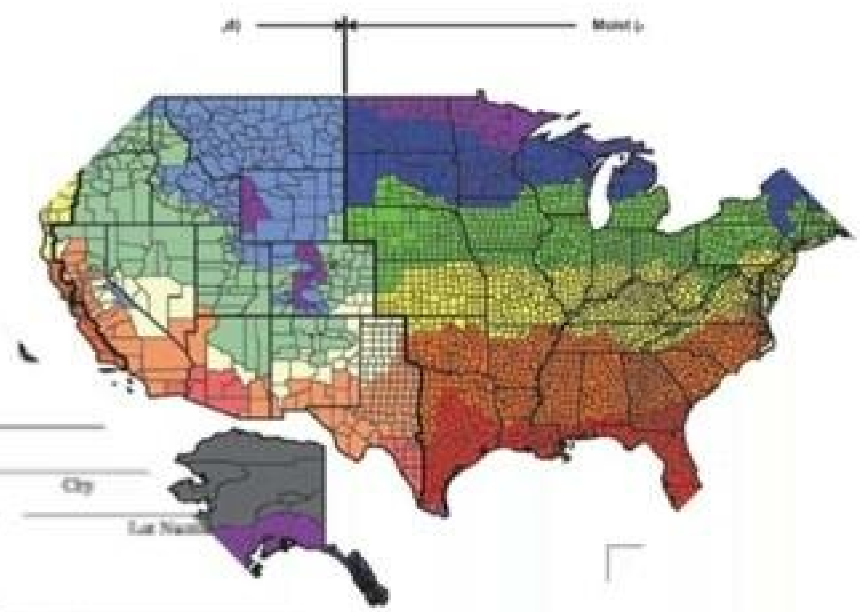
Chapter 2 Definitions

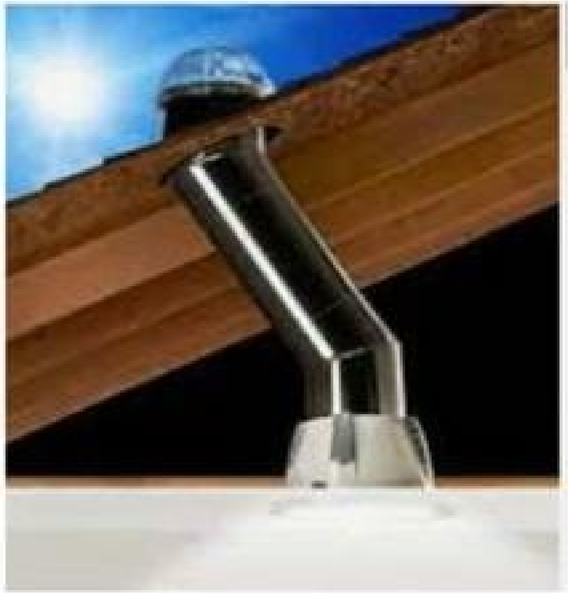
New Definitions

Biogas
Biomass
Data Center
Data Center Systems
Direct Digital Control
Enthalpy Recovery Ratio
Fan, Embedded
Fan Array
Fan Energy Index (FEI)
Fan System Electrical Input Power
Information Technology Equipment (ITE)
Internal Curtain System
Large-Diameter Ceiling Fan
Renewable Energy Resources
Testing Unit Enclosure Area
Thermal Distribution Efficiency (TDE)
Vegetative Roof
Visible Transmittance, Annual (Vt_{annual})

Revised Definitions

Computer Room
Demand Recirculation Water System
Removed "Nameplate Horsepower" and changed to "Fan Nameplate Electrical Input Power"
Fault Detection and Diagnostics (FDD) System
Skylights
General Lighting
Greenhouse
Networked guestroom Control System
On-Site Renewable Energy
Wall, Above-Grade





Chapter 3

General Requirements

C401.2.1 Prescriptive Compliance

- Commercial vs Residential

C401.2.1 Prescriptive Compliance

➢

1**. Prescriptive Compliance**. The Prescriptive Compliance option requires compliance with Sections C402 through C406 and Section C408. Dwelling units and sleeping units in Group R-2 buildings without systems serving multiple units shall be deemed to be in compliance with this chapter, provided that they comply with Section R406.

C402.1.1.1

Greenhouses

Table C402.1.3 Insulation R-Value table

TABLE C402.1.3
OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD[a]

CLIMATE ZONE	0 AND 1		2		3		4 EXCEPT MARINE		5 AND MARINE 4		6		7		8	
	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R
Roofs																
Insulation entirely above roof deck	R-20ci[c]	R-25ci	R-25ci	R-25ci	R-25ci	R-25ci	R-30ci	R-30ci	R-30ci	R-30ci	R-30ci	R-30ci	R-35ci	R-35ci	R-35ci	R-35ci
Metal buildings[b]	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-25 + R-11 LS	R-30 + R-11 LS	R-30 + R-11 LS	R-30 + R-11 LS	R-25 + R-11 + R-11 LS	R-25 + R-11 + R-11 LS
Attic and other	R-38	R-38	R-38	R-38	R-38	R-38	R-49	R-49	R-49	R-49	R-49	R-49	R-60	R-60	R-60	R-60
Walls, above grade																
Mass[f]	R-5.7ci[c]	R-5.7ci[c]	R-5.7ci[c]	R-7.6ci	R-7.6ci	R-9.5ci	R-9.5ci	R-11.4ci	R-11.4ci	R-13.3ci	R-13.3ci	R-15.2ci	R-15.2ci	R-15.2ci	R-25ci	R-25ci
Metal building	R-13 + R-6.5ci	R-13 + R-6.5ci	R13 + R-6.5ci	R-13 + R-13ci	R-13 + R-6.5ci	R-13 + R-13ci	R-13 + R-13ci	R-13 + R-14ci	R-13 + R-14ci	R-13 + R-14ci	R-13 + R-14ci	R-13 + R-14ci	R-13 + R-17ci	R-13 + R-19.5ci	R-13 + R-19.5ci	R-13 + R-19.5ci
Metal framed	R-13 + R-5ci	R-13 + R-5ci	R-13 + R-5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-10ci	R-13 + R-10ci	R-13 + R-12.5ci	R-13 + R-12.5ci	R-13 + R-12.5ci	R-13 + R-15.6ci	R-13 + R-18.8ci	R-13 + R-18.8ci
Wood framed and other	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-18.8ci	R-13 + R-18.8ci
Walls, below grade																
Below-grade wall[d]	NR	NR	NR	NR	NR	NR	R-7.5ci	R-10ci	R-7.5ci	R-10ci	R-10ci	R-15ci	R-15ci	R-15ci	R-15ci	R-15ci
Floors																
Mass[e]	NR	NR	R-6.3ci	R-8.3ci	R-10ci	R-10ci	R-14.6ci	R-16.7ci	R-14.6ci	R-16.7ci	R-16.7ci	R-16.7ci	R-20.9ci	R-20.9ci	R-23ci	R-23ci
Joist/framing	R-13	R-13	R-30	R-30	R-30	R-30	R-30	R-30	R-30	R-30	R-38	R-38	R-38	R-38	R-38	R-38
Slab-on-grade floors																
Unheated slabs	NR	NR	NR	NR	NR	R-10 for 24" below	R-15 for 24" below	R-15 for 24" below	R-15 for 24" below	R-20 for 24" below	R-20 for 24" below	R-20 for 24" below	R-20 for 48" below	R-20 for 48" below	R-20 for 48" below	R-25 for 48" below
Heated slabs[g]	R-7.5 for 12" below + R-5 full slab	R-7.5 for 12" below + R-5 full slab	R-7.5 for 12" below + R-5 full slab	R-7.5 for 12" below + R-5 full slab	R-10 for 24" below + R-5 full slab	R-10 for 24" below + R-5 full slab	R-15 for 24" below + R-5 full slab	R-15 for 24" below + R-5 full slab	R-15 for 36" below + R-5 full slab	R-15 for 36" below + R-5 full slab	R-15 for 36" below + R-5 full slab	R-20 for 48" below + R-5 full slab	R-20 for 48" below + R-5 full slab	R-20 for 48" below + R-5 full slab	R-20 for 48" below + R-5 full slab	R-20 for 48" below + R-5 full slab

For SI: 1 inch = 25.4 mm, 1 pound per square foot = 4.88 kg/m^2, 1 pound per cubic foot = 16 kg/m^3.
ci = Continuous Insulation, NR = No Requirement, LS = Liner System.
a. Assembly descriptions can be found in ANSI/ASHRAE/IESNA 90.1 Appendix A.
b. Where using R-value compliance method, a thermal spacer block shall be provided, otherwise use the U-factor compliance method in Table C402.1.4.
c. R-5.7ci is allowed to be substituted with concrete block walls complying with ASTM C90, ungrouted or partially grouted at 32 inches or less on center vertically and 48 inches or less on center horizontally, with ungrouted cores filled with materials having a maximum thermal conductivity of 0.44 Btu-in/h-f^2 °F.
d. Where heated slabs are below grade, below-grade walls shall comply with the exterior insulation requirements for heated slabs.
e. "Mass floors" shall be in accordance with Section C402.2.3.
f. "Mass walls" shall be in accordance with Section C402.2.2.
g. The first value is for perimeter insulation and the second value is for full, under-slab insulation. Perimeter insulation is not required to extend below the bottom of the slab.

Majority of the changes affect Climate Zones 4-8

Table C402.1.3 Insulation R-Value table

TABLE C402.1.3
OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, *R*-VALUE METHOD[a]

CLIMATE ZONE	0 AND 1		2		3		4 EXCEPT MARINE		5 AND MARINE 4		6		7		8	
	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R
Roofs																
Insulation entirely above roof deck	R-20ci	R-25ci	R-25ci	R-25ci	R-25ci	R-25ci	R-30ci	R-30ci	R-30ci	R-30ci	R-30ci	R-30ci	R-35ci	R-35ci	R-35ci	R-35ci
Metal buildings[b]	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-19 + R-11 LS	R-25 + R-11 LS	R-30 + R-11 LS	R-30 + R-11 LS	R-30 + R-11 LS	R-25 + R-11 + R-11 LS	R-25 + R-11 + R-11 LS
Attic and other	R-38	R-38	R-38	R-38	R-38	R-38	R-49	R-49	R-49	R-49	R-49	R-49	R-60	R-60	R-60	R-60
Walls, above grade																
Mass[f]	R-5.7ci[c]	R-5.7ci[c]	R-5.7ci[c]	R-7.6ci	R-7.6ci	R-9.5ci	R-9.5ci	R-11.4ci	R-11.4ci	R-13.3ci	R-13.3ci	R-15.2ci	R-15.2ci	R-15.2ci	R-25ci	R-25ci
Metal building	R-13 + R-6.5ci	R-13 + R-6.5ci	R13 + R-6.5ci	R-13 + R-13ci	R-13 + R-6.5ci	R-13 + R-13ci	R-13 + R-13ci	R-13 + R-14ci	R-13 + R-14ci	R-13 + R-14ci	R-13 + R-14ci	R-13 + R-14ci	R-13 + R-17ci	R-13 + R-19.5ci	R-13 + R-19.5ci	R-13 + R-19.5ci
Metal framed	R-13 + R-5ci	R-13 + R-5ci	R-13 + R-5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-10ci	R-13 + R-10ci	R-13 + R-12.5ci	R-13 + R-12.5ci	R-13 + R-12.5ci	R-13 + R-15.6ci	R-13 + R-18.8ci	R-13 + R-18.8ci
Wood framed and other	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-3.8ci or R-20	R-13 + R-7.5ci or R20 + R3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-7.5ci or R-20 + R-3.8ci	R-13 + R-18.8ci	R-13 + R-18.8ci
Walls, below grade																
Below-grade wall[d]	NR	NR	NR	NR	NR	NR	R-7.5ci	R-10ci	R-7.5ci	R-10ci	R-10ci	R-15ci	R-15ci	R-15ci	R-15ci	R-15ci
Floors																
Mass[e]	NR	NR	R-6.3ci	R-8.3ci	R-10ci	R-10ci	R-14.6ci	R-16.7ci	R-14.6ci	R-16.7ci	R-16.7ci	R-16.7ci	R-20.9ci	R-20.9ci	R-23ci	R-23ci
Joist/framing	R-13	R-13	R-30	R-30	R-30	R-30	R-30	R-30	R-30	R-30	R-38	R-38	R-38	R-38	R-38	R-38
Slab-on-grade floors																
Unheated slabs	NR	NR	NR	NR	NR	R-10 for 24" below	R-15 for 24" below	R-15 for 24" below	R-15 for 24" below	R-20 for 24" below	R-20 for 24" below	R-20 for ~~24"~~ 48" below	R-20 for ~~48"~~ 24" below	R-20 for 48" below	R-20 for 48" below	R-25 for 48" below
Heated slabs[g]	R-7.5 for 12" below+ R-5 full slab	R-7.5 for 12" below+ R-5 full slab	R-7.5 for 12" below+ R-5 full slab	R-7.5 for 12" below+ R-5 full slab	R-10 for 24" below+ R-5 full slab	R-10 for 24" below+ R-5 full slab	R-15 for 24" below+ R-5 full slab	R-15 for 24" below+ R-5 full slab	R-15 for 36" below+ R-5 full slab	R-15 for 36" below+ R-5 full slab	R-15 for 36" below+ R-5 full slab	R-20 for 48" below+ R-5 full slab	R-20 for 48" below+ R-5 full slab	R-20 for 48" below+ R-5 full slab	R-20 for 48" below+ R-5 full slab	R-20 for 48" below+ R-5 full slab

Majority of the changes affect Climate Zones 4-8

Table C402.4 U-Factor and SHGC Fenestration Table

TABLE C402.4
BUILDING ENVELOPE FENESTRATION MAXIMUM *U*-FACTOR AND SHGC REQUIREMENTS

<table>
<tr><th>CLIMATE ZONE</th><th colspan="2">0 AND 1</th><th colspan="2">2</th><th colspan="2">3</th><th colspan="2">4 EXCEPT MARINE</th><th colspan="2">5 AND MARINE 4</th><th colspan="2">6</th><th colspan="2">7</th><th colspan="2">8</th></tr>
<tr><td colspan="17">Vertical fenestration</td></tr>
<tr><td colspan="17">U-factor</td></tr>
<tr><td>Fixed fenestration</td><td colspan="2">0.50</td><td colspan="2">0.45</td><td colspan="2">0.42</td><td colspan="2">0.36</td><td colspan="2">0.36</td><td colspan="2">0.34</td><td colspan="2">0.29</td><td colspan="2">0.26</td></tr>
<tr><td>Operable fenestration</td><td colspan="2">0.62</td><td colspan="2">0.60</td><td colspan="2">0.54</td><td colspan="2">0.45</td><td colspan="2">0.45</td><td colspan="2">0.42</td><td colspan="2">0.36</td><td colspan="2">0.32</td></tr>
<tr><td>Entrance doors</td><td colspan="2">0.83</td><td colspan="2">0.77</td><td colspan="2">0.68</td><td colspan="2">0.63</td><td colspan="2">0.63</td><td colspan="2">0.63</td><td colspan="2">0.63</td><td colspan="2">0.63</td></tr>
<tr><td colspan="17">SHGC</td></tr>
<tr><td></td><td>Fixed</td><td>Operable</td><td>Fixed</td><td>Operable</td><td>Fixed</td><td>Operable</td><td>Fixed</td><td>Operable</td><td>Fixed</td><td>Operable</td><td>Fixed</td><td>Operable</td><td>Fixed</td><td>Operable</td><td>Fixed</td><td>Operable</td></tr>
<tr><td>PF < 0.2</td><td>0.23</td><td>0.21</td><td>0.25</td><td>0.23</td><td>0.25</td><td>0.23</td><td>0.36</td><td>0.33</td><td>0.38</td><td>0.33</td><td>0.38</td><td>0.34</td><td>0.40</td><td>0.36</td><td>0.40</td><td>0.36</td></tr>
<tr><td>0.2 ≤ PF < 0.5</td><td>0.28</td><td>0.25</td><td>0.30</td><td>0.28</td><td>0.30</td><td>0.28</td><td>0.43</td><td>0.40</td><td>0.46</td><td>0.40</td><td>0.46</td><td>0.41</td><td>0.48</td><td>0.43</td><td>0.48</td><td>0.43</td></tr>
<tr><td>PF ≥ 0.5</td><td>0.37</td><td>0.34</td><td>0.40</td><td>0.37</td><td>0.40</td><td>0.37</td><td>0.58</td><td>0.53</td><td>0.61</td><td>0.53</td><td>0.61</td><td>0.54</td><td>0.64</td><td>0.58</td><td>0.64</td><td>0.58</td></tr>
<tr><td colspan="17">Skylights</td></tr>
<tr><td>U-factor</td><td colspan="2">0.70</td><td colspan="2">0.65</td><td colspan="2">0.55</td><td colspan="2">0.50</td><td colspan="2">0.50</td><td colspan="2">0.50</td><td colspan="2">0.44</td><td colspan="2">0.41</td></tr>
<tr><td>SHGC</td><td colspan="2">0.30</td><td colspan="2">0.30</td><td colspan="2">0.30</td><td colspan="2">0.40</td><td colspan="2">0.40</td><td colspan="2">0.40</td><td colspan="2">NR</td><td colspan="2">NR</td></tr>
</table>

C402.5 Air leakage

C402.5.1.2Air barrier compliance

- **C402.5.2 Dwelling and sleeping unit enclosure testing.**
- **C402.5.3 Building Thermal Envelope Testing.**

C402.5.1.5 Building Envelope Performance Verification

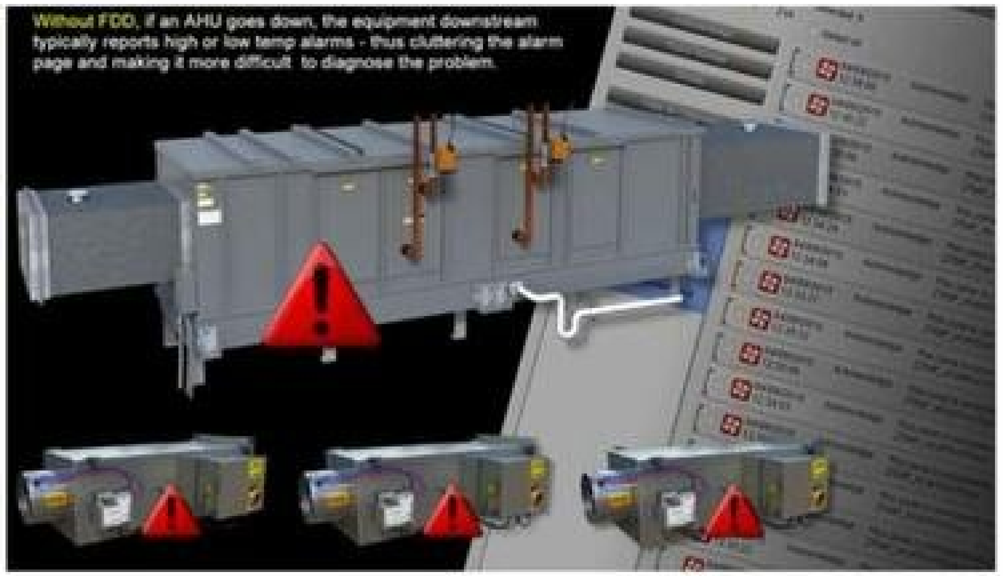
- Air barrier “commissioned”
- Report provided to Code Official and Owner
- Verified by
  - Code Official
  - Designer
  - Approved Agency
- Verify air barrier details on plans and in field

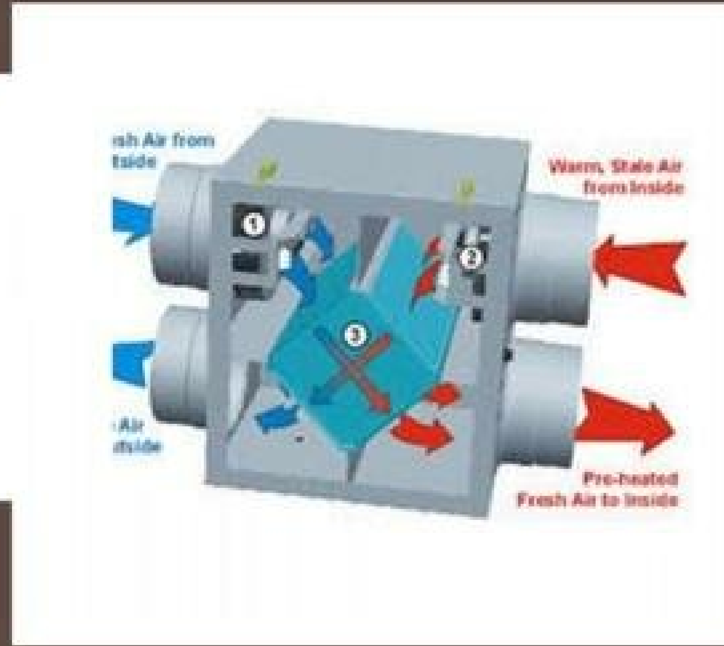
C402.5.11

Operable openings interlocking

C403 Mechanical

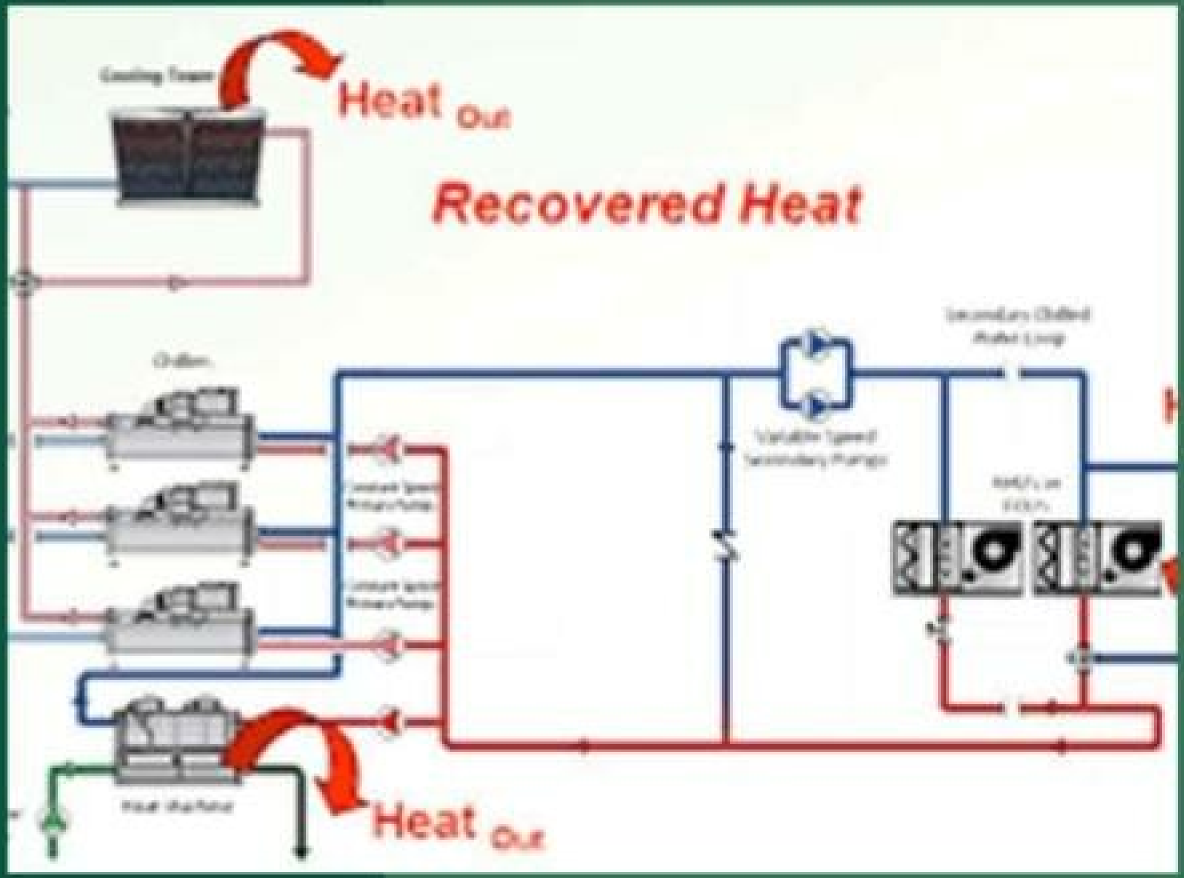
- Data Centers
- Fault Detection and Diagnostics (FDD)
- HVAC Equipment Performance Requirements





C403 Mechanical

C403 Mechanical



C404 Service Water Heating




C405 Power and Lighting

C405 Power and Lighting

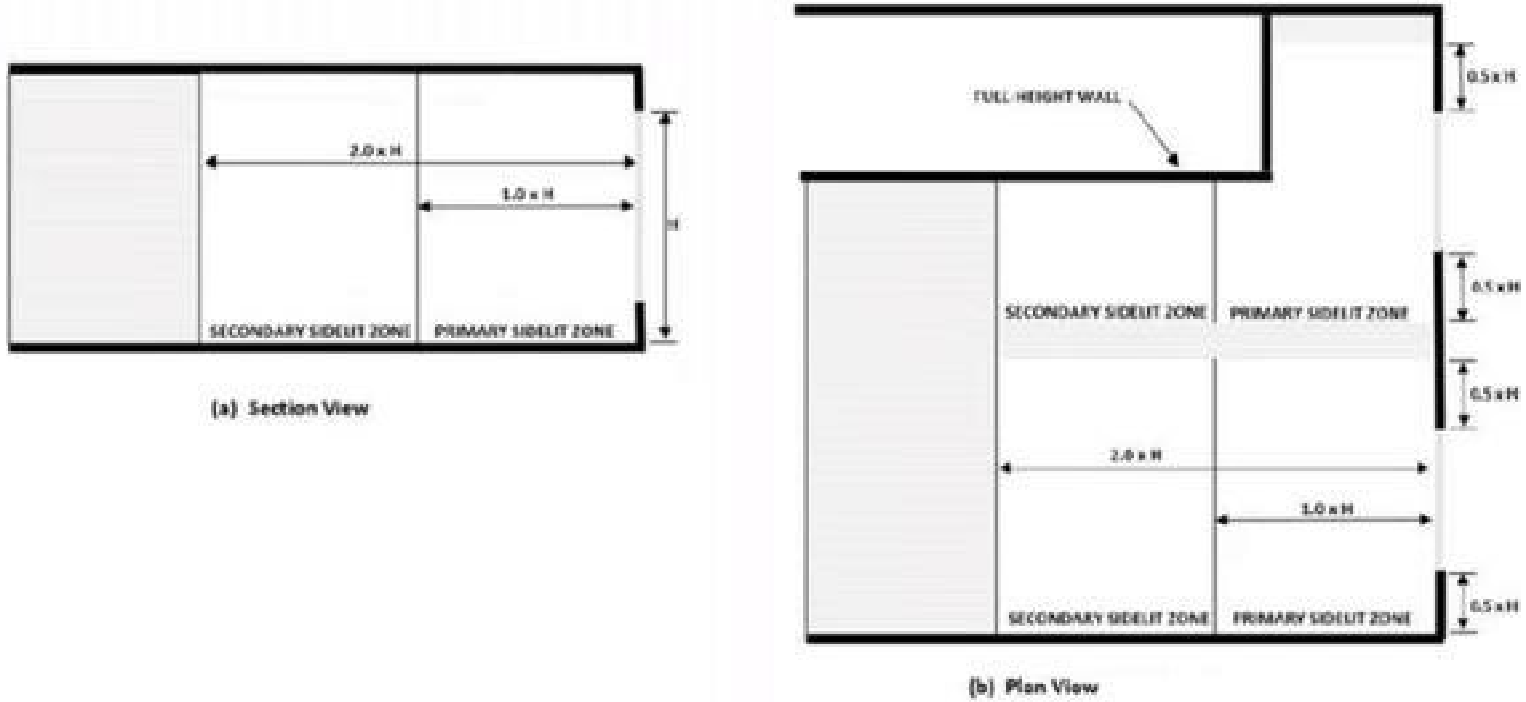


FIGURE C405.2.3.2
SIDELIT DAYLIGHT ZONE

C405 Power and Lighting

- C405.2.7 Parking Garage Lighting Controls
- Occupancy sensor – 30%/20 minutes
- Lighting zones – 3600 sq ft max
- Eye Adaptation lighting controlled separately
- Exceptions

C405 Power and Lighting

TABLE C405.3.2(1)
INTERIOR LIGHTING POWER ALLOWANCES:
BUILDING AREA METHOD

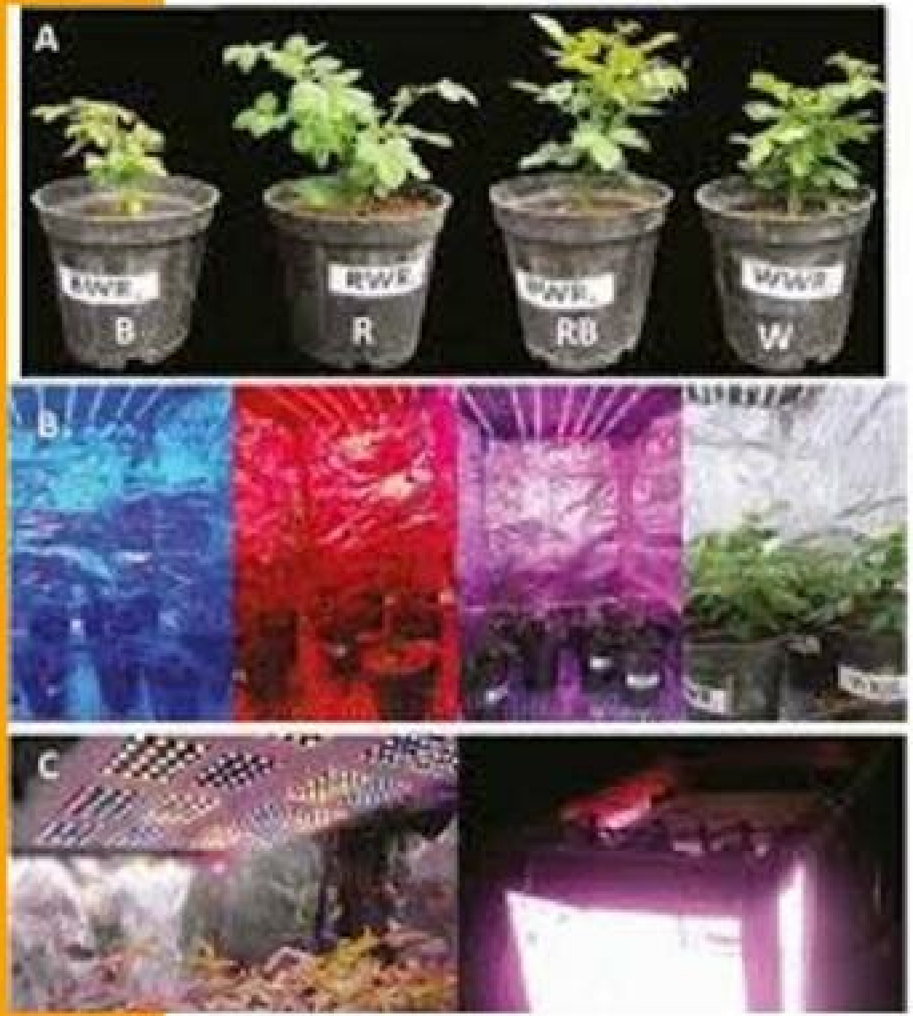
BUILDING AREA TYPE	LPD (watts/ft²)
Automotive facility	0.75
Convention center	0.64
Courthouse	0.79
Dining: bar lounge/leisure	0.80
Dining: cafeteria/fast food	0.76
Dining: family	0.71
Dormitory[a, b]	0.53
Exercise center	0.72
Fire station[a]	0.56
Gymnasium	0.76
Health care clinic	0.81
Hospital[a]	0.96
Hotel/Motel[a, b]	0.56
Library	0.83
Manufacturing facility	0.82
Motion picture theater	0.44
Multiple-family[c]	0.45
Museum	0.55
Office	0.64

(continued)

TABLE C405.3.2(2)
INTERIOR LIGHTING POWER ALLOWANCES:
SPACE-BY-SPACE METHOD

COMMON SPACE TYPES[a]	LPD (watts/ft²)
Atrium	
Less than 40 feet in height	0.48
Greater than 40 feet in height	0.60
Audience seating area	
In an auditorium	0.61
In a gymnasium	0.23
In a motion picture theater	0.27
In a penitentiary	0.67
In a performing arts theater	1.16
In a religious building	0.72
In a sports arena	0.33
Otherwise	0.33
Banking activity area	0.61
Breakroom (See Lounge/breakroom)	
Classroom/lecture hall/training room	
In a penitentiary	0.89
Otherwise	0.71
Computer room, data center	0.94
Conference/meeting/multipurpose room	0.97
Copy/print room	0.31

(continued)



C405 Power and Lighting

C405.4 (NEW)

Lighting for plant growth

- 95% of luminaires = not less than 1.6 umol/J
- Lumens are for humans!

C405 Power and Lighting

- ➢ Energy Monitoring
- ➢ Controlled Outlets

C406.1

Table C406.1(1) Additional Energy Efficiency Credits for Gro

	1A	1B	2A	2B	3A	3B	3C	4A	4B	4C	5A	5B	5C	6A	6B
Heating	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	NA	NA	1	1
Cooling	6	6	5	5	4	4	3	3	3	2	2	2	1	2	2
Heating	NA	NA	NA	NA	NA	NA	NA	1	NA	NA	2	1	1	2	2
Cooling	11	12	10	9	7	7	6	5	6	4	4	5	3	4	3
LPA	9	8	9	9	9	9	10	8	9	9	7	8	8	6	7
Lt Ctrl	2	2	2	2	2	2	2	2	2	2	2	2	2	1	2
able	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	4	4	4	4	4	3	2	5	3	2	5	3	2	7	4
HR	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NG eff	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
A	1	4	2	4	4	3	NA	7	4	5	10	7	6	11	1(

The new C406

- Need 10 points
- Tables based on occupancy and climate
- Multiple uses = weighted average
- Points for
  - Renewables and RECS
  - Lighting
  - Air leakage
  - Better envelopes
  - Efficient kitchen equipment
  - Water heating
    - Energy Monitoring and FDDs
    - Tenant spaces = 5 points

TABLE C407.2
REQUIREMENTS FOR TOTAL BUILDING PERFORMANCE

SECTION[a]	TITLE
Envelope	
C402.5	Air leakage—thermal envelope
Mechanical	
C403.1.1	Calculation of heating and cooling loads
C403.1.2	Data centers
C403.2	System design
C403.3	Heating and cooling equipment efficiencies
C403.4, except C403.4.3, C403.4.4 and C403.4.5	Heating and cooling system controls
C403.5.5	Economizer fault detection and diagnostics
C403.7, except C403.7.4.1	Ventilation and exhaust systems
C403.8, except C403.8.6	Fan and fan controls
C403.9	Large-diameter ceiling fans
C403.11, except C403.11.3	Refrigeration equipment performance
C403.12	Construction of HVAC system elements
C403.13	Mechanical systems located outside of the building thermal envelope
C404	Service water heating
C405, except C405.3	Electrical power and lighting systems
C408	Maintenance information and system commisioning

a. Reference to a code section includes all the relative subsections except as indicated in the table.

C407 Total Building Performance

Chapter 5 Existing Buildings

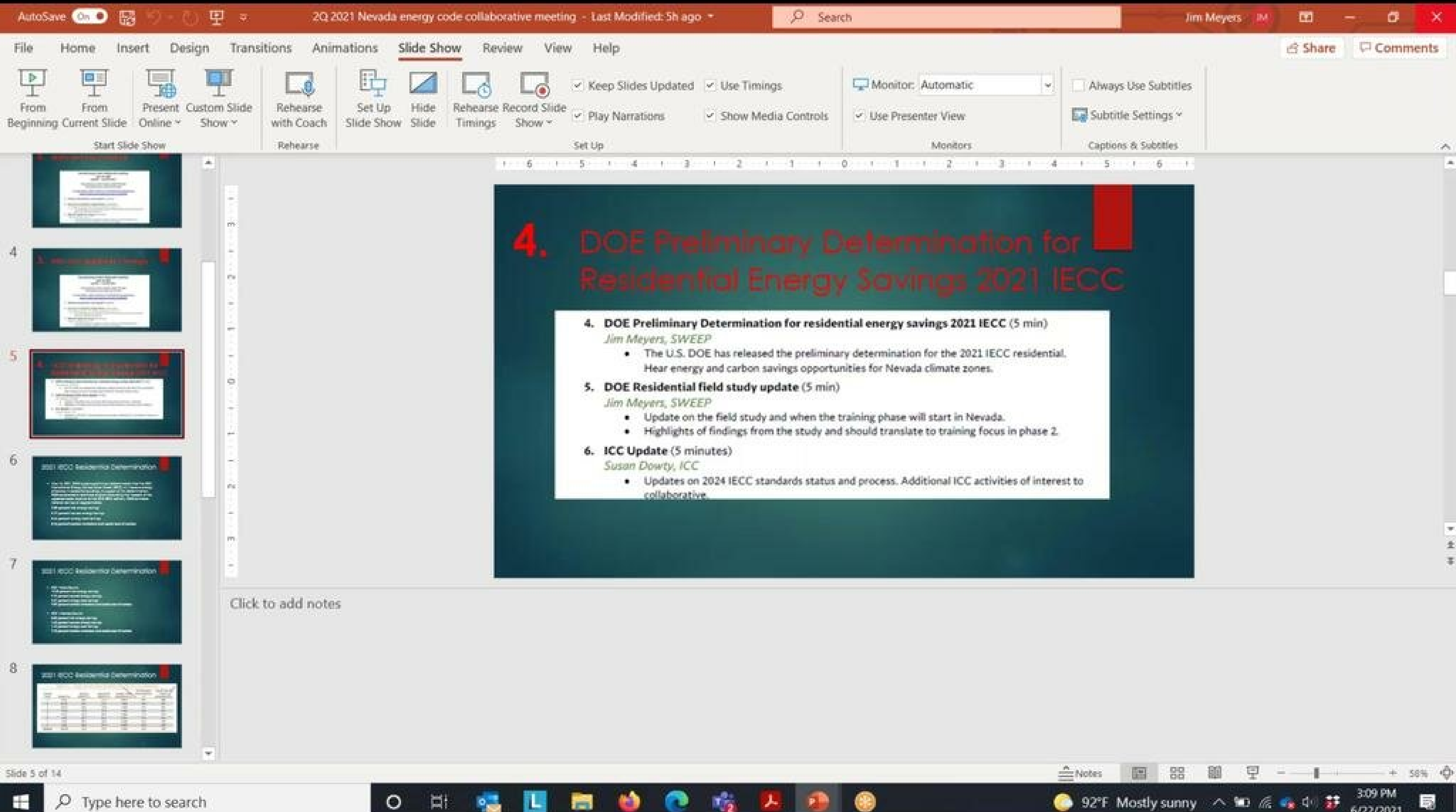
- Changes in space conditioning comply with Section C502 and not the whole code
- New mechanical systems or lighting systems must comply with C408 commissioning requirements where applicable.
- In no case shall the R-value of the roof insulation be reduced, or the U-factor of the roof assembly be increased as part of a roof replacement.

Appendix CA – Solar Ready Zone

Thank you for participating!

THE Mozingo CODE GROUP LLC

Shaunna Mozingo
sdmozingo@mozingocodegroup.com


2Q 2021 Nevada energy code collaborative meeting - Last Modified: 5h ago
4. DOE Preliminary Determination for Residential Energy Savings 2021 IECC
4. DOE Preliminary Determination for residential energy savings 2021 IECC (5 min)
Jim Meyers, SWEEP
The U.S. DOE has released the preliminary determination for the 2021 IECC residential. Hear energy and carbon savings opportunities for Nevada climate zones.
5. DOE Residential field study update (5 min)
Jim Meyers, SWEEP
Update on the field study and when the training phase will start in Nevada.
Highlights of findings from the study and should translate to training focus in phase 2.
6. ICC Update (5 minutes)
Susan Dowty, ICC
Updates on 2024 IECC standards status and process. Additional ICC activities of interest to collaborative.
Click to add notes
Slide 5 of 14
3:09 PM
6/22/2021

2021 IECC Residential Determination

- May 16, 2021, DOE issued a *preliminary* determination that the 2021 International Energy Conservation Code (IECC) will improve energy efficiency in residential buildings. In support of this determination, DOE conducted a technical analysis evaluating the impacts of the updated code (relative to the 2018 IECC edition). DOE estimates national savings of approximately:
- 9.38 percent *site* energy savings
- 8.79 percent *source* energy savings
- 8.66 percent *energy cost* savings
- **8.66 percent *carbon emissions and social cost of carbon***

2021 IECC Residential Determination

- CZ3 – Clark County
  - 10.48 percent *site* energy savings
  - 9.75 percent *source* energy savings
  - 9.57 percent *energy cost* savings
  - **9.59 percent *carbon emissions and social cost of carbon***
- CZ5 – Washoe County
  - 8.50 percent *site* energy savings
  - 7.63 percent *source* energy savings
  - 7.44 percent *energy cost* savings
  - **7.42 percent *carbon emissions and social cost of carbon***

2021 IECC Residential Determination

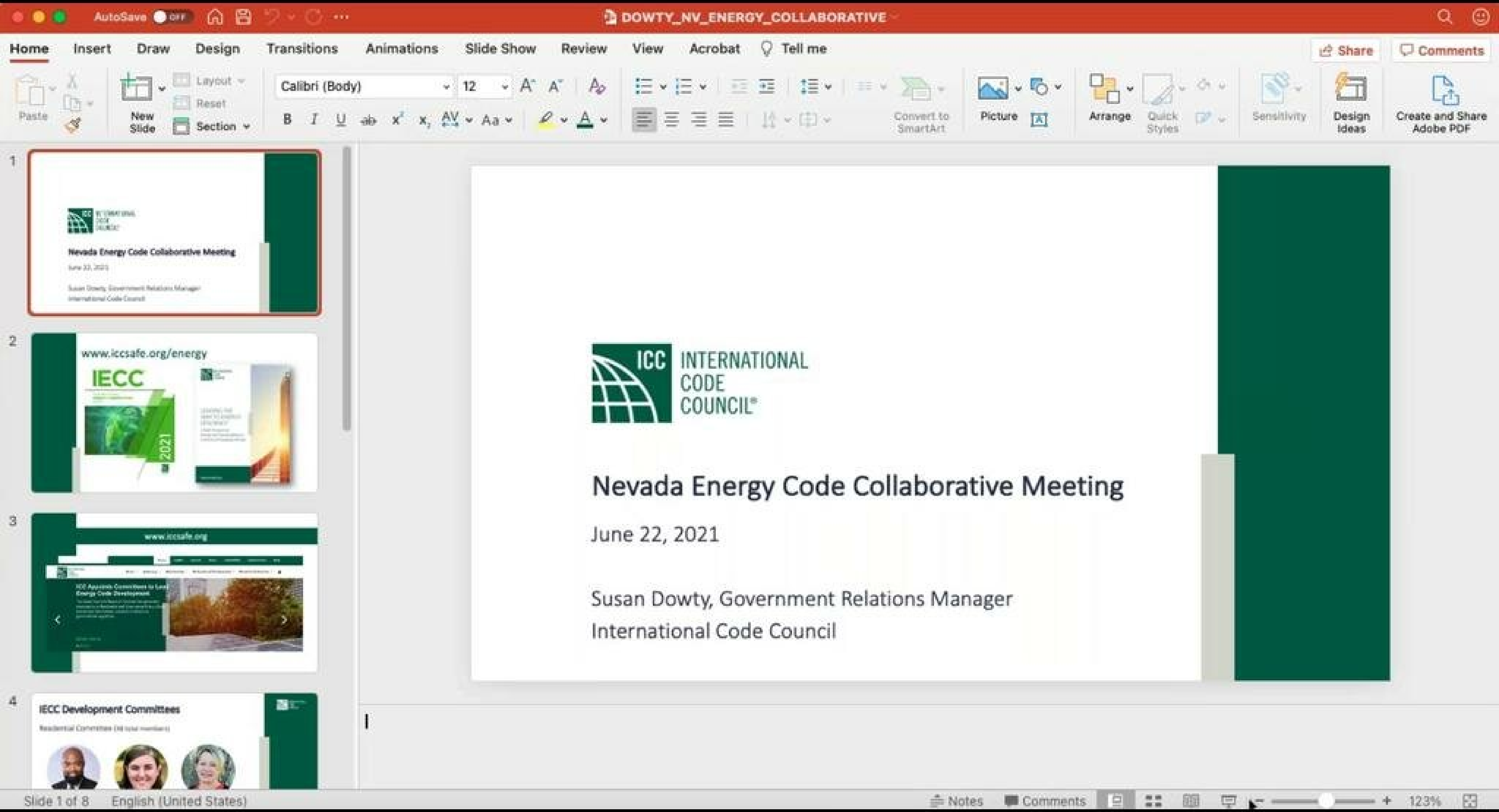
- **State Certification**
  - Upon publication of an affirmative determination, States are *required* to certify that they have reviewed the provisions of their residential building code regarding energy efficiency, and made a determination as to whether it is *appropriate* for them to revise their code to meet or exceed the updated edition of the IECC.
  - DOE provides guidance to States on submitting State certifications for the 2021 IECC must be submitted within two years from the date a final determination is published in the Federal Register.

5. DOE Residential Field Study Update

- All of the QA/QC'ed data at PNNL
- PNNL starting review of data and should provide preliminary results soon
- NASEO working on RFP for training phase 2 project

6. ICC Update

6. **ICC Update** (5 minutes)
   Susan Dowty, ICC
   - Updates on 2024 IECC standards status and process. Additional ICC activities of interest to collaborative.
7. **Legislative Summary Report** (15 minutes)
   Robin Yochum, GOE
   - The session has ended. Hear what passed through the legislature this year and any relations/impacts to buildings or the energy code.
8. **Nevada Governor's Office of Energy – Building program update** (10 minutes)
   Robin Yochum, GOE
   - GOE website update
   - State adoption of latest IECC version, and additional appendices
9. **Wrap Up & Next Steps** (5 minutes)
   - DOE National Energy Codes Conference (Virtual, no-cost) https://www.energycodes.gov/2021-national-energy-codes-conference
   - Closing comments
   - Next meeting date (3 months appx September 2021)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Nevada Energy Code Collaborative Meeting
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Nevada Energy Code Collaborative Meeting
June 22, 2021
Susan Dowty, Government Relations Manager
International Code Council
Slide 1 of 8
English (United States)
Notes
Comments
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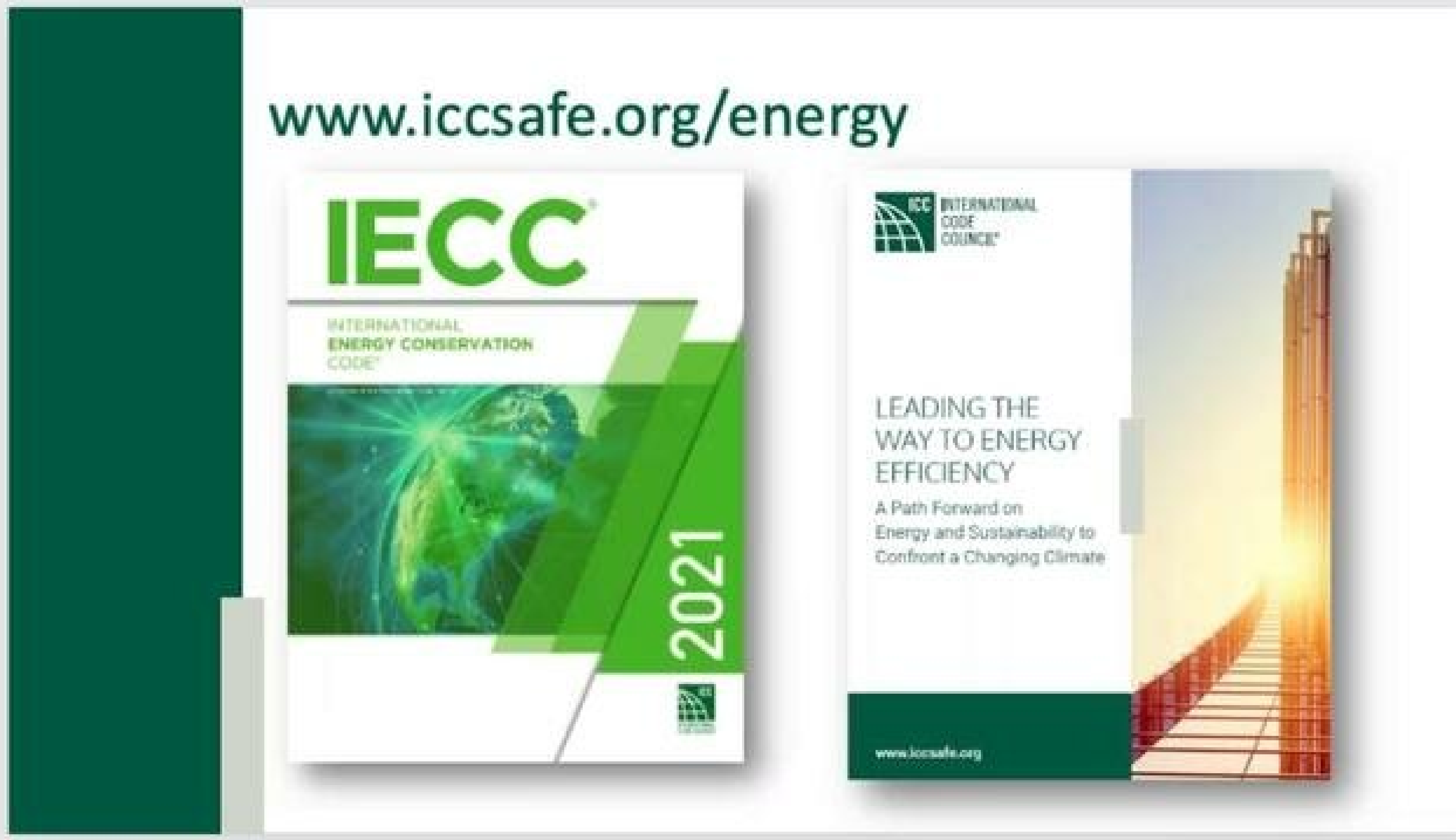

Sign up for updates

Back in March, we released a new framework — Leading the Way to Energy Efficiency: A Path Forward on Energy and Sustainability to Confront a Changing Climate — to assist in meeting energy efficiency goals. And it was announced at that time that the framework includes using the standards development process to update the International Energy Conservation Code.

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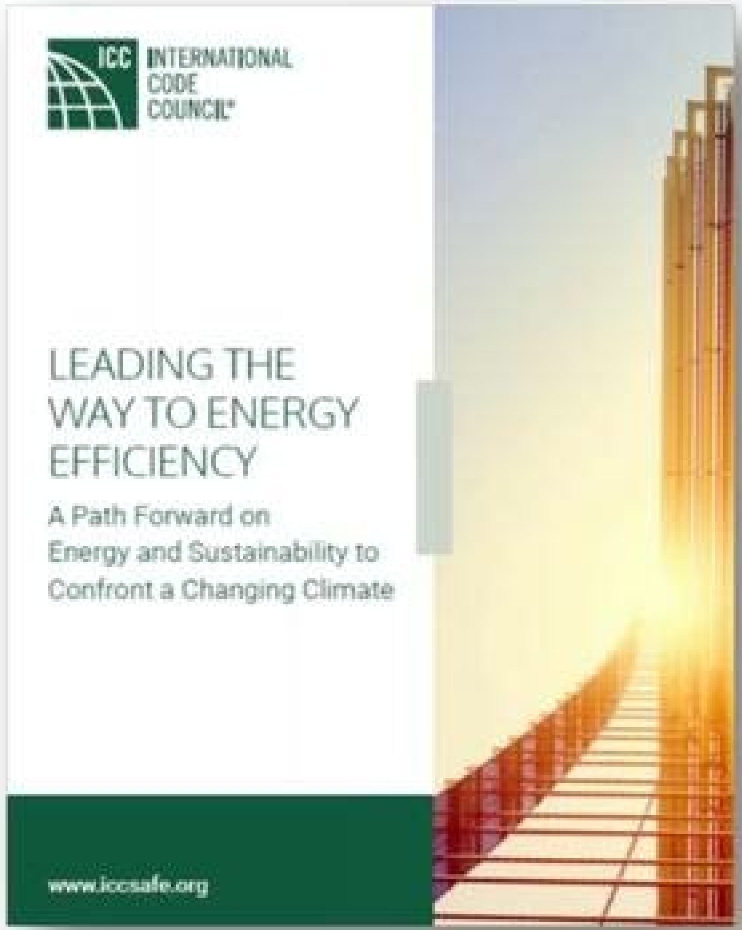

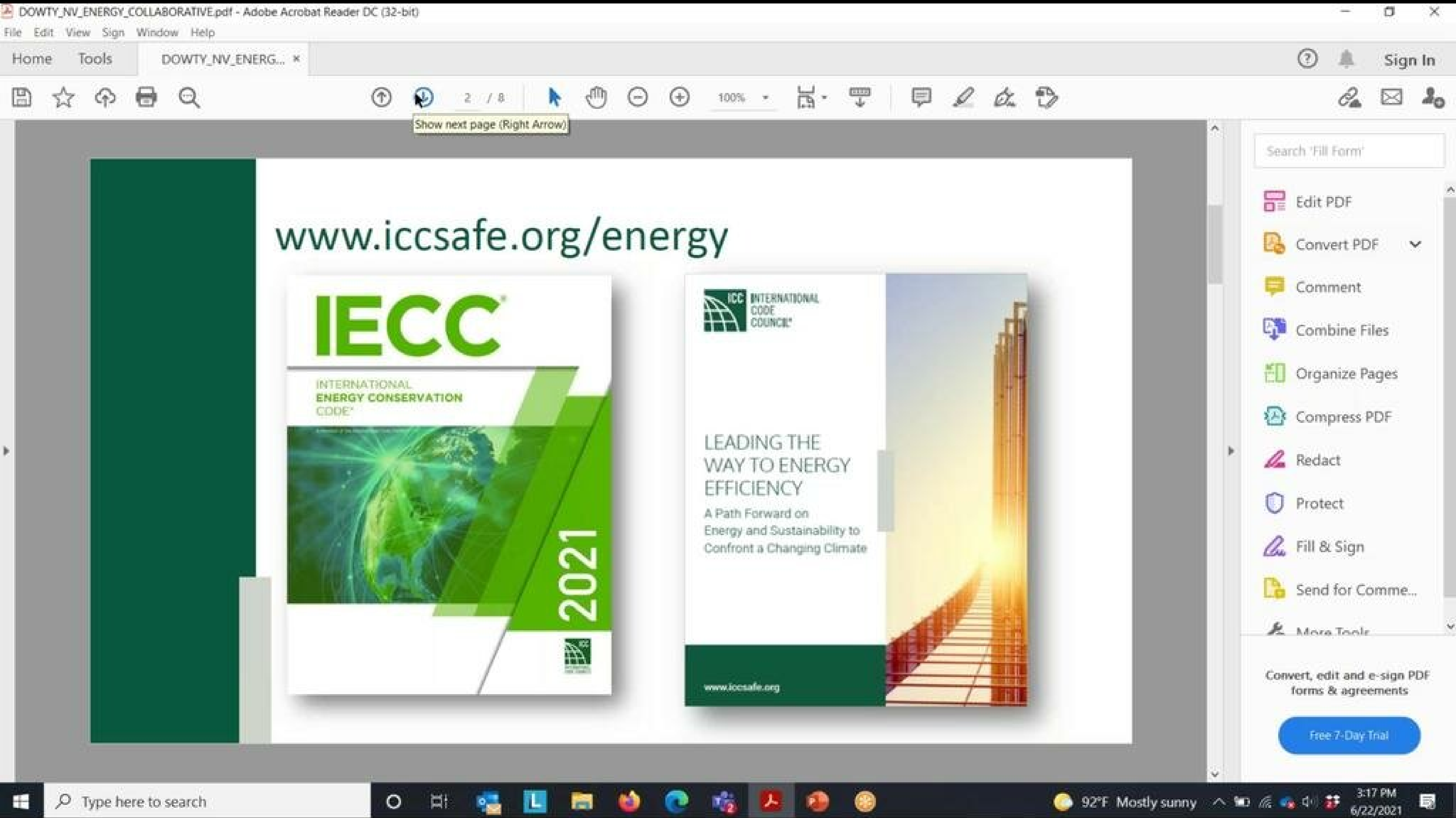
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2021
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LEADING THE WAY TO ENERGY EFFICIENCY
A Path Forward on Energy and Sustainability to Confront a Changing Climate
www.iccsafe.org

IECC Development Committees

Commercial Committee (45 total members)

Duane Jonlin
Chair of the Commercial Energy Code Consensus Committee, Energy Code & Conservation Advisor, Seattle, WA

Emily Hoffman
Vice Chair of the Commercial Energy Code Consensus Committee, Director of Energy Code Compliance,

See the full list of appointments

IECC Development Committees

Residential Committee (48 total members)

JC Hudgison
Chair of the Residential Energy Code Consensus Committee, Chief Building Official, Tampa, FL

Bridget Herring
Vice Chair of the Residential Energy Code Consensus Committee, Energy Program Coordinator, Ashville, NC

Robin Yochum
Vice Chair of the Residential Energy Code Consensus Committee, Energy Program Manager, State of Nevada

The International Code Council family of solutions is helping our communities forge a path forward on energy and sustainability to confront the impacts of a changing climate.

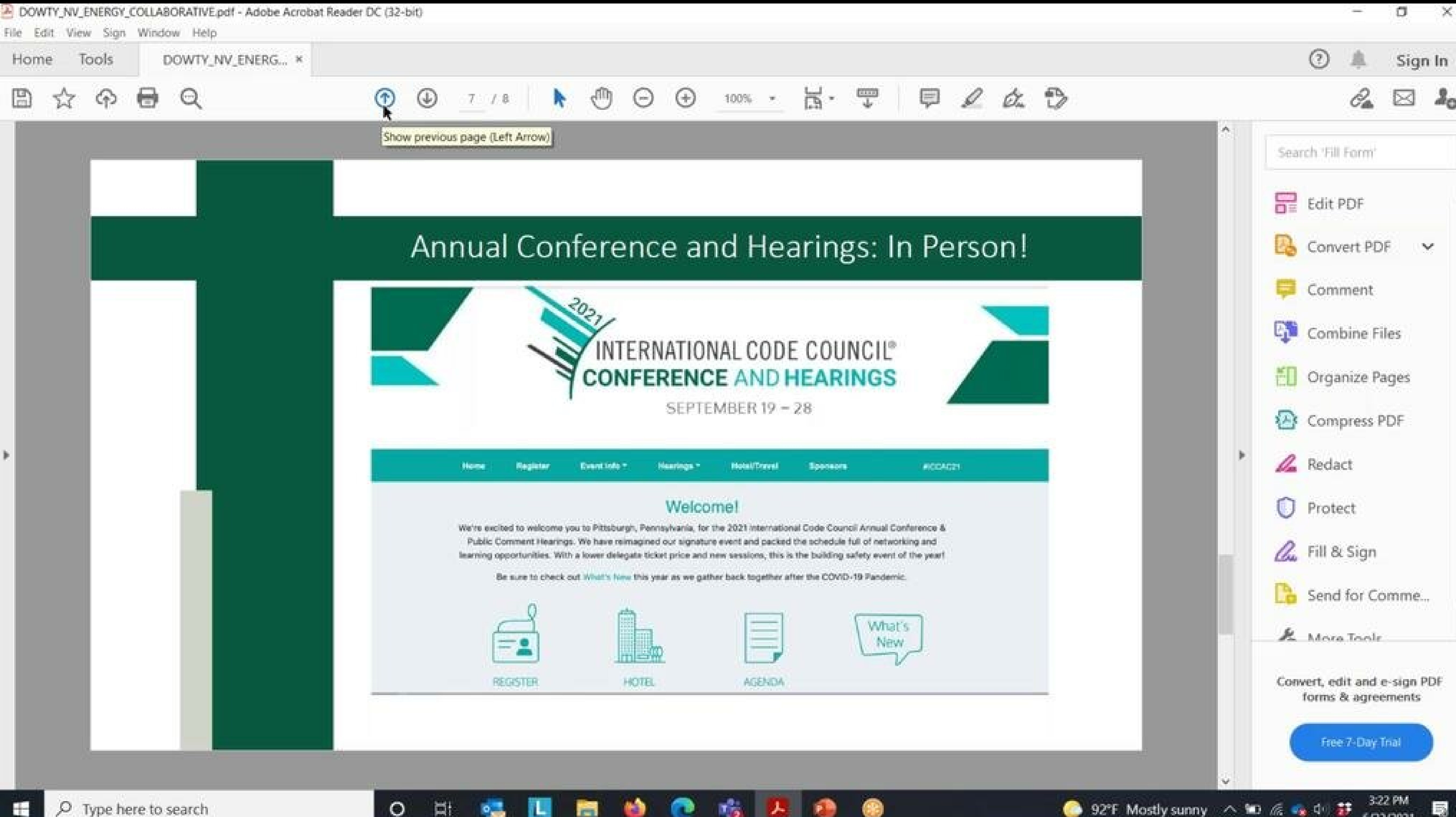
INTERNATIONAL CODE COUNCIL

Executive Summary | Join the Conversation | FAQs

International Code Council Appoints Committees to Lead Energy Code Development

Committee Roster

www.iccsafe.org/energy



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2021
INTERNATIONAL CODE COUNCIL®
CONFERENCE AND HEARINGS
SEPTEMBER 19 – 28
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Hearings
Hotel/Travel
Sponsors
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Welcome!
We're excited to welcome you to Pittsburgh, Pennsylvania, for the 2021 International Code Council Annual Conference & Public Comment Hearings. We have reimagined our signature event and packed the schedule full of networking and learning opportunities. With a lower delegate ticket price and new sessions, this is the building safety event of the year!
Be sure to check out What's New this year as we gather back together after the COVID-19 Pandemic.
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INTERNATIONAL CODE COUNCIL®

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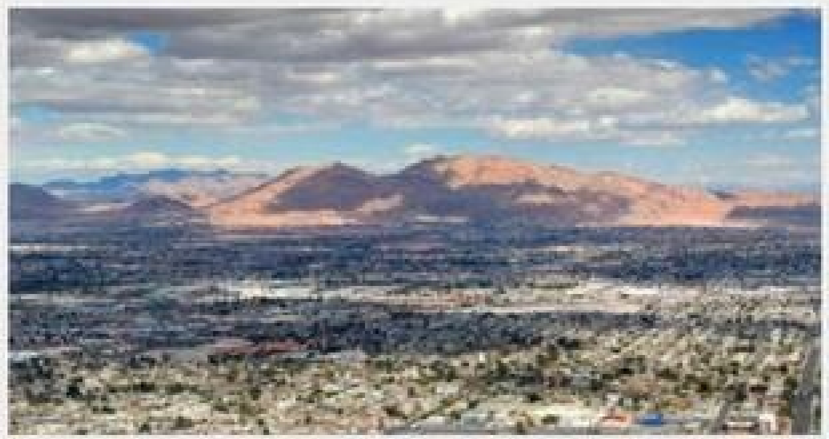
Nevada Governor's
Office of Energy



Statutes and Regulations

- NRS 701.220
- NAC 701.185 (R153-17AP)
- NAC 701.195-NAC 701.245
- Rulemaking and Adoption

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Energy Codes in Nevada

The International Energy Conservation Code (IECC), originally developed in 2000, is a model code adopted throughout the country to establish minimum standards for the energy efficient construction and renovation of residential and commercial buildings.

Pursuant to NRS 701.220, the Governor's Office of Energy (GOE) is required to adopt the most recently published version of the IECC on a triennial basis. Upon adoption by GOE, local municipalities shall follow suit and are authorized to adopt amendments and/or provisions which are more stringent then the standards published and adopted.

IECC ADOPTION IN NEVADA

ENERGY CODE INITIATIVES

LEARN MORE ABOUT ENERGY CODES

WORKFORCE DEVELOPMENT

https://energy.nv.gov/program: ×

energy.nv.gov/programs/building_energy_codes/

Apps | Reading list

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IECC ADOPTION IN NEVADA

Current status of IECC adoption in Nevada.

- State Adoption
- Local Adoption
- 2021 IECC Adoption

ENERGY CODE INITIATIVES

GOE participates locally and nationally on energy code initiatives.

- U.S DOE Residential Field study
- Community College Energy Code Training Pilot
- Nevada Energy Code Collaborative

LEARN MORE ABOUT ENERGY CODES

Additional resources and information.

- U.S DOE Building Energy Codes Program (BECP)
- Building Codes Assistance Project (BCAP)
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WORKFORCE DEVELOPMENT

Interested in becoming a code official?

- U.S DOE Building Energy Code Trainings
- EduCode
- ICC Professional Development

https://energy.nv.gov/Programs/Building_Energy_Codes/State_Adoption_Status/

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NEVADA ENERGY CODE COLLABORATIVE (NECC)

The Nevada Energy Code Collaborative was established in 2012 as a collaboration between GOE and the Southwest Energy Efficiency Project (SWEEP) to provide a platform for all interested stakeholders to gather and share issues, ideas, training opportunities, and new and innovative technologies.

The NECC includes representatives from a diverse group of Nevada stakeholders, including Building Officials, Sustainability Managers, Home Builders, Utilities, design professionals, energy efficiency experts and trade groups interested in energy codes and related topics.

NECC meets quarterly to provide updates on upcoming technologies in the industry, codes, and legislation relative to codes and energy efficiency initiatives. Each quarter an industry expert is invited to present to the group on a variety of topics.

If you are interested in participating in the collaborative either as an interested stakeholder or as a presenter, please contact Robin Yochum.

Contact

Robin Yochum, Energy Program Manager
775-434-3087
ryochum@energy.nv.gov

2020 Meetings

- January 2020 Minutes
- January 2020 Presentations
- April 2020 Minutes
- August 2020 Minutes
- August 2020 Presentations
- December 2020 Minutes

2021 Meetings

- March 2021 Minutes
- March Presentations
- Next meeting scheduled for Tuesday June 22 @1:00 PST (view agenda and virtual meeting information here)

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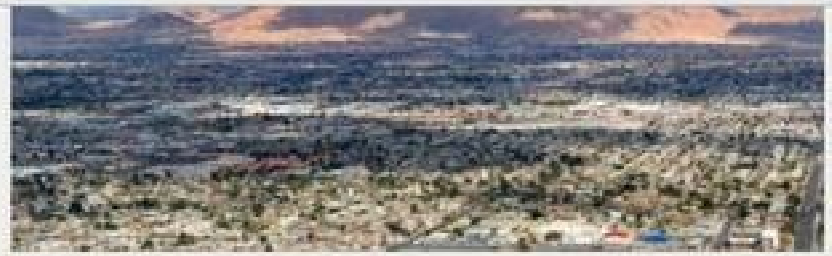

Rulemaking and Adoption

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