

AGENDA
Arkansas Department of Energy and Environment
Arkansas Energy Code Stakeholder Meeting Agenda

Zoom Video Conference (no meeting on premises)

<https://zoom.us/j/6681558398>

877-369-0926

Meeting ID: 668 155 8398

February 5, 2021
(9:00 a.m. – 11:00 a.m.)

- Introduction and announcements
 - a. Process and schedule
- Review all changes to Arkansas Energy Code
 - a. New sections
 - b. Existing but updated sections
 - c. What's NOT included
- Next Steps: Final approvals, Education, Training, & Outreach

Participants are encouraged to use the Zoom “chat” feature for questions and comments during the presentation.

Stakeholder Meeting

February 5, 2021
Arkansas Energy Code



ARKANSAS
ENERGY & ENVIRONMENT

Arkansas Energy Office Introductions

- energyinfo@adeq.state.ar.us
- Tim Quetsch, Engineer
 - 501-548-4651
 - Tim.Quetsch@adeq.state.ar.us
- Ryan Burris, Training Project Manager
 - 501-682-0976
 - Ryan.burris@adeq.state.ar.us
- Bourke Reeve, Facilitator
 - bourke.reeve@threepointsplanning.com

Virtual Meeting Process

- Attendees will be muted during presentation
- Please submit questions or comments during the presentation via “Chat” feature
- Questions and comments can also be submitted via email – energyinfo@adeq.state.ar.us
- *6 to unmute phone users

Topics Covered

1. Arkansas Update Process
2. DRAFT Arkansas Energy Code Version February 5
3. Arkansas Code Draft Next Steps
4. Education, Training & Outreach
5. Stakeholder Feedback

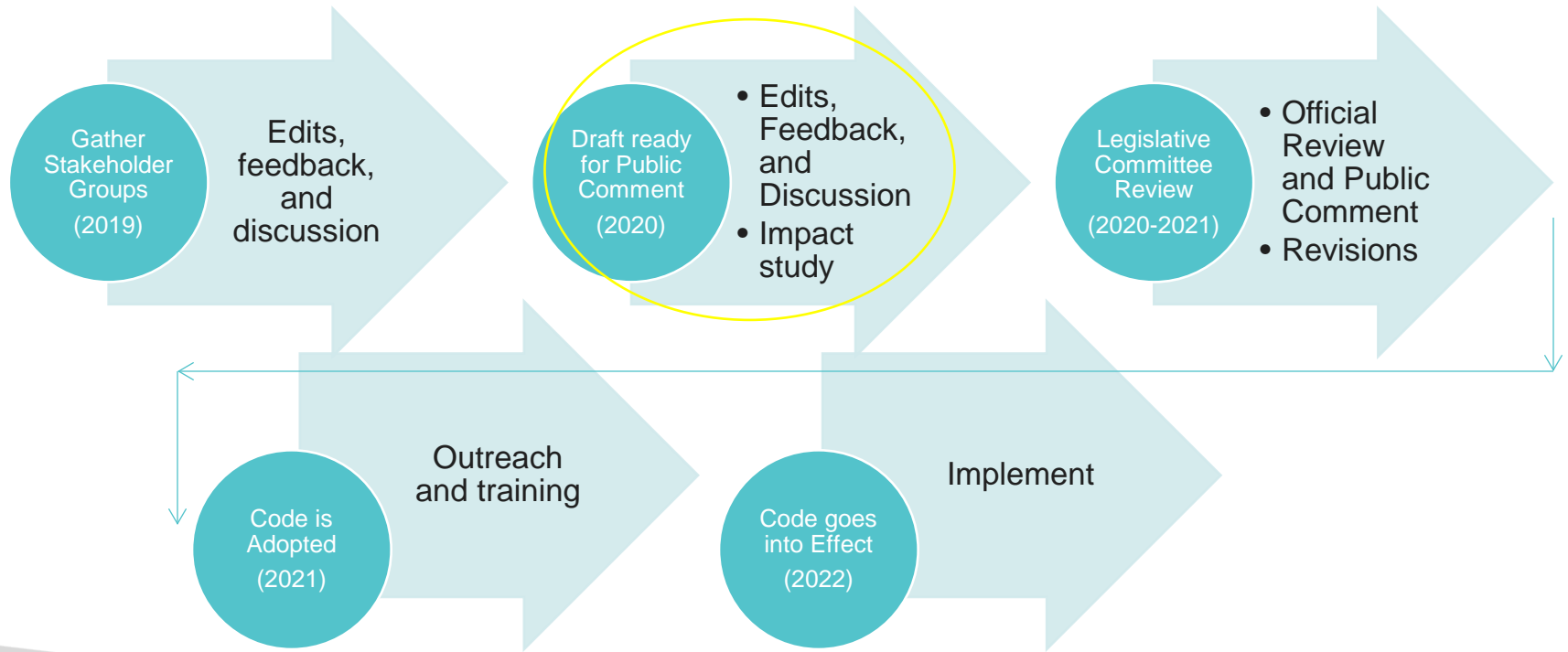
Arkansas Update Process

- 2018 IECC Model Code as reference standard
 - June 2020 DRAFT
 - August 2020 DRAFT
 - **February 2021 DRAFT**
- Stakeholder Meetings November 2019, January 2020, June 2020, August 2020
- Subcommittee Workgroup Meetings in March, April, May, July, August, December 2020, January 2021
- Builder Outreach and Surveys July-December 2020.

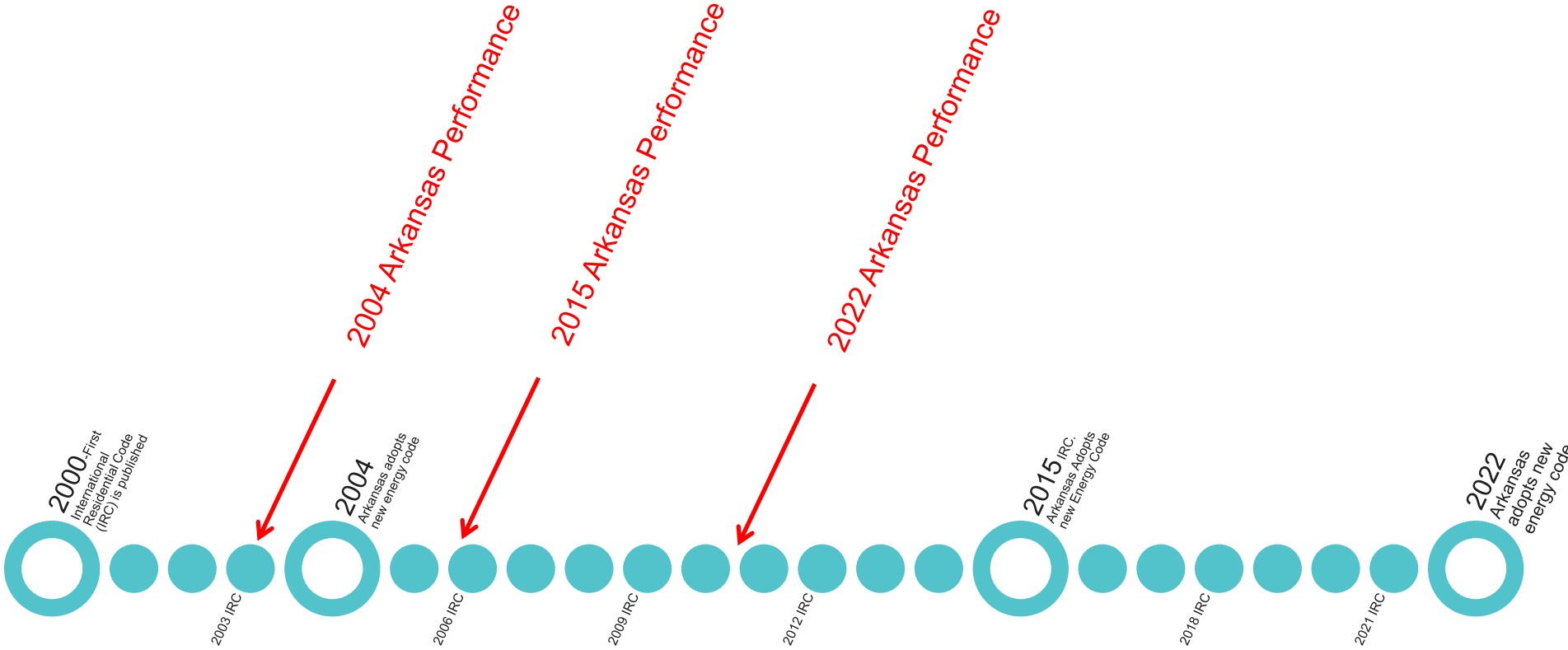
DRAFT Available at

<https://www.adeq.state.ar.us/energy/incentives/building.aspx>

Timeline



RESIDENTIAL ENERGY CODE PERFORMANCE



What is new-RESIDENTIAL

- Duct Testing
- Blower Door Testing
- LED lighting
- Programmable Thermostat
- Hot Water Pipe Insulation
- OPTIONAL Energy Rating

What is Modified

- Windows
- Ceiling Insulation
- Duct and Envelope Tightness

What is NOT Included

- R-20 Wall Insulation
- Slab Edge Insulation
- Solar Requirements
- Electric Vehicle Charger Requirements
- All-Electric Appliances
- Mandatory HERS Rating
- R-8 Duct Insulation
- Air Conditioner and Furnace Efficiency/SEER

		2014 AR Energy Code		2021 AR Energy Code					
	2003	2006	2009	2012	2015	2018	2021		
High-efficient Lighting	0%		50%	75%		90%			
Windows U-factor	.50/.50		.50/.35	.35/.35		.32/.32			
Optional HERS Rating tradeoffs	NR				Yes				
Ceiling Insulation	30/30		30/38	38/38	38/49				
Blower Door Testing	NR		NR	Yes					
Vent Fan Efficacy	NR			Yes					
Hot Water Pipe Insulation	NR			3					
Windows SHGC			.30/NR	.25/.40			.30 .30		
Envelope Tightness(ACH)			7	5	3				
Duct Testing % Leakage			4%-12%	6%	3%-4%				
Duct Testing	No		Yes						
Optional REScheck tradeoffs	NR		Yes						
Slab Insulation	0/0	0/3	0/10						
Programmable thermostat	NR		Required						
Basement/Crawlspace Wall Insulation		5-13/5-13	5-13/10-13						
Mechanical Ventilation			Maybe	Yes					
Sticker			Yes						
Pool & Spa controls			Yes						
Duct Insulation	6	8							
Wall Insulation	13		13	20 or 13+5					
Floor Insulation	19		19						
Duct Sealing	Yes		Yes						
Air Sealing	Yes		Yes						
Manual J Equipment Sizing	Yes		Yes						
Manual J provided to code official	NR		NR						

Commercial Energy Code

- Existing: 2009 IECC or 2007 ASHRAE 90.1
- New: 2018 IECC or 2016 ASHRAE 90.1

- Arkansas Commercial Code Amendments add options and flexibility to 2018 standard

- Estimated 32% energy savings over existing code

Summary-Commercial IECC- 6/2020

Category	2009	2012	2015	2018
ASHRAE 90.1 Version	2007	2010	2013	2016
Attic Insulation	↑R-38	→ SAME	→ SAME	→ SAME
Roof Deck Insulation	↑R-20	↑R20-R25	↑R25-R30	→ SAME
Wood-framed wall insulation	→ R-13	↑R-20	→ SAME	→ SAME
Solar Heat Gain Coefficient	→0.25-0.4	→ SAME	→ SAME	↑0.25-0.36
Envelope Air Leakage (cfm/ft ²)	No test	↑0.04	→ SAME	→ SAME

Next Steps

Education and Training:

- Outreach to Industry Partners (Summer 2021)
- Education and Training Programs Launched (Summer/Fall 2021)
 - Manual J
 - Best Practices with the new code
 - Duct and Blower Door Training and Equipment
 - ASHRAE 90.1
 - Field Guide publication

Arkansas Energy Code Collaborative Convening (Continuing 2021)

New Code Effective Date:

- January 1, 2022
- Testing Effective Date January 1, 2023

KEEP IN TOUCH



ARKANSAS ENERGY OFFICE

5301 Northshore Drive
North Little Rock, AR, Zip Code



PHONE

501.548.4651



EMAIL

Energyinfo@adeq.state.ar.us
Tim.quetsch@adeq.state.ar.us



WEBSITE

adeq.state.ar.us/energy/incentives/building.aspx



@AREnergyEnvironment



@ArkansasEE



ARKANSAS
ENERGY & ENVIRONMENT