

# Supporting Energy Efficiency through Building Codes and “The 30% Solution”

Presentation to  
Climate, Energy, and Environment Policy Committee

Joan B. Kelsch  
Environmental Planner, Arlington County  
Chair, Intergovernmental Green Building Group (COG)



May 26, 2010

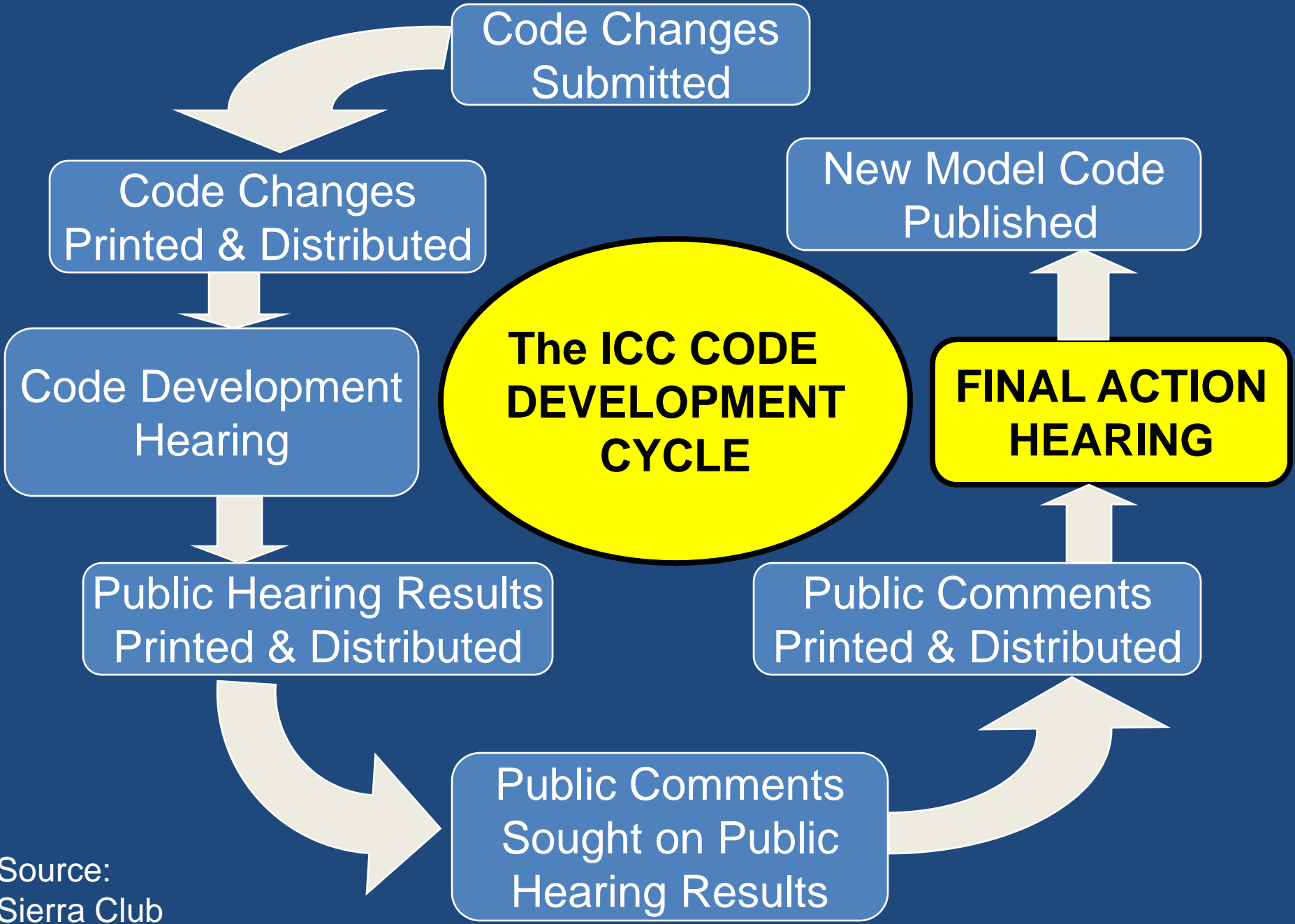
# Why Buildings and Energy Codes?

- Buildings use **40%** of energy in U.S. and contribute **40%** of CO<sub>2</sub> emissions
  - Building codes provide specific, detailed design and construction criteria that must be met, approved to receive building permit
  - International Code Council process updates codes every three years
    - Energy is the primary focus



Source:  
Sierra Club  
Energy Efficiency Codes Coalition

**The ICC CODE DEVELOPMENT CYCLE**



Source:  
Sierra Club  
Energy Efficiency Codes Coalition

## Supporting the 30% Solution

### Proposals for the 2012 International Energy Conservation Code (IECC) include:

- More efficient windows and doors
- More efficient lighting
- Increased insulation
- Air sealing and testing for envelope and ductwork
- More efficient hot water and HVAC systems



2012 IECC expected to have energy savings of at least 15% over 2009 IECC and 30% over 2006 IECC



Source:  
Sierra Club  
Energy Efficiency Codes Coalition

## Why Local Governments *Must* Get Involved

- **Local Government Employees Control the Outcome**
  - ICC Government Members (your municipal/county code officials) will decide fate of the 2012 IECC in Charlotte in October
- **Significant Impact of Success or Failure**
  - 2012 IECC could impact millions of homes to be built through 2015
  - Annual Impacts by 2030: 3 Quads, 160 MMT CO<sub>2</sub>, and \$20 billion consumer savings



Source:  
Sierra Club  
Energy Efficiency Codes Coalition



# Final Action Hearing on 2012 IECC



*When:* October 28-November 1, 2010

*Where:* Charlotte Convention Center  
Charlotte, NC

- Proposals to amend improve Energy Efficiency will dominate the agenda and be voted on
- Local government attendance is crucial because only Government Members can vote at ICC Final Action Hearings ...



Source:  
Sierra Club  
Energy Efficiency Codes Coalition

# The Rules



- Your jurisdiction's "Government Membership" *and* the list of your authorized voting representatives must be received/renewed by ICC no later than October 18, 2010.
- Your voting representatives *must be in the room* to cast their vote.



Source:  
Sierra Club  
Energy Efficiency Codes Coalition



# Support the 30% Solution

- Encourage staff to attend October meetings
- Travel funds
  - COG has applied for grant funding from the Energy Foundation for travel and lodging

*Sending your maximum allowed delegation to Charlotte this fall may be one of the most cost-effective energy efficiency investments you will make in 2010.*



Source:  
Sierra Club  
Energy Efficiency Codes Coalition

# The 30% Solution Checklist

- Join or Renew Your ICC Government Membership by October 18, 2010
- Submit your list of voting representatives attending the Charlotte Final Action Hearings by October 18, 2010
- Arrange your delegation's travel & lodging
- Encourage attendees to attend pre-meeting training
- Urge your voting representatives to support "The 30% Solution 2012" in Charlotte



Source:  
Sierra Club  
Energy Efficiency Codes Coalition