

# Program Administrator Role in Advancing Codes & Standards

June 12, 2012

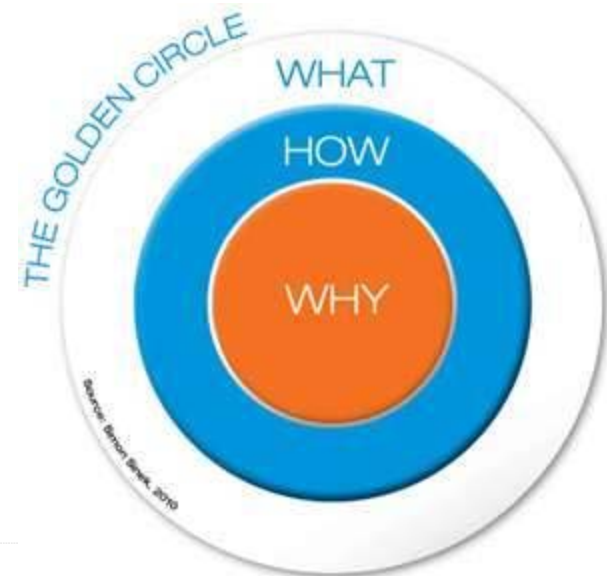




# Objective

- Encourage adoption and compliance of more stringent building energy codes and appliance standards, taking into account the value added by PA involvement
- PAs see this as an opportunity to be strategic and address customer barriers
- PAs would only seek to claim the additional savings generated through unique efforts attributable to PA efforts
- PAs not seeking to claim savings that are not attributable to PA efforts

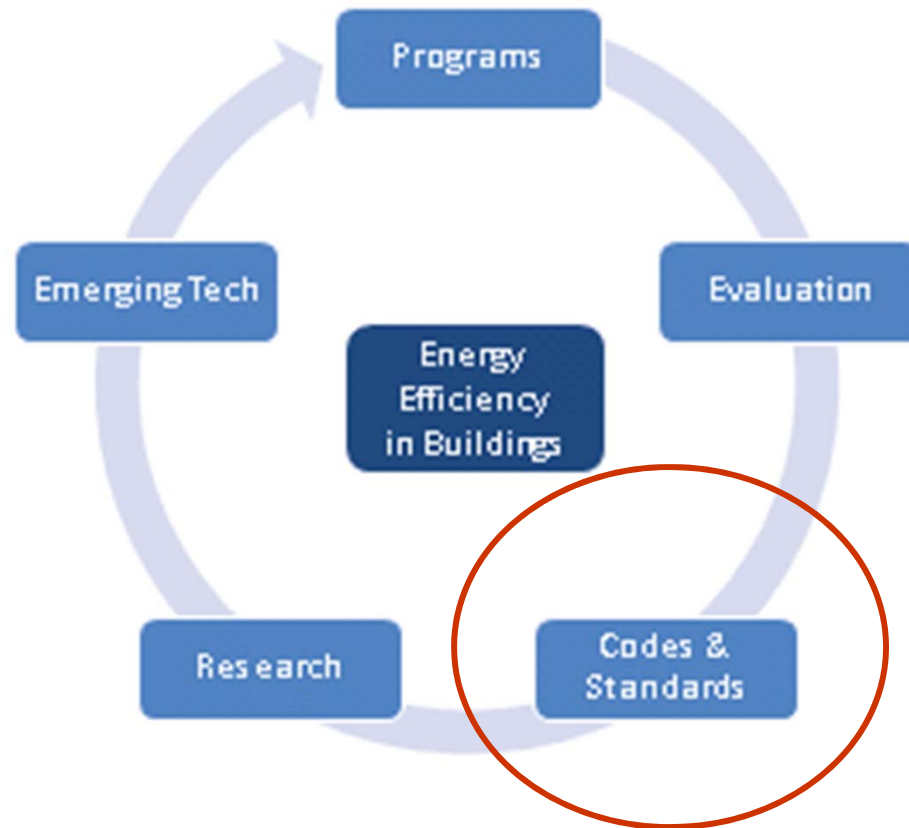
- Three Questions to Consider:
  - What: Building energy code and appliance standards
  - Why: Reasons/motivation for PA participation, value add of PA participation
  - How: PA process and overview of initiatives
- Ongoing Issues
- Next steps/Timelines



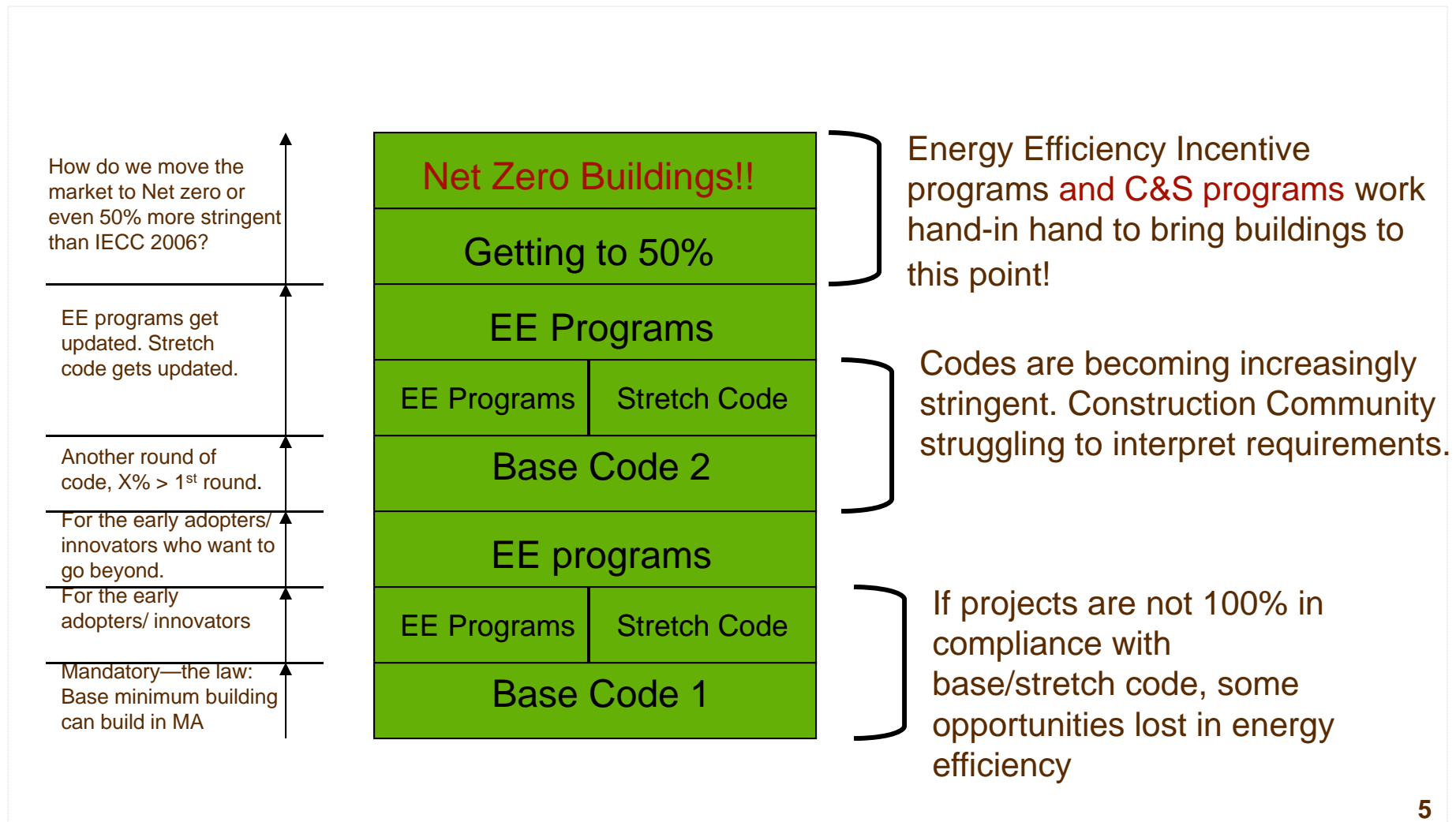


# What: Building Energy Codes & Appliance/Equipment Standards (C&S)

## Innovation Cycle of Energy Efficiency in Buildings



# Why: PA Role in the Codes Ladder





## Why PA Involvement?

- PAs have innovative ideas to support advancement of codes and meet energy goals with large impacts
- Customers and trade allies reach out to PAs for technical guidance
  - Close contact with building industry through incentive programs
  - In-house technical expertise
  - State needs to meet ARRA targets (90% compliance)



# National Studies Show Efforts are Cost-Effective and Successful

- C&S programs have been cost-effective in other states, including CA, where C&S accounted for 20% of DSM savings.
- While CA's focus of initiatives is not exactly comparable to the ones MA may select, this is a clear indication that EE efforts in C&S can be successful
  - CA focus is development of Title 24 Energy Code; MA focus is compliance support
- Development of methodology slow, but was ultimately proven successful
- PAs researched AZ, Northwest, BC Hydro, NYSERDA, etc.
- Institute of Market Transformation states that the national potential of C&S is high, based on the assumption that 100% of projects comply with code



# How: Program Planning- PA Work in Progress

- PAs following a thorough and organized process
- Awaiting results of many ongoing studies
- Work in progress includes:
  - Collaborative PA effort, both residential and C&I
  - Hired consultant team
  - Working to identify & prioritize initiatives
  - Identified stakeholders
  - Ongoing research efforts
  - Coordination with Commonwealth (DOER/BBRS)
  - Ongoing savings/attribution/evaluation discussions
  - 2013 three-year program planning preparation





# How do we Prioritize Initiatives?

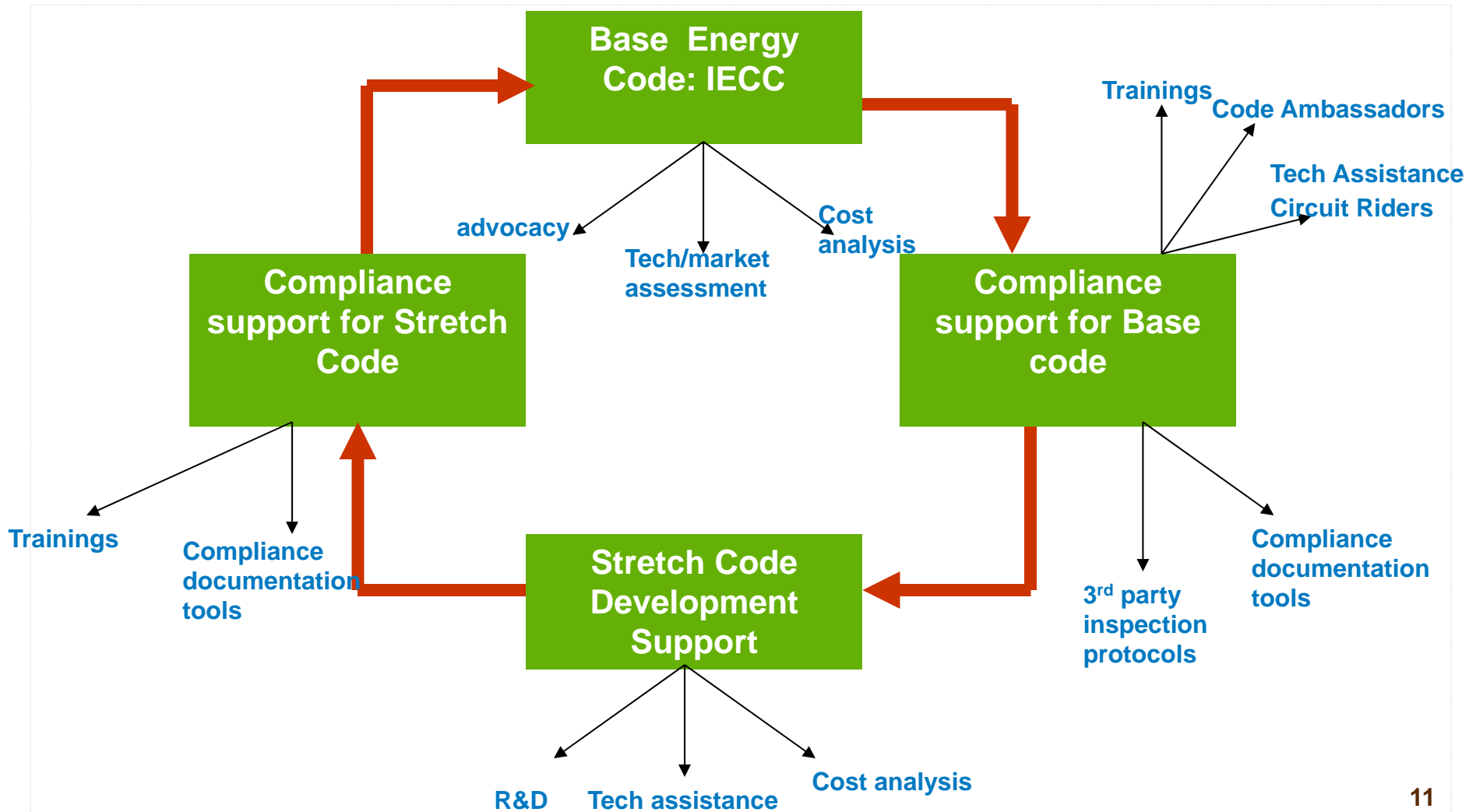
- Need
- Current status
- Overlap with state programs
- Rationale for PA involvement
- Approximate budgets, energy savings potential



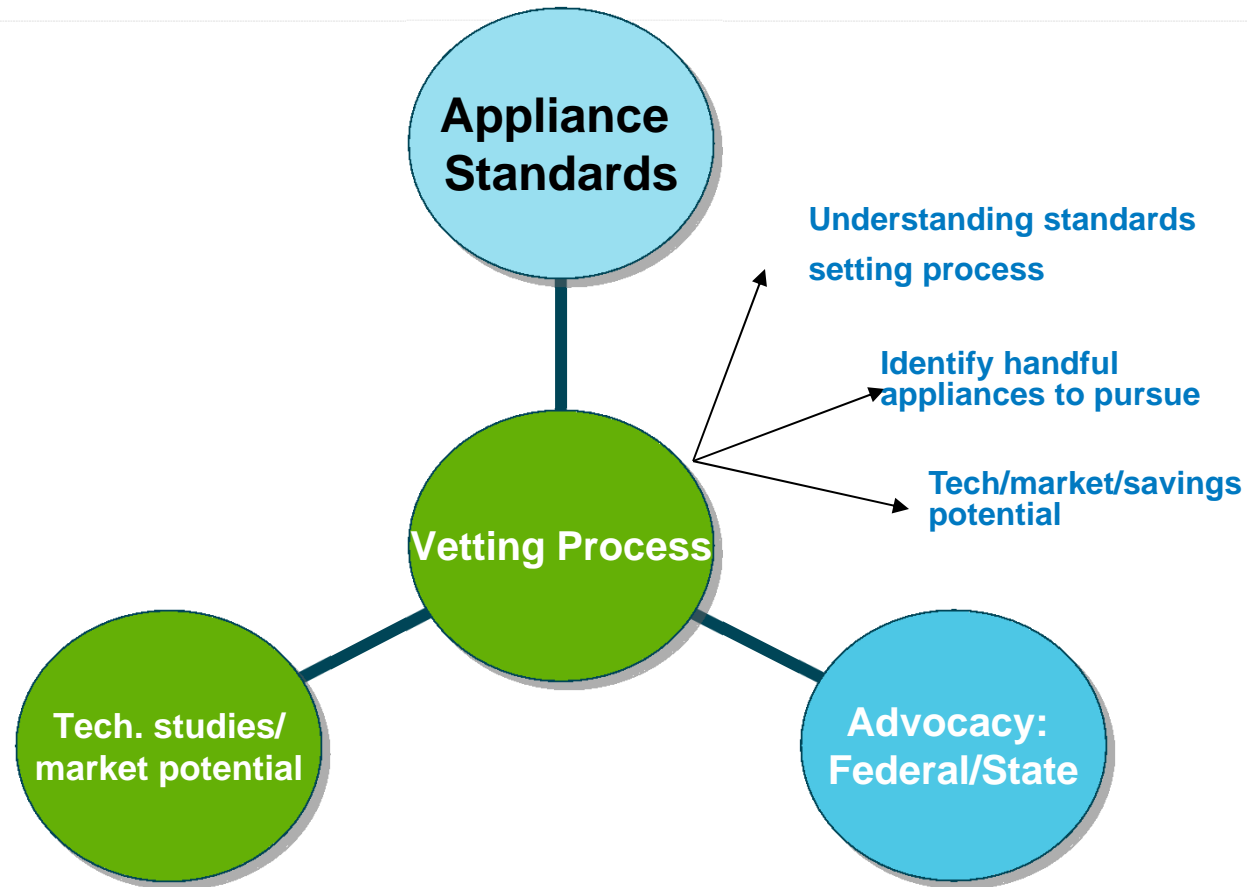
# How: Paths to Savings through Codes & Standards Efforts

- PAs are reviewing the following potential paths to assist through codes/standards initiative:
  - Code Compliance: Assist the State to help construction community comply with code
  - Stretch Code Development: Assist State with technical assistance/ market potential/benefit cost analysis of stretch code development
  - Appliance standards support: Strategically pursue technical analysis of appliance efficiencies, and provide advocacy at state/regional/federal level

# Energy Code Initiatives



# Appliance Standards Initiative





# Ongoing Issues

- Savings Potential & Quantification
  - Long-term outlook
  - Savings may not be realized until later
  - Quantifying savings through code compliance support--challenge
  - Program cost-effectiveness
  - Challenge is to work with communities that may not have the resources to fully enforce the code, as well as manufacturing community
- Attribution to PA effort
  - Less rigorous approach than California?
  - Agreed upon percent, based on set achieved goals?
  - Low impact, medium impact, high impact?
- Evaluation of C&S
  - Fairly new methodology (especially code compliance)
  - Qualitative, quantitative analysis (what does it look like?)



# Ongoing efforts with Timelines

<b>Topics</b>	<b>Timelines</b>
Active C&S planning by PA Implementation team	April 2011 onwards
Initial meetings—BBRS/NEEP/ASAP	Jan 2011 onwards
Code compliance studies (Started 2011)	June 30, 2012
1 <sup>st</sup> draft proposal on C&S to DOER/BBRS	Sept 2011
Series of meetings with DOER	Oct 2011-Jan 2012
Evaluation sub group meetings	Feb 2012 onwards
2nd draft proposal on C&S to DOER/BBRS	April 2012
Ongoing attribution study by NEEP	October 2012
Savings/Attribution/Evaluation proposal to DOER/BBRS	June 30 2012
PAs internal decision on 2013 program planning	August 1, 2012



# Key Takeaways

- Through this initiative, PAs have an opportunity to be more “strategic” towards a long-term EE plan that supports more stringent codes/standards and supports ongoing incentive programs
- A good opportunity for PAs to address customer barriers in the world of codes/standards