Getting Building Codes Right

The importance of long term targets and frequent revision cycles.

13th November 2013
Overview

- Global Buildings Performance Network – Who we are and what we do
- Rationale for the webinar series
- GBPN Policy Comparative Tool
  - Methodology
  - Key results
- Dynamic Process - Long term targets and frequent revisions cycles
- Upcoming webinars
Our mission is to significantly reduce greenhouse gas emissions associated with building energy use by transforming policies and markets.

Global Center

Conducting cross-cutting research and analysis
Connecting regional institutions, and share the best thinking building energy and GHG policy.
Communicating progress toward achieving the GHG abatement potential of the building sector

Harvesting best practices policies in building energy efficiency and performance.

Advancing policies and programs that promote low carbon, energy & efficient buildings.

Offering world class energy efficiency expertise to policy makers and business leaders.
Rationale

*Learning from current best practice building energy codes.*

- How have countries practically implemented such best practices?
- What challenges and opportunities have been faced?
- What are the key lessons learned?
- How can these best practices be transferred?
• **Identifies key themes and elements** that support the development of policy packages that drive the building stock towards zero energy.

• **Analyses and compares best practice building codes** based on the themes and elements identified.
# Methodology

## Holistic Approach
- **Germany**
  - Holistic Approach: 7
    - Performance Approach
    - Includes All Energy
    - Energy Efficiency & Renewable Energy
  - Dynamic Process: 8
    - Zero Energy Target
    - Revision Cycle
    - Levels Beyond Minimum
  - Implementation: 3
    - Enforcement Standards
    - Certification
    - Policy Packages
  - Technical Requirements: 6
    - Building Shell
    - Technical Systems
    - Renewable Energy Systems
  - Overall Performance: 0
    - On-Site Energy
    - Primary Energy
    - GHG Emissions

- **Austin**
  - Holistic Approach: 8
    - Performance Approach
    - Includes All Energy
    - Energy Efficiency & Renewable Energy
  - Dynamic Process: 6
    - Zero Energy Target
    - Revision Cycle
    - Levels Beyond Minimum
  - Implementation: 4
    - Enforcement Standards
    - Certification
    - Policy Packages
  - Technical Requirements: 9
    - Building Shell
    - Technical Systems
    - Renewable Energy Systems
  - Overall Performance: 0
    - On-Site Energy
    - Primary Energy
    - GHG Emissions

- **China Severe Cold**
  - Holistic Approach: 3
    - Performance Approach
    - Includes All Energy
    - Energy Efficiency & Renewable Energy
  - Dynamic Process: 0
    - Zero Energy Target
    - Revision Cycle
    - Levels Beyond Minimum
  - Implementation: 4
    - Enforcement Standards
    - Certification
    - Policy Packages
  - Technical Requirements: 5
    - Building Shell
    - Technical Systems
    - Renewable Energy Systems
  - Overall Performance: 0
    - On-Site Energy
    - Primary Energy
    - GHG Emissions
Key Findings

- Technical elements well addressed in most codes
- Strong policy packages to support codes in place in many countries
- Need for binding Zero-Energy Targets and clear roadmap towards zero energy
- Absence of overall performance values
- Need to address
Dynamic Process

- Ambitious long term energy targets
- Realistic time frame
- Frequent revisions cycles
- Appropriate roadmap
- Supporting policy packages
Zero Energy Targets
Revision Cycles
Levels Beyond Minimum
Conclusion

• Need for stronger zero energy targets supported by frequent revision cycles

• Many positive examples of how countries have practically implemented these targets and achieved results

• Insights from codes at different stages of development to be discussed in the following presentations:
  ▪ What were the key drivers for change?
  ▪ What was the political context at the time of the development of the code?
  ▪ What was the market context?
Webinar Series

- Webinar 1: Importance of long term energy targets and frequent revisions – 13 November 2013
- Webinar 2: The importance of a performance based approach to code design – 11 December 2013
Thank you!
Let’s stay in touch …

Consult our web site: www.gbpn.org
Follow us on Twitter: @GBPNnetwork
Ask us a question: project@gbpn.org