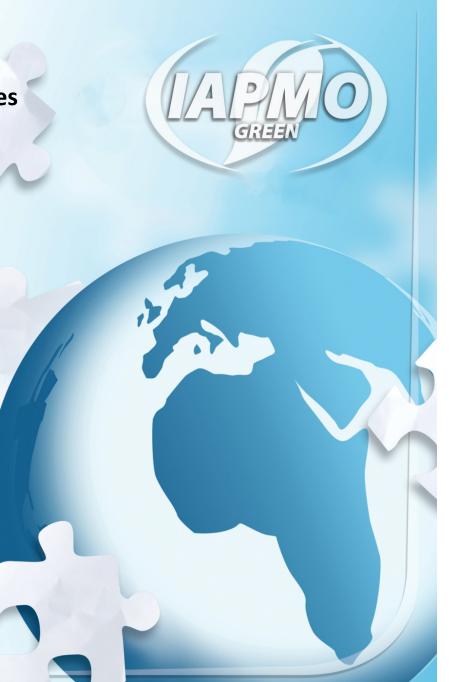


Strategies to Get to Net Zero Energy Homes September 14, 2011

IAPMO's Green Plumbing and Mechanical Code Supplement

Presented by:

Peter DeMarco – Director of Special Programs
The International Association of Plumbing
and Mechanical Officials
(IAPMO)



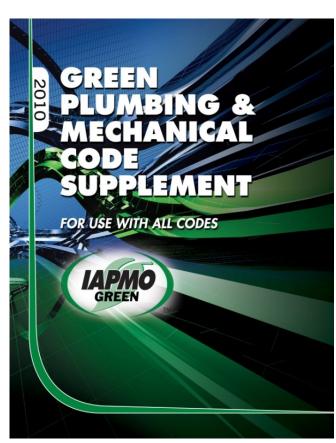
The Green Plumbing and Mechanical Code Supplement

- Separate document from the baseline UPC and UMC
- Establishes efficiency provisions applicable to plumbing and mechanical systems
- Overlay to ANY plumbing and mechanical codes used in the US, written in code enforcement language and format – "Plug and Play"
- Can be modified for international use as required
- Resource for: Progressive jurisdictions, code officials, plumbers, contractors, engineers and manufacturers
- Published: February, 2010 the FIRST green construction code in the United States



The Green Plumbing and Mechanical Code Supplement

- Green Technical Committee and Sub-Committees: diverse 80+ member group of experts in Green plumbing and mechanical fields
 - Inspectors, plumbers, mechanics, contractors, engineers, manufacturers, trade associations and energy and water conservation authorities





Broad Support





























The Green Plumbing and Mechanical Code Supplement

How Does It Work?

- Turnkey document
 - IAPMO philosophy

What Does It Cover?

- Residential and commercial installations
- Water Efficiency and Conservation
- Alternate Water Sources
- Hot Water System Design Saving embedded energy in water
- HVAC Efficiency
- Indoor Environmental Quality
- Installer Qualifications

2012 Revision

 Irrigation, Swimming Pool, Hot tubs and Spas, New Commercial Equipment Provisions





Supplement Maintenance

- Continuous maintenance can update as needed to address emerging technologies or to support market transition programs
- Areas under investigation
 - Water pipe sizing
 - Life Cycle Assessment (LCA) requirements for plumbing and mechanical products and systems
 - Increasing maximum hot water volume for commercial buildings
 - Waste water heat recovery



Transitioning from Voluntary to Mandatory

- Baseline codes published on a 3-year cycle
- IAPMO's Green Technical Committee
 - Reviews all provisions of the GPMCS for applicability to transfer to the UPC and UMC baseline codes
 - Technical committees have high confidence in field tested provisions from the GPMCS clearing the way for adoption
 - Example: The entire Alternate Water Use chapter of the GPMCS will be included in the 2012 edition of the Uniform Plumbing Code



Thank You

For further information about IAPMO's
 Green Plumbing and Mechanical Code
 Supplement, please contact Pete
 DeMarco at pete.demarco@iapmo.org or
 Dave Viola at dave.viola@iapmo.org and
 reference this presentation



