

# This presentation premiered at WaterSmart Innovations

[watersmartinnovations.com](http://watersmartinnovations.com)





# IAPMO Green Plumbing and Mechanical Code Supplement

Presentation by:

Dave Viola

IAPMO Director of Special  
Services

9500 Bormet Drive, Suite 201  
Mokena, IL 60448



2010

# GREEN PLUMBING & MECHANICAL CODE SUPPLEMENT

FOR USE WITH ALL CODES



# 2010 GREEN PLUMBING & MECHANICAL CODE SUPPLEMENT

FOR USE WITH ALL CODES



# IAPMO Green Plumbing and Mechanical Code Supplement

- IAPMO created the Committee for the Awareness and Understanding of a Sustainable Environment (CAUSE) and the Green Technical Committee (GTC)
  - GTC charged with developing the IAPMO Green Plumbing and Mechanical Code Supplement
  - Fulfill the IAPMO Board's call for reduction in energy and water consumption in the Uniform Codes
  - 25 members – diverse affiliations
  - 8 task groups (85 people in total)
  - Plumbers, mechanics, contractors, engineers, inspectors, and energy and water conservation authorities



# Supplement Supporters



# IAPMO Green Plumbing and Mechanical Code Supplement

- What is the Green Supplement?
  - Most comprehensive document ever created regarding residential and commercial sustainable plumbing and mechanical systems.
  - Comprehensive set of **voluntary** technically sound **provisions**
    - Elevate sustainable construction practices
    - Maintain IAPMOs high standards for protecting public health and safety

# IAPMO Green Plumbing and Mechanical Code Supplement

- What is the Green Supplement? (Continued)
  - Not a greener version of the plumbing or mechanical code
  - Stand-alone document designed to work with (or supplement) any and all plumbing and mechanical codes in use today.
  - Maintain IAPMO philosophy of an all-inclusive, turnkey document
  - Repository for provisions that can be integrated into the Uniform Codes.

# IAPMO Green Plumbing and Mechanical Code Supplement

- GTC Task Groups impacting water efficiency
  - Plumbing Fixtures and Fittings
  - Hot Water Systems
  - Water Pipe Sizing
  - Alternate Water Sources – Nonpotable
  - Potable Rainwater Catchment Systems



# IAPMO Green Plumbing and Mechanical Code Supplement

- Why the need?
  - No green building standards or rating systems that focus solely on plumbing and mechanical systems.
  - Nothing covers all aspects of sustainable construction for **RESIDENTIAL** and **COMMERCIAL P&M SYSTEMS**.
  - Stakeholders have never been brought together to properly vet sustainable plumbing and mechanical construction practices.
  - Tool to “hard wire” water conservation



# IAPMO Green Plumbing and Mechanical Code Supplement

- Written in code format.
- Serve as a resource for progressive jurisdictions
  - Enforcement aid for existing green ordinances
  - Model for jurisdictions implementing green ordinances.
- Serve as a resource for code officials, plumbers, contractors, engineers and manufacturers in designing, installing and approving green plumbing and mechanical systems.

# IAPMO Green Plumbing and Mechanical Code Supplement

- WATER EFFICIENCY AND CONSERVATION –
  - High efficiency plumbing fittings, fixtures and appliances
    - Maximum consumption
    - Multiple showerheads
    - Installation provisions
  - Efficient water softening and treatment equipment
    - Demand initiation, automatic shutoff
  - Maximum water pressure

# IAPMO Green Plumbing and Mechanical Code Supplement

- WATER EFFICIENCY AND CONSERVATION (cont.) –
  - Occupancy specific provision in restaurants and medical facilities
    - Minimum efficiencies for appliances
    - Prohibition of clean refill of grease interceptors
  - Required use of submeters
  - Cooling towers and evaporative coolers

# IAPMO Green Plumbing and Mechanical Code Supplement

- **ALTERNATE WATER SOURCES** – Comprehensive provisions addressing
  - rainwater harvesting (potable and nonpotable)
  - gray water
  - reclaimed/recycled water
  - on-site non-potable water treatment systems.
  - issues include backflow protection, maintenance, and appropriate applications.

# IAPMO Green Plumbing and Mechanical Code Supplement

- WATER HEATING DESIGN, EQUIPMENT AND INSTALLATION- Comprehensive provisions addressing water heating system efficiency.
  - equipment efficiency
  - maximum volume of hot water
  - insulation
  - system controls

# IAPMO Green Plumbing and Mechanical Code Supplement

- Timeline

- 45 day peer review concludes on October 9, 2009
- Comments discussed November 17-19, 2009 in Chicago
- Finalize content at conclusion of meeting
- Publish February 2010

# Questions?

Thank you