



An Exelon Company

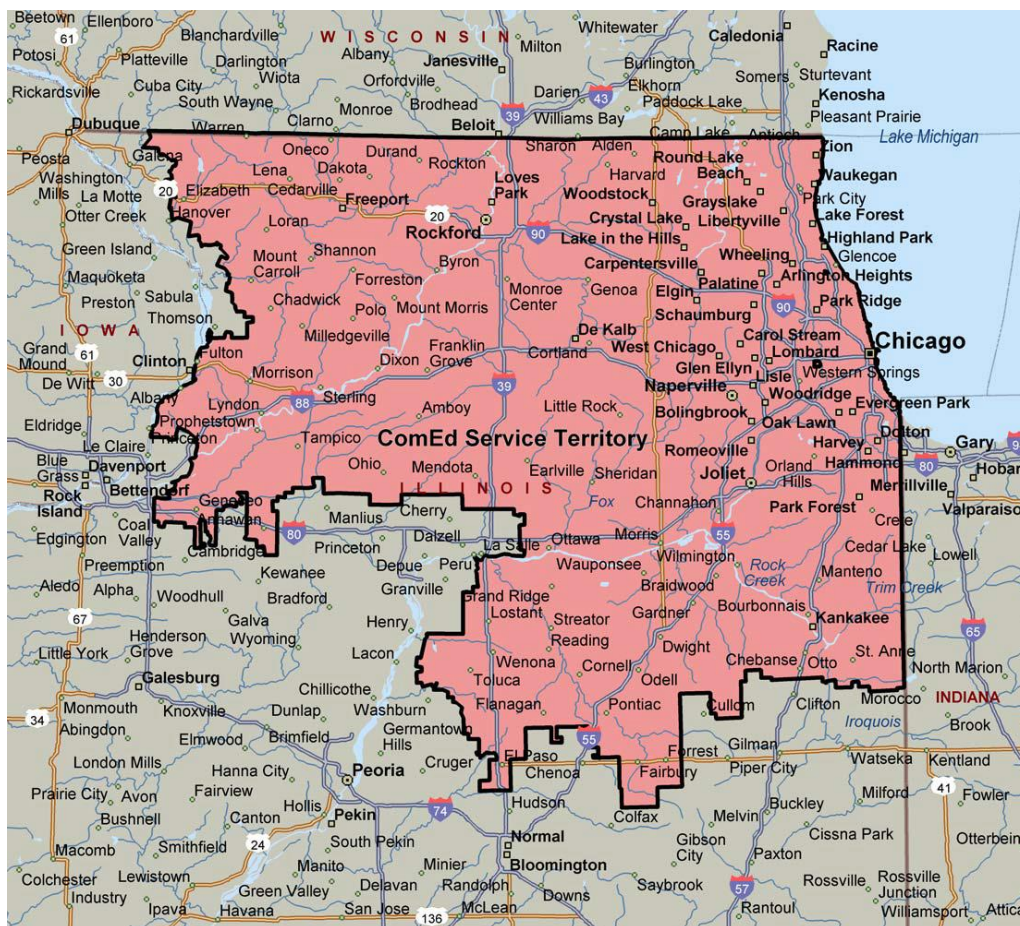
# **Illinois Codes Compliance Collaborative – Lessons Learned**

Jim Fay  
ComEd

ACEEE 2016 National Symposium on  
Market Transformation

**Baltimore, MD**  
**March 21, 2016**

# ComEd Territory Profile



## Quick Facts

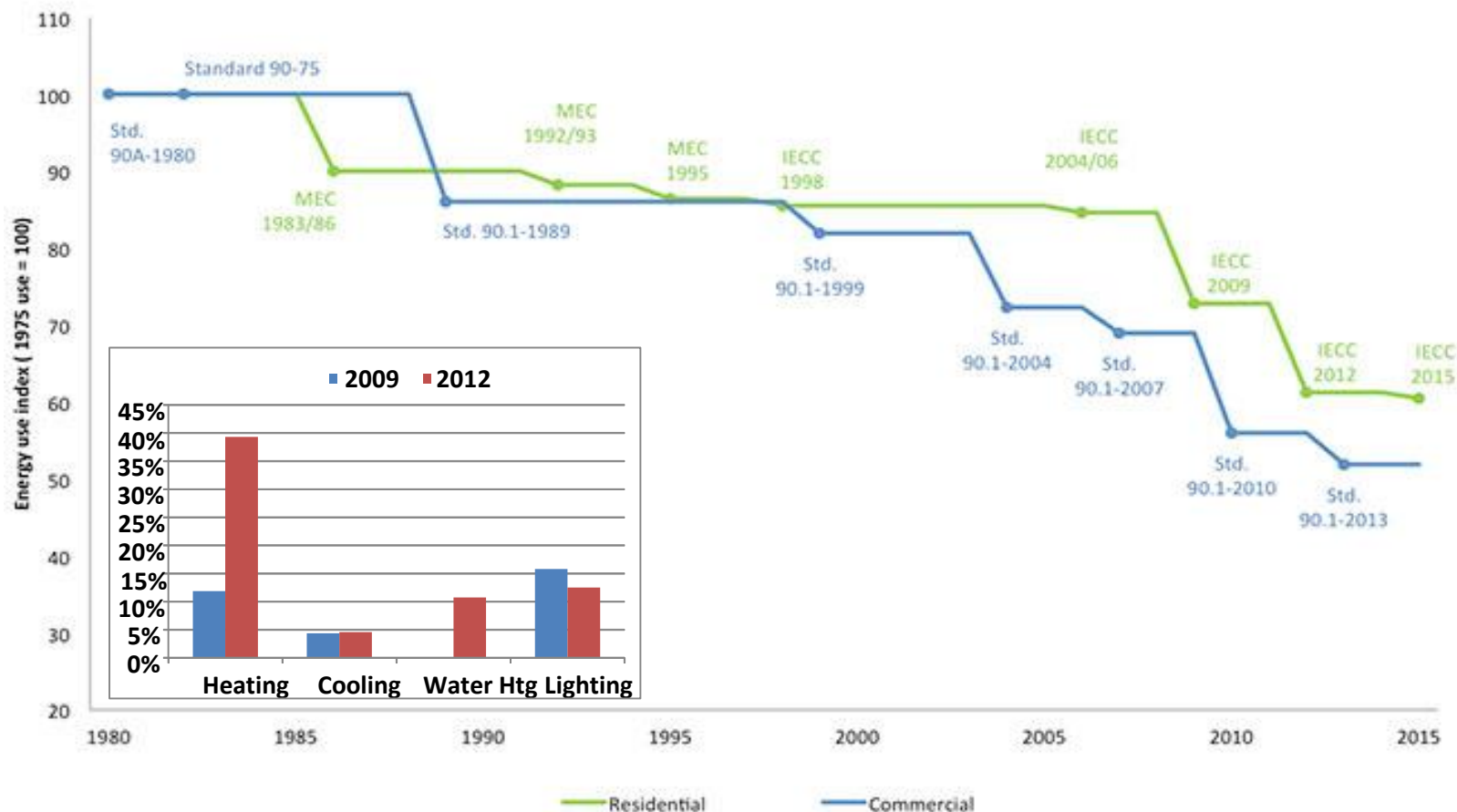
- » Service Area: 11,300 square miles
- » Customers: 3.8 million electric
- » Employees: Nearly 6,000
- » Substations: 1,300
- » Distribution & Transmission Power Lines: more than 70,000 miles

**Energy Efficiency Program Administrators in Illinois: - ComEd, Ameren, Nicor Gas, Illinois DCEO, Peoples Gas & North Shore Gas**

# The Illinois Building Codes Situation

- ✓ **Illinois Adopts IECC 12 months after Release**
  - **11-member Illinois Energy Code Advisory Council gives stakeholders from different building sectors the opportunity to provide critical insight prior to the adoption of a new code**
  - **IECC 2015 has been in effect for permit applications since January**
  
- ✓ **1300 Municipal Jurisdictions with Residential Energy Code Adoption Discretion**
  
- ✓ **3 Big Unknowns:**
  - 1. New Home Compliance with Current Code**
  - 2. Energy Implications**
  - 3. Energy Savings Opportunity**

# Largest Energy Impact: 2009 & 2012 Code Changes



Source: ACEEE based on analysis from Pacific Northwest National Laboratory

## What Qualitative Research Tells Us

### Energy Measure Compliance Gaps:

- *Insulation and weather-resistant protection of basement walls and slab foundations*
- *Installations of ducts in exterior walls*
- *Whole house and duct air sealing*
- *Lighting*
- *“Right sizing” of HVAC systems*
- *Simplify Process!*





# ComEd's Residential New Construction Program – New Homes

- ✓ **Joint Program with Nicor Gas**
  - *Access to technical expertise to identify ways to save energy, lower costs and incorporate energy efficient design strategies.*
  - *Whole home energy modeling to optimize home design for energy performance*
  - *Incentives for builders who exceed state and local building codes and adopt common construction practices to promote a whole-home approach*
  - *Provides incentives to RESNET/HERS certified consultants for completing the HERs rating and enrolling homes into the program*
- ✓ **At Least 20% Better than Current Code Qualification**
- ✓ **729 New Homes in PY7 (~4% of New SF Homes for Year Ending 5/31/15)**
- ✓ **Challenge: How do we coordinate “Exceed Code” program initiatives with codes compliance programs?**



*Jacob Stoll*

# Current Illinois DCEO Building Energy Codes Compliance Program

- ✓ Stakeholder Codes Training: Over 1500 attendees in 2012-13 Program Year
  - Builders
  - Inspectors
  - HERS Raters
- ✓ Technical Support (Nearly 400 in 2012-13 PY)
- ✓ Additional Information (e.g., List of Blower Door Service Providers)



Illinois  
Department of Commerce  
& Economic Opportunity

OFFICE OF ENERGY & RECYCLING

Bruce Rauner, Governor

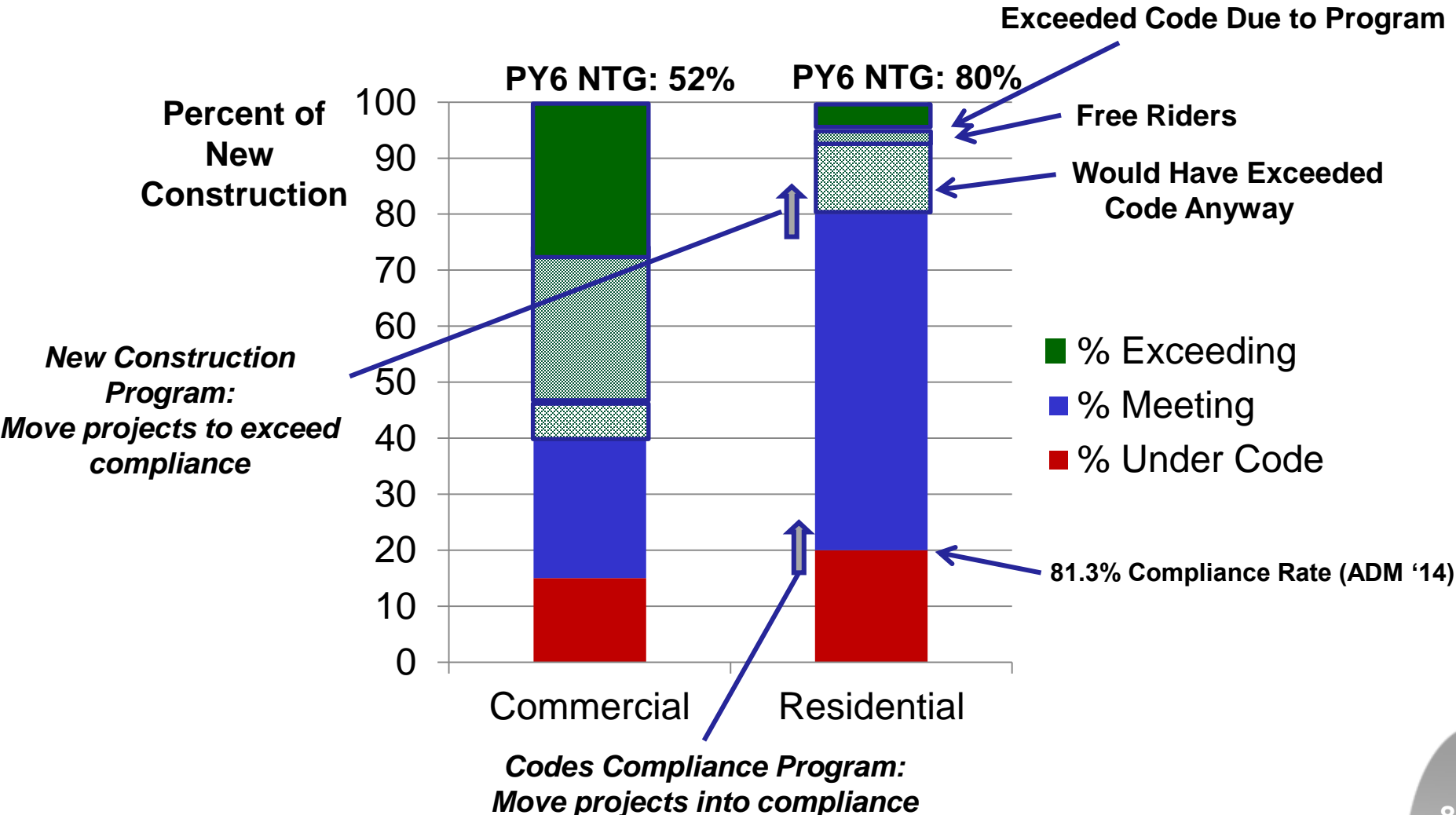
IECC



International Energy  
Conservation Consultants, LLC



# Code Compliance in New Construction





# Illinois Statewide Enhanced Code Compliance Program

- ✓ Complementary to existing utility “Beyond Code” programs
- ✓ Builds on existing DCEO Codes Compliance platform
- ✓ Addresses additional barriers to code compliance
  - Knowledgeable 3<sup>rd</sup> Party Codes Experts in the Field
  - Expanded Training
  - Fill Supply Chain Gaps (Blower Door Equipment Leasing)
  - Coordination of Programs & Integration (Web Portal)
  - Codes Collaborative
- ✓ As a Research Project:
  - Navigate the market uncertainty to find what works to overcome barriers to compliance
  - Program Objective: Demonstrate Cost-Effective Energy Savings

# Illinois Statewide Enhanced Code Compliance Program

## ✓ What we've done:

1. Develop a Common (Statewide) Budget & Plan (9/12 – 9/13)
2. Develop joint organizational structure and management rules (9/13-5/14)
3. Select and contract (not yet!) with Implementer (6/14 – 5/17)

# Governance Board Model (8/14)

*Allows Collaborative to Influence Program*

Governing Executive Organization for Review of Grants in Energy Efficiency (Governance Board)



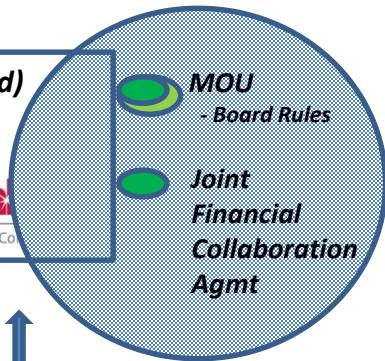
**Illinois Department of Commerce & Economic Opportunity**  
Pat Quinn, Governor

**Nicor Gas™**  
An AGL Resources Company

**PEOPLES GAS**  
NATURAL GAS DELIVERY

**Ameren**  
FOCUSED ENERGY. For life.

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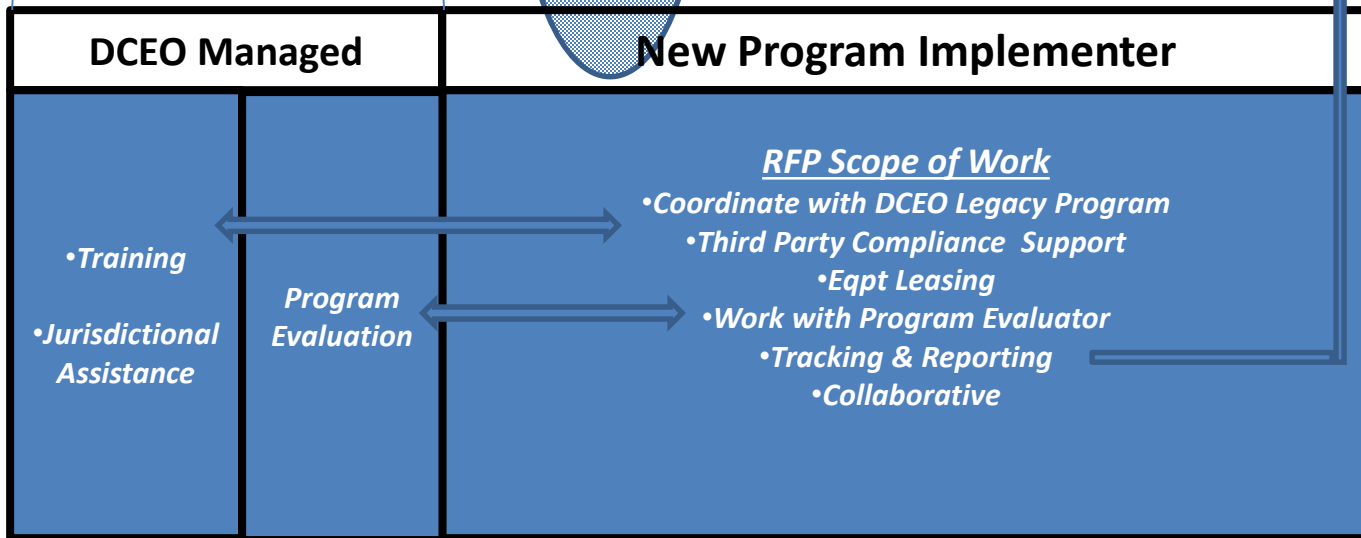


Agreement: Invoicing; Payables; Mgmt T&C

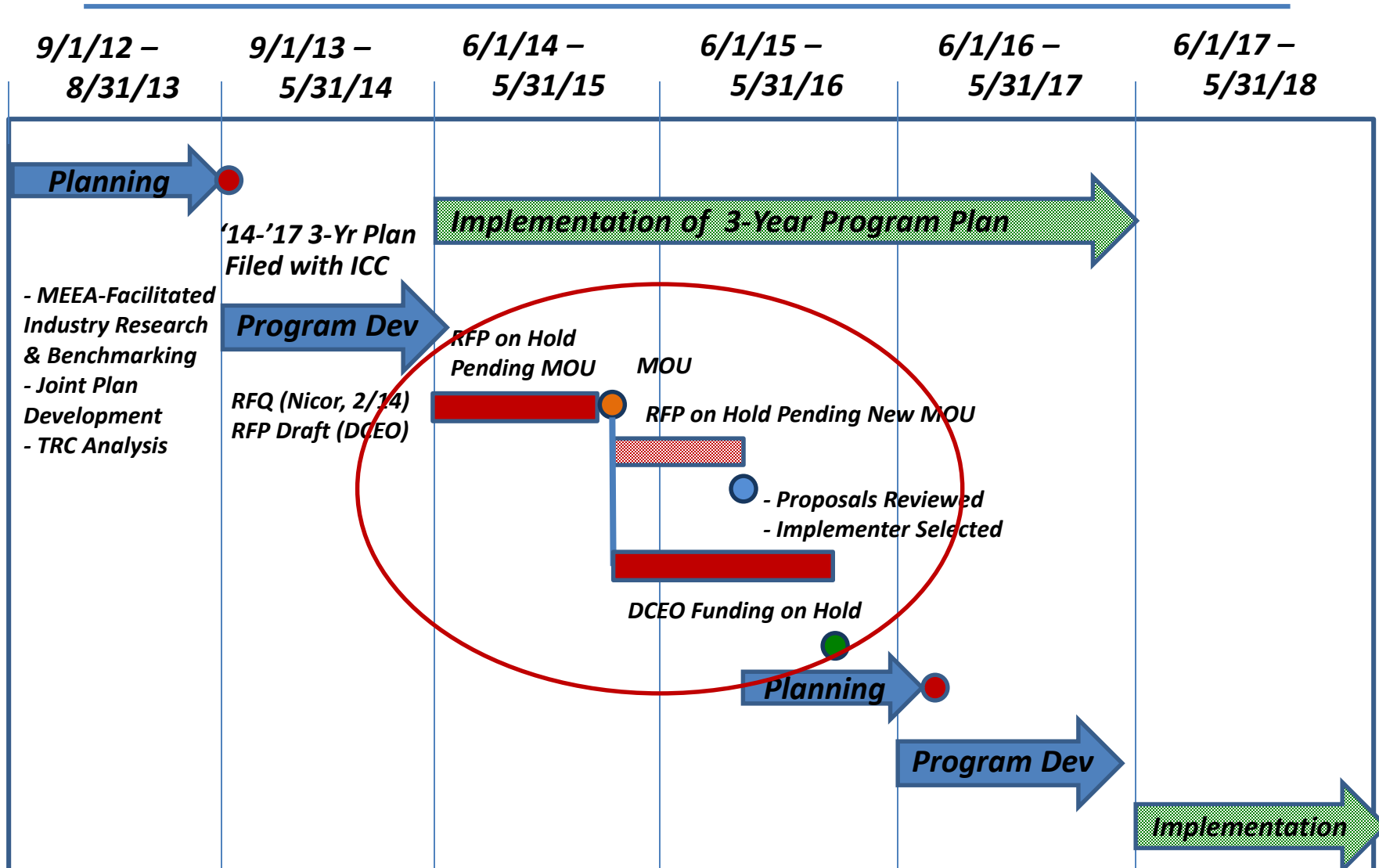
**Project/Contract Manager - DCEO**

DCEO Grant

- Program Strategy Review & Advisory Input
- Tracking & Reporting



# Enhanced Code Compliance Program Timeline



# Illinois Statewide Enhanced Code Compliance Program

## ✓ Lessons Learned:

- 5-Administrator management organization and agreements can form the basis for future statewide initiatives
- Utilities need to have the control and flexibility to expedite programs

## ✓ Where do we go from here?

- Year 3 (June, 2016) of Current Plan: Research Results?
- Next 3-Year Plan to be Filed 9/1/16
- Do other states have better models?

# Back-Up



# Residential Unit Forecast

Unit

