

# Conservation Resources

## Seattle City Light Review Panel

July 8, 2010

Glenn Atwood

Conservation Resources Interim Director

# Outline

- Summary
- Overview – History & Policy
- Five Year Plan
- Accomplishments through 2010
- Challenges
- Options for 2011-2012

# Summary

- Conservation SCL's resource of choice for 30+ years
- Five Year Plan: doubling of goals and budget
- Drivers: I-937, climate change, delay resource needs
- Exceeded targets in 2009 and 2010
- Challenges:
  - adequate staff & budget, support planning, marketing, evaluation
  - assessment of SCL-specific potential
  - Residential lighting standards, new technology
- Options: No Conservation, I-937, Five Year Plan

# Overview

- History
  - Energy conservation programs started in 1977, over 120 aMW savings in place
  - Initial emphasis residential, shift to commercial & industrial over time
  - Customer programs, market transformation, codes & standards
- Policy
  - First priority resource
    - Lowest cost: total resource cost perspective
    - Least environmental impact
    - Least risk
  - Meet load growth with conservation & renewables
  - Greenhouse gas neutrality
  - Support for low-income and customer renewables
  - City sustainable building policy, Mayoral initiatives
  - WA I-937: acquire all cost-effective conservation
  - BPA: funding, credit towards High Water Mark

# Five Year Plan: 2008 - 2012

- Four Themes
  - Rebuild the conservation infrastructure
  - Expand existing programs
  - Develop new programs
  - Incorporate customer-side renewables and demand response
- Drivers
  - Meet City Light's energy resource needs
  - Support climate change policies
  - Meet & exceed likely I-937 targets
- Energy Savings Targets
  - Double from 7.25 aMW in 2007 to 15.3 aMW by 2012
- Increased staff & budget
  - 64 to 91 FTE
  - Budget: \$20M to \$45M

# Five Year Plan: 2008 - 2012

- Energy Savings Targets (aMW)  
Contracted Projects

	2008	2009	2010	2011	2012	2013
Five Year Plan	8.4	12.2	14.5	15.1	15.3	--
Revised Targets	8.4	10.3	12.3	13.6	14.0	--
Actual	10.1	13.2	12.3 (projected)	--	--	--
I-937 (per NPCC calculator)*	--	--	18.3 (19.7 with T&D)		24.9 (28.9 with T&D)	

Note: I-937 figures are two-year targets and represent completed rather than contracted projects. Lower figures are savings at customer site, which is how other figures are presented. Actual targets include credit for avoided transmission and distribution (T&D) losses.

# Accomplishments through June 2010

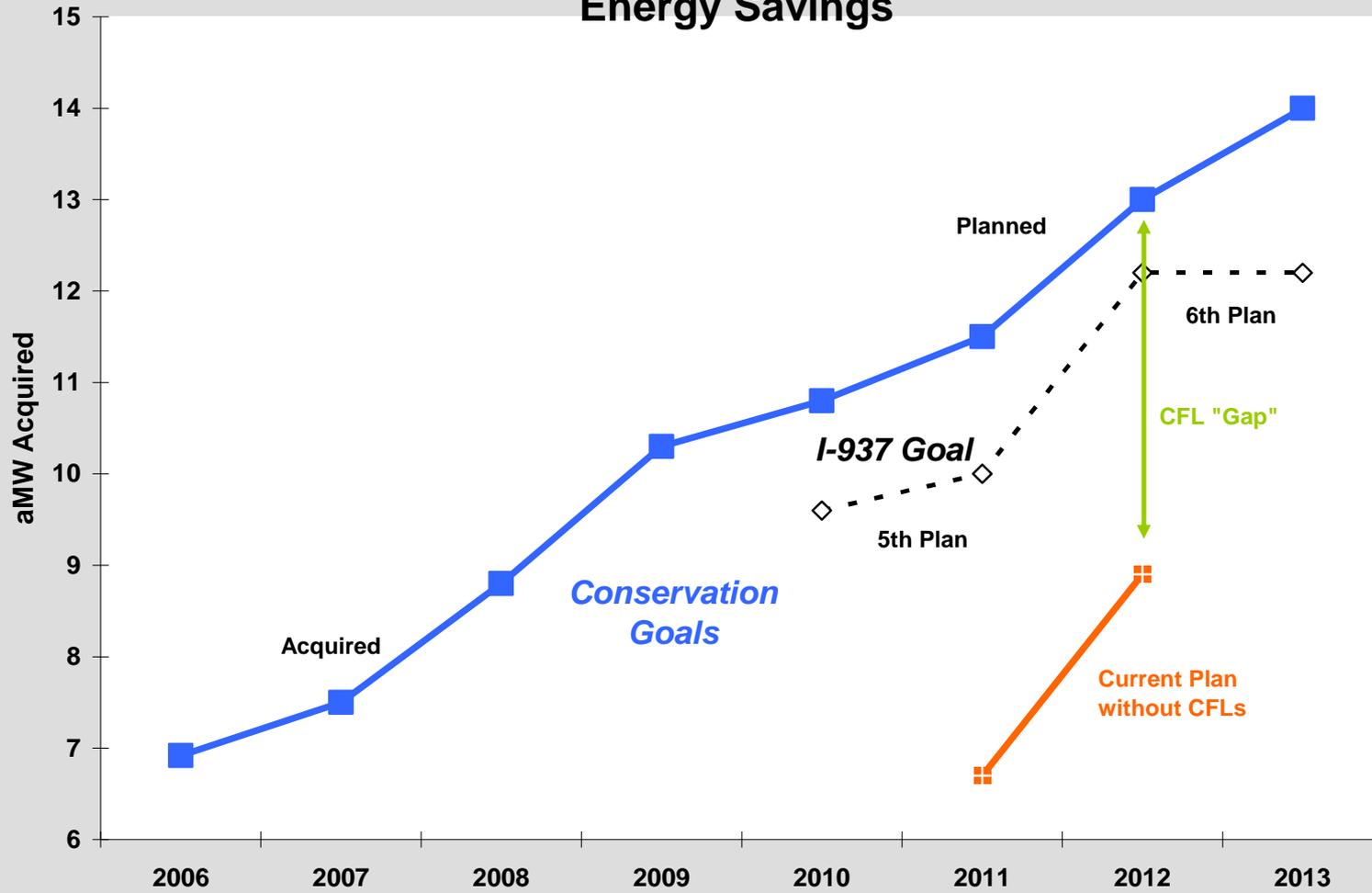
- Energy savings
- Expanded programs
  - Commercial lighting
- New programs
  - Residential audits
  - Powerful neighborhoods (direct install)
  - Data centers
- Infrastructure
  - Residential Customer Characteristics Survey

# Challenges and Opportunities

- Budget cuts, unfilled positions
  - 2010 approved budget: \$40.85M
  - Mid-year cuts of \$1.9M
- Lack of progress in rebuilding infrastructure
  - Planning
  - Evaluation, M&V
  - Marketing
  - Out-of-date potential assessment
- Increased codes and standards
  - New construction
  - Phase-out of incandescent bulbs (?)
- ARRA Funding & City Initiatives
- New technologies

# Options

## Seattle City Light Conservation Plan Energy Savings



# Options

- No Additional Conservation
- I-937
- Restore Five Year Plan

	2008	2009	2010	2011	2012	2013
Five Year Plan	8.4	12.2	14.5	15.1	15.3	--
Revised Targets (Meet I-937)	8.4	10.3	12.3	13.6	14.0	--
Actual	10.1	13.2	12.3 (projected)	--	--	--
I-937 (per NPCC calculator)*	--	--	18.3 (19.7 with T&D)		24.9 (28.9 with T&D)	

- 2011: Increase to 13.6 aMW possible with status quo budget
- 2012 & beyond: depends on residential lighting phaseout

# Questions & Answers