



Los Angeles Department  
of Water and Power

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**Energy Efficiency Programs  
Path to a Sustainable Future**

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September 11, 2009



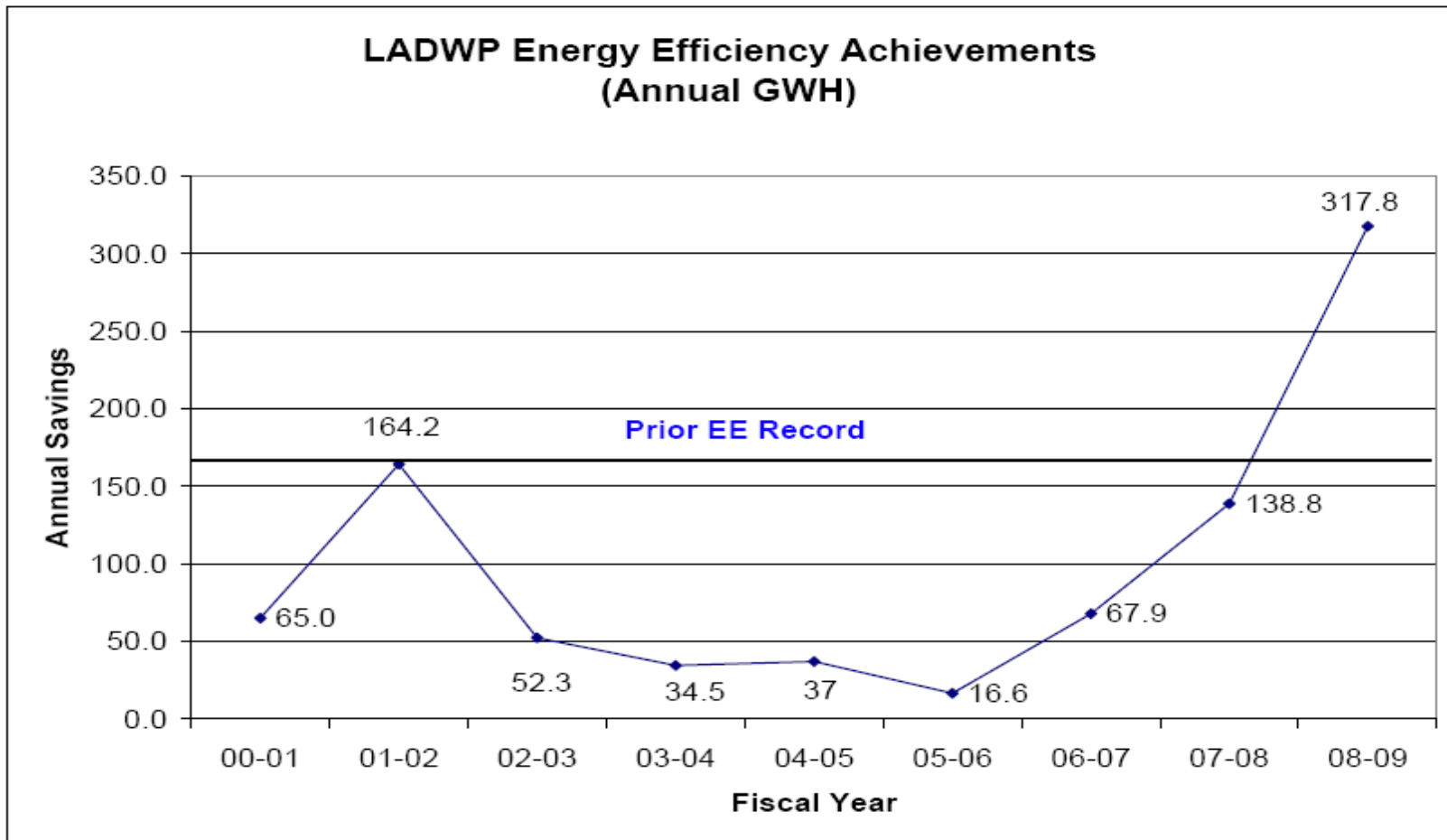
# LADWP Energy Efficiency

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- Mission Statement

“Implement cost-effective energy conservation and demand-side management programs that provide the maximum environmental and financial benefits to our ratepayers and to the residents of Los Angeles”

# LADWP Energy Efficiency





# LADWP Energy Efficiency

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- New Construction Program
- Small Business Direct Install
- Commercial Lighting Efficiency Offer
- Chiller Efficiency Program
- Refrigeration Program
- Custom Performance Program
- Green Power Program
- Trees Program



# New Construction Program

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- Incentives for energy efficient sustainable buildings
- Comprehensive Approach (Performance)
- Menu Approach (Prescriptive)
- Supports City's Green Building Ordinance
- No incentive limit
- Priority service planning and construction



## New Construction (cont)

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- Benefits include improvements in:
  - Sustainability
  - Reduced cost of operations
  - Improved workplace environment
  - Reduction in greenhouse gas emissions associated with energy production



## New Construction - Performance

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- Based on LEED Energy Points
- Rebates from \$0.30 to \$1.20 per square foot of conditioned space
- Requires LEED Certification
- Minimum of 1 Point – Water
- Must include Enhanced Commissioning



## New Construction - Prescriptive

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- Incentives for individual measures
- Must exceed Title 24 requirements
- Pays for:
  - Lighting
  - Motors
  - Chillers
  - Refrigerators and freezers



## New Construction – Priority Service

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- Projects achieving LEED Silver or higher certification
- Priority service planning and construction (next in line)
- Both electrical and water services



# Small Business Direct Install

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- Lighting retrofit program
- A-1 Customers (less than 30 kW)
- Energy efficiency assessment/install
  - High efficiency lighting equipment
  - Up to \$2,500 per site (equipment/labor)
  - Reduce lighting costs by 25% or more
  - Typical improvement in lighting quality
  - 45,000 businesses retrofitted



# Commercial Lighting Efficiency Offer (CLEO)

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- Menu-based rebates for non-residential Customers
- Generous rebate amounts; short payback periods (18 months or less)
- Wide variety of lighting measures
- Pre-approval/post-inspection required



# CLEO Program Measures

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- T8/high performance lamps & ballasts
- Induction lamps
- Occupancy sensors
- LED exit signs
- Bi-level stairway fixtures
- High bay T5 fixtures
- Compact fluorescent lamps



# Chiller Efficiency Program

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- Increased rebates (up to **\$193 per ton** and 100% of incremental cost)
- Air-cooled or water-cooled can qualify
  - Highest rebates for water-cooled chillers
  - ARI Standard and non-Standard centrifugal chillers can qualify
- Incentives based on tonnage and efficiency (IPLV)



# Refrigeration Program

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- Menu-based rebates for a variety of energy efficiency measures
  - Commercial ice machines
  - Reach-in refrigerators and freezers
  - Night covers
  - Door gaskets
  - Evaporator fan controllers for walk-in coolers
  - Anti-sweat controls and insulation
  - Vending machine controllers
- Energy savings of up to 50%



# Custom Performance Program

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- Incentives for energy efficiency measures NOT included under menu programs:
- Incentive based on annual energy savings
  - A/C and Refrigeration: \$0.14/kWh
  - Lighting: \$0.05/kWh
  - Other (Controls, Motors): \$0.08/kWh
  - Wet-cleaning \$4,000/site
- Incentive limited to 50% of installed cost
- Measures must exceed T24/standard practice



# Green Power

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## Today

- Voluntary purchase of renewable energy
- \$0.03/kWh incremental cost
- 20% minimum purchase for residential/small commercial customers
- 500 kWh minimum purchase for general business/commercial customers
- 12-month purchase commitment

## 2009 (pending LADWP Board approval and Ordinance revision)

- Revised Green Power Program
  - Increased participation flexibility
  - Improved program outreach
  - High visibility re-launch



# Trees Program

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## Non-Residential

- Program provides up to (15) 15-gallon trees
  - Shading provides energy efficiency benefits
  - CO2 mitigation
  - Requires completion of on-line workshop for proper placement, planting and maintenance



## For More Information

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Visit our website at [www.ladwp.com](http://www.ladwp.com)

Questions?

Thank you.