



SOUTHERN CALIFORNIA  
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# ***Senate Energy, Utilities and Communications Committee***

**Presentation on  
Southern California Edison's  
2010 - 2012 Energy Efficiency Programs**

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**March 16, 2010**

# SCE 2010-2012 Goals, Budget and Benefits

**Increase and Accelerate Progress Towards California's Aggressive Energy Efficiency Goals:**

2010 – 2012 SCE Energy Efficiency Goals	
Budget	\$1.2 Billion
Energy Savings	3.3 Billion kWh*
Demand Reduction	727 MW
Emissions Reductions	1.5 Million metric tonnes CO <sub>2</sub> e*

\* first year/annual savings – does not include additional savings over the lifecycle of the EE measures installed

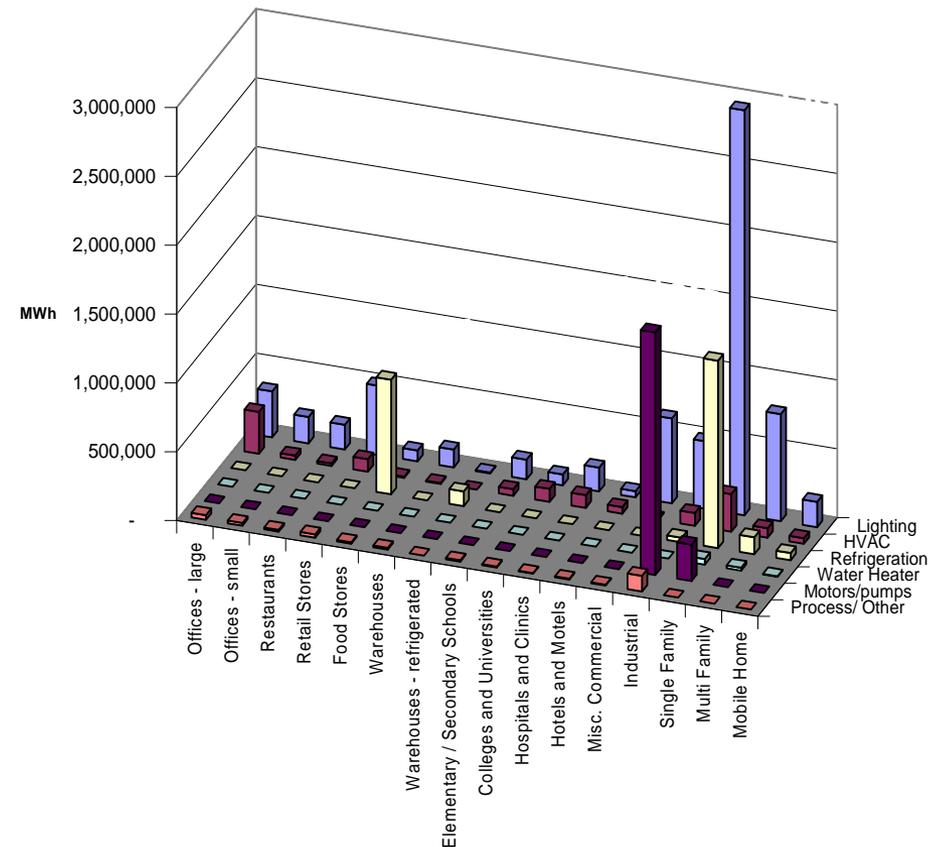
- ✓ Enough energy saved to power over 470,000 California homes
- ✓ Equivalent to the peak electrical demand of 2 medium-sized power plants
- ✓ Equivalent of removing nearly 290,000 cars from the road

# Addressing the Significant Energy Efficiency Opportunities Remaining In California

## SCE's Portfolio Addresses All Energy-Saving End-Uses

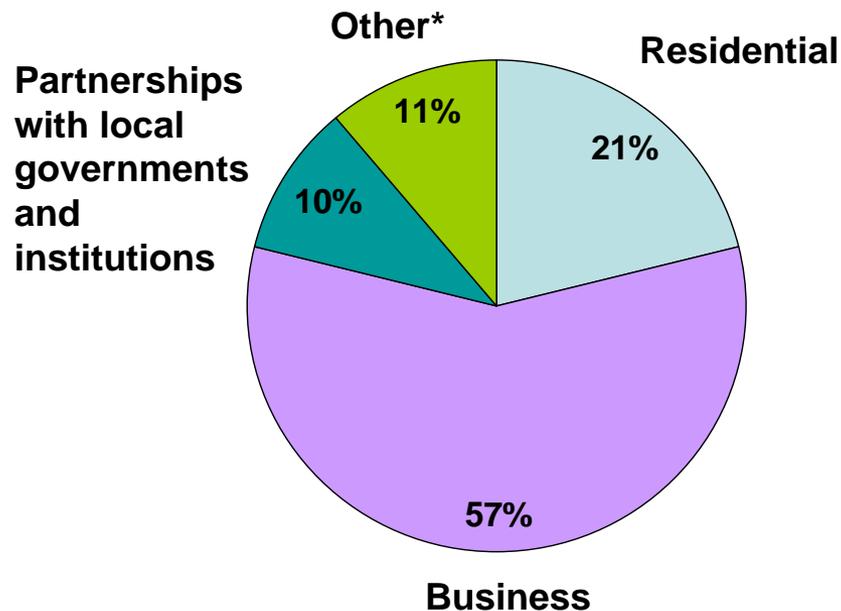
- Heating, Ventilation and Air Conditioning (Residential & Business)
- Residential and Retail Lighting
- Industrial Pumps and Motors
- Residential and Nonresidential Refrigeration

## Energy Savings Potential



# Programs for All Customer Segments

## SCE's 2010-12 Portfolio of EE Programs



Budget percentages

\* Other includes emerging technologies, EM&V, and workforce education

## Portfolio to Meet All Customers' Needs

- Statewide programs offer consistent, successful energy-saving options to California consumers
- Local and segment-specific programs provide the opportunity to meet the needs of individual IOU customers and customer segments

# Residential IOU-wide Programs

- **California IOU-wide Program for Residential Energy Efficiency (SPREE):** energy solutions within the residential market sector
  - Rebates
  - Appliance Recycling
  - Focus on “Plug Load”
- **Lighting Market Transformation:** develop and test market transformation strategies for emerging lighting technologies
- **New Construction:** support energy efficiency in Residential and Non-Residential New Construction markets

Residential Energy Efficiency Surveys (HEES)

Residential Energy Efficiency Rebates (HEER)

Residential Lighting

Prescriptive Whole House Retrofit

Appliance Recycling Program

Business and Consumer Electronics

Multifamily Energy Efficiency Rebates

Lighting Market Transformation

California Advanced Homes (& ZNE)

Energy Star Manufactured Homes

# Non-residential IOU-wide Programs

## ■ Non-residential Rebates and Audits:

IOU-wide consistent suite of products and services to overcome the market barriers to energy efficiency

- Rebates
- Surveys
- Direct Installation

Nonresidential Audits

Continuous Energy Improvement

Calculated Incentives Program

Energy Efficiency for Entertainment Centers

Deemed Incentives Program

Private Schools and Colleges Program

Commercial Direct Install Program

California Preschools Program

Savings By Design

Pump Test Service Program

# Residential & Commercial HVAC Program

- **Residential and Commercial HVAC:**

Focus on high quality and optimized for California's climate

- Equipment
- Installation
- Maintenance

Upstream HVAC Equipment Incentive

HVAC Tech. and System Diagnostics Advocacy

Commercial Quality Installation

HVAC Energy Star Res. Quality Installation

HVAC Res. & Comm. Quality Maintenance Dev.

HVAC Workforce, Education & Training

# Other IOU-wide Programs

- **Codes and Standards Program:** influences EE standards and codes, improves compliance, and works with local governments to develop ordinances
- **New, Emerging Technologies:** development and deployment of new and under-utilized EE measures, and by facilitating their adoption
- **Workforce Education & Training:** EE-related education, training and workforce development
- **Marketing, Education & Outreach:** increases consumer awareness, then action
- **Integrated DSM** - integration of demand-side management (DSM) options

Building Codes Advocacy

Appliance Standards Advocacy

Compliance Enhancement

Reach Codes

Assessments

Scaled Field Placement

Demonstration/Showcasing

Market and Behavioral Studies

Technology Supply-side Efforts

Incubation (TRIO)

Technology Test Centers

WE&T Connections

WE&T Centergies

WE&T Planning

Marketing, Education and Outreach

Integrated DSM

# SCE Local Programs

- **Online Buyer's Guide:** web-based source for information and tools
- **Financial Solutions:** options for financing EE projects, including on-bill financing
- **Integrated Pilot for Food:** integrated energy management solutions to end-use customers in the food processing and refrigerated warehouse segments
- **Local Government Partnerships:** Energy Leader Partnership Program (ELPP) and other partnerships
- **Institutional Partnerships:** Statewide institutional programs and county / Local Government programs, including:
  - CA Community Colleges
  - CA Dept of Corrections
  - UC/CSU
  - State of CA
  - County of Los Angeles
  - County of Riverside
  - County of San Bernardino

# Helping Residential, Low-Income, and Small Business Customers: Recycling Inefficient Refrigerators & Freezers

- Encourages customers to dispose of old working refrigerators and freezers in an environmentally-sound way
- Customers receive a free pick up at their service location
  - Service to both residential and non-residential customers
- SCE utilizes multiple contractors in support of the program
  - Provides skilled and unskilled jobs in the dismantling and disposal of the appliances
- Customers receive a \$50 check mailed to their home
  - Customers have option of making their \$50 incentive a tax-deductible donation to the Energy Assistance Fund (EAF) to help fellow customers in financial need pay their bills
- 2010-2012 Budget: \$39 million



## Income-Qualified Households EE Programs

- Provides services or products designed to help low-income households use energy more efficiently and reduce their electricity costs
- SCE pays all the cost of purchasing and installing products, which are installed at no cost to eligible customers
  - Weatherization
  - Refrigerators
  - Air conditioners
  - Evaporative coolers
  - Pool pump and motor replacement
  - CFLs
  - Torchieres
- 2009-2011 Budget: \$185 million

### Household Income Levels 6/1/09 – 5/31/10

# in Household	EMA Qualify
1-2	up to \$30,500
3	up to \$35,800
4	up to \$43,200
5	up to \$50,600
6	up to \$58,000
each additional household member, add:	\$7,400

# Helping Small Businesses Save Energy and Remain Competitive: No-Cost EE Direct Install

## **No-cost installation of new, energy-efficient technology to replace inefficient equipment**

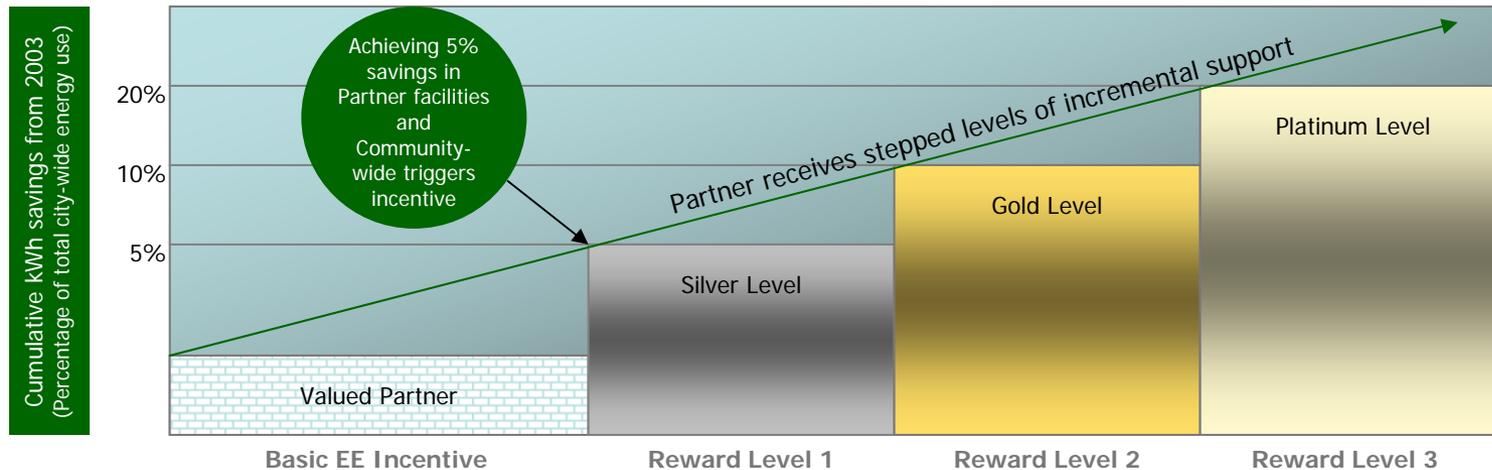
- Lighting, A/C, refrigeration, exit signs, etc.
- Small businesses with up to 100 kW of monthly demand

## **Supports EE Contractor networks and Provides Green Jobs**

- Contractors provide audits, install measures, and follow up with verification protocols
- Contact between contractor and customer presents an opportunity to offer and install more comprehensive measures than included in the program

**2010-2012 Budget: \$107 million**

# SCE's Partnerships with Local Governments: New Energy Leader Model



- Agreement between SCE and individual local governments designed primarily to help cities and counties with a sustainability vision to address demand-side management opportunities in their facilities and communities
- Tiered incentive structure that offers increasing incentives based on performance to the Partner to fund new city/county EE projects
- 2010-2012 Budget: \$75 million

# California IOU Energy Efficiency Programs Help All Homes and Businesses<sup>[1]</sup>

## RESIDENTIAL and INCOME-QUALIFIED CUSTOMERS

- Home Appliance Rebates
- No-Cost Measures for Income-Qualified customers
- Lighting Rebates – CFLs and Advanced Consumer Lighting
- Multifamily Home Rebates
- Appliance Recycling
- Home Energy-Use Surveys
- Consumer Electronics / Plug Load Rebates
- Whole House Retrofits
- Mobile-Home Energy Efficiency
- In-language Community Outreach
- Advanced Home New Construction
- New Construction - Manufactured Housing Efficiency
- Home Energy Rater Training
- Multifamily Home Tune-Ups
- Multifamily Solar Pool Heating
- Multifamily Gas Savings
- High Efficiency Gas Water Heaters

## BUSINESS CUSTOMERS

- Industrial Customer Rebates
- Commercial Customer Rebates
- Agricultural Customer Rebates
- Energy Use Audits for Industrial / Commercial / Agricultural
- No-Cost Measures for Small Business
- Healthcare Energy Efficiency
- Data Center Energy Efficiency
- High Performance Hospitals
- Cool Schools
- Public Schools
- Retail Energy Action Program
- K-12 Private Schools
- California Preschools
- Solid Waste Energy Efficiency
- Food & Kindred Products
- Primary and Fabricated Metals
- Industrial Gases
- Chemical Products Efficiency
- Petroleum Refining Efficiency
- New Construction Rebates and Assistance
- Boiler Energy Efficiency Program
- Retail Energy Management
- EnergySmart Grocer
- Lodging Energy Efficiency
- Medical Building Tune-Up
- Campus Housing Efficiency
- Energy-Efficient Parking Garage
- Furniture Store Energy Efficiency
- High Performance Office Lighting
- LED Accelerator
- Energy-Efficient Kitchens
- Casino Green
- Ozone Laundry Energy Efficiency
- Small Commercial Boiler Repair and Tune-Up
- Cement Production and Distribution Energy Efficiency
- Wine Industry Efficiency
- Dairy Industry Resource Advantage Pgm
- Wastewater Treatment for Ag Food Processing

## PARTNERSHIPS

- California Community Colleges
- UC/CSU
- California Dept of Corrections
- State of California
- 285 cities, counties and state agencies

## MULTIPLE MARKETS

- HVAC Quality Installation – Residential and Nonresidential
- HVAC Commercial Equipment
- HVAC Diagnostics
- HVAC Workforce Education & Training
- Other Workforce Education & Training
- Marketing, Education & Outreach
- Building Standards Advocacy
- Appliance Standards Advocacy
- Standards Compliance Training
- Emerging Technologies Programs (Testing, Demonstrations, Studies)
- Strategic Planning & Implementation
- Financing Programs – On-Bill and Other

[1] Not a comprehensive list of all 2010-12 Programs