



*Efficiency First!*

## Workshop

Solar Santa Monica

October 28, 2009

6:30pm to 8:30pm

# AGENDA

**15 minutes** Check – in and distribute Energy Efficiency kit

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**10 minutes** Welcome & Introduction

Sustainable Works &  
Solar Santa Monica

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**35 minutes** *Efficiency First!* @ Home presentation

Laurel Faulkner

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**40 minutes** Weatherization Demonstration

Catalina Ballast and Bulb

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**20 minutes** Q & A

# Solar Santa Monica

Solar Santa Monica



*Efficiency First!* @ Home

# Presentation

Laurel Faulkner

Project Manager, The Energy Coalition



# What we do and why...

*Efficiency First!*

## Energy Efficiency Education

- Save Resources
  - Electricity
  - Gas
  - Water
- Reduce Utility Bills
- Increase Comfort & Safety

# How we promote Efficiency First!

Smart Energy Management Education

Distribution of Energy Efficient Products

Promotion of Utility & City Programs

City Strategic Planning with Statewide goals

Municipal Energy Efficiency Actions

# Santa Monica Community Activities 2006-2008

- Community Events = 12
  - # of CFLs = 10,872
  - # of faucet aerators = 3,195
  - # of torchieres exchanged = 288
- Tune-Ups = 220
- Total annual savings
  - kWh savings = 183,752
  - therms savings = 1,698

# What does this save the community?

 **118,657** annual energy savings

The GHG Emissions saved through these technologies is equivalent to:



• The energy use of over **36** homes annually

OR



• Removing over **73** cars off of the road



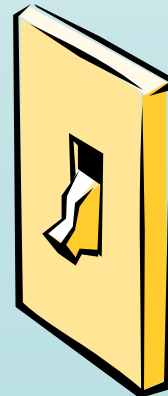
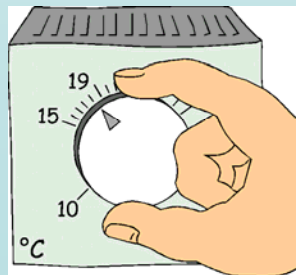
# What is Energy Efficiency?

**Energy Efficiency** = Using technologies to reduce overall energy consumption



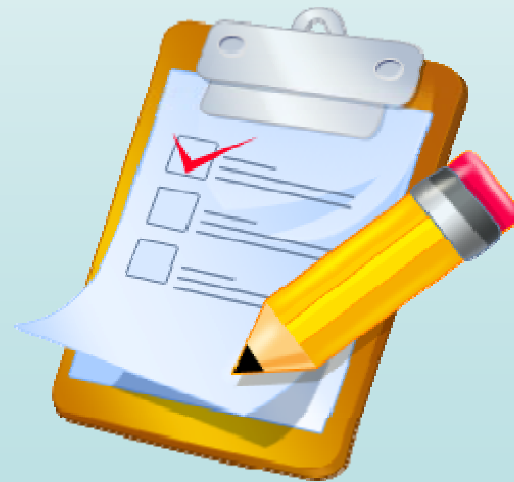
**VS.**

**Energy Conservation** = modification of consumption patterns to reduce overall energy consumption



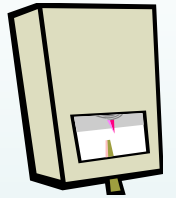
# Steps to saving energy, money & the environment

- Home Energy Efficiency Assessment
- No cost/low cost modifications
- Energy Efficient Retrofits (when appropriate)
- Education to household
- Ongoing behavior
- Self Generation



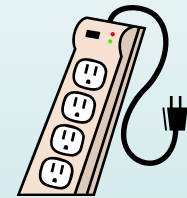
# Do It Yourself Tips!

- Set your thermostat to 78-80°F on hot days and to 69°F on cold days.
- Keep rooms cool by closing window shades and using fans.
- Replace incandescent light bulbs with compact fluorescent light bulbs (CFLs).
- Install low-flow products



# Additional tips

- Turn your water heater down to 120°.
- Use major appliances before 12pm and after 6pm.
- Unplug unnecessary electrical appliances or plug into power strip.
- Buy ENERGY STAR products when replacing older ones.
- Keep the freezer full to keep neighboring food frozen. A bag of ice can help.

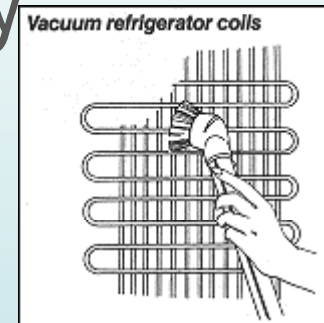


# Maintenance tips

- Regular maintenance of your most expensive appliances lengthens their life and keeps them running efficiently

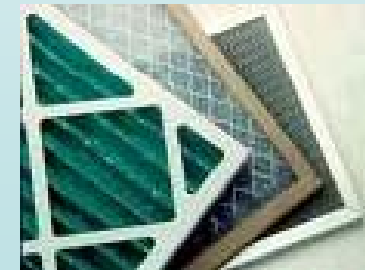
- CLEAN

- Refrigerator coils once/year



- REPLACE

- HVAC filter every three months





# Myths

1. You should install solar PV as a **first** step
2. All insulation is equal
3. CFL technology has been the same since they first arrived on the market
4. It's better to leave the light on than to turn it off because it takes more energy during startup than to keep it running
5. Zeroing your electric bill means you're using no **energy**

# What will you receive tonight?

## Great stuff to jump start your energy savings!

- Reusable Bag
- Caulk
- Two 23 Watt CFLs
- Two Low-flow faucet aerators
- One Low-flow showerhead
- Energy saving program information



# Home Energy Efficiency Tune-Ups

- A one-stop energy efficiency retrofit and educational service to help you save energy and money on your utility bills.  
*Available through October 31<sup>st</sup>.*
- Available to Santa Monica residents only
- Up to \$250 in direct services
- Must be above low-income threshold

# STEP BY STEP TUNE-UP PROCESS

## Step 1. Assessment



Licensed independent contractors make an appointment to come to your home and assess your potential energy savings.

## Step 2. Tune-Up



Contractors install energy saving products, such as low-flow showerheads, fluorescent light bulbs, weather stripping, and more.

## Step 3. Identify further savings



Contractors recommend additional energy saving improvements you can make to your home and refer you to other energy- and money-saving utility programs.

# Utility Customer Programs

- There are several programs available to you as a Southern California Edison (SCE) & Southern California Gas Company customer.
- All programs must be applied to individually.
- You pay for them so you should take advantage of them!

# Income Qualified Programs

Maximum Household Income		
# of Persons in Household	CARE, EMA, DAP	FERA
1 – 2	up to \$30,500	Not Eligible
3	up to \$35,800	\$35,801 - \$44,800
4	up to \$43,200	\$43,201 - \$54,000
5	up to \$50,600	\$50,601 - \$63,200
6	up to \$58,000	\$58,001 - \$72,400
each additional person	\$7,400	\$7,400 – \$9,200

*These income limits are effective from June 1, 2009 to May 31, 2010*



# You can qualify if you receive:

- Medicaid/Medi-Cal – Under 65
- Medicaid/Medi-Cal – **65 or older**
- Healthy Families A & B
- Women, Infants, and Children Program (WIC)
- Temporary Assistance for Needy Families (TANF) or Tribal TANF
- Food Stamps/SNAP
- Low Income Home Energy Assistance Program (LIHEAP)
- Supplemental Security Income (SSI)
- National School Lunch's FREE Lunch Program (NSL)
- Bureau of Indian Affairs General Assistance (**BIA GA**)
- Head Start Income Eligible - **Tribal Only**

# The Gas Company Income Qualified Programs

- **California Alternative Rates for Energy (CARE)**
- **Direct Assistance Program (DAP)**
- **Gas Assistance Fund (GAF)**
- **Medical Baseline Allowance**
- **Third Party Notification**

# SCE Income-Qualified Programs

- California Alternative Rates for Energy (CARE)
- Family Electric Rate Assistance (FERA)
- Energy Management Assistance Program (EMA)
- Energy Assistance Fund
- Medical Baseline Allocation

# SCE Residential Programs available to all customers

- Online Energy Survey **FREE**
- Home Energy Efficiency Rebates
  - Refrigerator **\$50**
  - Whole House Fan **\$50**
  - Pool Pump **\$200**
  - Air Conditioning Units **\$50**
- Refrigerator and Freezer Recycling
- Lighting Products **Price Discounted**



**FREE**  
**Pickup &**  
**\$50 CASH**

# Southern California Gas Company Programs for all Customers

- Home Energy & Water Efficiency Survey **FREE**
- Instant Rebates on qualified:
  - Clothes washers **\$35**
  - Dish washers **\$30**
  - Water Heater **\$30**
- Mail-in rebates on qualified:
  - Tankless Water Heater **up to \$200**
  - Furnace **\$200**
  - Insulation **\$0.15/sq.ft.**



# Federal Tax Credits for Energy Efficiency

- Home Energy Efficiency Improvement Tax Credits
  - tax credit for 30% of the cost
  - up to **\$1,500**
  - 2009 through 2010
  - See [EnergyStar.gov](http://EnergyStar.gov) for a complete summary
- 30% Tax Credits are also available for renewable installations (i.e. Solar Panels)



# Steps to saving energy, money & the environment

- ✓ Home Energy Efficiency Assessment
  - Online Survey
- ✓ No cost/low cost modifications
  - Install products from today
  - Torchiere exchange
  - behavior
- ✓ Energy Efficient Retrofits
  - Rebates
  - Incentives
  - Tax Credits
- ✓ Education to household
  - Energy Star
  - Sustainable Works
- ✓ Ongoing behavior
- ✓ Self Generation
  - Solar Santa Monica



# For Additional Training & Education



- Customer Technology Application Center (CTAC) [www.sce.com/ctac](http://www.sce.com/ctac)
- Energy Resource Center (ERC) [www.socalgas.com/business/resourceCenter/ercOverview.html](http://www.socalgas.com/business/resourceCenter/ercOverview.html)
- Sustainable Works: [www.sustainableworks.org](http://www.sustainableworks.org)



# Websites



- SCE Programs [www.sce.com](http://www.sce.com)
- The Gas Company Programs [www.socalgas.com](http://www.socalgas.com)
- Solar Santa Monica [www.solarsantamonica.com](http://www.solarsantamonica.com)
- Office of Sustainability and the Environment  
[www.smgov.net/departments/ose/](http://www.smgov.net/departments/ose/)
- Community Enhancement Services  
[www.cesinla.com](http://www.cesinla.com)
- ENERGY STAR  
[www.energystar.gov](http://www.energystar.gov)

# QUESTIONS & ANSWERS

Any questions



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# Weatherization Demonstration

- Caulking
- Weatherstripping