



CLIMATE ACTION MANAGEMENT TEAM

Hayward City Hall – Conference Room 1C
777 B Street, Hayward, CA 94541-5007

February 16, 2011
7:00 p.m. – 8:30 p.m.

REVISED AGENDA

- I. Call to Order
- II. Introductions
- III. Public Comments: *(Note: For matters not listed on the agenda, the Committee welcomes public comments under this section, but is prohibited by State Law from discussing items not listed on the agenda. Items not listed on the agenda brought up under this section will be taken under consideration and may be referred to staff for follow-up as appropriate.)*
- IV. Approval of Action Minutes of January 19, 2011
- V. Report on January 5, 2011 Council Sustainability Committee Meeting (approx. 7:05)
- VI. Presentation from David Stark on the Current Real Estate Market (approx. 7:10)
- VII. Residential Energy Conservation Ordinance (approx. 7:20)
- VIII. Review of Energy Conservation Tip Sheets (approx. 8:15)
- IX. Future Agenda Items (approx. 8:20)
- X. General Announcements (approx. 8:25)
- XI. Next Meeting: Wednesday, March 16, 2011, 7:00-8:30 pm (room 1C)
- XII. Adjournment



Assistance will be provided to those requiring accommodations for disabilities in compliance with the Americans with Disabilities Act of 1990. Please request the accommodation at least 48 hours in advance of the meeting by contacting Katy Ramirez at (510) 583-4234 or by calling the TDD line for those with speech and hearing disabilities at (510) 247-3340.



CITY OF HAYWARD
DEVELOPMENT SERVICES DEPARTMENT

Memorandum

DATE: February 16, 2011
TO: Climate Action Management Team
FROM: Erik Pearson, Senior Planner
SUBJECT: **Agenda Item VII**
Residential Energy Conservation Ordinance – Items for Discussion

The following items relate to the development of the Residential Energy Conservation Ordinance (RECO) and reflect comments made by the Council Sustainability Committee on February 2, 2011. Two items that staff would like to discuss with the CAM Team are Enforcement/Penalties and Compliance Measures or required Energy Conservation Measures for inclusion in the draft ordinance.

Enforcement/Penalties

Staff is currently considering using the City's existing Infraction process which may result in fines being. An additional Infraction could be issued for every 60 days the property remains out of compliance. Another possible mechanism would be to place a lien or notice against a property so that compliance is accomplished prior to sale of a property.

Energy Conservation Measures (ECMs)

Group One ECMs (previously identified as "Mandatory Measures") - Completion and verification of all of the following Group One ECMs is required. Verification may be by a City inspector, a contractor certified by the Building Performance Institute (BPI), or other inspector as approved by the City. (removed low-flow toilets from previous list)

- i. Installation or replacement of the following fixtures and faucets with low-flow devices
- ii. Insulation of exposed hot water pipes and cold water pipes within 60 inches of the water heater.
- iii. Installation of weather stripping on all exterior doors.
- iv. Installation of dampers, doors or other devices to obstruct or block air-flow to reduce heat loss through chimneys.

Group Two ECMs - Applicants may select any one of the following Group Two ECM compliance options:

A. Option One. A Qualified BPI Professional shall perform Combustion Safety Testing, install a carbon monoxide (CO) monitor, and shall install and verify any two of the following:

- 1) Air Sealing;
- 2) Duct Sealing;
- 3) Attic Insulation rated R-38.

B. Option Two. The Applicant shall install and verify any two of the following:

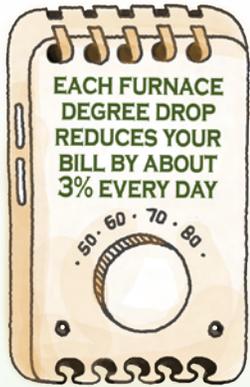
- 1) A minimum of R-30 attic insulation;
- 2) A minimum of R-13 exterior wall insulation;
- 3) A minimum of R-19 raised insulation;
- 4) At least 90% of the total area of vertical fenestration (glazed) is dual pane with wood, vinyl or fiberglass frames;
- 5) Central natural gas furnace with an Annual Fuel Utilization Efficiency (AFUE) of 90% or greater;
- 6) Duct sealing;
- 7) Natural gas water heater with an Energy Factor (EF) of 0.80 or greater.

C. Option Three. Completion of a HERS II Performance audit and assessment and submission of the assessment report to the City, demonstrating either:

- 1) an improvement in the Residential building's HERS II score by at least 10%, or
- 2) a HERS II score of 120 or less; or
- 3) completion of an alternative performance audit, assessment and 10% score improvement, as approved by the Administrator.

Exemption for Low Home Energy Use. Residential building owners currently residing at a property and who are required to comply with the RECO by a date certain, may apply for a complete exemption if the owner demonstrates that the residential building's annual energy use is at least 15% below the average home energy use in the City for the previous 24 months.

(This exemption would expire when the exempted owner transfers the property to a new owner.)



ENERGY EFFICIENCY

- ▶ Sealing and insulating ducts can improve the efficiency of your heating and cooling system by as much as 20%—and sometimes much more.
- ▶ Through proper use of pre-programmed settings, a programmable thermostat can save you about \$180 a year in energy costs.
- ▶ Turn off lights and appliances, including the computer, when not in use.
- ▶ Replace standard incandescent light bulbs with compact fluorescent light bulbs, which use up to 75% less energy.
- ▶ Adjust your water heater thermostat down to 120° when home, and to its lowest setting when you're away.
- ▶ Each 1-degree drop for an eight-hour period reduces your fuel bill about one percent.
- ▶ Wash clothes in cold water whenever possible.
- ▶ A clothes dryer accounts for 12% of electricity use in a typical household. When weather permits, use an outdoor clothesline instead.
- ▶ Check to make sure the temperature on your refrigerator is not too high.

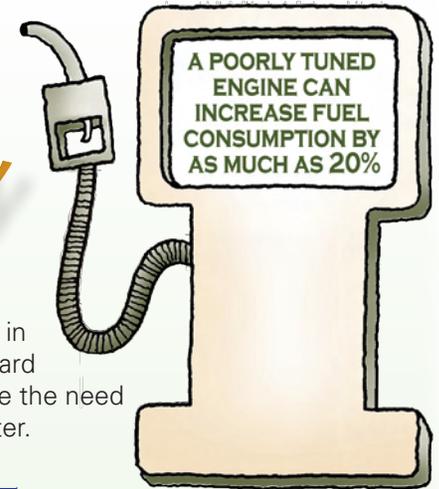
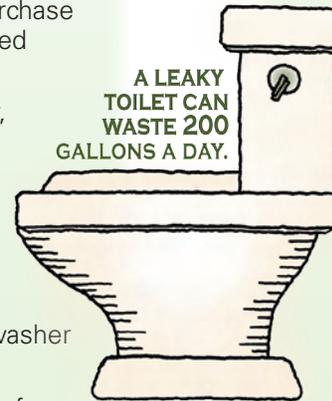


Some Easy Ways to Save Energy, Water & Money

- ▶ Bottom freezer models use approximately 16 percent less energy than side-by-side models
- ▶ Brush or vacuum your refrigerator condenser coils at least once a year.
- ▶ Close the damper when the fireplace is not being used.
- ▶ Replace or clean furnace filters regularly and keep your furnace tuned up.
- ▶ Clean the lint filter of your clothes dryer filter after every load.
- ▶ When buying new appliances, purchase energy-efficient Energy Star-labeled models.
- ▶ Insulate your home, water heater, and water pipes.

WATER EFFICIENCY

- ▶ Take short showers instead of full baths.
- ▶ Wash only full loads in your dishwasher and clothes washer.
- ▶ Sweep outside instead of using a hose to clear sidewalks and driveways.
- ▶ Water your garden in the early morning.
- ▶ Avoid watering paved areas.
- ▶ Use soaker hoses or trickle irrigation systems for trees and shrubs.



- ▶ Use mulch in your yard to save the need to water.

SMART TRANSPORTATION

- ▶ Use public transportation, carpool, or bike whenever possible to get to work, school or play.
- ▶ Don't idle! Idling cars and school buses can pollute air in and around the vehicles, and can enter school buildings.
- ▶ Idling for more than 10 seconds uses more fuel than restarting your engine.
- ▶ Keep your car tuned up and its tires inflated to their proper pressure.



The City of Hayward created this Tip Sheet to help you save money on your energy and water bills as well as help conserve valuable natural resources and reduce air pollution. More information is at the Green Hayward section on the City's website: www.hayward-ca.gov/cap08/cap08.shtm

Additionally, PG&E offers income-qualified, financial assistance programs to help you save money and reduce energy consumption, call 1-800-743-5000 for more details.

REDUCE

- Buy durable items instead of disposables. Things to consider are cloth dish towels instead of paper; reusable dishes instead of paper or plastic plates and cups; and food-storage containers instead of plastic bags.
- Buy products with less packaging.
- Buy products that use less toxic chemicals. These include environmentally friendly hand and laundry soap, cleaners, and garden products.
- Don't buy bottled water. Use a refillable container and save money while reducing waste. Keep a pitcher of water in the fridge to get rid of any tap-water taste.

REUSE

- Repair items as much as possible.
- Reuse empty jars and containers to hold leftover food.
- Reuse boxes for storage, packing, or gifts.
- Donate clothes and household items instead of throwing away.

RECYCLE

- Buy recycled products and products that use recycled packaging.
- Recycle paper (printer paper, newspapers, mail, etc.), plastic, glass bottles, cardboard, and aluminum cans. Check to find out what your disposal company will take in the recycling, or what special recycling services they offer.
- Keep toxics and hazardous materials out of our environment. Recycle used motor oil, batteries, mercury thermometers, and compact fluorescent lamps (CFLs).

FREE DROP OFF

at Tri-CED in Hayward
2091 West Winton Avenue
www.tri-ced.org or 510-670-6460

RECYCLE OLD ELECTRONICS

at Tri-CED in Union City
33377 Western Avenue
510-471-3850

CURBSIDE COLLECTION

Compost your food scraps, grass and other yard clippings or place them in your green bin for curbside collection.



TIPS FOR SAVING



ENERGY

WATER

MONEY

PROVIDED BY
THE CITY OF HAYWARD

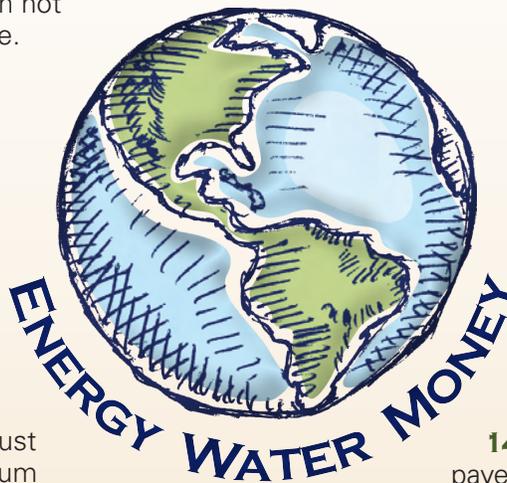
TEST YOUR \$AVINGS IQ

ENERGY EFFICIENCY

- 1) Appliances don't use energy when you're not using them.
 True False
- 2) Compact fluorescent light bulbs use up to 75% less energy than standard incandescent light bulbs.
 True False
- 3) When you're away, your water heater stops heating water because nobody is using it.
 True False
- 4) All laundry should be washed in hot water to be as clean as possible.
 True False
- 5) Food in a refrigerator will spoil if kept above 42°.
 True False
- 6) Dirt and dust on refrigerator coils help insulate them so the refrigerator runs better.
 True False
- 7) Furnace and dryer lint filters must be cleaned regularly for maximum efficiency.
 True False
- 8) Homes should be insulated to keep the inside at a comfortable temperature, but nothing inside the home needs insulation because it's warm enough indoors anyway.
 True False

SMART TRANSPORTATION

- 9) An idling car is pretty much the same as a parked car in terms of fuel and pollution.
 True False
- 10) An old, beat-up car uses the same amount of fuel as a brand-new one.
 True False
- 11) Using public transportation, carpooling, and bicycling are the most energy-efficient ways to get to work, school, or play.
 True False



WATER EFFICIENCY

- 12) Showers use about as much water as baths.
 True False
- 13) Partial loads in dishwashers and washing machines use much less water and less energy than full loads.
 True False
- 14) Sidewalks, driveways, and other paved areas can be cleared and cleaned just as well with a broom as with a hose.
 True False
- 15) You should water your garden at the warmest time of the day to relieve plants from the heat.
 True False

Flip the sheet to check your answers



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BETTER FACTS

ENERGY EFFICIENCY

- 1) **False!** Most appliances, including computers, use energy even in standby mode. Turn off and unplug lights and appliances when not in use.
- 2) **True!** Use less energy by replacing old light bulbs with compact fluorescent lights.
- 3) **False!** Water heaters consistently keep water at their thermostat's highest setting, even when the water is not being used. Adjust your water heater thermostat down to 120° when home, and to its lowest setting when you're away.
- 4) **False!** Washing clothes in cold water is better for fabrics and better for your fuel bill. About 90% of the energy use in a clothes washing goes to water heating.
- 5) **True!** The optimum refrigerator temperature for food freshness and energy efficiency is between 36° and 42°. Any warmer and the food will quickly go bad; any colder and the refrigerator is using too much electricity.
- 6) **False!** A clean refrigerator unit runs most efficiently. Brush or vacuum its condenser coils at least once a year.
- 7) **True!** Replace or clean furnace filters regularly, and be sure to clean the lint filter of your clothes dryer after every load.



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grass and other yard clippings
or place them in your green bin
for curbside collection.

- 8) **False!** Insulate your water heater and water pipes as well as your house to make sure heat isn't lost in the air.

SMART TRANSPORTATION

- 9) **False!** Idling cars and buses can pollute air in and around the vehicles, and can even enter buildings. In addition, idling for more than ten seconds uses more fuel than restarting your engine.
- 10) **False!** Well, maybe. Keep your car tuned up and its tires inflated to their proper pressure for better gas mileage.

11) **True!** That was easy!

WATER EFFICIENCY

- 12) **False!** Short showers use much less water than baths.
- 13) **False!** Fill your dishwasher and clothes washer completely to get the most "bang for your buck."
- 14) **True!** Watering paved areas is an enormous waste of water. Sweep outside instead of using a hose.
- 15) **False!** When the sun is out, a significant amount of the water you use outside evaporates. Water lawns and gardens in the early morning or at night. You can also use mulch in your garden to keep soil from quickly drying out in the sun.

Reduce your furnace use, reduce your fuel bill: each degree drop reduces the bill by about 3% every day.

REFRIGERATOR

New EnergyStar appliances can pay for themselves in energy savings in 3-5 years. Ten-year-old refrigerators can use twice as much electricity as a new ENERGY STAR® labeled model.

GAS PUMP

A poorly tuned engine can increase fuel consumption by as much as 10 to 20 percent depending on a car's condition. <http://couponing.about.com/cs/auto/ht/htsaveongas.htm>

The difference between a car that gets 20 MPG and one that gets 30 MPG amounts to \$1,500 over five years. <http://couponing.about.com/cs/auto/ht/htsaveongas.htm>

For modern aerodynamically enhanced cars, the most efficient average speed is more in the range of 65 mph or even higher. <http://www.funandsafedriving.com/best-gas-mileage-33-gas-saving-tips.html>