



A University of Hawai'i Cooperative Extension Service Project

www.ctahr.hawaii.edu/tcym

Course Objectives



- Increase your knowledge about financial planning
- Improve your ability to make informed decisions



Ways to Save Energy & Money

Hawai'i Department of Commerce & Consumer Affairs

Presenter



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Lesson Objectives



- Learn more about energy usage
- Learn how you may be able to curb that usage and reduce your utility bill
- Take advantage of available rebates

Topics



- What rebates and credits are available?
- Using energy monitors and smart plugs
- Energy tips

Obtain Rebates & Credits



- Kaua'i Residents
 - Apply through KIUC
 - <http://website.kiuc.coop/content/energy-wise-programs-0>
- HECO, MECO, HELCO
 - Apply through Hawaii Energy
 - <https://hawaiienergy.com/for-homes/rebates>

Solar Water Heating



- Average \$600/year savings
- \$1000 rebate
- Hawai'i and federal tax credits
- Special loans

Alternative Water Heating



- Energy Star heat pump
- 1-2 people in household
- \$300 rebate (Hawaii Energy)



Appliances

- Double check requirements
- Buy from participating stores
- Energy Star appliances operate more efficiently



Kaua'i Rebates



Kaua'i Island Utility Cooperative (KIUC) \$50 Rebates

- Clothes washers
- Refrigerators
- Freezers

Hawaii Energy Rebates



- \$50 for Refrigerators
- \$100 Refrigerator Trade-Up
- Refrigerator/Freezer
“Rid-A-Fridge” bounty program
- \$50 Energy Star A/C trade-up
- \$50 Solar attic fans
- \$35 Energy Star ceiling fans

Hawai'i Gas Rebates



- \$500 Good Energy Credit
- \$100 Single new gas appliance
- \$100 new customer referrals

Lighting Rebates



Lighting Instant Rebates

- Save \$0.95 on CFLs
- Save \$3-\$5 on LEDs

Check for Participating Retailers

<https://hawaiienergy.com/for-homes/cfl/participating-retailers>

Energy Monitors Use



- How much energy am I using?
- Plug-in models
- In-home displays
- Determine what can be unplugged



Smart Plugs Use



- Control your electrical outlet from your smart phone or computer
- Some also include timer and energy monitor features



Timers Use

- Cut power to devices when they are not needed automatically

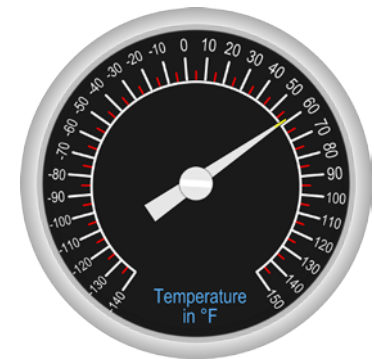


Hot Water Tips



Minimize Hot Water Use

- Wash clothes with cold water
- Use low-flow shower heads
- Flow rate of 2.5 gallons per minute (gpm) or less



Hot Water Heater Tips



- Set the thermostat to 120°F
- Insulate it
- Safety first



Residual Heat Tips



- Dry consecutive laundry loads
- Turn off the oven 15 minutes early, but leave in oven for 5 more minutes
- Reduce temperature by 25° when using glass baking dishes



More Residual Heat Tips



- Cover pots and pans
- Match burner and pot sizes
- Toaster and microwave ovens use less energy than a stove



Computer Use Tips

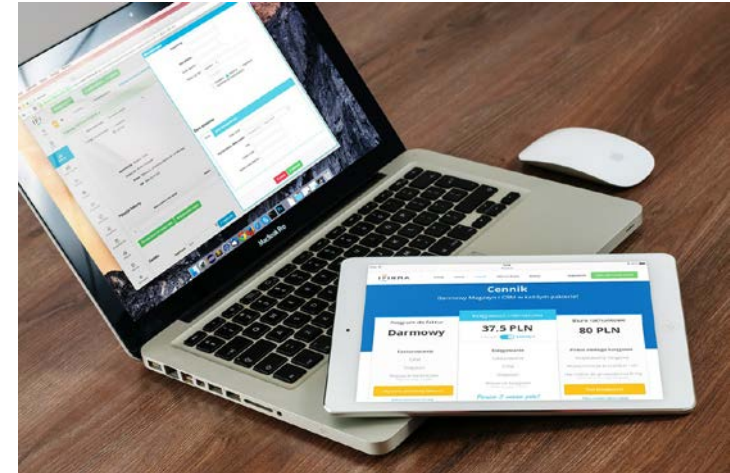


- Enable energy saving features
- Dim display when possible
- Use sleep mode or shut down
- Remember to shut off other computer equipment powered separately
- Monitor, speakers, printer, etc.

Types of Computer Use Tips



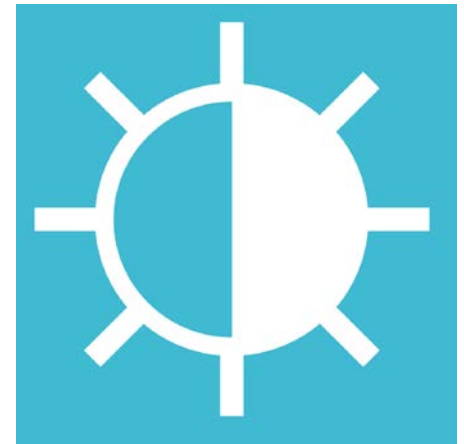
- Laptop computers use less energy than desktops
- Tablets use even less



TV Energy Tips



- Lower brightness when possible
- LED TVs consume less energy
- Check for energy saving mode



Phantom Loads



- Electronic devices may still draw power even when “off” but plugged in
- Chargers, TVs, DVRs, etc.
- Unplug or turn off power strips

Home Cooling



- Block out sunlight
- Avoid placing hot objects near your A/C's thermostat
- Lower A/C temperature and run it in combination with a fan

Other Resources



- Energy Star
 - <https://www.energy.gov/star.gov/>
- U.S. Department of Energy
 - <http://energy.gov/>
- Database of State Incentives for Renewables & Efficiency
 - <http://www.dsireusa.org/>
- Kanu Hawaii – The Bestest Hawaii-focused Energy Course!
 - <http://www.kanuhawaii.org/learn/>
- Hawaii Clean Energy Initiative – Energy Efficiency
 - <http://www.hawaiiicleanenergyinitiative.org/energy-efficiency/>

Electric Utility Resources



- Kauai Island Utility Cooperative
 - Phone (808) 246-8280
 - <http://website.kiuc.coop/>
- Hawaii Energy
 - Phone (808) 537-5577 (Oahu)
 - (877) 231-8222 (Toll-Free)
 - <https://hawaiienergy.com/>

Gas Utility Resources



Hawaii Gas

- Hilo (808) 935-0021
- Kona (808) 329-2984
- Maui (808) 877-6557
- Molokai & Lanai (800) 828-9359
- Oahu (808) 535-5933
- Kauai (808) 245-3301
- <http://hawaiiigas.com/>

Contact for More Information



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- dca@dcca.hawaii.gov
- <http://cca.hawaii.gov/dca/>

Website &
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Credits



We would like to thank the following groups for their support:

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