



Energy Efficiency Topics & Opportunities



Lily Koo
Business Energy Advisor

WHAT WE DO

Hawai'i Energy is here to help you
make **smart energy choices.**

Because smart energy choices...



reduce energy use



save money



pursue a 100% clean
energy future

What happened last year & Moving Forward



Energy Champion Story

Hokulani Waikiki by Hilton

Vanity Lighting Retrofit

Rebate: \$14,281.72

**Annual Energy savings:
94184.29 kWh**

**Annual Bill Savings:
\$19,285.50**

**If your ADR is \$200 = 96 room
nights of revenue**

Simple Payback: 1 year



Energy Champion Story

Outrigger Waikiki

Chiller replacement with
system controls, new water
piping & VFDs for pumps

Rebate \$130,390

Annual Energy savings:
1,037,084 kWh

Annual Bill Savings: \$200,000

Simple Payback: 4.2 years

If your ADR is \$200 = 1000
room nights of revenue



Hawaii Energy

Energy Champion Story

Hale Koa Hotel – Maile Tower

**AC Thermostat Controls equipped
with Occupancy Sensor**

Rebate \$28,875

**Annual Energy savings: 467,428
kWh**

Annual Bill Savings: \$92,547.5

Simple Payback: 1.67 years

**If your ADR is \$200 = 462 room
nights of revenue**



Hawaii Energy

US Department of Energy & Hawaii Energy awarded the Marriott –Waikiki Complex for Energy Leadership



Overview of Commercial Program

Prescriptive

- Lighting
- HVAC
- Motors
- Water Heating
- Water Pumping
- Building envelope
- Controls
- Submetering
- Refrigeration
- Kitchen Equipment

Custom

- *Performance based incentives*
- *Site specific project analysis*
- *Projects not covered under prescriptive incentive offerings*

Transformer

EE transformers
reduce heat and
energy load up to
60%;
Free up UPS
capacity.



Electric Vehicle (EV) Charging Network

- Level 2, multi-port, networked chargers and DC Fast Chargers
 - Level 2: \$4,500 (new installation) and \$3,000 (retrofit)
 - DCFC: \$35,000 (new installation) and \$28,000 (retrofit)
 - Includes fleet charging and general public charging

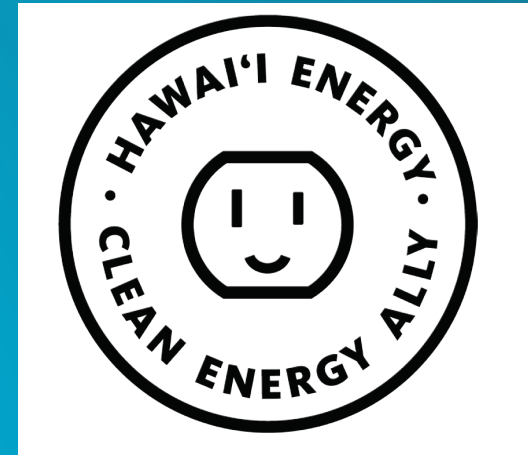


- **State-funded including
Kauai County**

Consumer Programs

ENERGY ADVANTAGE

EmPOWER Hawai'i Project



New Construction – Savings by Design
Energy Audits & Studies
Retrocommissioning & Recommissioning



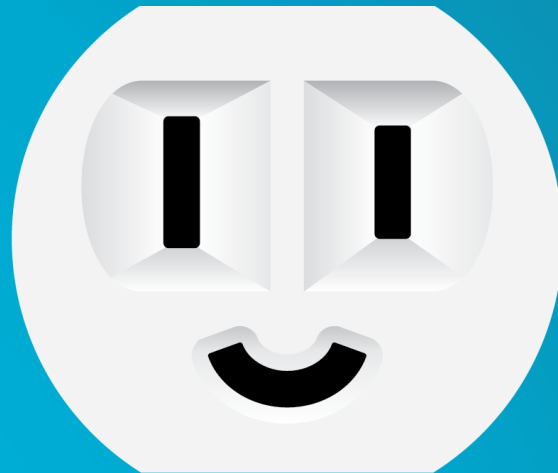
Hawai'i Energy

Transforming Hawaii

- Building Operator Certification
- Advanced Lighting
- Certified Energy Manager
- 3rd Annual Innovation Symposium – Spring 2020
- Code & Standards Support
- Clean Energy Collaboration with Utilities, PUC & public & private stakeholders



Strategic Energy Management



Christina Vicari
Business Energy Advisor

What is SEM?

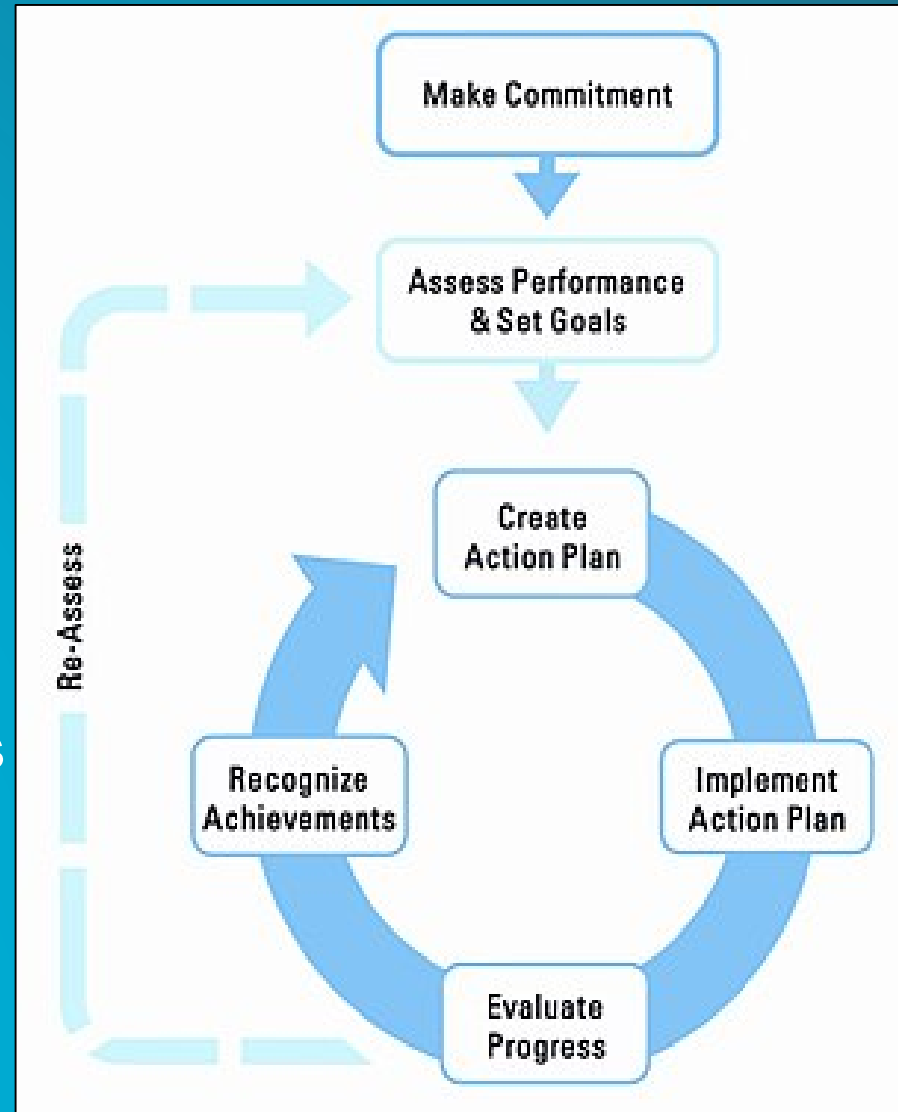


Office of Energy Efficiency and Renewable Energy

<https://www.energy.gov/eere/slsc/energy-efficiency-policies-and-programs>

THE STEPS

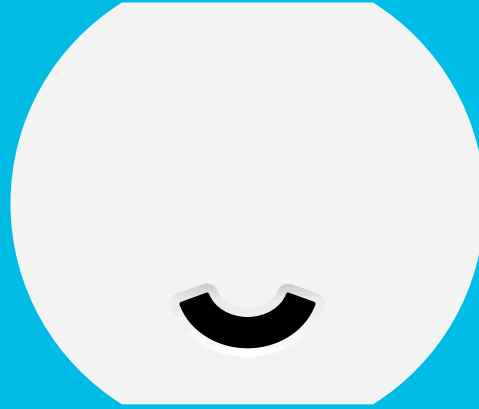
- Step 1: Make Commitment
- Step 2: Assess Performance
- Step 3: Create & implement Action Plan
- Step 4: Evaluate Progress
- Step 5: Recognize Achievements



BENEFITS – AVE. 5% ANNUAL ENERGY SAVINGS

- Reduce energy consumption through improved energy efficiency and energy conservation
- Improve peak demand management
- Reduce energy costs, greenhouse gas (GHG) emissions
- Reduce downtime of equipment operation, improve maintenance practices,
- Greater guest comfort, employee productivity & morale, better employee retention.
- Improve grid reliability through integration of distributed energy resources





Mahalo!

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CELEBRATING A DECADE



Hawai'i Energy

10
EMPOWERING EFFICIENCY

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