



# GUAM ENERGY OFFICE FY 2015 CITIZEN-CENTRIC REPORT

## TABLE OF CONTENTS

Program Performance	2
Fiscal Performance	3
Challenges/Future Outlooks	4

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## ABOUT GUAM ENERGY OFFICE

Guam Energy Office (GEO) is a small line agency within the Executive Branch of the Government of Guam. The Agency serves the general public by promoting energy efficiency to reduce reliance on imported fuels, to reduce greenhouse gas emissions that affect global climate change, and to reduce energy costs for consumers, businesses, and government.

Located at upper Tumon, GEO's facility built in 2002, continues to be upgraded to maintain energy efficiency. New improved solar panels were properly installed to reduce monthly electrical power costs through the net metering technology.



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### OUR STRATEGY

Practicing energy conservation and investing in energy efficiency play a major role to reduce CO2 emissions from human activity and help combat climate change. The Guam Energy Office is committed to promote energy efficiency and provide conservation solutions, to assist with reducing fossil fuels dependency, to partner with others to deploy renewable technologies for energy diversification, and to help reduce greenhouse emissions to protect the environment.

## STATE ENERGY PROGRAM

The State Energy Program (SEP) is a Federal grant received annually for GEO to provide technical assistance to promote energy efficiency and energy renewables through various activities such as hold an Energy Expo, sponsor Energy Poster & Essay Contests at schools, provide trainings and conferences, and other allowable grant activities.

## PLUG-IN ELECTRIC VEHICLE PROGRAM

The Plug-In Electric Vehicle Rebate Program is a new program funded by the General Fund for GEO to adopt rules and regulations 180 days after the enactment of P.L. 32-164 and offer rebate for not more than 10% of the total base price of a qualified plug-in electric drive motor vehicle. An appropriation of \$300,000 shall continue to be available until fully expended with phase-out reduction of rebate amounts. In Fiscal Year 2015, GEO established the regulations, developed the application forms to include proof of required documents, held public hearings, and then worked with automotive dealerships to consider importing electric vehicles to Guam. The goal of this program is to reduce fuel consumption, reduce harmful emissions, and to stimulate

Guam's economy by assisting Guam residents with rebates for the purchase of plug-in electric vehicles. GEO hopes to start processing rebate applications in FY 2016.



## WEATHERIZATION ASSISTANCE PROGRAM

The Weatherization Assistance Program (WAP) is a federally funded annual activity that helps reduce energy costs for income eligible applicants by improving the energy efficiency of their homes while ensuring their health and safety. The program is geared to assist the elderly, individuals with disabilities, and families with children based on income. A whole house approach assessment is conducted to determine if the eligible house needs the following:

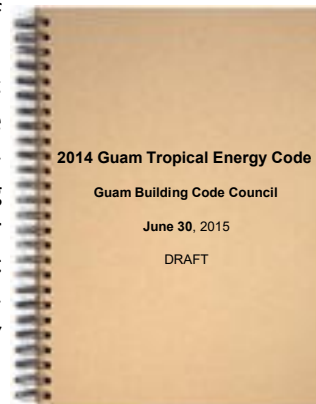
- Replacement of refrigerator, window air conditioner, and/or water heater with energy efficient units.
- Installation of compact fluorescent light bulbs.
- Weather stripping and sealing of air leaks.
- Installation of low-flow showerheads & faucet aerators.
- Installation of smoke detectors and/or carbon monoxide detectors.



Energy Expo @ Micronesia Mall on November 2014

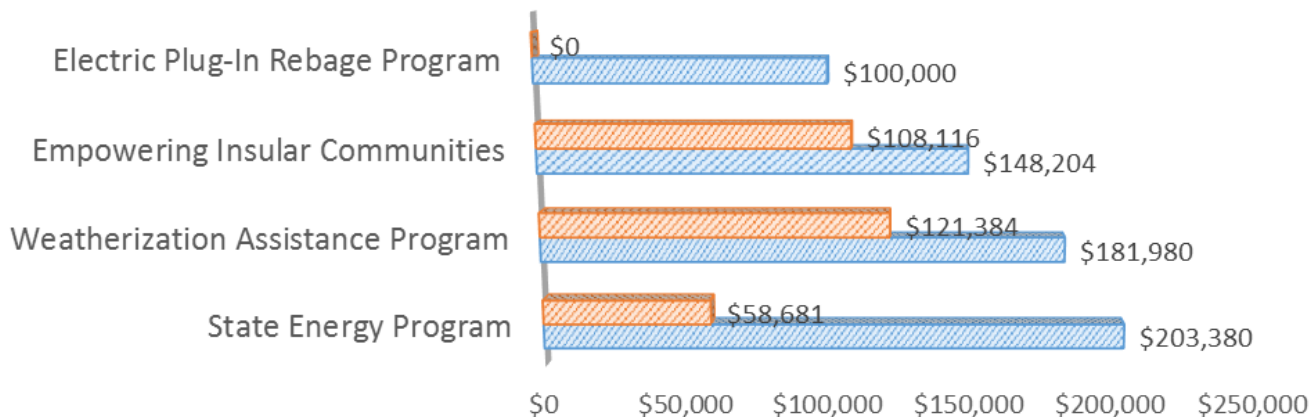
## EMPOWERING INSULAR COMMUNITIES

*Better Building Codes with Energy Code* is GEO's project funded with Federal dollars under the Empowering Insular Communities of the U.S. Department of Interior/Office of Insular Areas. GEO has partnered with the Guam Building Code Council and Guam Community College to finalize and promote the Guam Tropical Energy Code (GTEC). On March 3 & 4, 2015, over 100 people attended the GTEC Conference held in Westin hotel. On July 14, 2015, over 70 island engineers, architects, business professionals, and government officials reviewed the 2014 Draft GTEC at a working meeting. Townhall meetings at Dededo and Agat were also held for the community on the benefits of an energy code.



# FINANCIAL SNAPSHOT

Expenditures Revenues



## REVENUES

The total amounts were the dollars authorized to be used for budget period FY 2015. The Weatherization Program and State Energy Program were annual grants received from U.S. Department of Energy geared for only states & territories' energy offices. The Empowering Insular Communities grant was a competitive award from the Office of Insular Areas, U.S. Department of Interior. The Electric Plug-In Rebate Program was funded by General Fund to cover only rebate vouchers for the motorists.



## EXPENDITURES

GEO'S expenditures covered by Federal dollars consisted of salaries and benefits, travel, equipment, supplies, utilities, and contractual costs such as communications, training venues, conference materials, advertisements, etc. to carry out technical assistance and implement projects.

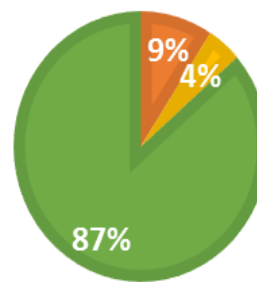
WAP services are free to households meeting eligibility criteria based on household income. To qualify, the total household income shall not exceed maximum income as stated on chart. Documents required with application are valid ID photo, social security cards for all occupants, verification of all household income, and proof of homeownership or rental agreement.

FAMILY SIZE	MAXIMUM INCOME (not to exceed)
1	\$29,160
2	\$39,320
3	\$49,480
4	\$59,640
5	\$69,800
6	\$79,960
7	\$90,120
8	\$100,280

*Families with more than 8 people, add \$10,160 for each additional person.  
Note: Income limits subject to change without notice as per Federal guidelines.*

## ASSISTED 2,799 PEOPLE WHEN 878 HOMES WEATHERIZED

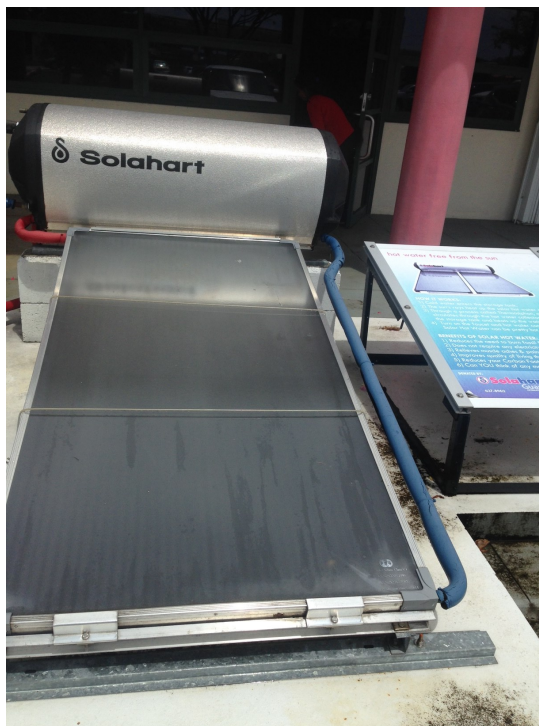
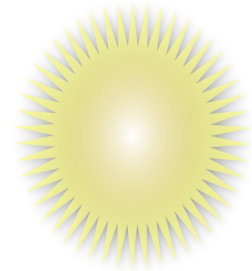
- Elderlies
- Disabilities
- Families with children



**CHALLENGES**

- ◇ Grant awards funding GEO 100% of all its operations were received late causing delays on planning, procuring and implementing activities.
- ◇ Encountered delays on implementation of program activities as a result of two program senior staff transferring to other Government of Guam agencies for career upward mobility.
- ◇ Reduction on grant allocations being awarded caused concerns of GEO's future to continue operations and serve the island community.

# SOLAR POWER

**Hot water free from the sun**

How it works:

- 1) Cold water enters the storage tank.
- 2) The sun's rays heat up the solar water heater collector panels.
- 3) Through a process called Thermosiphon, a heat transfer fluid circulates through the hot water collector panels and around the storage tank and heats up the water.
- 4) Turn on the faucet and hot water comes out.

Benefits of Solar Hot Water:

- 1) Reduces the need to burn fossil fuels.
- 2) Does not require any electricity to heat the water.
- 3) Reduces your Carbon Footprint.

**FUTURE OUTLOOKS**

- ☀ Continue to apply for energy grants with U.S. Department of Energy, U.S. Department of Interior, and other Federal entities when opportunities for funding come available.
- ☀ Plan, develop and implement energy projects and activities that are tailored to the island community needs and allowable with federal grant dollars.
- ☀ Provide energy data to support Governor Eddie Calvo's Imagine Guam initiatives for a sustainable and improved island.

