

# Honolulu's Going Green

## An Update

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Date: March 5, 2012



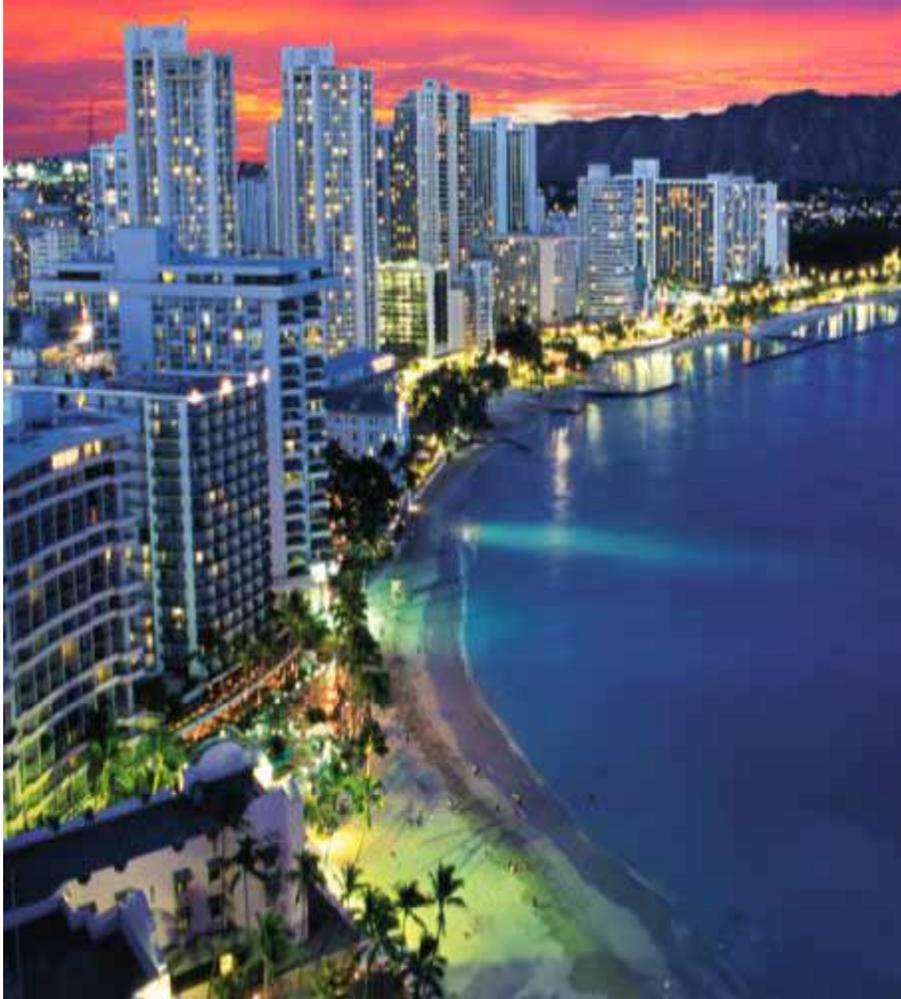


# 2011 SUCCESSES

- LED Street Lighting Pilot Project
- Pearl City Bus Maintenance Facility Photovoltaic Project
- Electric Vehicle Ready Grant



# LED Street Lighting Pilot Project



- In 2011, a Request for Information (RFI) was released to study the viability of LED Street lighting in the City and County of Honolulu
- DDC is currently reviewing the companies who responded to the RFI.
- Once completed, the collected data will help create an RFP that could potentially affect 50,000 street lights, which can be a significant source of energy savings.



# Photovoltaic Project



- The 232-kW system will generate approximately 381,060 kilowatt-hours of electricity annually.
- This is approximately 20% of the electricity needs for the facility, which is enough to power approximately 53 homes.
- The annual cost savings of the systems is approximately \$83,000.
- Completion Date: March 2012
- Paid by the Energy Efficient and Conservation Block Grant Award

# Hawai'i EV Ready Grant Program



- The purpose of the grant was to help accelerate Hawaii's adoption of electric vehicles and related charging equipment.
- The City was awarded \$400,000.00 to install charging stations, introduce electric vehicles into the City fleet, establish data collection for utility integration and power management, and create an online permitting process to streamline EV charger installation.



# Expected **SUCCESSES** in **2012**

- Halawa Corporation Building D Photovoltaic System
- Green Job Grant
- Infrastructure for the Future



# **Halawa Corporation Yard Building D–Photovoltaic Project**

- The construction contract was executed at the end of 2011.
- Design: Parking lot is on top of the building, so the panels will provide car port like protection, while producing energy
- Paid by the Energy Efficient and Conservation Block Grant Award

# Green Job Grant



- Beginning in December 2010, the City received approximately \$1.6 million of stimulus funds from the State Workforce Development Council to provide career planning, skills training, and job placement services to about 200 individuals in the energy efficiency, renewable energy and other “green” sectors.
- The State Energy Sector Partnership Job Training or “green” grant covers job training will be completed in December 2012.
- The large job fairs at Neal Blaisdell Center feature a “green zone” to promote awareness of green industries and job opportunities.
- Labor market information and resources are presented, and training providers and green companies are there to educate the public on career, training and job opportunities in these new and emerging occupations or industries.



# Infrastructure for the Future

- Rail Transit
- Submitted an RFP to recapture the methane gas from the Kailua Regional Wastewater Treatment Plant and turn it into electricity to help run the plant
- H-POWER third boiler to go on line this year. It is our most significant new alternative energy source; it will incinerate about 300k additional tons of trash per year for a total of 900k. Each ton of trash burned is one less barrel of oil Honolulu has to import.
- Retrofit buildings and garages with energy efficient lighting
- Consolidated motor pool, designed to reduce the number of cars the city must own and maintain
- Building Air conditioning systems
- Cloud computing
- Photovoltaic Systems



# Having a **VOICE** in Energy Decisions affecting Oahu

- Creating the Energy and Sustainability Coordinator position has allowed the City and County of Honolulu to be an active participant in the energy and sustainability community.
- For example, the City is now:
  - Actively involved with the Public Utility Commission's Feed-in Tariff Docket for reliability standards, which will significantly impact Oahu's ability to add renewable energy resources to the electric grid;
  - Participating in Reform Hawaii, an energy forum connecting government and private agencies
  - Participating in the Hawaii Clean Energy Initiative, giving CCH a voice in statewide energy initiatives like Big Wind and the interisland cable;
  - Participating in the military's Joint Services Working Group, allowing us to engage in energy initiatives and partnership opportunities; and
  - Better engaged with energy assurance planning by having a designated person within the Mayor's office to respond to an energy crisis.

# energy

oil fuels traditional  
Wastewater Plant  
efficient biling  
means source something  
green cleaner  
County effort air economy kilowatt HART Bus consumer bottom  
renewable project become  
reduce installation pump lighting  
equipment room  
costs Treatment vehicle  
City's cool generated Conservation  
infrastructure Kailua dependent alternative  
resources term businesses  
future produces difference  
petroleum  
City

levels pursuing rising co-generation ENV pilot nearly depends carbon public projects make turning quality run  
tank get relies  
fastest-growing biggest  
fueled pursue  
plants consumption large  
Honolulu easy temperatures County effort  
fix must emissions electric solar  
efficiency consuming provide household  
use facilities trucks comfortably details equipment  
fossil simple everyone building roof photovoltaic passenger-mile  
greenhouse street contract lights system improve infrastructure fuel replace City's  
expedient conserve utility Recently rail optimum obligation less involves vehicles gasoline  
cities control cars utility Recently rail optimum obligation less involves vehicles gasoline  
treatment imported walking older obligation harmful long affecting feeling alternatively  
Clean comfort Another walking older obligation harmful long affecting feeling alternatively  
feasible associated produces difference



**THANK YOU**