



**Clean
Hawaii
Center**

STATE OF HAWAII
Department of Business, Economic Development & Tourism
Energy, Resources & Technology Division

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Greening the Government Through Efficient Energy and Resource Management

Why Energy Efficient Management?

- To conserve resources and energy, and prevent pollution for future generations.
- It's mandated by the Federal Government and the State of Hawaii (See the Executive Orders and Hawaii Revised Statutes (HRS) summarized below.)

The Federal Government by far is the Nation's largest consumer of energy and resources with more than 500,000 buildings and spending over \$200 billion a year on products and services.

The State of Hawaii consumes 688 million kilowatt hours of electricity annually with an annual energy cost of approximately \$83.6 million (in 2003).

FEDERAL LEVEL:

- **Executive Order (EO) 13123:** In June 1999 President Clinton signed Executive Order (EO) 13123, "Greening the Government through Efficient Energy Management". *The purpose of the EO is to engage the federal government in an effective energy management program, EO 13123 encourages government agencies to promote energy efficiency, water conservation, and the use of renewable energy products. It is also designed to help foster markets for new environmentally conscious technologies.* (EPA – <http://www.epa.gov/fedsite/eo13123.htm>) Analysis includes:
 - Goals and Incentives
 - Current Consumption with recommended Solutions
 - Alternative Methods and Products

EO 13123
Reduce Greenhouse Gases by 30% by 2010
Reduce Energy Consumption by 30% by 2005
Switch to nonpetroleum energy sources
Increase Water Conservation
Install 20,000 solar energy systems at federal facilities by 2010

Who is Required to Comply?


- All Federal Agencies are required to reduce energy consumption and increase energy efficiency.
- Independent agencies are encouraged to comply with the provisions of this order.
- Agency facilities in any State of the United States, the District of Columbia, the Commonwealth of Puerto Rico, Guam, American Samoa, the United States Virgin Islands, the Northern Mariana Islands, and any other territory or possession over which the United States has jurisdiction.

STATE LEVEL:

- **State of Hawaii's HRS Chapter 196A-C Energy Efficiency in State Facilities:** In May 2002 Governor Cayetano approved the following energy consumption goals for the State of Hawaii.

HRS 196
Reduce GHGs by 30% (from 1990 levels) by 2012
Reduce Energy Consumption by 20% by 2007
Expand the use of Renewable Energy
Increase Water Conservation
Each agency shall provide 20% of its energy with Renewable Resources by 2020

Hawaii Code [HRS Chapter 196A-C]:

- Purchase Energy competitively
- Be consistent with Federal regulations, such as EO 13123 and State of Hawaii statutes
- Purchase products designated with the EPA's "Energy Star" rating 
- Use Efficient hot water storage
- Use an "Energy-savings performance contract" for new acquisitions and alterations
- Use Life-Cycle Cost Analysis in making decisions about their investments in products, services, construction

Governmental Reporting [HRS 196-13/14]:

Beginning January 1, 2004, each agency shall measure and report annually to the coordinator on its progress in meeting the requirements:

- Develop biennial budget submissions to include funding necessary to achieve the goals
- Issue guidelines (from the Director of Finance) to assist agencies in developing appropriate requests
- Develop annual implementation plans for fulfilling the requirements included in the annual reports to the coordinator

Resources:

1. A Guide to Implementing Executive Order 13123: <http://www.eere.energy.gov/femp/pdfs/eo13123.pdf>
2. A Guide to Implementing Executive Order 13123 (life cycle cost analysis): http://www.eere.energy.gov/femp/pdfs/lcc_guide_rev2.pdf
3. Energy Star web-site: http://www.energystar.gov/index.cfm?c=government.bus_government
4. EPA's EO13123 web-site: <http://www.epa.gov/fedsite/eo13123.htm>
5. Hawaii Revised Statutes: http://www.capitol.hawaii.gov/hrscurrent/vol03_ch0121-0200d/hrs_0196-.htm
6. Hawaii Revised Statutes Act 77: http://www.capitol.hawaii.gov/session2002/bills/sb2179_cd2_.htm
7. Guide to Energy Performance Contracting: http://www.hawaii.gov/dbedt/ert/perf_con.html

Contact Information:

For information on products in compliance with these regulations and the "Environmentally Preferable Products" contact: Gail Suzuki-Jones, Clean Hawaii Center, State of Hawaii, Department of Business Economic Development & Tourism
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