



A Plan for Energy Management in State Facilities

**Connecticut Office of Policy and Management
Energy Management Unit
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Introduction

- Plan is developed and submitted to the CEAB pursuant to Section 101 of P.A. 07-242.
- Energy is defined comprehensively, including all fuel types, facilities, and transportation apparatus.
- Plan provides a framework for multiple agencies to work together to achieve individual goals as well as the effective management of overall energy usage in state government.

Introduction (continued)

Plan Organization:

- Policy Context
- Operational Context
- Projects and Programs
- Summary & Recommendations

Policy Context for the Management of Energy in State Government

- Section 16a – 35k of the Connecticut General Statutes – “Legislative Findings and Policy”
- Governor Rell’s *Connecticut’s Energy Vision*
- *Connecticut Climate Change Action Plan 2005*

Operational Context for Management of Energy in State Government

- The challenge of energy management is to maximize efficiency, minimize consumption and cost, meet or exceed environmental standards, and utilize new technologies and clean/renewable fuels in a manner that enables state agencies to accomplish diverse missions.
- Operational, environmental, and societal value, not just cost, in both the short and long-term, must be considered as factors in energy management decision making.

Operational Context for Management of Energy in State Government (Continued)

Administrative Processes:

➤ Data Needs, Collection, & Analysis:

- Energy use data is a critical tool in determining future energy needs and targeting resources.
- Data collection has proved challenging and steps are being taken to address collection processes, data needs, and format.
- Data analysis will inform appropriate policy, program, and project decision making.

➤ Administrative processes affect decision making and project implementation.

➤ Identify constraints and take appropriate action to overcome administrative barriers.

Projects and Programs

Current Programs:

- ✓ Demand Response
- ✓ OPM Renewables Plan
- ✓ Biodiesel Usage
- ✓ Energy Benchmarking
- ✓ Energy Star ©
- ✓ Fostering New Technologies
- ✓ Bioheat Pilot
- ✓ PC Energy Saving Software
- ✓ Electricity Procurement
- ✓ E85 Usage
- ✓ CJTS Fuel Cell Plant
- ✓ Building Operators Certificate
- ✓ Energy Roundtables
- ✓ Energy Conscious Construction

Near Term:

- ✓ Bioheat Plan
- ✓ Lite Trough
- ✓ PV Demonstration Projects
- ✓ Master Contract for Conservation
- ✓ Power Factor
- ✓ Green Building Standards

Long Term:

- ✓ Turnkey Solar
- ✓ Fuel Cell
- ✓ Distributed Generation
- ✓ Combined Heat & Power

Summary & Recommendations

The goal for energy management in state government is to maximize efficiency, minimize consumption and cost, meet or exceed environmental standards, and utilize new technologies and clean/renewable fuels that allow agencies to accomplish diverse missions.

- Budgetary savings are only one aspect involved in evaluating energy management in state facilities.
- Recommended actions include process and project activities. Process actions lay the foundation for effective decision making. Project actions involve activities that result in implementation of energy programs and projects.
- Process actions are the priority for this Plan.

Recommended Action Items

Short Term Process Actions:

- Develop a master contract with utilities for state agency conservation programs
- Evaluate financial impact of Power Factor correction at large state accounts
- Quantify energy & environmental savings and cost reductions from projects
- Establish baseline inventory of renewable technologies at state facilities
- Establish a program to encourage the use of Bioheat in state facilities
- Obtain information on building energy use and state owned vehicle use
- Develop process for identifying conservation/efficiency projects
- Encourage installation of prototype technologies on a pilot basis

Recommended Action Items (continued)

Long – Term Process Actions:

- Create agency working group to study administrative processes
- Expand and integrate energy benchmarking analysis
- Complete implementation of state renewable plan

Recommended Action Items (continued)

Short – Term Projects

- Expand Demand Response participation
- Promote PC energy saving software via DoIT master contract
- Invest in E85 infrastructure
- Install prototype technologies on a pilot basis
- Conduct electricity procurement

Recommended Action Items (continued)

Long – Term Projects

- Implement efficiency, conservation, and renewable improvements that are identified by process actions undertaken.