

D0011 07
Executive Order
Greening of State Government: Goals and Objectives

Pursuant to the authority vested in the Office of the Governor of the State of Colorado, I, Bill Ritter, Jr., Governor of the State of Colorado, hereby issue this Executive Order to establish goals and objectives, designed to reduce the environmental impact of state government.

1. Background and Purpose

The daily activities of State government have a significant impact on the quality of Colorado's public health, environment and use of its natural resources. This order charges State departments, agencies and offices to take a position of leadership in the new energy economy by reducing state energy consumption, increasing state use of renewable energy sources, increasing the energy efficiency and decreasing the environmental impact of the state vehicle fleet, implementing environmental purchasing standards and requiring attention to energy and environmental impacts of purchasing and materials decisions.

The purpose of this order is to provide clear guidance and directive to all state agencies and offices in the greening of state government in the State of Colorado. This Executive Order applies to all state departments, agencies and offices that report to the Governor. This Executive Order also establishes Greening Government Manager ("Manager") within the Governor's Energy Office ("GEO") to facilitate the goals and objectives within this order.

This Executive Order modifies but does not replace Executive Order D 005 05. The Greening of State Government Coordinating Council ("Council") formed pursuant to Executive Order D 005 05, shall continue under the lead of the GEO. The elements of Executive Order D 005 05 will remain in place and are to be read in conjunction with this Executive Order.

2. Directive

A. Greening Government Manager

I hereby order the creation of a Greening Government Manager within the GEO. The manager shall facilitate reduction of environmental impacts through implementation of departmental energy plans and will assist state departments and agencies in achieving the goals and objectives of this order and as established by the Council.

Working closely with state departments, agencies, and the Council, I direct the Manager to implement a sustainability management system to track energy efficiency, water conservation, recycling, fleet operations, and environmentally preferable purchasing. Working closely with the Department of Personnel and Administration ("DPA") and Department of Public Health and Environment ("DPHE"), the Manager shall also undertake primary coordinating responsibilities for the Council.

B. Greening Government Council

Each Executive Director shall appoint a department or agency representative for participation in the Council as created in Executive Order D 005 05. The Council shall

develop the appropriate policies and procedures to implement the goals and objectives of this order, including any exemptions or exceptions to the standards that the Council deems appropriate.

The Council shall prepare an Annual Report Card on the achievements under this order for review and to inform recommendations for additional action by the Governor. The Council shall develop educational materials for state employees on sustainability, stewardship, climate change, and other environmental issues, so that employees better understand the reason for this Executive Order. All agencies and departments shall educate employees regularly using these materials. DPHE shall maintain an environmental outcomes database to track environmental measurements for Greening Government efforts. All state departments shall report to DPHE the measures required for the database.

C. Specific Goals and Objectives

I direct the Manager and Council to work with all state agencies and offices to achieve the goals described below. :

i. **For Energy Management**

- By fiscal year 2011-2012, achieve at least a 20% reduction in energy consumption of state facilities below fiscal year 2005-2006 levels;
- By January of 2008 develop or update an energy management plan and ensure development of a study determining feasibility of energy performance contracting for all state owned facilities;
- On an ongoing basis, assess and implement where effective, the development of state renewable energy projects with the support of GEO.

ii. **For materials and resource management:**

- By fiscal year 2008-2009, develop purchasing policies to reduce the state's environmental impact as a consumer of products and services;
- Adopt a goal of "zero waste" from construction of new buildings and operation and renovation of existing facilities;
- Achieve a paper use reduction goal of 20% by fiscal year 2011-2012 using fiscal year 2005-2006 as a baseline;
- Achieve a reduction of water consumption goal of 10% by fiscal year 2011-2012, using fiscal year 2005-2006 as a baseline;
- DPA, in cooperation with DPHE, shall develop purchasing policies for selecting environmentally preferable products.

iii. **For vehicle petroleum consumption**

- By June 30, 2012, achieve a 25% volumetric reduction in petroleum consumption by state vehicles measured against a fiscal year 2005-2006 baseline, while increasing energy efficiency of the fleet (excluding vehicles used for law enforcement, emergency response, road maintenance, and highway construction).

- By December 1, 2007, complete a transportation efficiency audit addressing methods for improving the environmental efficiency of the state fleet.

3. Duration

This Executive Order shall remain in force until further modification or rescission by the Governor.

GIVEN under my hand and the
Executive Seal of the State
of Colorado, this 16th day of
April 2007.

Bill Ritter, Jr.
Governor

D0012 07

EXECUTIVE ORDER

Greening of State Government: Detailed Implementation

Pursuant to the authority vested in the Office of the Governor of the State of Colorado, I, Bill Ritter, Jr., Governor of the State of Colorado, hereby issue this Executive Order to establish policies and procedures to achieve the goals and objectives articulated in Executive Order D0011 07 and designed to reduce the environmental impact of state government.

1. Purpose

This order provides direction to the Governor's Energy Office ("GEO"), the Greening of State Government Coordinating Council ("Council"), and state departments and agencies regarding the implementation of Executive Order D 011 07, which establishes goals and objectives for the Greening of State Government. In addition, this order directs the GEO to develop sustainability standards for state facility leases.

This Executive Order modifies but does not replace Executive Order D 005 05. The Greening of State Government Coordinating Council ("Greening Council") formed pursuant to Executive Order D 005 05, shall continue under the lead of the Governor's Governor's Energy Office (GEO). This order is to be read in conjunction with Executive Orders D 005 05 and D 0011 07.

2. Directive

A. Reduction of State Energy Consumption

Executive Order D011 07 orders the Manager and Council to work with state agencies and departments to reduce overall energy use in all state facilities by 20% or more no later than the end of fiscal year 2011-2012 and to determine feasibility of energy performance contracting. State energy use in fiscal year 2005-2006 will constitute the baseline for all comparisons. To that end, I direct that:

1. The Greening Government Manager will be responsible for ensuring that all agencies and departments that have not yet developed an energy management plan and engaged in energy efficiency upgrades will, by January 2008, have a plan to do so.
2. For all state-owned facilities that have not yet engaged in performance contracting, as defined in Executive Order D 014 03 (Energy Performance Contracting to Improve State Facilities), the Greening Government Manager will facilitate performance of a feasibility study pursuant to the policies established in Executive Order D014 03. Where performance contracting is feasible, viable, and economically sound, those facilities shall engage in such contracts on a recommissioning basis. With assistance from the Office of State Planning and Budgeting (OSPB), the Greening Council shall develop standards defining

whether such projects are “feasible, viable, and economically sound.” The State’s public higher education facilities are expected to follow these requirements to the greatest extent practicable.

3. From time to time, the Greening Government Manager, working with department energy managers, shall repeat these feasibility studies to determine if further efficiency gains are feasible.
4. Where performance contracting is not feasible, state agencies shall strive to reduce energy use by 10% from a fiscal year 2005-2006 baseline. State agencies shall make every effort to meet or exceed this goal no later than the end of fiscal year 2011-2012.
5. I hereby direct each agency and department to designate an energy management liaison. The GEO will assist in the training of all department energy management officers and in the implementation of best energy management practices.

B. Materials Management, Environmentally Preferable Purchasing, and Resource Management

Executive Order D011 07 establishes specific goals and objectives for reducing the impact of state materials and resource management decisions. In order to further achievement of these goals, I hereby direct all departments and agencies to develop and implement materials management, purchasing, and resource management policies that minimize the impact on public health, the environment and natural resources and reduce state government expenditures. To that end, I order that:

1. All agencies and departments shall work with the Greening Council to adopt a goal of “zero waste” from construction of new buildings and operation and renovation of existing facilities through re-use, reduction, recycling, and composting of waste streams.
2. All agencies and departments shall develop and implement strategies that minimize the public health and environmental impacts associated with agency land use and acquisition, construction, facility management, and employee transportation.
3. DPA, in cooperation with DPHE, shall develop purchasing policies for selecting environmentally preferable products. The policies shall:
 - a. Be implemented by all state departments and agencies, and shall give preference to products that minimize environmental impacts over the lifetime of the product. At a minimum, the policy should consider a product’s energy profile and recycled material content, toxicity, and impact on air and water resources.
 - b. Require that each agency and department purchase equipment certified as Energy Star®-qualified where such equipment is available. Where such equipment is purchased, the energy savings features shall be utilized. DPA is authorized to provide a waiver for this requirement if Energy Star®- certified

equipment is not available, appropriate, or cost-effective. DPA shall modify its Request for Bids to specify Energy Star®-compliant equipment.

- c. Policies regarding the purchase of electronic equipment shall require consideration of the life-cycle environmental and energy impacts of that equipment.
 - d. The policies developed shall take into account the primary purpose of the products procured, and, for safety-critical products, shall ensure that public safety is not compromised.
4. The Greening Council, working with the Greening Government Manager, shall develop sustainability standards for new leases of state facilities. These standards shall address, at a minimum, energy efficiency, water conservation, recycling, and access to public transportation.

C. Greening of State Fleet Management

I hereby direct all state departments and agencies to take all reasonable actions to achieve, by June 30, 2012, a 25% volumetric reduction in petroleum consumption by state vehicles measured against a fiscal year 2005-2006 baseline. For the purposes of this Executive Order and of Executive Order D 011 07, "state vehicles" include vehicles managed by the Department of Personnel and the Colorado Department of Transportation (CDOT). The baseline should exclude vehicles used for law enforcement, emergency response, road maintenance, and highway construction. To that end, I order that:

1. State departments and agencies shall aggressively pursue achievement of this standard using all necessary strategies and initiatives, including:
 - a. Restricting the purchase of four-wheel drive sport utility vehicles, except where necessary for law enforcement, emergency response, highway maintenance and construction or use in difficult terrain.
 - b. Giving priority to replacement of pre-1996 light duty vehicles that have a city fuel efficiency rating of less than 25 miles per gallon.
 - c. Acquiring hybrid gas/electric high efficiency vehicles, alternative and flex fuel vehicles, and other fuel efficient/low emission vehicles whenever practicable.
2. State agencies and departments shall report back to the Greening Council on an annual basis regarding the progress made towards achieving the goal of reducing petroleum consumption.
3. The Greening Council shall develop an education plan for state employees that includes the labeling of state-owned flexible fuel vehicles and provision of information about the location of flex-fuel stations so that ethanol blended and bio-diesel fuels can be used whenever possible. The Department of Agriculture shall purchase Flex Fuel Vehicles whenever practicable.

4. The DPA will explore aggregate purchasing strategies among contiguous western states for future purchases of hybrid gas/electric, alternative fuel and flex-fuel technology vehicles.
5. State agencies shall use, when available, a minimum a 20% bio-diesel blend for diesel burning vehicles.
6. State agencies using flex-fuel vehicles or diesel vehicles shall track the fuel type purchased and report fuel consumption annually to the Greening Council for review. Departments shall adopt a goal of fueling flex fuel and diesel vehicles a minimum of 50% of the time with alternative fuels.
7. The DPA, in conjunction with GEO and DPHE, shall conduct a transportation efficiency audit, to be completed by December 1, 2007, to evaluate current state practices and make recommendations regarding:
 - a. Appropriate vehicle utilization rate and size of agency fleets;
 - b. Appropriate age and mileage for vehicle turnover to maximize performance and minimize maintenance costs and environmental impact;
 - c. Environmental costs and benefits of personal vehicle use and reimbursement policies;
 - d. Strategies for improving the overall efficiency of acquiring, using and maintaining all vehicles in the state fleet;
 - e. Cost effectiveness of car-sharing services;
 - f. Increasing opportunities for employee use of ride-sharing and mass transit on business travel, and
 - g. Exploration of support for employee transit options.

As part of this process, the Greening Council shall work with DPA to evaluate the state fleet and develop suggestions regarding how to increase average fuel efficiency and use of alternative fuels in state vehicles. The Council shall present the results of this study to the Governor by December 1, 2007.

8. When traveling on state business, all state employees shall give preference to major airports that are physically closest to the destination, with preference given to airports that are served by a mass transit system unless such option is not cost effective. Employees shall use mass-transit when traveling whenever feasible.

D. Renewable Energy Sources for State Energy Consumption

This section implements Executive Order D011 07's mandate that the Manager and Council work with GEO to support development of state renewable energy projects. To that end, I hereby direct GEO to implement a renewable energy outreach program for state agencies and departments to achieve the following goals:

1. Providing technical support for the use of direct renewable energy applications, such as wind, biomass, geothermal, and solar, on state facilities; and
2. Exploring funding for and feasibility of state-run renewable energy projects to provide energy to state facilities.

3. Duration

This Executive Order shall remain in force until further modification or rescission by the Governor.

GIVEN under my hand and the
Executive Seal of the State
of Colorado, this 16th day of
April 2007.

Bill Ritter, Jr.
Governor