The Secretary of Energy
Washington, DC 20585
November 12, 1999

MEMORANDUM FOR HEADS OF DEPARTMENTAL ELEMENTS

FROM: BILL RICHARDSON Bill Richardson

SUBJECT: Pollution Prevention and Energy Efficiency Leadership Goals for Fiscal Year 2000 and Beyond

The President has unfurled a major, new initiative to build environmental accountability into the daily decision-making process of all Federal activities. By "Greening the Government," Federal agencies can contribute to building a sustainable, environmentally-healthy economy for the next century. Federal facilities that employ pollution prevention and energy efficiency practices will save money by enhancing productivity while reducing their cumulative impact on the environment.

The Department's pollution prevention and energy efficiency leadership program will go beyond compliance requirements and be based on continuous and cost-effective improvements for the following key environmental objectives:

- We will design and operate our facilities using pollution prevention processes that lead to minimal waste generation and lowest life-cycle costs;
- We will diminish our use of environmentally harmful materials, equipment, and processes to minimize releases of toxic chemicals, ozone-depleting substances, and greenhouse gases;
- We will increase the energy efficiency of our buildings, laboratories and production facilities while increasing our use of clean energy sources;
- We will increase our fleet vehicle efficiency and the use of low-polluting alternative fuels, including bio-based fuels and products; and
- We will purchase environmentally preferable products and services that meet our mission needs.

To put us on the path toward environmental leadership, I am laying down a foundation of Pollution Prevention and Energy Efficiency Leadership Goals for 2005 and 2010 (attached). I am directing each Lead Program Secretarial Officer to implement programs that will achieve these objectives at their sites through pollution prevention and resource conservation. These goals will also be incorporated into the Department's Strategic and Annual Performance Plans, starting with performance plans accompanying the FY 2001 budget.

The Department of Energy Environmental Executive will oversee progress toward meeting our environmental and energy efficiency leadership goals and will report to me annually.

Attachment

POLLUTION PREVENTION AND ENERGY EFFICIENCY LEADERSHIP GOALS AT DEPARTMENT OF ENERGY FACILITIES

DOE will strive to minimize waste and maximize energy efficiency as measured by continuous, cost-effective improvements in the use of materials and energy, with the years 2005 and 2010 as interim measurement points.

Reducing Waste and Recycling

1. Reduce waste from routine operations by 2005, using a 1993 baseline, for these waste types:

Hazardous	90 percent
Low Level Radioactive	80 percent
Low Level-Mixed Radioactive	80 percent
Transuranic (TRU)	80 percent

2. Reduce releases of toxic chemicals subject to Toxic Chemical Release Inventory reporting by 90 percent by 2005, using a 1993 baseline.

3. Reduce sanitary waste from routine operations by 75 percent by 2005 and 80 percent by 2010, using a 1993 baseline.

4. Recycle 45 percent of sanitary wastes from all operations by 2005 and 50 percent by 2010.

5. Reduce waste resulting from cleanup, stabilization, and decommissioning activities by 10 percent on an annual basis.

Buying Items with Recycled Content

6. Increase purchases of EPA-designated items with recycled content to 100 percent, except when not available competitively at reasonable price or that do not meet performance standards.

Improving Energy Usage

7. Reduce energy consumption through life-cycle cost effective measures by:
   - 40 percent by 2005 and 45 percent by 2010 per gross square foot for buildings, using a 1985 baseline
   - 20 percent by 2005 and 30 percent by 2010 per gross square foot, or per other unit as applicable, for laboratory and industrial facilities, using a 1990 baseline.

8. Increase the purchase of electricity from clean energy sources:
   (a) Increase purchase of electricity from renewable energy sources by including provisions for such purchase as a component of our request for bids in 100 percent of all future DOE competitive solicitations for electricity.

   (b) Increase the purchase of electricity from less greenhouse gas-intensive sources, including, but not limited to, new advanced technology fossil energy systems, hydroelectric, and other highly efficient generating technologies.

Reducing Ozone Depleting Substances and Greenhouse Gases

9. Retrofit or replace 100 percent of chillers greater than 150 tons of cooling capacity and manufactured before 1984 that use class I refrigerants by 2005.

10. Eliminate use of class I ozone depleting substances by 2010, to the extent economically practicable, and to the extent that safe alternative chemicals are available for DOE class I applications.

11. Reduce greenhouse gas emissions attributed to facility energy use through life-cycle cost-effective measures by 25 percent by 2005 and 30 percent by 2010, using 1990 as a baseline.

Increasing Vehicle Fleet Efficiency and Use of Alternative Fuels

12. Reduce our entire fleet's annual petroleum consumption by at least 20 percent by 2005 in comparison to 1999, including improving the fuel economy of new light duty vehicle acquisitions and by other means.

13. Acquire each year at least 75 percent of light duty vehicles as alternative fuel vehicles, in accordance with the requirements of the Energy Policy Act of 1992.

14. Increase usage rate of alternative fuel in departmental alternative fuel vehicles to 75 percent by 2005 and 90 percent by 2010 in areas where alternative fuel infrastructure is available.

Goals Implementation

The Secretary's Pollution Prevention and Energy Efficiency Leadership Goals are to be achieved on a Department-wide basis. DOE field offices will be responsible for developing appropriate goals for each of their cognizant sites and implementing pollution prevention and energy management site activities that are cost effective to the Department on a life-cycle basis. Field offices will assure goals are achieved by including goal requirements in annual performance plans or established performance agreements with each of their cognizant sites. Appropriate baselines for new sites will be established in performance agreements in cases where proposed baseline years do not apply.

Goals Under Development

The Department will revise or issue additional goals as new pollution prevention and energy efficiency Executive Orders are released. Additional goals to be developed in Fiscal Year 2000 include: (1) the amount of energy generated at Federal facilities from renewable energy technologies; and, (2) water conservation and the methodology for determining the baseline for water consumption.