

Bureau of Land Management  
**Environmental  
Management System  
(EMS)**  
Awareness Training

Washington, DC  
March 2014



# Reducing Our Footprint

The Federal government is the largest single energy consumer in the United States.



# Reducing Our Footprint

With an annual purchasing power of **over \$1 trillion** for goods and services, it is the largest consumer in the world, giving it **an enormous capacity to effect change.**



# BLM's Annual Footprint

In BLM alone, we use:

- **4,694** Vehicles.
- **3.5 million** gallons of fuel (non travel).
- **933** Buildings – 5.4 million+ square feet.
- **82,000** Megawatt hours of electricity.
- **3,780** Metric Tons or 7.7 million pounds of waste.
- **170,000+** metric tons of CO<sub>2</sub> (equivalent) air emissions (fuel & electricity use, Helium Plant).  
[= the amount of carbon sequestered by more than 4 million tree seedlings grown for 10 years]



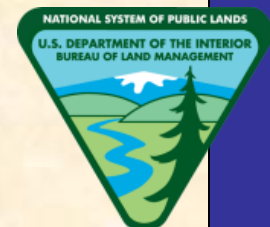
# So, How Can We Reduce Our Footprint ?

The Department's Environmental and Sustainability Policy identifies the **Environmental Management System (or EMS)** as the planning and implementation framework for our environmental and sustainability programs.

Secretary Salazar signed the Policy in 2011.

It is the guiding environmental principle for each **Department and Bureau** employee.

To implement the policy, the Department established a **Sustainability Council** as its governing body for the EMS.



To read the policy statement, please visit:

[https://portal.doi.net/programs/ems/Documents/Salazar\\_sustainability\\_Memo\\_2011.pdf](https://portal.doi.net/programs/ems/Documents/Salazar_sustainability_Memo_2011.pdf)

# EMS Approach

The EMS is a way to address the significant **impacts** of our activities on the environment and make improvements. Some of these activities include :

**Energy Use**

**Air Emissions**

**Solid Waste Generation**

**Water Use**

**Procurement**



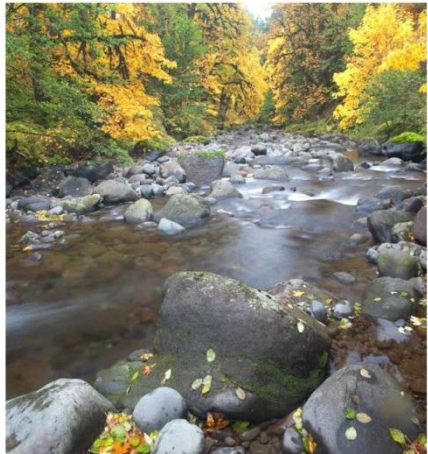
# A Business Approach for a Cleaner, Healthier Environment

EMS is used in businesses and government -- from cities and states to the entire Federal government.

All BLM offices are integrated into the EMS through their respective States or Centers.

EMS includes measurable environmental goals, objectives, and targets that are reviewed and updated annually.

Environmental considerations or requirements are integrated into day-to-day practices and overall operations.



# The BLM Joins Interior in Implementing EMS to:

- ✓ Strengthen commitments to protect and reclaim public lands.
- ✓ Comply with federal, state, local & tribal laws, regs. & policies.
- ✓ Reduce the environmental impact of its operations.
- ✓ Continuously improve its environmental performance.
- ✓ Prevent pollution and waste.





# This is the Basic EMS Framework

Plan, Do, Check, Act for Continuous Improvement<sup>1</sup>

- **Plan:** Planning and identifying environmental aspects, establishing goals.
- **Do:** Implementing (including training and operational controls).
- **Check:** Checking (including monitoring and corrective action).
- **Act:** Reviewing (including progress reviews and adjusting the plan).



<sup>1</sup>The [International Organization for Standardization's](#) EMS framework (ISO 14001) is the basis for the BLM EMS.

# EMS Significant Aspects

Each State/Center analyzes its environmental impact to determine the “Significant Aspects” of its operations that affect the environment.

**ASPECT:** An element of an organization’s activities, products, or services that can interact with the environment.





THE CAUSE.

**IMPACT:** Any change to the environment, whether adverse or beneficial, wholly or partly resulting from an organization’s activities, products, or services.

THE EFFECT.



# Examples of Aspects and Impacts

ACTIVITY	ASPECT	POTENTIAL IMPACT
	Energy Use Air Emissions →	Degraded air quality Resource depletion
	Green Procurement →	Conserved resources Pollution prevention
	Water Use →	Resource depletion
	Air Emissions →	Degraded air quality Resource depletion

All BLM personnel should be familiar with both the **significant aspects** and actual or potential **impacts** associated with their work.



# EMS Objectives and Targets

- Once **Significant Aspects** are determined, each State/Center EMS sets **Objectives and Targets** that are specific, measurable goals to address the significant aspects.
- The Washington Office EMS is Bureau-wide in scope to address the BLM's sustainability goals. Your State or Center EMS may be different.



# 2014 WO EMS Bureau-wide Objectives and Targets

Aspect	2014 EMS Objectives	2014 TARGET
Energy Use	<b>Sustainable Buildings</b> - Buildings over 5000 sq feet conform to <i>Guiding Principles</i> .	13% of buildings conform
Energy Use	<b>Petroleum in Fleet</b> - Decrease petroleum use in fleet vs 2012 use.	6% additional decrease in use (25% total)
Energy Use	<b>Alternative Fuel for Fleet</b> - Increase use of alternative fuel used for fleet vs 2013.	100% increase in use (2% of total fuel used)
Air Emissions	<b>Scope 1 &amp; 2 Greenhouse Gas Emissions</b> - Decrease emissions vs 2008 baseline.	progress to 20% decrease by 2020
Water Use	<b>Potable Water Use</b> - Decrease potable water use intensity vs 2007 baseline.	progress to 26% decrease by 2020
Green Procurement	<b>Green Procurement</b> - Reviewed contract actions are compliant with sustainable acquisition requirements.	95% of contracts comply
Solid Waste Generation	<b>Solid Waste</b> - Divert solid waste from disposal.	50% of wastes diverted



# BLM EMS Structure

The BLM has implemented 16 EMS Programs  
(12 State Offices, 3 Centers and the Washington Office)

## Each EMS Program Includes:

- **A Leadership Team** that provides direction.
- **A Cross-Functional Team** that maintains the program.
- **A Management Representative and/or Coordinator** who guides the process.



# How You Can Help

YOU are essential to the EMS success. You can participate by:

- Understanding your State/Center EMS **Objectives and Targets** and how your job fits into them.
- Knowing how your job affects the environment.
- Identifying any operational controls established for your job.
- Taking steps to lessen your environmental **impacts!**
- Educating others on what you have learned.



# State and Center EMS Contacts

Alaska – Alissa Verrati, <a href="mailto:avarrati@blm.gov">avarrati@blm.gov</a>	New Mexico – David Wallace, <a href="mailto:dwallace@blm.gov">dwallace@blm.gov</a>
Arizona – Terresa Reed, <a href="mailto:treed@blm.gov">treed@blm.gov</a>	Oregon/Washington – Pat Russell, <a href="mailto:prussell@blm.gov">prussell@blm.gov</a>
California – Erica St. Michel, <a href="mailto:estmichel@blm.gov">estmichel@blm.gov</a>	Utah – Lowell Jeffcoat, <a href="mailto:bjeffcoa@blm.gov">bjeffcoa@blm.gov</a>
Colorado – Sara Dawson, <a href="mailto:sdawson@blm.gov">sdawson@blm.gov</a>	Wyoming – Ken Henke, <a href="mailto:khenke@blm.gov">khenke@blm.gov</a>
Eastern States – Lucille Tamm, <a href="mailto:ltamm@blm.gov">ltamm@blm.gov</a>	NIFC – John Owens, <a href="mailto:j80owens@blm.gov">j80owens@blm.gov</a>
Idaho – Marsha Buchanan, <a href="mailto:mbuchanan@blm.gov">mbuchanan@blm.gov</a>	NOC – Vince Galterio, <a href="mailto:vgaleri@blm.gov">vgaleri@blm.gov</a>
Montana/Dakotas – Barb Riveland, <a href="mailto:brivelan@blm.gov">brivelan@blm.gov</a>	NTC – Kimberly Menning, <a href="mailto:kmenning@blm.gov">kmenning@blm.gov</a>
Nevada – Jane Freeman, <a href="mailto:jhfreema@blm.gov">jhfreema@blm.gov</a>	Washington Office – Kim Harriz, <a href="mailto:jharriz@blm.gov">jharriz@blm.gov</a>

Additional EMS Awareness Training specific to your State and/or Center is available from your EMS Coordinator and/or Management Representative.





# To Remember

- It is important that **all BLM employees** comply with environmental policy and procedures established for his/her office.
- This includes the **Requirements of EMS**
- Get to know the **Significant Aspects and Impacts of Your Actions.**



# Additional Information

For additional information, visit BLM's page on the Sustainability Sharepoint site:

<https://portal.doi.net/programs/ems/BLM/default.aspx>

Executive Order 13514

<http://www.fedcenter.gov/programs/eo13514/>

DOI EMS Policy Statement

[https://portal.doi.net/programs/ems/Documents/Salazar\\_sustainability\\_Memo\\_2011.pdf](https://portal.doi.net/programs/ems/Documents/Salazar_sustainability_Memo_2011.pdf)

WO EMS Instructional Memorandum

[http://www.blm.gov/wo/st/en/info/regulations/Instruction\\_Memos\\_and\\_Bulletins/national\\_instruction/2014/IM\\_2014-XXX.html](http://www.blm.gov/wo/st/en/info/regulations/Instruction_Memos_and_Bulletins/national_instruction/2014/IM_2014-XXX.html)

ISO 14001 EMS Standard

[https://portal.doi.net/programs/ems/BLM/blm\\_new\\_group\\_docs/iso\\_14001\\_2004.pdf](https://portal.doi.net/programs/ems/BLM/blm_new_group_docs/iso_14001_2004.pdf)



# Now and Future Generations

We all have a responsibility and a role to play in implementing EMS to ensure economic, environmental, and national security, and to protect America's precious resources for generations to come.

