

# Sandia National Laboratories

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Environmental Management System

Michael Nagy

EMS Program Coordinator



Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000.





# What is Sandia's Environmental Management System?

- The Environmental Management System (EMS) is a continual cycle of planning, implementing, evaluating, and improving processes to achieve environmental goals. Sandia National Laboratories' EMS provides an integrated approach for management and members of the workforce to identify and manage environmental risks
- Requires independent validation of EMS consistent with the ISO14001 standard
- EMS is a requirement of Sandia's Management & Operations contract



# Sandia's EMS: Aligned with our ES&H Policy

psw2

- Protect Members of the Workforce and the public
- Prevent incidents
- Protect the environment
- Ensure regulatory compliance.
- Conserve natural resources
- EMS is a key element of Sandia's Integrated Laboratory Management System (ILMS)
- ISMS provides the framework for managing all ES&H activities



## Slide 3

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**psw2**

Define

pswaffe, 9/6/2013



# ISO 14001

ISO 14001 certification of Sandia's EMS is significant for a number of reasons:

- ISO 14001 internationally accepted standard used to validate the effectiveness of SNL's EMS.
- A third-party recognition (audit) by accredited professionals.
- Minimizes environmental impacts through a robust environmental management system.
- Simplifies the approach to compliance and environmental stewardship
- Strengthens our assurance system.
- integrates with corporate processes including document control, records management and corrective actions.



# ISO 14001 Certification Process

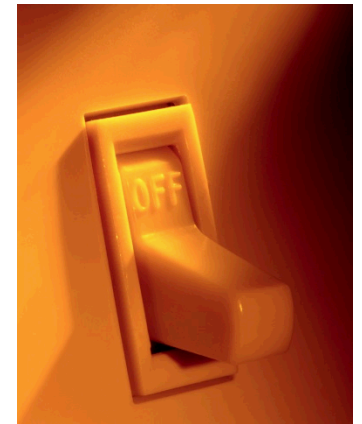


- First certified in 2009
- Last certified in June 2012
- Third party register NQA conducted ISO14001 surveillance audit on May 13-16, 2013.
- The audit resulted in 3 minor non-conformities and 4 observations.
- Maintain certification.



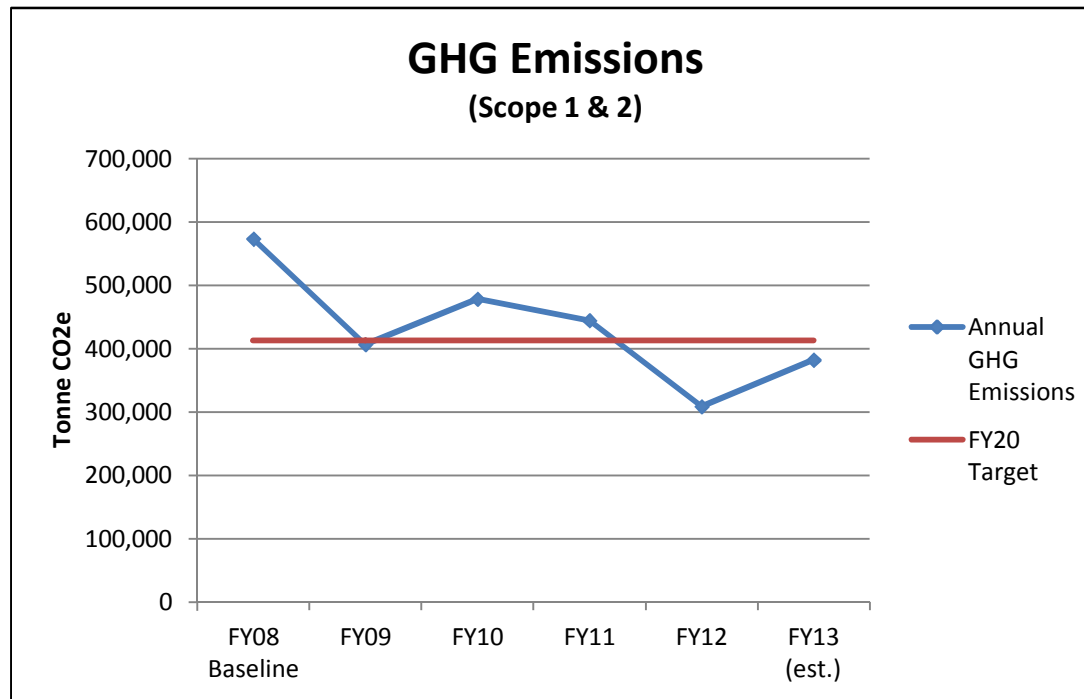
# Continual Improvement

- Analyses are performed to identify environmental aspects associated with Sandia activities, products, and services and potential environmental impacts related to those aspects.
- Based on aspects and impacts analyses, objectives & targets are established.
- This process is performed annually to continually reduce the environmental impacts from Sandia's activities.



# Objectives and Targets

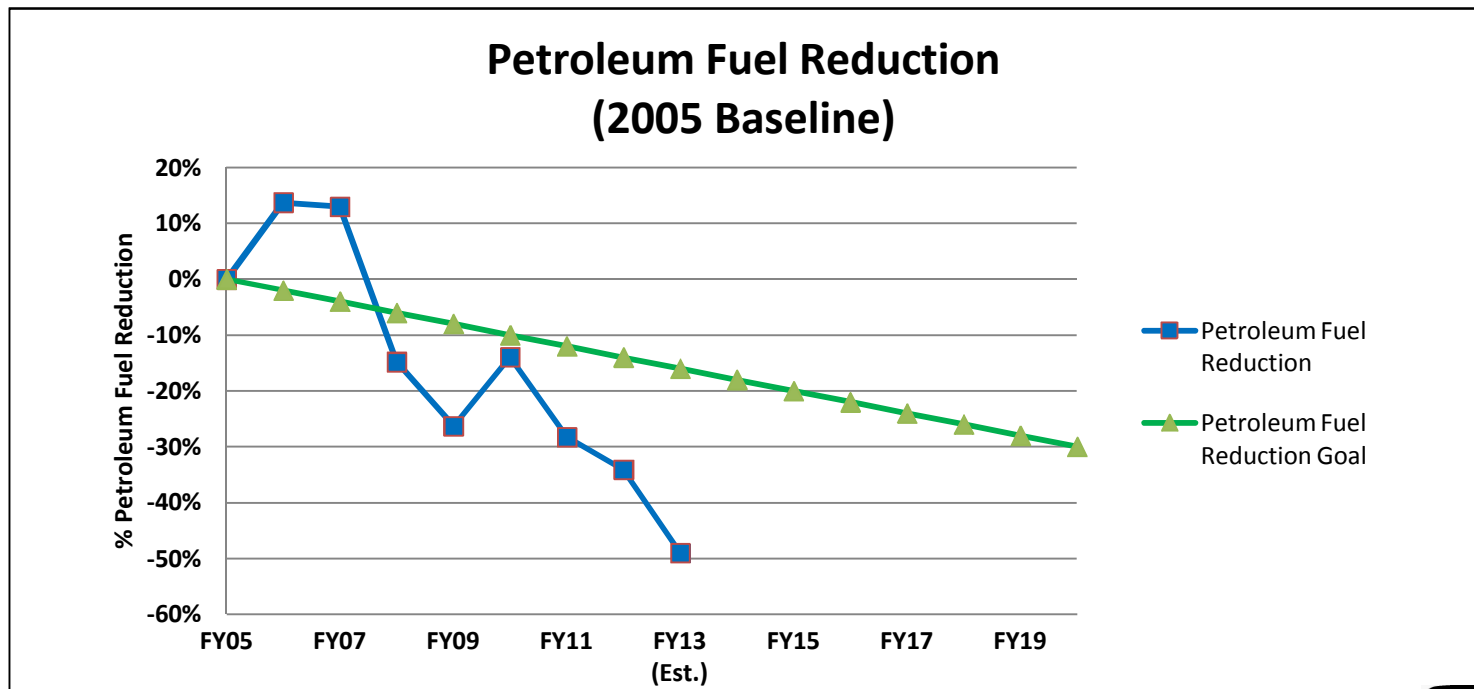
- Air Emissions
  - Objective: Corporate - Reduce Greenhouse Gas (GHG) Footprint
  - Target: By Fiscal Year 2020, Reduce Scope 1 & 2 GHG Emissions by 28% Relative to a Fiscal Year 2008 Baseline
  - Status: **On Target**





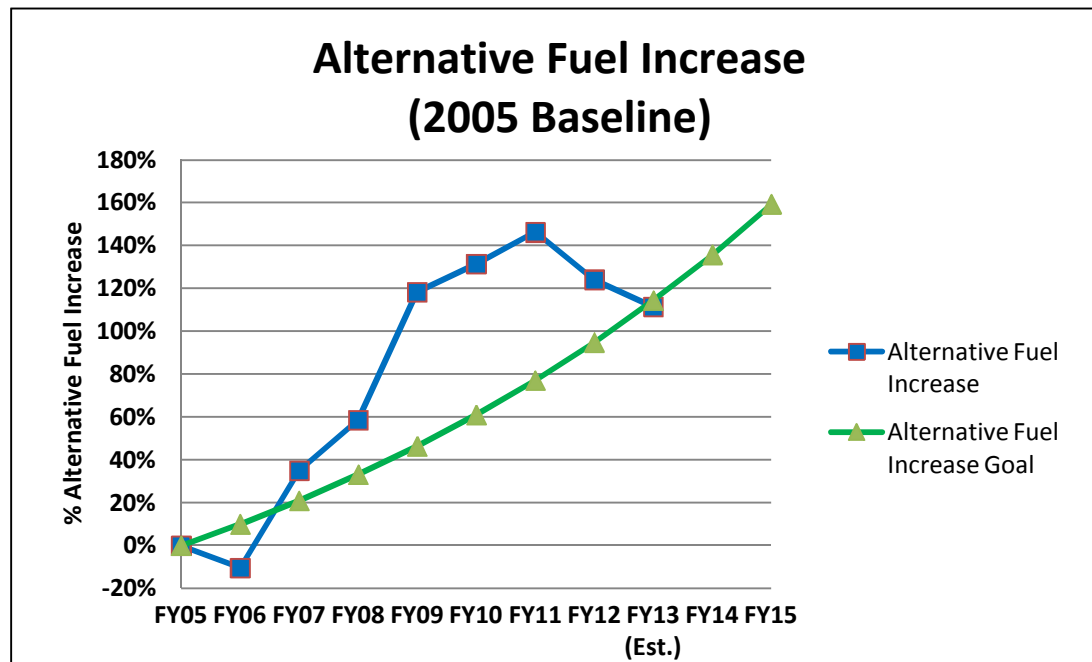
# Objectives and Targets, Continued

- Transportation (Fleet Services)
  - Objective: Corporate - Reduce Use of Fleet Petroleum Fuel
  - Target: By Fiscal Year 2015, Reduce Petroleum Fuel Consumption by 2% Annually Relative to a Fiscal Year 2005 Baseline
  - Status: **Target Currently Exceeded**



# Objectives and Targets, Continued

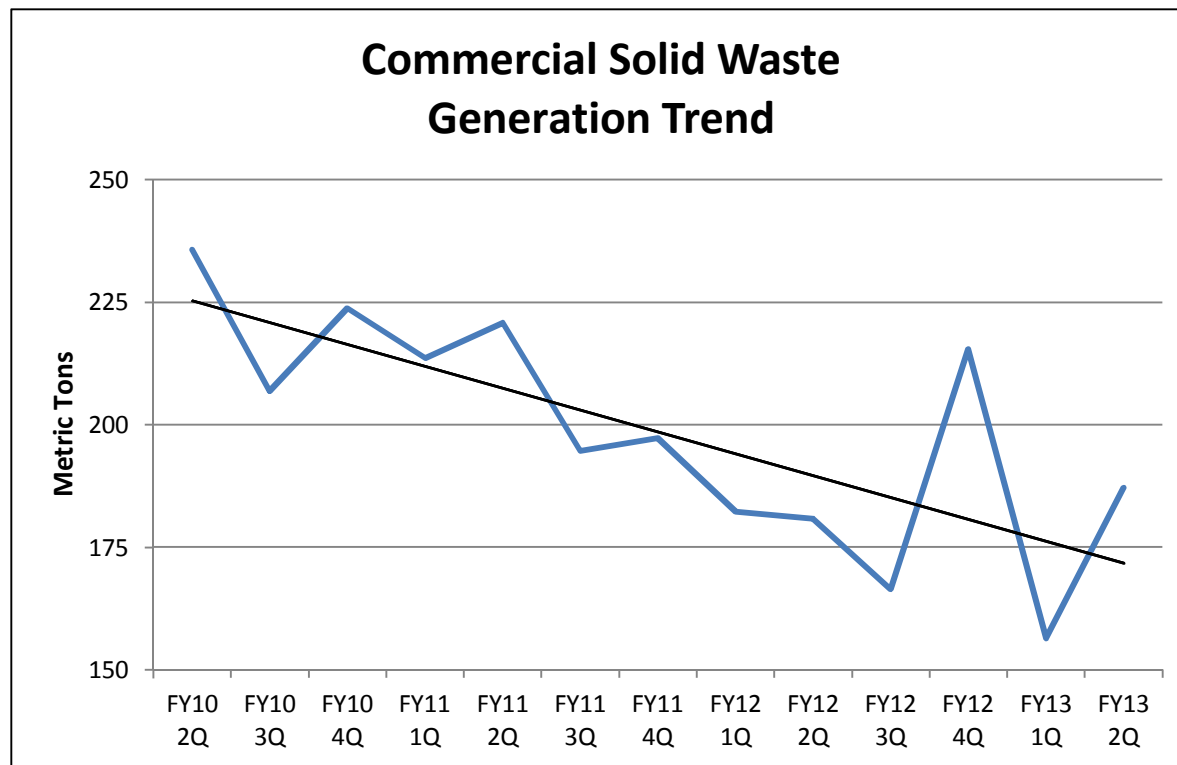
- Transportation (Fleet Services)
  - Objective: Corporate - Increase Use of Fleet Alternative Fuel
  - Target: By Fiscal Year 2015, Increase Fleet Alternative Fuel Use by 10% per Year Relative to a Fiscal Year 2005 Baseline
  - Status: **On Target**



# Objectives and Targets, Continued

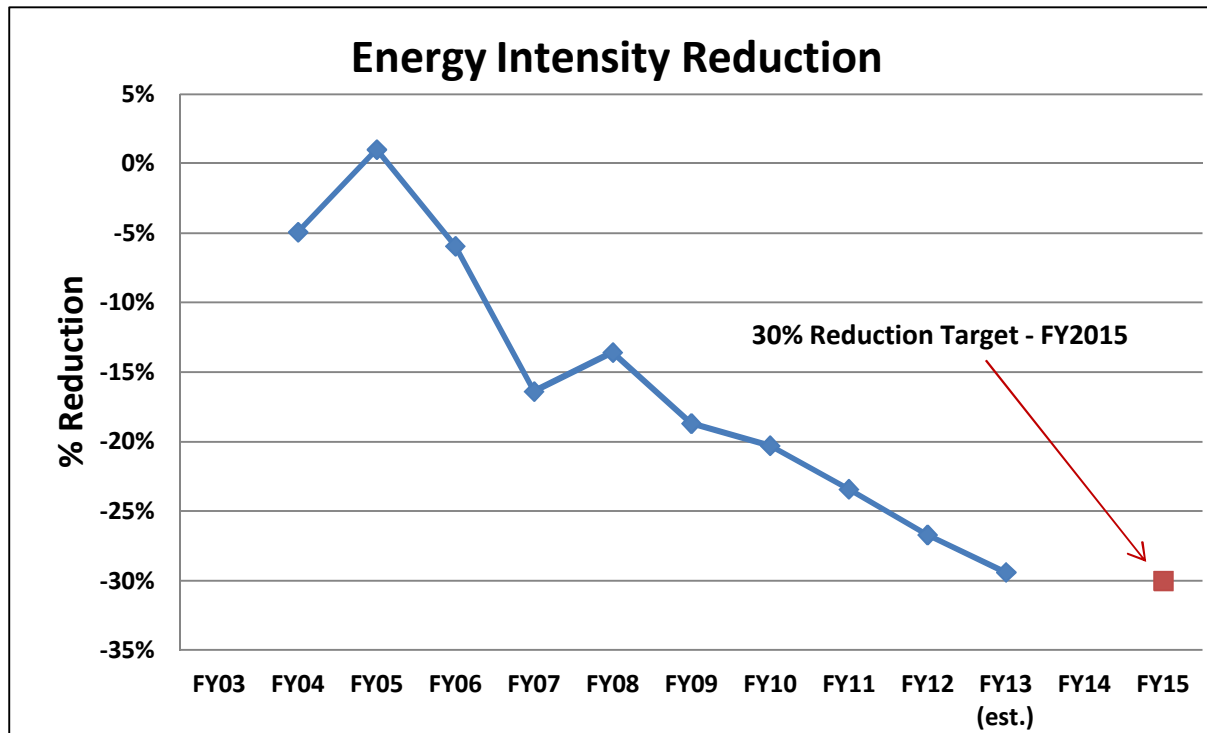
- Solid Waste
  - Objective: New Mexico (NM) Site - Reduce Solid Waste
  - Target: By end-of-year FY14, reduce non-hazardous solid waste (excluding C&D waste) by 15% relative to FY12 baseline.
  - Status:

**On Target -5 % Reduction Through Q2 FY13**



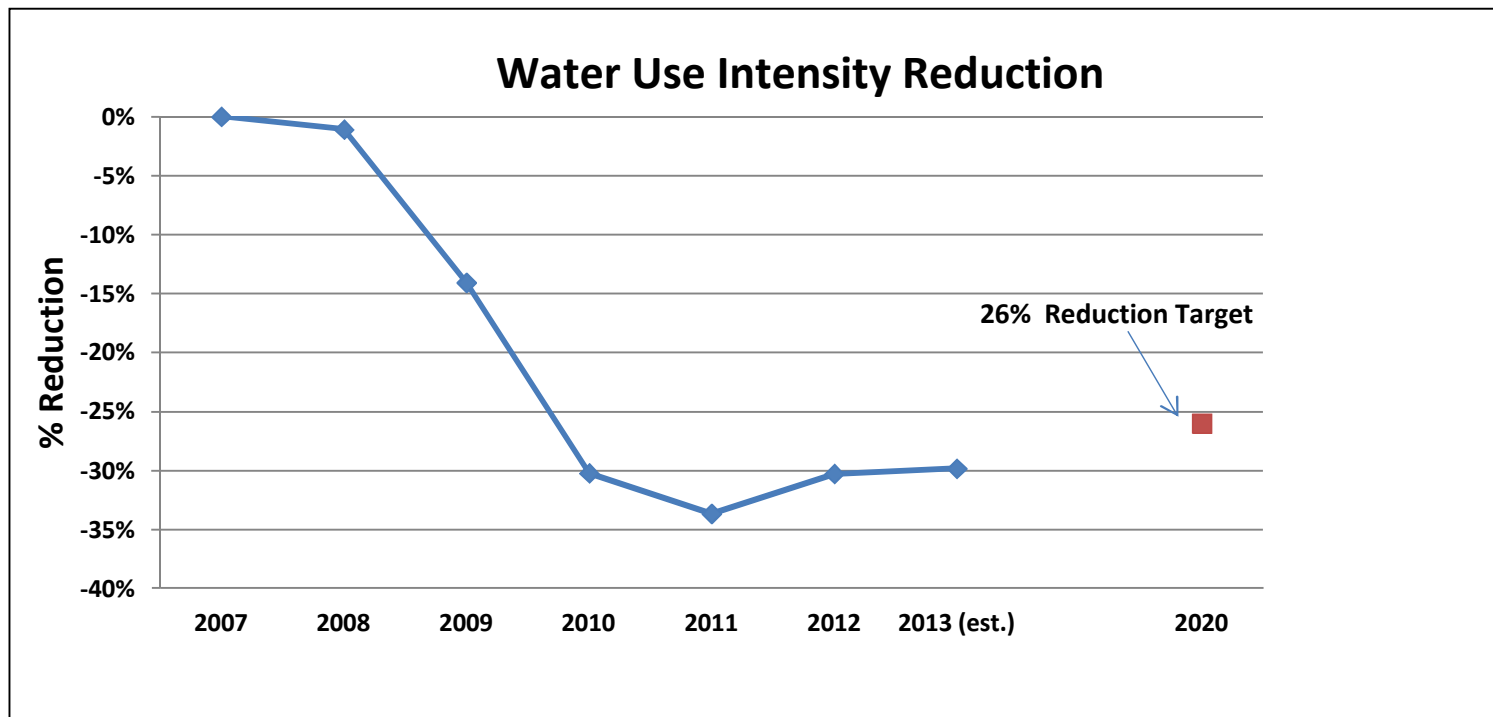
# Objectives and Targets, Continued

- Resource Use - Energy
  - Objective: Corporate - Reduce Energy Use Intensity
  - Target: By Fiscal Year 2015, Reduce Energy Use Intensity by 30% Relative to Fiscal Year 2003 Baseline
  - Status: **On Target**



# Objectives and Targets, continued

- Resource Use - Water
  - Objective: Corporate - Reduce Water Use Intensity
  - Target: By Fiscal Year 2020, Reduce Potable Water Use Intensity by 26% Relative to Fiscal Year 2007
  - Status: **On Target**





# Questions

- For more information see –  
[http://www.sandia.gov/about/environment/environmental\\_management\\_system/index.html](http://www.sandia.gov/about/environment/environmental_management_system/index.html)