

# Energy Management System (EnMS) Awareness

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**Introducing  
ABC Company's  
Energy Management System (EnMS)**

# What are we doing?

- Implementing a *management system* to:
  - Analyze and manage our energy uses and energy consumption
  - Improve our energy performance and the bottom line
- This system is called the ENERGY MANAGEMENT SYSTEM or EnMS

# Why are we doing it?

- Demonstrate sustainability leadership
- Maintain competitiveness
- More efficient use of our energy sources
- Potential energy cost savings
- Reduce greenhouse gas emissions and other environmental impacts

# How will an Energy Management System help us?

- Framework for continual improvement of energy performance
- Aligns resources for energy performance improvements with our business goals
- Increases energy awareness and accountability
- Improves operational efficiencies
- Integrates energy management into daily operations

# Who is leading the effort?

- **Top Management**

- Melissa Brown, VP of Operations

- **Energy Team Leader**

- Joe Williams, Plant Engineer

- **Energy Team Members**

- Sam Spader, Maintenance Manager
- Devon Bailey, Production Supervisor
- Bill Whitman, Purchasing Specialist
- Susan Jones, EHS Manager
- Lamar Kane, Paint Supervisor
- Mandy Kelly, Admin Assistant

# Who else is involved?

**EVERYONE!**

Everyone has responsibility for energy awareness and energy management in their work areas!

This includes our on-site contractors and suppliers!

# What key information do you need?

- Energy Policy
  - the energy commitments we have made
- Significant energy uses (SEUs)
  - our major energy-consuming activities and equipment and/or best opportunities for improvement
- Energy objectives and targets
  - the energy performance improvement goals we have set

# What energy commitments have we made?

## ABC Company Energy Policy

**As an energy intense manufacturer of specialty ceramics, ABC Company strives to reduce its energy consumption and costs and promote the long-term environmental and economic sustainability of its operations. We are committed to:**

- **R**educe energy use by 25% in 10 years across our US business operations
- **E**nsure continual improvement in our energy performance
- **D**eploy information and resources to achieve our energy objectives and targets
- **U**phold legal and other requirements regarding energy
- **C**onsider energy performance improvements in design and modification of our facilities, equipment, systems and processes
- **E**ffectively procure and utilize energy-efficient products and services

# What are our significant energy uses?

- Boiler operations
  - 37% of total natural gas consumed
- Fabricator oven operations
  - 23% of total natural gas consumed
- Air compressors
  - 8% of total electrical energy consumed

# Why are significant energy uses important?

- SEUs help us
  - Establish priorities for energy management
  - Make decisions on resource allocations
- In an EnMS, we must manage our SEUs by ensuring
  - competence and training of relevant personnel
  - implementation of operational and procurement controls
  - monitoring and measurement

# Why do your actions matter?

## **Following procedures:**

- Conserves energy
- Helps control energy costs
- Supports achieving energy objectives

## **Not following procedures:**

- Wastes energy
- Increases energy costs
- Undermines achieving energy objectives

# What energy objectives and targets have been set?

- **Objective: Reduce natural gas consumption by end of FY 2015**
  - **Target:** *Reduce natural gas consumption in fabricator ovens by 20%*
- **Objective: Reduce electrical energy consumption by end of FY 2015**
  - **Target 1:** *Reduce electrical energy consumption by air compressors by 2.5%*
  - **Target 2:** *Reduce electrical energy consumption in Admin Building by 2.5%*

# What are the benefits of improved energy performance?

- Reduced energy consumption
  - *Potential for reduced energy costs*
  - *Potential for increased conservation of natural resources*
- Increased energy efficiency
  - *Produce the same amount of product with less energy*
  - *Produce more product with the same amount of energy*
- Reduced greenhouse gas emissions and other environmental impacts
  - *Reduced long-term business risks and liabilities*
  - *Potential for reduced regulatory costs*

# Awareness is key to our success!

- Energy policy
  - Is there an energy policy?
  - What does the policy mean to your job?
  - How can and do you impact energy consumption?
- Energy procedures and requirements
  - What negative results occur if you do not follow EnMS procedures?
  - What positive results occur when EnMS procedures are followed?

**(cont'd)**

# Awareness is key to our success!

## (cont'd)

- Energy objectives and targets
  - Have energy objectives and targets been set?
  - Are there energy objectives and targets that apply to your work area or activities?
  - What is your role in achieving the energy objectives and targets?
  - What are the benefits of improved energy performance?

# What's Next?

- Increased communications about energy
  - Updates from the energy team
  - Suggestion system for energy-saving ideas
- Additional energy awareness training for
  - Personnel working in areas with significant energy uses
  - Personnel working in areas where the energy objectives and targets apply



# QUESTIONS?

Thank you for your time today!