

# Tracking Environmental Performance

Presented by

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## CORNERSTONE

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# Environmental Performance

Measurable results of an environmental management system, related to the control of its environmental aspects.

Assessment of environmental performance is based on environmental policy, environmental objectives and environmental targets.

# Environmental Performance & Sustainability



**Social**  
(People)

Understands the synergies that exist between:

- ❖ Process efficiencies
- ❖ Quality
- ❖ Customer requirements
- ❖ Environmental regulations
- ❖ Employee safety

And, that changes to one area can affect other areas.

A green circular icon containing a globe of the Earth, representing the environmental aspect of sustainability.

**Environmental**  
(Planet)

An orange circular icon containing a dollar sign, representing the economic aspect of sustainability.

**Economic**  
(Profit)



# **Environmental Performance Data**



**You can not manage what  
you can not measure!**

# **Environmental Performance Data**

- **Gain prospective as to what is working and what is not**
- **Prove progress towards achieving objectives and targets**
- **Provide feedback to support management decisions**
- **Promote achievements**

# ISO 14031: Environmental Performance Evaluation

## Plan

- Determine Environmental Performance Indicator(s)
- Determine Baseline(s)

## Do

- Collect Data
- Assess Information
- Communicate Information

## Check & Act

- Review and Modify Performance Evaluation



# Performance Indicators

## Operational Performance Indicators (OPI)

- Raw Material Used per Unit of Production
- Fuel Consumption per Mile

## Management Performance Indicators (MPI)

- Environmental Costs per Year
- Percentage of Environmental Targets Achieved

## Environmental Condition Indicators (ECI)

- Contaminant Concentrations in Air
- Contaminant Concentrations in Water



# **Environmental Performance Data**



**Relevance**

**Completeness**

**Consistency**

**Transparency**

**Accuracy**



# **Normalizing Data**



**Production Throughput**

**Raw Material Input**

**Hours of Operation**

**Square Footage**

**Number of Employees**

**Heating and Cooling Degree Days**

# Normalized Data

## Production Operations

kWh/MMBtu per Unit Produced

Weight/Volume/kWh/MMBtu per Pound Produced

Weight/Volume/kWh/MMBtu per Gallon Produced

Weight/Volume/kWh/MMBtu per Dollar Sales

Volume of Fuel per Hour of Operation/Miles Driven

## Offices/Warehouses

kWh/MMBtu per Hours of Operation

kWh/ MMBtu per Square Foot

kWh/MMBtu per Heating/Cooling Degree Days

Volume of Fuel per Hour of Operation/Miles Driven

# **Variables**

**New or Modified Production Operations**

**New Raw Materials**

**Building Expansions/Alternations**

# Possible Uses for Dissemination of Environmental Performance Data



Incorporate into Company's Annual Report



Support Sustainability Initiatives Published on Web Site



Provides data for voluntary disclosures

Press Releases to Publicize Environmental Achievements



Contact Information

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