

Tracking Environmental Performance

Presented by

Rick Bauer, CEM, CEA, EMS-LA
Vice President of Sustainability Services

CORNERSTONE

ENVIRONMENTAL, HEALTH AND SAFETY, INC.



880 Lennox Court
Zionsville, IN 46077
www.corner-enviro.com



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



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 stylized image of the Earth, representing the environmental aspect of sustainability.

**Environmental
(Planet)**

An orange circular icon containing a stylized 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

Rick Bauer

Vice President of Sustainability Services

880 Lennox Court
Zionsville, IN 46077

(317) 733-2637 ext. 328

rbauer@corner-enviro.com



CORNERSTONE
ENVIRONMENTAL, HEALTH AND SAFETY, INC.

