

Pollution Prevention & Compliance Assistance Measurement Tool

**Northeast Waste Management
Officials' Association**

Presented at the SBO/SBAP National
Conference - June 14, 2005



Pollution Prevention & Compliance Assistance Measurement Tool

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VT Department of Environmental
Conservation

*** A NEWMOA Member ***



Purposes of Measurement

- Communicate Activities & Accomplishments
- Improve Program Management
- Influence Policy Development
- Measure Progress Toward Goals

Types of Measurements

- **Activities** (bean counting): number of client visits, workshops, and publications, etc.
- **Environmental Indicators**: Overall air quality; stream classification, etc.

Types of Measurements

- **Outcomes:** direct results of or closely associated with activity.

Better understanding of requirements;

Pounds of waste reduced;

Tons of emissions eliminated, etc.

Level of Measurement Focus

- Sector specific initiative or geographic target
- Program-wide
- Agency-wide -
Multi-State/Regional/National

Cautions

- Going from activities to environmental indicators and from projects to multi-agency measurement

Cautions

- Cannot satisfy all needs with one system
- Need aggregated data to see overall trends
- Measurement is not free
Funds to support and maintain

Key Questions in Designing A Measurement System

- What are the purposes of the system?
- What are the questions you want the system to address?
- What types and what level of measurement are you targeting?

Key Questions in Designing A Measurement System

- What types of data are you able to collect with the resources you have available?
- Who will manage/maintain system?

Northeast Project Background

- Multi-state/multi-agency project
- Regional Workgroup
- Report – P2 Progress in the Northeast
- Metrics Menu
- Memorandum of Agreement
- Software

Main Menu

MAIN MENU

What information do you want to enter?



Project for a Client



Workshop/Conference Information



Client Project Outcome Information



Workshop/Conference Outcome



Production of Educational Material



Response to Information Request



Educational Material Outcome



Annual Update/ Assistance Program Information



Print or View Reports

**EXIT
DATABASE**

PROJECT FOR A CLIENT

Please enter general program information about this project:

***Lead Person**

***Funding Source**

Sub-Program/Initiative

Specific project information:

***Client Name**

Client Address:

Client City:

Client State:

***Project Name**

***Type of Project**

***Project Start Date**

Project End Date

***How the Client Learned of Your Program**

***Project Activities**

	Activity	Date	# of Attendees	Staff Hours	Memo
▶	On-site assistance	4/1/2001	6	4	
	Other activity on behalf of client	4/25/2001	0	0	
*			0	0	

Record: of 2

***Is there a grant associated with this project?** Yes No

If Regulatory Assistance Was Requested, Click Here: (If Yes, please enter more detailed information below in the section titled

PROJECT FOR A CLIENT

Regulatory Assistance Information

Check Here if P2 Suggestions were Given

If yes, click on appropriate tab below for a checklist

Number of P2 Suggestions Made: Check Here if Compliance Suggestions were Given

If yes, click on appropriate tab below for a checklist

Project Contact Regulatory Status Baseline Regulatory Assistance Baseline Emissions P2 Suggestions Compliance Issues

***Regulatory Status- Please Check At Least One:**

- | | | |
|--|---|--|
| <input type="checkbox"/> TRI Report | <input type="checkbox"/> RMP Facility | <input checked="" type="checkbox"/> None |
| <input type="checkbox"/> NPDES Major | <input type="checkbox"/> TSD | |
| <input type="checkbox"/> NPDES Minor | <input type="checkbox"/> LQG (State Defined) | |
| <input type="checkbox"/> NPDES General Permit | <input type="checkbox"/> SQG | |
| <input type="checkbox"/> NPDES Stormwater Permit | <input type="checkbox"/> Conditionally-exempt SQG | |
| <input type="checkbox"/> NPDES Other Permit | <input type="checkbox"/> Spill Control Plan | |
| <input type="checkbox"/> Pretreatment SIU | <input type="checkbox"/> UIC | |
| <input type="checkbox"/> SS Major | <input type="checkbox"/> UST | |
| <input type="checkbox"/> NESHAP Major | <input type="checkbox"/> State Air Toxics | |
| <input type="checkbox"/> SS Synthetic Minor | <input type="checkbox"/> Federal Air Toxics | |
| <input type="checkbox"/> SS NESHAP Minor | <input type="checkbox"/> Drinking Water Supplies | |
| <input type="checkbox"/> SS Other Minor | <input type="checkbox"/> Other | |

Additional Project Information:

OK

Cancel

Workshop/Conference/Training

Add New or Select Existing Workshop/Conference/Training Event:

First Event Date	Event Name	Event Type
2/4/2003	School Cleanout	Training
4/4/2002	NPPR Spring Conference	Conference

View**New****Cancel**

DATABASE

WORKSHOP/CONFERENCE INFORMATION

Please enter general program information about this project:

***Lead Person**

***Funding Source**

Sub-Program/Initiative

Please enter specifics about event:

***Nature of Presentation**

***Name of Event** OR

***Event Type**

***Event Details**

	Date	City	# of Attendees
▶	4/4/2002	Portland	15
*			0

Record: of 1

Note: if you want to track the outcome at specific locations separately, then you will need to enter each location event as a separate workshop/conference record.

***Topic (Please Check At Least One):**

P2 Compliance/Environmental Regulations OtherTopic

Innovative Technologies EMS

Staff Time Required to Organize and Hold Event/Presentation (hours)

***Target Audience (Please Check At Least One):**

Industrial Facility Agency Assistance Staff Other State Government Vendors

Large Non-industrial Business Regulatory Agency Staff Tribal Homeowners

Small Business Federal Facility Community Consumers

WORKSHOP/CONFERENCE INFORMATION

Please enter general program information about this project:

***Lead Person** [Add/Edit Staff](#)

***Funding Source** [Add/Edit Program](#)

Sub-Program/Initiative [Add/Edit Sub-Program](#)

Please enter specifics about event:

***Nature of Presentation**

***Name of Event** OR [Add/Edit Event](#)

***Event Type**

***Event Details**

Date	Event Type	Attendees
4/4/2002	Conference	15
*		0

Record: of 1

Note: if you want to track the outcome at specific locations separately, then you will need to enter each location event as a separate workshop/conference record.

***Topic (Please Check At Least One):**

- P2
- Compliance/Environmental Regulations
- OtherTopic
- Innovative Technologies
- EMS

Staff Time Required to Organize and Hold Event/Presentation (hours)

***Target Audience (Please Check At Least One):**

- Industrial Facility
- Agency Assistance Staff
- Other State Government
- Vendors
- Large Non-industrial Business
- Regulatory Agency Staff
- Tribal
- Homeowners
- Small Business
- Federal Facility
- Community
- Consumers

Workshop/Conference/Training Outcome

Please Select a Workshop/Conference/Training Event

First Event Date	Event Name	Event Type
2/4/2003	School Cleanout	Training
4/4/2002	NPPR Spring Conference	Conference

[View](#) [Cancel](#)

WORKSHOP/CONFERENCE OUTCOME

Event Name and Date Date of first event:

*Follow-up Detail

*Follow-up Method	Date	Staff Hours	# Contacted	# Responses
		0	0	0

Record: of 1

Number Increased Awareness/Understanding

Number Environmental Management Changes/Reviews

Number Take Action Comply w/ Environmental Regulations

Number to Adopt Non-regulatory P2 Changes

Additional Information

Waste Changes | Environmental Management Changes | Actions Taken to Comply | P2 Changes Implemented

Please Make Sure to Use the Correct Units: Number of Respondants for which Changes Apply:

Change in Hazardous Waste Generated	<input type="text" value="0"/> lbs	Change in Mercury Used	<input type="text" value="0"/> lbs
Change in Hazardous Waste Recycled	<input type="text" value="0"/> lbs	Change in Dioxin Emitted	<input type="text" value="0"/> lbs
Change in Solid Waste Disposed	<input type="text" value="0"/> lbs	Change in Other Air Pollutants Emitted	<input type="text" value="0"/> lbs
Change in Solid Waste Recycled	<input type="text" value="0"/> lbs	Change in Water Pollutants Released	<input type="text" value="0"/> lbs
Change in Infectious Waste Generated	<input type="text" value="0"/> lbs	Change in Toxic/Hazardous Chemicals Used	<input type="text" value="0"/> lbs
Change in HAPs Emitted	<input type="text" value="0"/> lbs	Change in Water Used	<input type="text" value="0"/> thousand gal
Change in VOCs Emitted	<input type="text" value="0"/> lbs	Change in Energy Used	<input type="text" value="0"/> million Btus
Change in NOx Emitted	<input type="text" value="0"/> lbs	Energy Created and Sold to Grid	<input type="text" value="0"/> MW
Change in SOx Emitted	<input type="text" value="0"/> lbs	Annual Operating Cost Savings	<input type="text" value="\$0"/>

WORKSHOP/CONFERENCE OUTCOME

Record: of 1

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Number Environmental Management Changes/Reviews

Number Take Action Comply w/ Environmental Regulations

Number to Adopt Non-regulatory P2 Changes

Additional Information

- Waste Changes
- Environmental Management Changes
- Actions Taken to Comply
- P2 Changes Implemented

Number that performed each of the following:

Adopted Best Management Practices	<input type="text" value="0"/>
Began to Maintain Purchase/use Records	<input type="text" value="0"/>
Developed Environmental Policy Statement	<input type="text" value="0"/>
Developed P2 Team	<input type="text" value="0"/>
Mapped Process	<input type="text" value="0"/>
Performed Self-audit	<input type="text" value="0"/>
Established EMS	<input type="text" value="0"/>
Improved training:	<input type="text" value="0"/>
Other	<input type="text" value="0"/>

WORKSHOP/CONFERENCE OUTCOME

Record: [Navigation icons] 1 [Navigation icons] of 1

Number Increased Awareness/Understanding

Number Environmental Management Changes/Reviews

Number Take Action Comply w/ Environmental Regulations

Number to Adopt Non-regulatory P2 Changes

Additional Information

Waste Changes | Environmental Management Changes | Actions Taken to Comply | P2 Changes Implemented

Number that took each of the following actions:

Filed new notification form or letter:

Applied for a new permit or permit modification:

Improved labeling and manifesting:

Improved recordkeeping, monitoring, or reporting:

Purchased new equipment:

Other action:

OK Cancel

WORKSHOP/CONFERENCE OUTCOME

Record: [Navigation icons] 1 [Navigation icons] of 1

Number Increased Awareness/Understanding

Number Environmental Management Changes/Reviews

Number Take Action Comply w/ Environmental Regulations

Number to Adopt Non-regulatory P2 Changes

Additional Information

Waste Changes | Environmental Management Changes | Actions Taken to Comply | P2 Changes Implemented

- | | | |
|--|---|---|
| <p>Technology Changes:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Install P2 Equipment <input checked="" type="checkbox"/> Modify equipment <input checked="" type="checkbox"/> Improve equipment efficiency <p>Reuse/Recycling:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Direct reuse <input checked="" type="checkbox"/> Closed-loop recycling <input checked="" type="checkbox"/> On-site reclamation <input checked="" type="checkbox"/> Off-site recycling <p>Additional Information:</p> <input type="text"/> | <p>Good Operating Practices:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Employee training <input checked="" type="checkbox"/> Spill/leak prevention <input checked="" type="checkbox"/> Waste segregation <input checked="" type="checkbox"/> Inventory and materials handling <input checked="" type="checkbox"/> Production scheduling <input checked="" type="checkbox"/> Water conservation <input checked="" type="checkbox"/> Energy efficiency | <p>Process Changes:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Substitute non-hazardous for hazardous materials <input checked="" type="checkbox"/> Optimize reactions <input checked="" type="checkbox"/> Alter product composition <input checked="" type="checkbox"/> Process elimination <p>Other:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Maintain purchase and use records <input checked="" type="checkbox"/> Develop an environmental policy statement <input checked="" type="checkbox"/> Develop a P2 team <input checked="" type="checkbox"/> Map their process <input checked="" type="checkbox"/> Establish an EMS |
|--|---|---|

OK Cancel

Proposed Reports

- Currently developing boiler-plate reports
- Reports focus on aggregating data for key elements
- Examples from training events (i.e., conferences/workshops)

Northeast Waste Management Officials' Association

- Non-profit, interstate organization established 1986
- New England, New Jersey & New York
- Governed by HW, SW, Waste Site Cleanup, & P2 Program Directors
- **www.newmoa.org**

For More Information

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