


# National P2 Results Measurement System

Cindy McComas

MnTAP

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# Overview

- ◆ Background
  - ◆ National P2 Results Task Force
  - ◆ Core Measures
  - ◆ Examples of State Initiatives
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# National P2 Results Task Force

- ◆ Purpose: develop a national measurement framework to capture environmental & economic outcomes from the implementation of P2
- ◆ Joint Project: NPPR & P2Rx
- ◆ Task Force members: Broad geographic representation of state P2 programs
- ◆ NEWMOA & PPRC Co-Chairs

# Benefits

## **A National P2 Results System Should:**

- ◆ Demonstrate that publicly-supported P2 programs deliver value for their clients, the public, & taxpayers
- ◆ Help policy makers assess P2 & understand what works as they set priorities, goals, & objectives
- ◆ Help government agencies & others evaluate progress toward goals
- ◆ Help P2 programs continually improve

# Memorandum of Agreement

- ◆ Demonstrates involvement in the P2 Data effort
- ◆ Shows support for a national system and coordination with Regional P2Rx Centers
- ◆ 26 State organizations
- ◆ 1 Resource-based Regional organization
- ◆ Continuing to gather signatures

# National Framework

## National Data Elements:

- ◆ Core Measures



## Regional Data Elements:

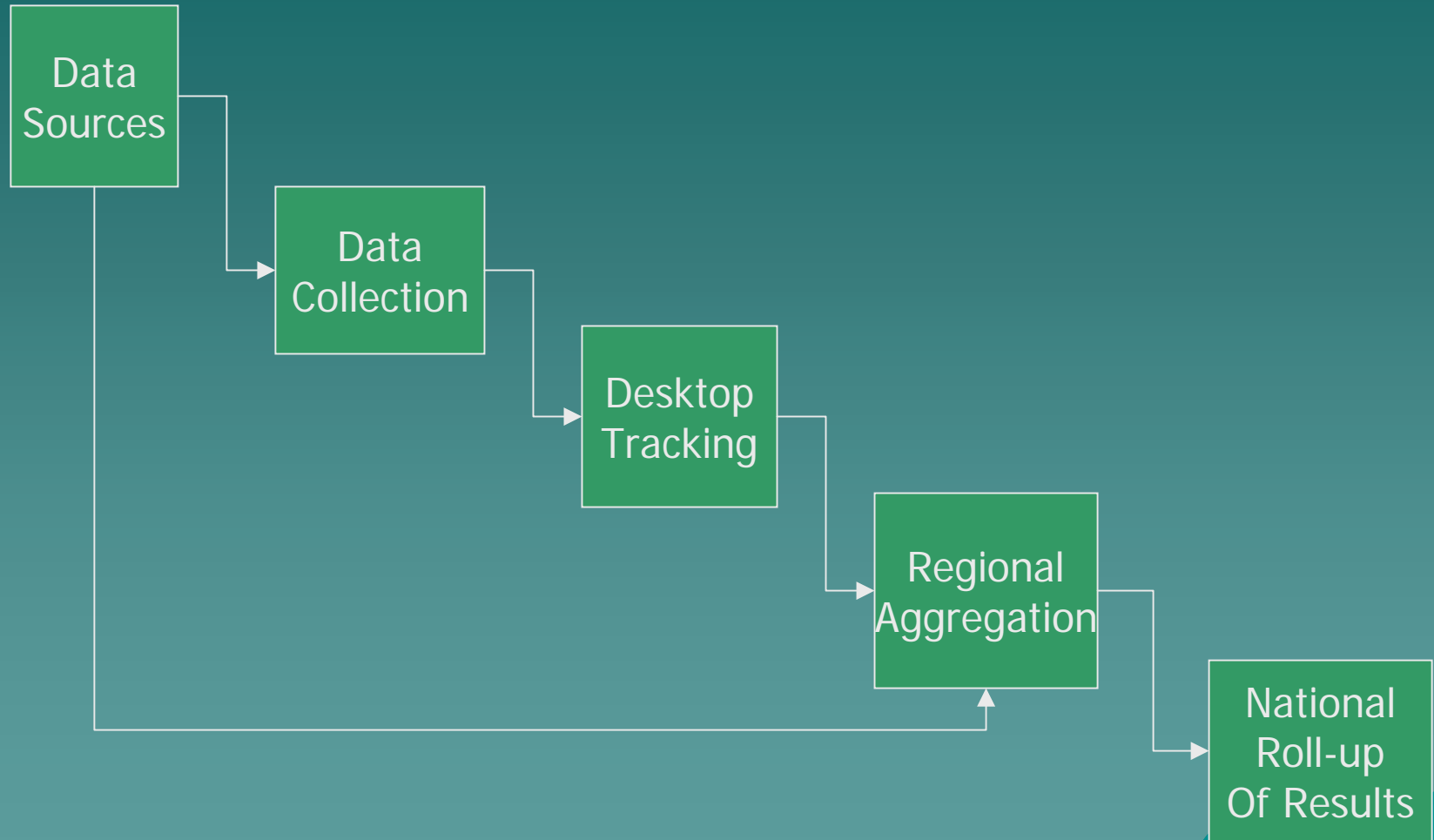
- ◆ Core Measures, where available  
*PLUS*
- ◆ Region-Specific Data Elements



## State & Local Data Elements:

- ◆ Core Measures, where available  
*PLUS*
- ◆ Region-Specific Data Elements  
*PLUS*
- ◆ State Program Data Elements

# Data Collection Process



# Data Dictionary

## Defines:

- ◆ Data elements for reporting
- ◆ Units to be used
- ◆ Categories of Core Elements
- ◆ Crosswalk with other EPA/State Programs
- ◆ Addresses EPA P2 Strategic Targets
- ◆ Helps meet accountability and budget needs



# Core Measures

Outcome Measures

Behavioral Measures

Activity Measures

Investment in P2 Activities



# Examples of Core Measures

## Outcome Measures

- ◆ Costs Reduced
- ◆ Hazardous Waste Reduced
- ◆ Air Emissions Reduced
- ◆ Solid Waste Reduced
- ◆ Water Pollution Reduced
- ◆ Energy Use Reduced
- ◆ Water Conserved

# Examples of Core Measures

## *(continued)*

### Activity Measures

- ◆ Number of trainings & workshops
- ◆ Number of client visits
- ◆ Number of responses to telephone/e-mail queries
- ◆ Amount & number of grants awarded
- ◆ Number of grants completed
- ◆ Number of web visitors to online information
- ◆ Number of award applicants
- ◆ Number of P2 recommendations offered

# Examples of Core Measures (continued)

## Behavioral Outcome Measures

- ◆ Number of clients reporting adoption of P2 policies
- ◆ Number of people trained in P2
- ◆ Number of clients developing environmental management systems (EMS)
- ◆ Number of clients that have developed a P2 team
- ◆ Number of clients that have mapped their process/es
- ◆ Number of clients reporting compliance improvements

# Core Measures *(continued)*

## Investment in P2 Activities

- ◆ EPA \$\$
- ◆ State, Local, non-profit, & matching funds \$\$
- ◆ Industry \$\$

# Regional Aggregation

- ◆ Provides method for regional data aggregation and summarization
- ◆ Key component of the “system”
- ◆ Tell the Regional “P2 Story”
- ◆ Based on initiative by PPRC
- ◆ Helps sell the value of programs to regional, state and local decision makers
- ◆ Feeds the National Report by rolling up data from all regional centers

# Reports

- ◆ Aggregated Reports for the Region
  - Agency Managers
  - Legislators
  - Business Leaders
- ◆ Reports for Each Program (Inputting Data)
- ◆ Project/Initiative/Activity Specific

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# Aggregated Northwest P2 Results Report

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## REGION 10 P2 MEASUREMENT HIGHLIGHTS

Pollution Prevention and Energy Efficiency Activities

*The following report provides a summary of documented results of pollution prevention, energy efficiency, solid waste and natural resource reduction projects in Alaska, Idaho, Oregon and Washington ending between 1993 and the present. This does not reflect all the reductions and resource efficiencies in the region.*

<b>Reduced Operating Costs</b> <a href="#">how was this calculated?</a>	<b>\$ 384,431,449.74</b>	
<b>Reduced Hazardous Waste Generation</b>	<b>26,754,666</b>	<b>pounds</b>
	<b>38,393</b>	<b>gallons</b>
<b>Reduced Toxic Material Use</b>	<b>1,245,751</b>	<b>pounds</b>
	<b>595,288</b>	<b>gallons</b>
<b>Electricity Saved</b>	<b>646,338,663</b>	<b>KWh</b>
<b>Natural Gas Saved</b>	<b>28,459,497</b>	<b>therms</b>
<b>Gasoline Saved</b>	<b>5,000</b>	<b>gallons diesel</b>
	<b>15,000,000</b>	<b>gallons other</b>
<b>Water Saved</b>	<b>2,179,170,348</b>	<b>gallons</b>
<b>Solid Waste Reduced</b>	<b>241,945,291</b>	<b>pounds</b>
<b>CO2 Emissions Eliminated</b>	<b>840.0</b>	<b>tons</b>
<b>Vehicle Miles Avoided</b>	<b>17,588,000</b>	<b>miles</b>
<b>Renewable Energy Generated</b>	<b>1,400,000</b>	<b>KWh</b>



# Resources

- ◆ P2 & CA Measures Listserv – send an email to [nbisbee@newmoa.org](mailto:nbisbee@newmoa.org)
- ◆ Environmental Measurement P2Rx Topic Hub --  
[www.newmoa.org/prevention/topichub](http://www.newmoa.org/prevention/topichub)
- ◆ NEWMOA desktop data management tool
  - Access-based system
  - Includes boiler plate outcome reports
  - Available at [jgriffith@newmoa.org](mailto:jgriffith@newmoa.org)

# Status & Next Steps

- ◆ EPA has committed funding to support development of National P2 Results System
- ◆ All P2Rx Centers are implementing web-based aggregation tool on their website over the upcoming year
- ◆ NEWMOA & PPRC will work on linking Web-based aggregation w/NEWMOA desk top system
- ◆ Promote Memorandum of Understanding

**For more information contact:**

Terri Goldberg, NEWMOA

(617) 367-8558 x302

[tgoldberg@newmoa.org](mailto:tgoldberg@newmoa.org)

Chris Wiley, PPRC

206-352-2050

[cwiley@pprc.org](mailto:cwiley@pprc.org)

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Address <http://www.pprc.org/measure/input/input1.cfm> Go Links >>

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The next 4 screens capture information about:

- 1. General Project/Activity Information**
- 2. Process Inputs**
- 3. Process Outputs** and
- 4. Renewable/Recycled Materials & Resources.**

Please proceed through each page and enter information, as appropriate.

### 1. GENERAL PROJECT/ACTIVITY INFORMATION

(red\*\* means required)

**Agency/organization\*\*** 

**State in Which Project/Activity Took Place\*\***

**Activity(ies) Contributing to P2 Results**


- other/not applicable
- workshop/event/training
- site visit
- telephone assistance
- sent written materials
- referred to contacts or web sites
- award/recognition program
- inspection/enforcement followup

*(select multiple items by using Control key)*

**Activity(ies) Description**

**Sector Involved in These Results**

**Sector Description**

**Date Project/Activity Ended\*\***   *(enter as mm/dd/yyyy)*

**Person Entering Data\*\***

Next... 2. Process Inputs

Internet

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Address http://www.pprc.org/measure/input/input2.cfm

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### 2. PROCESS INPUTS

**Toxic/Hazardous Materials**

		Initial Cost	Savings
Reduced Use	<input type="text"/> pounds	Non-capital \$ <input type="text"/>	One-time \$ <input type="text"/> <input type="radio"/> est. or <input type="radio"/> actual
Reduced Use	<input type="text"/> gallons	Capital \$ <input type="text"/>	Annually Recurring \$ <input type="text"/> <input type="radio"/> est. or <input type="radio"/> actual
Description	<input type="text"/>	Recurring for How Long? <input type="text"/> future years	

**Raw Materials**

		Initial Cost	Savings
Reduced Use	<input type="text"/> pounds	Non-capital \$ <input type="text"/>	One-time \$ <input type="text"/> <input type="radio"/> est. or <input type="radio"/> actual
Reduced Use	<input type="text"/> gallons	Capital \$ <input type="text"/>	Annually Recurring \$ <input type="text"/> <input type="radio"/> est. or <input type="radio"/> actual
Description	<input type="text"/>	Recurring for How Long? <input type="text"/> future years	

**Water**

		Initial Cost	Savings
Reduced Use of Raw/Fresh Water	<input type="text"/> gallons	Non-capital \$ <input type="text"/>	One-time \$ <input type="text"/> <input type="radio"/> est. or <input type="radio"/> actual
		Capital \$ <input type="text"/>	Annually Recurring \$ <input type="text"/> <input type="radio"/> est. or <input type="radio"/> actual
Description	<input type="text"/>	Recurring for How Long? <input type="text"/> future years	

**Energy/Fuel**

Reduced Use		Initial Cost	Savings
Electricity	<input type="text"/> kWh	Non-capital \$ <input type="text"/>	One-time \$ <input type="text"/> <input type="radio"/> est. or <input type="radio"/> actual
Natural Gas	<input type="text"/> therms	Capital \$ <input type="text"/>	Annually Recurring \$ <input type="text"/> <input type="radio"/> est. or <input type="radio"/> actual
Vehicle Miles	<input type="text"/> miles		Recurring for How Long? <input type="text"/> future years
Diesel Fuel	<input type="text"/> gallons		
Other Petroleum (non-auto)	<input type="text"/> gallons		
Coal	<input type="text"/> tons		
Other Fuels	<input type="text"/> kWh equivalent		

Done Internet

Data Entry Field	Definition	Input Protocol
<b>State in Which Project / Activity took place</b>	The state or entire EPA Region 10 where the activity(ies) / projects took place.	For State-specific information: Choose the applicable state. For EPA-specific activities not attributable to one or any state, choose "EPA Region 10"
<b>Date Project / Activity Ended</b>	Date assistance to this client ended, or the date that the project, or implementation of the project was completed. The accuracy of this date is important with respect to reporting. When reports are requested within a specific time period, this is the field that will be queried.	Enter two digits for the month and day, four digits for the year ( <i>mm/dd/yyyy</i> ).
<b>Initial Cost</b>	Costs associated with implementation of the pollution prevention or waste reduction effort.	<i>(Heading - no data entry)</i>
Non-capital	One-time, non-equipment related expenses such as staff time, staff training, non-capital materials or supplies, etc.	Report in U.S. dollars.
Capital	Expenses related to facility modifications, new equipment, payment of contractors for installation/modification, and training staff.	Report in U.S. dollars.
<b>Savings</b>	Cost savings associated with implementation of the pollution prevention or waste reduction effort.	<i>(Heading - no data entry)</i>
One-time	Non-recurring, one-time cost savings, e.g., such as recycling materials from a construction or demolition project, or an inventory reduction involving a material exchange rather than disposal of the inventory.	Report in U.S. dollars.
Annually Recurring	Recurring and tangible cost savings, such as reduced staff time, reduced purchasing costs, reduced storage/treatment/handling, etc. If an accounting system estimates reduced liability or risk costs, this can also be included. Subtract any recurring operating costs incurred by this effort from the total savings value.	Report in U.S. dollars.
Recurring for How Long?	Estimated future years that the ongoing cost savings will be realized.	Report in whole-digit number of years.
<b>PROCESS INPUTS (Input Screen #2)</b>	Consumable material and resource flow into the facility, office, processes, and/or operations. This includes supplies, chemicals, feedstocks, energy and water, and any other tangible inflows of materials or resources.	<i>(Heading - no data entry)</i>
<b>Toxic/Hazardous Materials</b>	Reduced use or need for supplies and feedstocks that are toxic or hazardous and require special handling and storage. Examples include chemicals, solvents, pesticides, etc. This category does NOT include materials that have been used and are now considered toxic or hazardous waste.	Report in annual pounds and/or annual gallons reduced.
<b>Raw Materials</b>	Reduced use of and need for non-hazardous feedstocks, chemicals, supplies, and other consumables used in the facility, office, processes, and/or operations.	Report in annual pounds and/or annual gallons reduced.
<b>Water</b>	Reduced consumption of incoming raw water, from outside sources, for operations, maintenance, and landscaping.	Report in annual gallons reduced.