



The Clean Air Association of the Northeast States

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Eastern Climate Registry Reporting Tool Road-Test & The Climate Registry Overview

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U.S. EPA Climate Leaders Conference
Washington D.C., March 22-23, 2007



Eastern Climate Registry
Supporting Regional Climate Action



NESCAUM – Who We Are

- Northeast States for Coordinated Air Use Management was formed in 1967 by the region's Governors
- Nonprofit association of air pollution agencies in the 6 New England states, New York & New Jersey
- Provide science assessment and policy analysis to member states on air quality, climate and energy issues of regional concern. **Highlights:**
 - **Coordinate the Eastern Climate Registry (ECR)**
 - **Support The Climate Registry**
 - **Support RGGI Process**
 - **Develop Regional Climate, Air Quality and Energy Models**



Presentation Overview:

- **ECR Reporting Tool Road-Test Phase I**
 - Intro and Objectives
 - Process
 - EATS/CRAVe fact-sheet
 - Results
 - Future Steps
- **ECR Reporting Tool Road-Test Phase II**
- **The Climate Registry**
 - Goals and Principles
 - Governance Structure
 - Opportunities for business
 - Existing Registries
 - Timeline and Future Developments



ECR Road-Test Phase I: Intro and Objectives

- Test CRAVe capability to collect entity-wide emissions data on facility level:
 - ❑ Calculation, Reporting & Verification tool (CRAVe)
 - ❑ Customized formulas for combustion, process and activity-related emissions
 - Default EFs
 - Site specific EFs
- Eleven participants
 - ❑ Conectiv Energy, ESource, GE, J&J, Interface, Steelcase, PSEG, Rockwell Collins, Wal-Mart, the California Registry, CA Air Resources Board



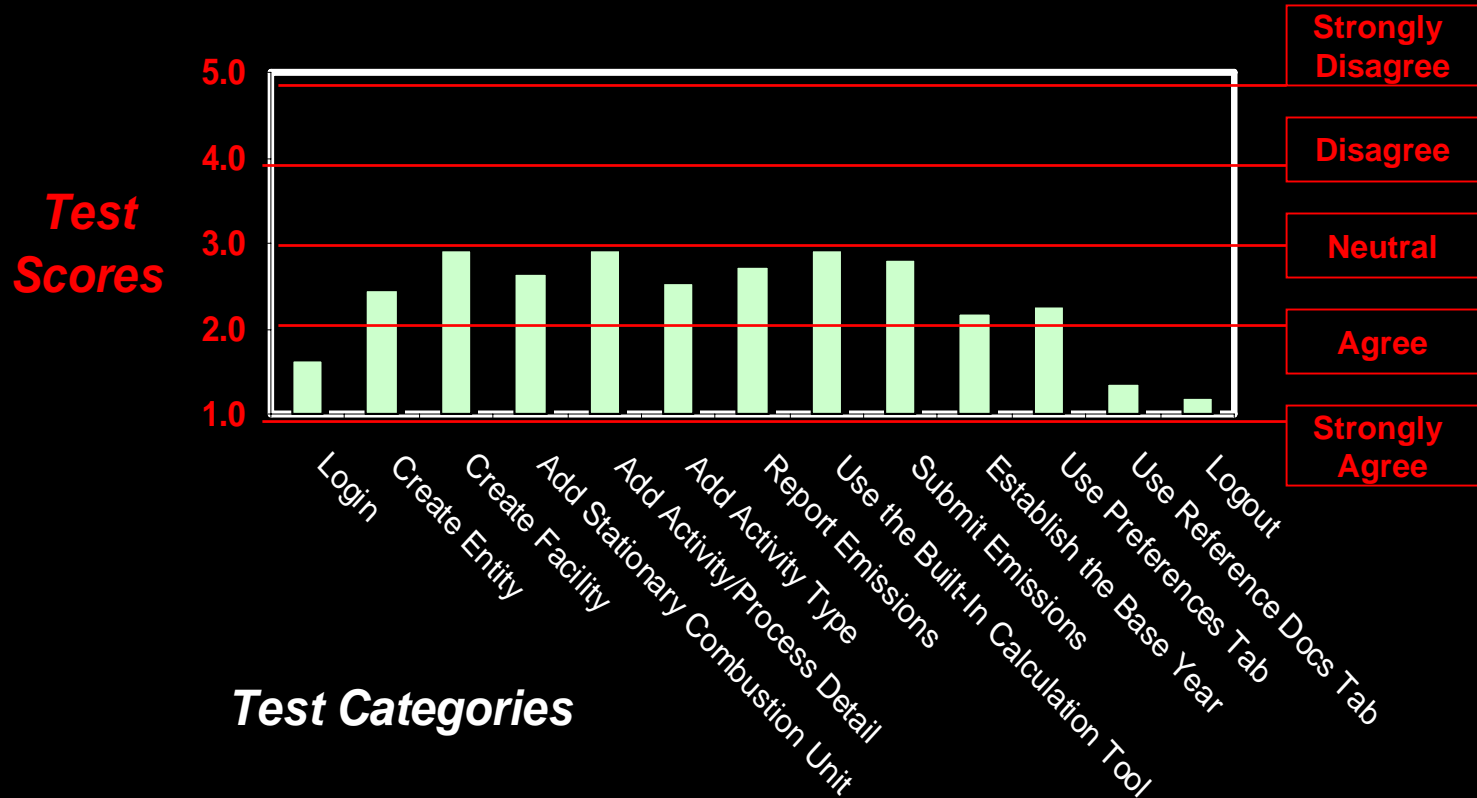
ECR Road-Test Phase I: Process (cont.)

- Companies were selected with existing GHG emissions inventories and members in voluntary registries (6 Climate Leaders partners)
- Questionnaire:
 - Section I: Usability and Functionality
 - Section II: Methodology and Data Management
- Phone follow-up discussions:
 - Identify big picture issues
 - Establish networks and provide policy updates on The Climate Registry



ECR Road-Test Phase I: Process (cont.)

Usability & Functionality





ECR Road-Test Phase I: EATS Facts

- **Emissions Allowance Tracking System (EATS)** – a comprehensive system for collecting, verifying, and managing emissions and tradable allowances data
 - Account Management
 - Allowance Tracking
 - Offset Credit Tracking
 - Source Management (location, sector, fuel mix, program participation)
 - Emission Reporting and Verification (“wizard” approach enables the rule and quality assurance checks within specified parameters)
 - Emission and Allowance Reconciliation
 - Public Reporting (web-based)



ECR Road-Test Phase I: EATS Facts

Account Detail ?

Account Number	48987
Account Name *	<input type="text" value="Dynergy Danskammer, Unit 1"/>
Status *	<input type="text" value="Open"/>
Opened on	08/15/2003
Closed on	
Allowances can be Transferred	<input type="text" value="Yes"/>
Allowances can be Acquired	<input type="text" value="Yes"/>
Owner/Operator	<input type="text" value="Dynergy Danskammer, LLC"/> <input type="button" value="Add"/>
Reconciliation Level	Unit
Account Type	Compliance Account
Pollutant(s)	Sulfur Dioxide
Emissions Level	Unit
Program	SO2 Program

Source Details

Source	Unit
<u>Dynergy Danskammer</u>	1

Representative Details

Name	Representative Type	Begin Date	End Date
<input type="radio"/> <u>Ferber, Dana</u>	Primary Representative	08/15/2003	
<input type="radio"/> <u>Thompson, Daniel</u>	Alternate Representative	08/15/2003	



ECR Road-Test Phase I: CRAVe Facts

- **Calculation, Reporting, and Verification tool (CRAVe)**
 - *Integrated emissions data management*
 - entity, facility, unit, and process/activity levels
 - *Flexible and adaptable modular design*
 - customization and add-ons to accommodate the different rules and calculation methodologies of each reporting program
 - *Customized calculation formulas for combustion, process, and activity-related emissions*
 - default values (default EFs)
 - source-specific values (site-specific EFs and measurement based calculations)

Create Entity

[Help](#)

Use this page to create a new entity. Enter the entity name, alternate entity number (optional), and consolidation methodology (organizational boundary) below. Then enter the Entity's address. After clicking the "Save" button, the application will automatically generate and assign an Entity Number. Note that the user that created the entity will automatically be established as the Primary Entity Contact for the entity. You will then be able to enter additional entity contacts, and facility relationships for the newly created entity.

Fields marked by * are required.

Entity Name *

Alternate Entity Number

Consolidation Methodology (Organizational Boundary) *

Address *

Address

City *

Country *

State *

Postal Code *

[Save](#)

Facility Information

Print Help

Using the form and tabs below, you may create or edit facility details, facility addresses, facility contacts, unit details, activities/processes, and review histories of entity relationships. When ending a relationship, you will be prompted to select the date on which you wish to end the relationship. In order to submit emissions data, you must enter a Physical address for the facility and data in either the Unit Details (Stationary Combustion Units) OR Activity/Process tabs. A voluntary (reporting) program must also be set up before emissions can be submitted.

Fields marked by * are required.

Facility Name *	<input type="text" value="5356345"/>
Facility Number *	<input type="text" value="563546546"/>
Alternate Facility Number	<input type="text"/>
Sector (NAICS) *	<input type="text" value="112 Animal Production"/>
6 Digit NAICS Code	<input type="text"/>
Description	<input type="text"/>

Back Save Delete Facility

Address Details

Facility Contacts

Unit Details

Activity/Process

Programs

Entities

Accounts

Emissions

Address Details

Address Type	Address	Begin Date

Review Submission

[Help](#)

Use this page to review the previous emissions records submitted for the Submission ID selected. Each emission record is found in the Emissions Data Detail grid below. The buttons below the Emissions Data Detail grid are: 1) Back, which will return you to the prior page; 2) Change Emissions Submissions, which allows you to add or delete emissions records to the submission; 3) QA Check Log, which will present a log of the most recent QA of your emissions data and, 4) Verify. You may add an emissions report to the submission by clicking the Add Report button under the Submission Reports grid.

Submission ID 163
Facility Number 87654321
Facility Name Downtown Headquarters
Reporting Year 1998
Reporting Period 01/01/1998 - 12/31/1998

Program CO2 Trading Program
Greenhouse Gases CH4 (Methane), N2O (Nitrous Oxide), CO2 (Carbon Dioxide), Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs), SF6 (Sulfur Hexafluoride)
Reporting Frequency Annually

Submission Reports

Document Name	Document Description
No documents exist for the current submission.	

[Add Report](#)

Emissions Data Detail

Emission Record ID	Emission Status	Reporting Method	Unit/Activity/Process Number	Scope	Activity Type	Fuel	Quantity	Greenhouse Gas	Total Emissions	Comment
374	Draft	Calculated	1	Scope 1 - Combustion (Mobile)	Bus Transportation	Diesel Fuel	100000.00 Passenger miles	CO2 (Carbon Dioxide)	7.81 metric tons	

[Back](#) [Change Emissions Submission](#) [QA Check Log](#) [Verify](#)



ECR Road-Test Phase I: Results

- **Simplified the interface design (tabs)**
 - Minimized the number of screens, buttons and sessions
 - Redesigned 'entity' and 'facilities' modules
 - Improved help menus (on-screen text and guidelines)
- **Added program management module**
 - Compliance accounts
 - Mandatory and voluntary program parameters
- **Added allowance transaction module**
 - Transfer and true-up functionality
- **Designed emissions reports' interface**
 - Emissions profiles for entities and facilities



ECR Road-Test Phase I: Future Steps

- **Improve usability and functionality**
 - Integrate user's guide and glossary functions (roll-overs and pop-ups)
 - Enable calculations for multiple GHGs based on a single fuel input
 - Improve numbering system for entities, facilities, units and activities)
- **Design project module for offset credits**
- **Design verification module**
- **XML Data Exchange (EPA project)**
 - Common data exchange between registries
 - Excel data upload capability for reporters



ECR Road-Test Phase II

- April 9 – 27, 2007
- The California Registry member companies (15-20 testers)
- Joint beta testing with CARROT 3.0
- Prepare CRAVe/EATS platform for The Climate Registry
- Continue outreach to companies



The Climate Registry: Participating Parties

More than 30 states and tribes have developed the framework

Eleven Eastern Climate Registry States
(coordinated by NESCAUM)

- Connecticut, Delaware, Maine, Massachusetts, New Hampshire, New Jersey, Maryland, New York, Pennsylvania, Rhode Island, and Vermont

State of California (CCAR)

Eight Midwestern States (coordinated by LADCO)

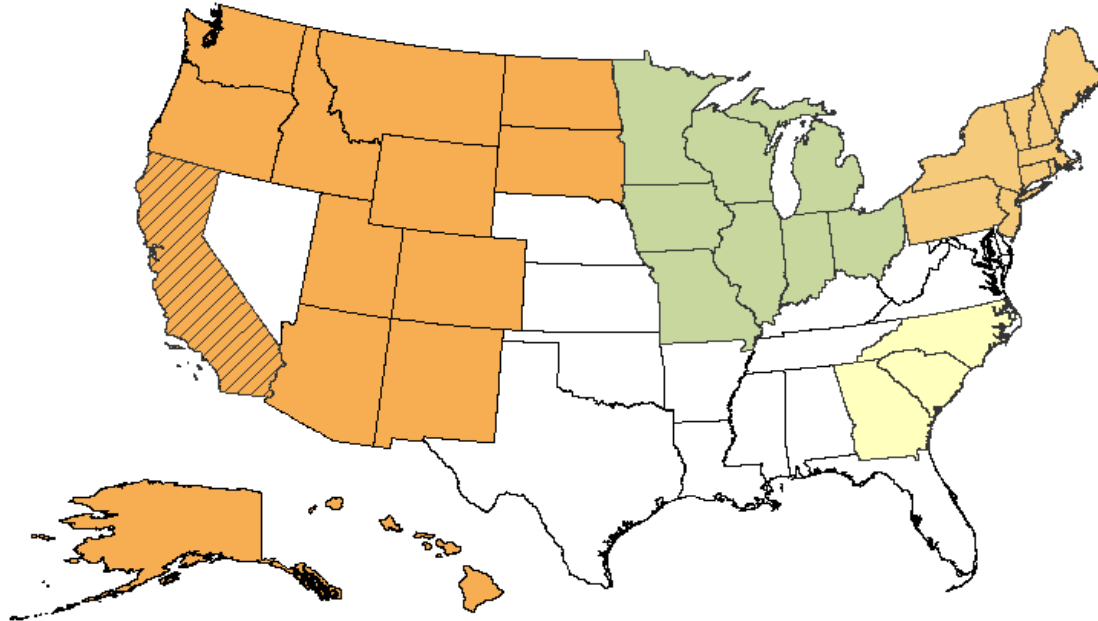
- Illinois, Indiana, Iowa, Ohio, Minnesota, Missouri, Wisconsin

Thirteen Western States (coordinated by WRAP)

- Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, New Mexico, N. Dakota, Oregon, S. Dakota, Washington, Wyoming



The Climate Registry: Participating States



California Climate Action Registry (CCAR)



Lake Michigan Air Directors Consortium (LADCO)



Eastern Climate Registry (ECR)



Western Regional Air Partnership (WRAP)



Observer States





The Climate Registry: Goals and Principles

- Create a common standard for tracking and measuring GHG emissions
- Standardize best practice:
 - The GHG Protocol Corporate Standard (developed by WRI and WBCSD)
 - GHG reporting requirements established by the CCAR and the ECR
- Develop a ***policy neutral*** platform
 - Voluntary Reporting
 - Mandatory Reporting (NJ, ME, CT, CA AB 32)
 - Regulatory Programs (RGGI, Five Western States' cap-and-trade system)



The Climate Registry: Goals and Principles

- Lower costs and meet states' needs
- Promote full and public disclosure
- Minimize compliance and transaction costs for companies, and promote recognition of early action
- Provide linkages between climate policies and emissions management systems



The Climate Registry: Governance Structure

- **501(c)(3) Non-Profit Organization** incorporated in Washington D.C.
- **Leadership**
 - Board of Directors (one representative from each state and tribe)
 - Executive Committee
 - Advisory Committees (e.g., stakeholders, technical)
- **Organization**
 - Central Office (Executive Director)
 - Regional Offices
- **Partnership Model**
 - Leverage existing infrastructure and knowledge base
 - Lower start-up costs
 - Rapid deployment
 - Stronger national and international reputation



The Climate Registry: Opportunities for Business

- Document early action
- Establish environmental leadership
- Identify GHG emissions risks and opportunities
- Lower compliance and transaction costs
- Gain access to user-friendly web-based software emissions reporting platform
- Engage in a multi-state effort that is *likely* to influence a national GHG registry program



The Climate Registry: Existing Registries

<i>Key Criteria</i>	The Climate Registry	DOE 1605 (b)	Chicago Climate Exchange
<i>Program Type</i>	Voluntary GHG registry	Voluntary GHG reduction program	Voluntary GHG allowance trading scheme
<i>Purpose</i>	Public registry tracks emissions (policy-neutral)	Public registry tracks reductions	Private allowance trading program
<i>Scope</i>	Entity-wide; facility-level	Entity-level	Entity-level
<i>Public Reporting</i>	Yes	Yes	No
<i>Transparency</i>	High	Medium	Low
<i>Public/Private</i>	Public	Public	Private
<i>Third-party Verification</i>	Required	Optional	Required



The Climate Registry: Timeline

- States and tribes are invited to join the Registry on *March 16th*
- Deadline to return signed Statement of Goals and Principles on *May 18th*
- First Board of Directors meeting in Chicago on *May 23rd*
- Development of technical protocols (*Summer 2007*, including public comment period)
- Software development (*Summer 2007*)
- **Fully operational by January 1st, 2008**



The Climate Registry: Conclusions

- Establish a common standard for tracking and measuring GHG emissions and standardize best practices
- Lower costs to states and anticipate their future needs in climate change policy
- Support voluntary reporting of high quality emissions data (policy neutral focus)
- Build out a rigorous web-based emissions reporting, tracking and verification software platform
- **Contact your states and encourage them to join the Climate Registry!**



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