

SLEIS – The Next Generation

2015 Emissions Inventory Conference
Tools/Emerging Technologies Session

April 16th, 2015



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SLEIS – The Next Generation

1. The story so far
2. Where do we go from here?



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The Story So Far



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Background

- EPA introduced the new Emissions Inventory System (EIS) for the 2008 reporting year.
- Some 20+ state and local air quality management agencies previously using the i-STEPS software product to manage emissions inventory data would not be able to support the new EIS.
- At the 2008 EPA Emissions Inventory Conference, a group of agencies discussed their shared need to migrate from i-STEPS to a new system that would be compliant with the new EPA EIS requirements
- The agencies formed a consortium and agreed to work together and share resources to develop a new, shared point source emissions inventory system.



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Background (cont)

- The new State and Local Emissions Inventory System would replace i-STEPS and would enable electronic data collection from facilities, support agency quality assurance, and allow reporting to U.S. EPA.
- The Consortium, led by Arkansas DEQ, applied for and was awarded an EPA grant to develop the system.
- The Consortium worked together to develop a common set of business and technical requirements for the new system.
- The Consortium selected Windsor Solutions, Inc. through a competitive process to develop the new system.



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SLEIS Solution

- Enables the regulated community to submit point source emissions inventory data, and related meta-data, to state and local agencies using an intuitive and streamlined Web application.
- Provides a secure reporting mechanism (CROMERR-compliant).
- Supports multiple reporting years of emissions inventory data, both current and historical.
- Enables regulatory agencies to manage, review, and validate the collected data.
- Highly customizable, allowing each state or local agency to configure the system to meet their own unique needs.
- Manages the generation and submission of required data files to EPA's EIS by the state or local agency.



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Original Consortium Members

- Arkansas Department of Environmental Quality
- Arizona Department of Environmental Quality
- Delaware Department of Natural Resources and Environmental Control
- New Hampshire Department of Environmental Services
- West Virginia Department of Environmental Protection
- Metropolitan Government of Nashville and Davidson County, Tennessee



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Also Used By

- Environmental Health Department - City of Albuquerque, New Mexico (Cloud hosted)
- Salt River Pima-Maricopa Indian Community, Arizona (Cloud hosted)
- Maricopa County, Arizona
- Hawaii Department of Health (Cloud hosted)
- Kansas Department of Health and Environment (Cloud hosted)
- Iowa Department of Natural Resources



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Where Do We Go From Here?



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Versions To Date

May 2012	1.0	Initial production version from original Consortium project
April 2013	1.1	Updates and bug fixes under original Consortium project
February 2014	1.2	Made CROMERR compliant; final version released under original Consortium project
March 2015	1.3	Performance improvements, bug fixes, and support for “canned” report development/display.

Note: Minor bug-fix/enhancement releases (e.g., 1.2.1) were also deployed every 3-6 months, and are not reflected in this list



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Version 2.0

- Custom reporting module embedded in application
 - Define search/filter criteria, save for reuse, export results
- Enhance administration module for EIS/SLEIS reference table maintenance
- Utilize a newer, more feature rich, list page control with true pagination, search/filter by any column, improved performance
- Enhance business rule engine to enable additional QA checks
 - i.e., forcing use of active codes, pollutant-total comparisons, warning errors
- Improvements to PDF rendition of Copy-of-Record
- Additional user interface (UI) configuration options and enhancements
- Extend pollutant meta-data to enable required and default (for new processes) pollutants, and additional support for invoice generation.
- Provide download-template and file-import functionality from Agency UI
- Targeted performance improvement of key system functions



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Beyond Version 2.0

- User interface (UI) enhancements
 - i.e., improved look-and-feel, less white-space, more configuration options
- Enhance administration module to include business rule maintenance
- Support for additional process emissions data entry methods and UI enhancements
 - Grid/table style optimized for more efficient, streamlined data entry
 - Popup dialog for single pollutant data entry and emissions calculation at a time
 - Increase configurability of emissions data entry, allowing for more data entry options for emissions related field entry
- Integration with agency portals for authentication, authorization, and user management
- Improved support for minor source emissions reporting
- Support for potential and permitted emissions
- Rich-text/HTML editor for application help management



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Implementation Options

SLEIS supports two implementation options:

- **Locally Hosted**
 - SLEIS database and application hosted in agency environment
 - Environment maintained by local agency/IT staff
- **Cloud hosted**
 - SLEIS database and application hosted in Cloud environment
 - Environment maintained by Windsor staff
 - Windsor manages backups and disaster recovery
 - Potentially easier/quicker CROMERR approval (TBD)



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SLEIS Permitting

Windsor has been approached for various permitting solutions for use with SLEIS:

- Stand-alone permit/compliance solution with bidirectional data sharing with SLEIS
- Permit/compliance solution integrated within SLEIS application itself
- Permit/compliance solution integrating SLEIS and an existing/legacy agency permit/compliance system, with bidirectional data sharing



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Summary



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Summary

- SLEIS is now the most widely used emissions inventory reporting tool for State and Local emissions inventory authorities
- SLEIS continues to evolve and extend functionality
- Lots to come in the future



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More Information

<http://windsorsolutions.com/Products/SLEIS/>

Contacts

Bret Smith (bret_smith@windsorsolutions.com)

Kevin Jeffery (kevin_jeffery@windsorsolutions.com)



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