

Colorado Department of Public Health and Environment Technology Projects Update

Joint Technology Committee
August 28, 2023

Air Pollution Control Division

Stationary Sources Data Modernization Project

Stationary Sources System Project Summary

- A capital IT project to modernize the outdated stationary sources data system used by CDPHE, Air Pollution Control Division (APCD)
 - FY 2022-23: Year 1, \$4.1M
 - FY 2023-24: Year 2, \$4.5M
- The Stationary Sources database is the primary technology tool used by APCD to manage permitting, inspections, enforcement, compliance, billing, emissions, and data reporting associated with stationary sources
- The system scope is broad with 2,500 companies and 14,000 facilities
- Stationary source regulated entities include oil and gas, power utilities, manufacturing, construction, landfills, agriculture, mining, and retail (e.g., gas stations, dry cleaners)
- The Stationary Sources Database is an outdated technology developed in the mid-1990's
- The system is paper-based, inefficient, and lacks critical functionality and agility

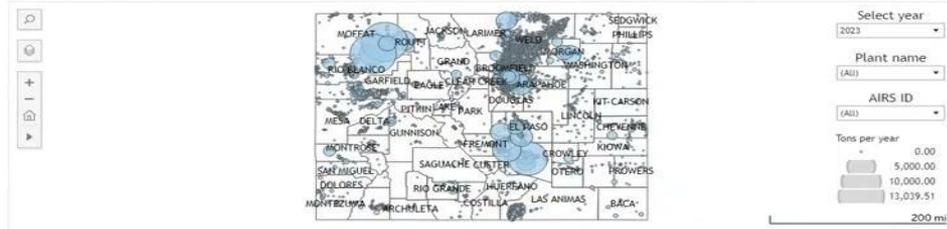
Stationary Sources System Project Summary

- Land Development Permit Application
 - Workflow & Automation - Data & Application Receipt - Document Generation within Salesforce - Completed
 - Harmonizing the user interface, forms, object models with the build for the Title V process - Underway
- Title V (Major Source) Permit Application Foundational Build
 - Initial Process Built, Two Digitized Forms, and Authenticated Web Portal for Title V - Completed
- Additional Process Build
 - Build for seven (7) Additional Processes - Underway
 - Integration between Salesforce and Hyland OnBase document product - Underway
- Data Lake Foundational Build
 - Architecture Design and Setup in Amazon Web Services (AWS) - Completed
 - Initial Data Migration from Largest Legacy Database System - Completed
 - Data pipeline connection between legacy db and new storage container - Underway
- Data Visualization & Citizen Engagement
 - Visualization tool presented to public and comments being received (Smart Comment)

Platform Demonstration

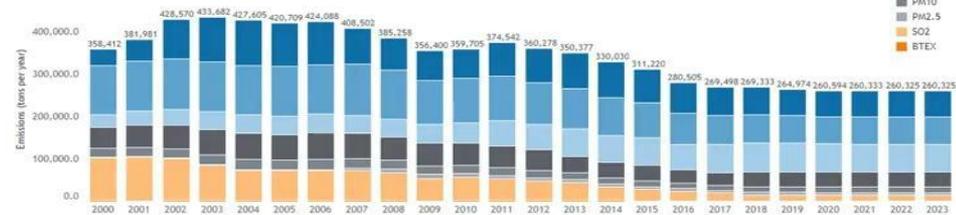
Active facility locations and aggregated emissions: 2023

*Emissions include only criteria pollutants (VOC, NOx, CO, PM, PM10, PM2.5, & SO2) and "BTEX" (Benzene, Toluene, Ethylbenzene and Xylenes)



Emission trends for all facilities in Colorado have stayed at the same levels over the last 6 years

*Individual facility emissions may vary
Displaying facility: All



Source: Colorado Air Inventory System (CAIS), Data updated 07/07/2023



Center For Health and Environmental Data Division

Vital Event System of Colorado (VESCO) Phase II Update

Project Update

HIDS Portal

- The Health Informatics Data System (HIDS) portal is currently undergoing a modernization effort to upgrade the portal to a cloud-based solution that will operate in Amazon Web Services (AWS). We are expecting the new portal to be functional by September 2023.

Marriage & Dissolution

- We are in the project planning stages to migrate our Marriage and Dissolution system from our current OIT servers to the HIDS AWS cloud-based portal solution. This is scheduled to be completed by March 2024.

Fetal Death

- We are exploring using the COVES vendor to add a Fetal Death module.

Project Update

ITOPS

- The new Induced Terminations of Pregnancy (ITOPS) system will also be placed in the HIDS portal and is scheduled for development after the Marriage & Dissolution system is complete with plans for it to be launched by July 2024.

EDR

- The new COVES (Colorado Vital Events System) will merge and upgrade both our birth and death registration systems to the latest web-based applications and resolve our outstanding technical debt. This new application will include a single sign-on for all users that need to register, modify or issue birth and death certificates instead of having to access 2 separate systems. COVES is on schedule to be deployed January 2024.

Next Quarter Expectations

By the next quarter, the expectations are that:

- the HIDS portal will be completed
- development of the new Marriage & Dissolution system will be in progress
- the new EDR system will be launched, resolving all outstanding technical debt

Thank you!

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