

# Modernizing the Colorado Oil and Gas Information System (COGIS)

## **Background**

The Energy and Carbon Management Commission (ECMC) is requesting cash fund spending authority to modernize its primary database system, the Colorado Oil and Gas Information System (COGIS). Some of the data available on COGIS includes the amount of oil and gas production, inspection information, and in some cases violation reports. Changing regulatory and operational needs have required the implementation of new features to existing applications and substantially increased both the volume of information the system must support and the complexity of the data system architecture. This has strained the ability to maintain data integrity and accessibility for stakeholders, including members of the conservation community, oil and gas operators, and concerned citizens. As such, the entire system is in need of an overhaul to accommodate new regulatory requirements, expanded data collection and reporting, and a new and stable application system. The ECMC is requesting \$2 million to modernize the system. Funding for this request will be cash funded and under current projections, will not require a fee increase.

### Problem

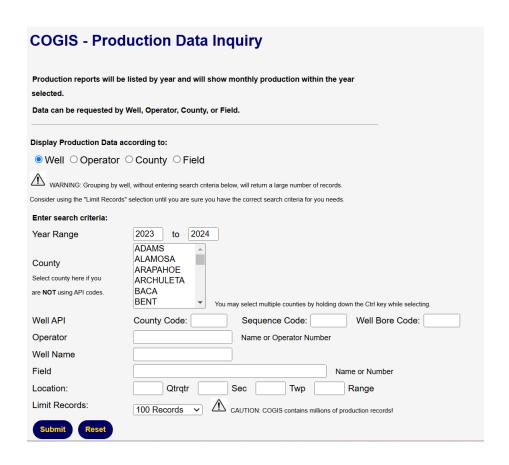
- The COGIS database was implemented in 1999. Over the past 25 years, increased data volume and application load have outpaced the periodic database system updates, resulting in inadequate stability and performance of critical COGIS tools and resources.
- COGIS users experience timeouts and sluggish responsiveness when using ECMC's many electronic forms resulting in inefficient regulatory processes.
- Decades of changing rules and regulations have created a complex relational database in which data integrity is more difficult to manage.

# **Proposed Solution**

Modernization of the COGIS system architecture will allow for improved customer interactions, better system performance, and improved data integrity and security, allowing ECMC to deliver continuous service availability to customers.

### Contact

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## **COLORADO OIL AND GAS INFORMATION SYSTEM (COGIS)**

## Inquiry

- Facility
- Sample Site
- Production
- Levy
- Inspection/Incident
- Operator Name, Address and Financial Assurance
- Local Governments
- Reclamation Inspection Status Report By Operator

<sup>\*</sup>The images above are screenshots of the COGIS system and online forms that are submitted through it.