

## Steamboat Carbon Storage Hub Project

Wyoming Energy Authority Energy Matching Funds Application

### Executive Summary

<b>Applicant:</b>	Meriden Carbon LLC (a Wyoming LLC)
<b>Project Team:</b>	University of Wyoming School of Energy Resources, Advanced Resources International, Energy & Environmental Research Center, Colorado School of Mines Payne Institute
<b>Project Location:</b>	Meriden, WY (Laramie County)
<b>EMF Request:</b>	\$ 9,491,295
<b>Total Project:</b>	\$ 18,982,591

### Project Overview

The Steamboat Carbon Storage Hub is a pioneering, landowner-led initiative in Laramie County, advancing Wyoming's "All-of-the-Above" energy strategy to maintain its leadership in dependable and efficient energy production. Spanning over 102,000 contiguous acres, Steamboat offers giga-ton scale geologic carbon storage to bolster Wyoming's coal, oil, and natural gas industries, ensuring their sustainability for decades to come. The project also lays the foundation for future power generation and infrastructure projects, enabling Wyoming to adapt to growing energy demands while preserving its economic and energy legacy.

### Strategic Objectives

1. **Geologic Validation:** Establish a scalable, permanent geologic carbon storage hub with a capacity to store more over 500 million metric tons of CO<sub>2</sub>. The Project's geologic data will prove the acreage within the Steamboat footprint and provide supporting data for surrounding lands. This is an opportunity to prove the viability of a national carbon storage hub, covering hundreds of thousands of acres on private land in SE Wyoming, amplifying impact for the State and attracting industrial investment to the area.
2. **Energy Leadership:** Promote and support the long-term viability of Wyoming's coal and natural gas fired power plants, such as the Laramie River Station, as well as Nebraska's Gerald Gentlemen Station, by providing cost-effective carbon storage solutions. Show the world how to prepare for the impending, unprecedented demand for fossil-fuel based power generation utilizing carbon capture and storage technologies.
3. **Community-Centered Approach:** Implement an industry first, landowner-led development model that ensures equitable benefits for local stakeholders while fostering widespread community support. Enhance Wyoming's energy resilience and economic stability through infrastructure development and job creation.
4. **Infrastructure Development:** Catalyze the development of CO<sub>2</sub> pipeline infrastructure, which will directly benefit existing regional power producers, enhanced oil recovery operations, and other carbon storage projects within Wyoming and neighboring states.

### Key Takeaway

The Steamboat Carbon Storage Hub is more than a carbon storage project – it sets a new standard for integrating advanced technology, community collaboration, and sustainable economic growth. The support of the Wyoming Energy Authority will drive Wyoming's "All-of-the-Above" energy strategy forward. This Project will prove one of the largest carbon storage hubs in the country and will help Wyoming meet the challenges of today, while also paving the way for Wyoming to lead the world in demonstrating a model for the future energy economy.

### Contact Information

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