Kevin Dome Storage Project Fact Sheet

Big Sky Carbon Sequestration Partnership
www.bigskyco2.org

KEVIN DOME CO_2 STORAGE PROJECT OVERVIEW	
Description	Montana State University submitted a proposal to the U.S. Department of Energy for a large scale CO_2 storage project in north central Montana. Kevin Dome is a geologic feature that covers 700 square miles and contains naturally occurring carbon dioxide (CO_2) that has been trapped in place for millions of years. The partnership will drill wells to take carbon dioxide from the dome and inject the gas into a rock layer that does not contain CO_2. This will allow the scientists to study rocks that have been previously exposed to CO_2 and rocks that have not had previous CO_2 exposure.
Project Goals	The overall goal is to demonstrate that Kevin Dome is a viable and safe target for regional CO_2 emissions. We also want to maximize state and community benefits.
Cost	The total project cost is $85 million. The U.S. DOE is funding $67 million and the private sector is contributing $18 million.
Source of CO_2	The CO_2 will be produced from a naturally occurring reservoir at Kevin Dome.
Project Duration	The project will initiate in 2011 and will be completed in 2019.
Public Involvement	We will have continuous interactions with the public throughout project lifecycle. We will regularly meet with individuals, groups, government to keep them informed of project activities and findings. We welcome community input and local knowledge. We will have a website and regular newsletters. We will be accessible to all.
Infrastructure to be built	For this project, BSCSP would drill five CO_2 production wells into the dome, build a six-mile, two inch pipeline to transport the CO_2 to a location north of the dome, and then drill four monitoring wells and one injection well.
Location Choice	Kevin Dome was chosen for this project because of the availability of CO_2 and the suitable geology. Additionally, private sector partners were interested in this area because of activities related oil and gas development.
Site Selection	This site was initially considered because of its natural source of CO_2. The BSCSP has conducted a previous study at the dome to learn more about the dome's properties and to assess whether it could potentially be a good site for a larger carbon storage project. The information learned in this study indicates that Kevin Dome has great potential to be large scale carbon storage site. Knowing that the CO_2 has already been trapped in place for millions of years indicate a safe permanent formation for additional CO_2. There is a long history of oil and gas development and we are able to utilize well data from over 8000 wells that have been drilled near the site.
Regulations	Permitting for all activities will be managed by Montana State University, Bison Engineering, and U.S. DOE. Permits and regulations will be coordinated with MT DEQ, MT Board of Oil and Gas, DNRC, BLM, USFWS, US EPA, and FWP.

Contact us by email at bigskyco2@montana.edu or phone at 406-994-3755 for more information.

LOCAL COMMUNITY BENEFITS	EXAMPLES
Economic	• Project will have a positive economic impact in Toole County for at least 8 years • Hires for drilling and other operations will be made locally – crews will not have to travel long distances to work • Money will be spent on local services (hotel, food, bars, mail, office, hardware supplies) • Money will be spent on fuel (propane, gas) for site • Several local companies are our subcontractors (Altamont, Bison) and they will be using local subcontractors • We will have a local field office
Local Recognition	• This site will generate a substantial amount of recognition within the state and Rocky Mtn. Region • This area will be known for being at the forefront of energy research – likely to be featured in some educational films, feature news outlets • There will be worldwide interest in this project • It will be one of six large scale carbon storage projects funded by the US DOE • The site will likely have high-profile government and other visitors
Local Learning Opportunities & Public Database	• A lot of information will be generated about this area – geologic, water, soils, air, economics, regulatory • New maps and graphics • Some Internship opportunities will be available • K-12 Student and teacher involvement will be encouraged and supported • There will be a workshop/conference open to the public every year • Public outreach will provide learning opportunities for local citizens
Continuous Open Communications with Locals	• We will hold public meetings throughout all stages and entire project life cycle • We will be available to meet with individuals, groups, government • Local input will be welcomed and considered in decision making • We will have regular open houses, community meetings and some site tours • Findings will be presented to community members in a timely fashion • Project will have website and newsletters
Valuing Community Resources	• Every measure will be taken to minimize disturbance to crops, local activities • We will conduct operations in the most appropriate weather season • The pipeline will be buried, follow county roads, will bore at crossings • Public will be notified in advance of any disturbances • Landowners will be compensated for site access/ any disturbance
Future Benefits	• This site could be developed further – the CO_2 could be used for EOR or CO_2 storage • This project will likely generate other research project in the area • This project could contribute to other energy development projects

Universities	Private Companies	National Laboratories
Montana State University	Schlumberger Carbon Services	Lawrence Berkeley National Lab
Barnard College	Vecta Oil & Gas Ltd.	Los Alamos National Lab
Columbia University	Altamont Oil & Gas Inc.	Idaho National Lab
Washington State University	SR2020 Inc.	
Oregon State University	Bison Engineering	