

Underground Coal Gasification (UCG) Documents

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Underground coal gasification (UCG) is the process of igniting coal in the ground then collecting and using the resulting gases. For more information, see [our issue article on underground coal gasification \(/Issues/AlaskaCoal/UndergroundCoalGasification.html\)](#). Several UCG projects are being considered in Alaska, primarily by Linc Energy Inc. and the UCG proposal at [Stone Horn Ridge by Cook Inlet Region Inc \(CIRI\) \(/Issues/AlaskaCoal/StoneHornRidgeUCG.html\)](#).

This page will serve as a repository for information related to UCG, and the related technology of [carbon capture and sequestration \(CCS\) \(/Issues/AlaskaCoal/Carbon-Capture-And-Sequestration-CCS.html\)](#)

UCG Documents

[“Need and Economics of UCG in Alaska: Estimated economics of the CIRI Underground Coal Gasification Facility, Beluga Alaska” \(2010\) prepared by Synapse Energy. 6 pages. \(/Documents/UCG/Synapse_UCG_Memo.pdf\)](#)

This report examines the economics of the CIRI UCG project with a detailed comparison to natural gas.

Underground Coal Gasification (UCG) Documents



[“Underground Coal Gasification: History, Environmental Issues, and the Proposed Project at Belgua, Alaska” \(2010\) prepared by Kendra Zamzow, PhD at the Center for Science in Public Participation \(CSP2\). 40 pages. \(/Documents/UCG/UCG-KZamzow-2010.pdf\) \(1.4 MB\)](#)

This detailed white paper discusses what is known about the CIRI UCG project ([/Issues/AlaskaCoal/StoneHornRidgeUCG.html](#)), as well as details of numerous test projects around the world. Both the history and environmental impacts of UCG are considered.

[“Potential Environmental Impacts of the Proposed CIRI Underground Coal Gasification Project, Western Cook Inlet, Alaska” \(2010\) prepared by Stratus Consulting. 39 pages. \(/Documents/UCG/Stratus_UCG%20Report.pdf\) \(1.6 MB\)](#)

This document examines the environmental risks associated with both UCG and carbon capture and sequestration (CCS) ([/Issues/AlaskaCoal/Carbon-Capture-And-Sequestration-CCS.html](#)) technologies. This detailed report goes from general risks and mitigation strategies to a specific discussion of what’s known about the CIRI UCG project ([/Issues/AlaskaCoal/StoneHornRidgeUCG.html](#)).

[“Technical and Cost Issues Associated with CIRI Underground Coal Gasification Project” \(2010\) prepared by Powers Engineering. 13 pages. \(/Documents/UCG/Powers%20Egr_CIRI%20UCG_feasibility_cost_report.pdf\)](#)

Underground Coal Gasification (UCG) Documents



This report looks at the history, technical feasibility, and economics of the proposed CIRI UCG project, both with and without carbon capture and sequestration (CCS) (</Issues/AlaskaCoal/Carbon-Capture-And-Sequestration-CCS.html>) technology.

Related Documents

“Carbon Capture and Sequestration: An Environmental Research and Position Paper” (2009) prepared by Kendra Zamzow, PhD at the Center for Science in Public Participation (CSP2). 40 pages. (</Documents/UCG/CCS-KZamzow2009.pdf>)

This paper provides a detailed look at the state of carbon capture and sequestration (CCS) (</Issues/AlaskaCoal/Carbon-Capture-And-Sequestration-CCS.html>) technology and development as of 2009. It examines both the economic feasibility as well as the environmental and safety consideration associated with the technology.