

# ADVANCED COAL & ENERGY RESEARCH FACILITY (ACERF)

Washington University in St. Louis

## Overview

The Advanced Coal and Energy Research Facility provides for pilot-scale research and development of new technologies for clean utilization of fuels. This 1 MW (thermal) facility is located on the campus of Washington University in St. Louis. ACERF has a unique test furnace for oxy-fuel applications, and is one of the largest facilities located at a university. ACERF is a user facility accessible to industry, faculty and students within the U.S. and abroad.

## Goals

- Develop and test clean technologies for pollution control and carbon capture and utilization
- Demonstrate how future power plants will mitigate atmospheric carbon dioxide
- Be a resource to educate students and the public

## Ongoing Research Activities

- Oxy-coal combustion
- Algae production using flue gas
- Biomass cofiring
- Mercury control
- Burner design & testing
- Fly ash utilization



For more information, contact

Ben Kumfer,  
ACERF Manager  
Consortium for Clean  
Coal Utilization

[cccu@wustl.edu](mailto:cccu@wustl.edu)

[www.cccu.wustl.edu](http://www.cccu.wustl.edu)

Sponsors  
Arch Coal  
Peabody Energy  
Ameren

