

Center for Advanced Energy Studies



CAES integrates resources, capabilities and expertise to produce secure sustainable energy solutions.

CAES is a public/private partnership that includes: the State of Idaho through its academic research institutions, Boise State University, Idaho State University, and the University of Idaho; the federal government through the Department of Energy; and, a private entity, the Battelle Energy Alliance, which manages the Idaho National Laboratory. Through its collaborative structure, CAES combines the efforts of these institutions to provide timely research on both technical and policy issues.

CAES engages in **fundamental and applied energy research** that contributes to the:

- Expansion of energy production from high-capacity, reduced-carbon sources, including support for a national renaissance in commercial nuclear power;
- Management of fossil fuel energy systems and emitted carbon through reuse, capture and storage, while responsibly expanding use of regionally abundant coal and unconventional hydrocarbon resources;
- Availability of carbon-neutral energy, such as biofuels, to support the expansion of renewable energy sources for transportation; and
- Stewardship of the environment during energy production, distribution and consumption and to increase understanding of key issues (e.g., water resource quality and availability, impact on public and private land, and continued economic growth in the arid West).



CAES educates the next generation of energy scientists, policy makers and the public while accepting and leveraging the values of those groups. CAES member institutions are working together to create unique educational opportunities that blend the talents and capabilities found at the Idaho Universities and the INL. This collaboration creates hands-on educational opportunities for students, scholars, and faculty. Working across institutional boundaries to promote energy education, CAES partners integrate curricula and share infrastructure to increase the number of energy professionals, to enhance technical capabilities, and to advance energy science.

CAES facilitates an informed dialogue involving the scientific community, the public, and government, leading to energy policy at a national, regional and State level. CAES supports policy-makers in their decisions and analyses and in understanding how policy shapes science and engineering. The CAES Energy Policy Institute (EPI), a home for energy-related policy research, analysis, and education, combines the talents of the four institutions' policy personnel. Policy researchers and analysts engage the public, the universities, industry, and government to develop energy policy that promotes secure sustainable energy solutions.

The CAES research facility, under construction, will co-locate university, national laboratory, private industry, visiting researchers and students. This facility opens in autumn, 2008.