



The CASE *for* CAES

February 20, 2007, was the moment that started a movement. On an icy afternoon, the first shovels of dirt were turned, and what was long a concept on paper, finally became a reality on the ground.

Backed by top officials from the U.S. Department of Energy, the State of Idaho, and regional public research universities, the Center for Advanced Energy Studies (CAES) was commissioned with urgent need and great anticipation.

Believing that only through a radical departure from the old, guarded ways of pursuing solutions to modern day challenges, CAES was born with one goal in mind. Take the best minds from across academia, national laboratories, and industry and bring them together, united by a single cause. Make tomorrow better through disruptive collaboration that magnifies impact and yields real solutions to the eminently complex challenges of energy security, safety, reliability, and resilience.

We believe the world is at a crossroads. Global energy use is growing, while traditional resources are declining, and the environmental impacts of our behavior are proving more consequential. If people are to live peaceful and prosperous lives, a new energy paradigm must be reached. At CAES, we see the global challenges that lie ahead, and we won't be satisfied until they're solved.

Mission

Our mission is to create a better energy future through inspired collaboration that cultivates energy leadership, ignites innovation, and catalyzes discovery.

Vision

We aspire to be recognized and respected as the place where the best minds from across the region gather to develop solutions and provide tangible results to some of the world's greatest energy challenges in a truly collaborative setting. By leveraging joint resources, capabilities, and expertise, our interdisciplinary team of engineers, scientists, faculty, and students passionately identify critical research goals and develop real technology and thoughtful policy, while producing a new generation of energy professionals.

At CAES, we live everyday with an intent to create a better energy future for you, for us, for tomorrow, through the power of partnership. Are you ready to join us?

What We Are and What We Do

CAES is a research, education, and innovation consortium bringing together Idaho National Laboratory, Boise State University, Idaho State University, the University of Idaho, and the University of Wyoming.

Headquartered in Idaho Falls, our hub-and-spoke model teams researchers, faculty, students, and industry professionals empowered to conduct innovative work with state-of-the-art equipment, labs and facilities, and collaborative space throughout Idaho and into Wyoming.

We focus on collaborating around regional energy challenges that have national and global impact.

Our facilities and expertise feature capabilities in Nuclear Energy; Energy-Water Nexus; Cybersecurity; Advanced Manufacturing; Innovative Energy Systems; Energy Policy; and Computer, Data, and Visualization.

How We Contribute

Our collaborative model attracts, educates, enables, and inspires students to embrace discovery, have an immediate impact on our shared energy future, and pursue cutting-edge energy-related careers.

Our efforts facilitate transmission of new ideas and products into the marketplace via connections with private industry and government to catalyze economic development and societal advancement.

Our programs support the development of a high-tech energy workforce by promoting life-long learning skills and technical knowledge through coursework, training, mentorship, and hands-on research opportunities.

Affiliated Centers

The CAES Energy Efficiency Research Institute (CEERI) promotes the effective and efficient use of energy resources in regional businesses and industries through outreach, accessible education, and cutting-edge research.

The CAES Energy Policy Institute (EPI) empowers decision-makers, fosters public dialogue, and conducts robust and timely research on energy innovation and policy implementation.

The CAES Technical Assistance Program (CTAP) provides fast, innovative solutions to complex technical problems facing local and regional businesses.



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