

The Joint Institute for Strategic Energy Analysis

Providing research and analysis to guide the transformation of the global energy economy

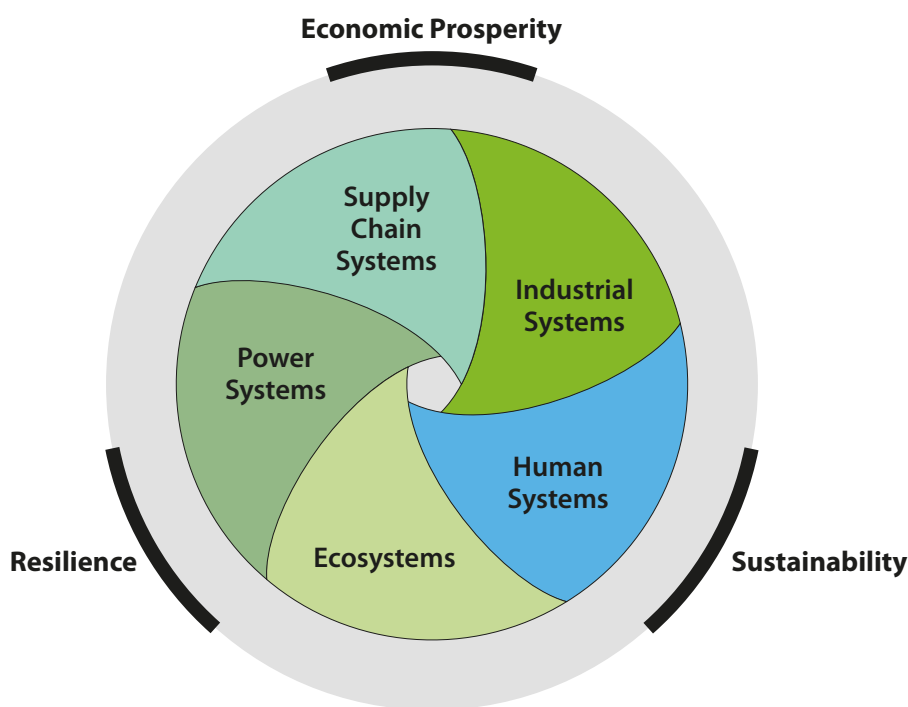
The Joint Institute for Strategic Energy Analysis (JISEA) provides leading-edge, objective, high-impact research and analysis to inform global energy investment and policy decisions. JISEA explores the intersections of the environmental, social, financial, technological, and political elements of energy systems. Focused on the nexus of energy, finance, and society, JISEA envisions a clean energy economy.

JISEA's Mission

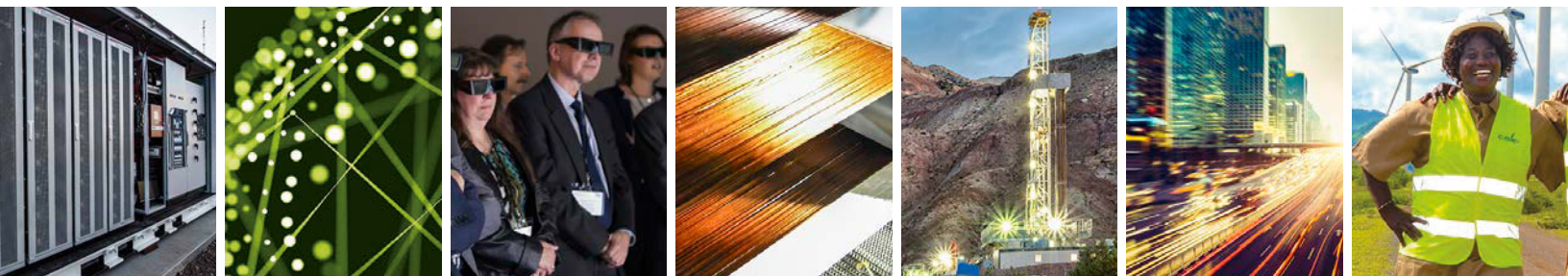
Guide the transformation of the global energy economy through analysis that:

- Informs global energy investment and policy decisions
- Incorporates social, behavioral, economic, and strategic insights
- Remains objective and unattached to a specific agenda
- Advances strategic worldwide dialogues.

From its inception, JISEA has provided critical clarity and insights to inform decision making through multidisciplinary research and objective, credible, cross-functional analysis. JISEA combines the unique capabilities of its founding institutions and research affiliates around the world to navigate complex issues, present unique perspectives, and continue to inform the landscape of transformation.



Spectrum of JISEA's work



JISEA's Work

JISEA's objective, comprehensive, seminal analysis provides decision-making support to industry, finance, and government. Current research areas focus on natural gas; clean energy manufacturing analysis; potential synergies of nuclear and renewable energy; and high-penetration renewable energy integration.

Power Systems: JISEA offers its expertise to help countries transition to an advanced energy system.

- JISEA and the National Renewable Energy Laboratory collaboratively lead the 21st Century Power Partnership (21CPP), which is a multilateral initiative of the Clean Energy Ministerial to transform power systems globally. 21CPP advances integrated solutions for large-scale renewable energy deployment, energy efficiency, and grid modernization and engages in research and technical assistance activities to accelerate policy and regulatory strategies. Learn more at: www.21stcenturypower.org.
- JISEA supports the China Grids Program, which is a 5-year, collaborative program that assists with China's transition toward an advanced energy system that enables high penetrations of renewable energy and allows China to reach its clean energy goals.

Supply Chain Systems: Global supply chains exist at the foundation of a strong clean energy economy. As new energy technologies show potential for lower costs, higher efficiencies, and reduced footprints, JISEA's Clean Energy Manufacturing Analysis Center (CEMAC) works to analyze and quantify the supply chains from critical materials to final product. These insights are key to informing research programs, international trade issues, and investment decisions. Learn more at: www.manufacturingcleanenergy.org.

Industrial Systems: JISEA and the International Energy Agency's (IEA's) Gas and Oil Technologies Program help the oil & gas industry work with the renewable energy industry to continue to advance synergistic advanced energy solutions, such as incorporating renewable generation into oil and gas operations, recovering waste heat and water more efficiently, and optimizing the delivery of gas and renewable electricity for utilities.

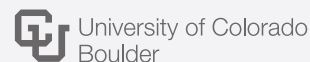
JISEA's publications contain innovative, strategic insights; explain their real-world implications; and inform policy and investment decisions. The publications include reports, conference papers, journal articles, webinars, and presentations. View JISEA's publications at www.jisea.org/publications.html.

Work with JISEA

JISEA offers exceptional analytic capabilities and value. JISEA conducts research for and with its founding partners, with a global network of research affiliates, for federal and state agencies, and for global sponsors. By drawing on the skills and resources of its founding institutions—Colorado School of Mines, Colorado State University, Massachusetts Institute of Technology, National Renewable Energy Laboratory, Stanford University, and University of Colorado—JISEA offers research and analytical capabilities that exceed those of any single institution. Contact jisea.coordinator@jisea.org for more information on partnering with JISEA as a sponsor, research affiliate, or research fellow.



Massachusetts Institute of Technology



JISEA is operated by the Alliance for Sustainable Energy, LLC, on behalf of the U.S. Department of Energy's National Renewable Energy Laboratory, the University of Colorado-Boulder, the Colorado School of Mines, Colorado State University, Massachusetts Institute of Technology, and Stanford University.

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