



JISEA

Joint Institute for
Strategic Energy Analysis

Clean Energy Workforce:
From 'we need workers' to actionable strategies

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Staying Ahead of Future Energy Challenges

Through innovative, collaborative approaches, the **Joint Institute for Strategic Energy Analysis (JISEA)** integrates diverse voices from research, universities, nonprofits, and industry to identify and build expertise around emerging, complex energy system challenges.



Innovative Approaches to Complex Energy Systems Challenges



American-Made Program



Collaboratives



Catalyzers

Research Focus

JISEA focuses on the clean energy implications of emerging trends in climate, technology, and society.

JISEA recognizes the criticality of scaling up early efforts to address these challenges before they evolve into major threats to the energy system transformation.



Climate Adaptation and Clean Energy

The effects of climate change on the efficiency, security, and resilience of the energy system.



Hard-to-Decarbonize Industries

Strategically building toward clean energy solutions in the agriculture and industrial sectors



Technology/Society Interface

The societal implications of the advancement of clean energy technology.



Workforce for the Future

The scale and scope of future clean energy workforce needs.

Challenges of Clean Energy Workforce

- 1) Dynamic and Place Based Energy Systems: Reskilling, upskilling, skilling, and credentialling, oh my!
- 2) Workers Now and the High Road: Urgency of the Challenge versus (?) Community Benefit
- 3) Data Availability, Granularity, Analysis Options, and Narrative differences
 - 1) Workforce demand is aggregate and workforce supply is individual: mismatched scale, needs, and uses for data
 - 2) Measuring effective workforce development programs