A person wearing a cowboy hat and a purple shirt stands with their back to the camera, looking out over a vast field of golden wheat. In the distance, several wind turbines are silhouetted against a vibrant sunset sky with orange and yellow hues. A single tree stands in the middle ground to the right.

# Carbon Neutral: Regional & National Strategies

Panelists: Kate Bowman, Matt Cox

Moderator: Joyce McLaren

GreenTown: Climate Crisis Event

September 23, 2020

# National Renewable Energy Laboratory

2,307

## Employees

plus more than

**460**

early-career researchers  
and visiting scientists



## World-class

facilities, renowned  
technology experts

about  
900

## Partnerships

with industry,  
academia, and  
government



## Campus

operates as a  
living laboratory



# NREL Science & Partnerships Drive Innovation



## Renewable Power

Solar  
Wind  
Water  
Geothermal  
Hybrid Systems



## Sustainable Transportation

Bioenergy  
Vehicle Electrification  
Hydrogen for Transport  
Vehicle-Grid Interactions



## Energy Efficiency

Buildings Technology  
Advanced Manufacturing  
Government Energy Management  
Grid-Interactive Efficient Buildings



## Energy Systems Integration

Grid Integration  
Energy Security  
Resilience  
High Performance Computing



## SOLAR ENERGY INNOVATION NETWORK

A collaborative research program that supports multi-stakeholder teams to research and share innovative solutions to real-world challenges associated with solar energy adoption.

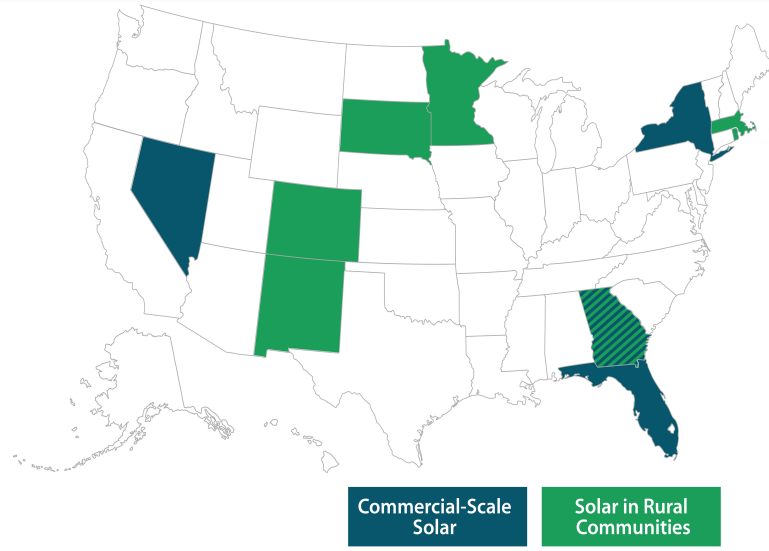
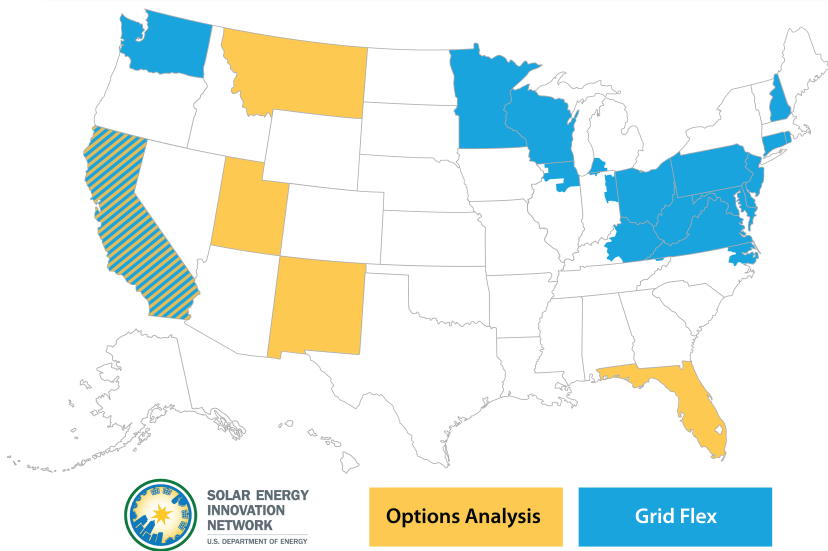
- Multi-stakeholder teams identify local and regional challenges
- Teams receive technical and financial assistance to formulate and test solutions and validate new models
- Teams meet regularly and attend quarterly workshops to gather feedback and learn from other teams
- Research and solutions shared with other stakeholders nationally



Lawrence Berkeley  
National Laboratory



# SEIN Round 1 & Round 2 Teams



Solar for System Resilience & Restoration

Locational Value of Solar

Advanced Rate Structure Design

Solar for Clean Electric Transportation

Prioritizing Energy Goals and Pathways

Solar Interconnection Cost Reduction

Community-led Solar Planning

Solar + Storage for Microgrids & Facility Backup

Overcoming Barriers to Community-Solar



Joyce McLaren (Moderator)

Research Analyst

National Renewable Energy Laboratory

Kate Bowman (Panelist)

Renewable Energy Program Manager

Utah Clean Energy

Matt Cox (Panelist)

Founder & CEO

Greenlink Analytics