



Sustainable and Resilient Communities Table Topic

Moderators: Liz Weber, Liz Ross

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Table Topic : Sustainable and Resilient Communities



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Communities Catalyzer; PhD
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REFLECTIVE: using past experience to inform future decisions



RESOURCEFUL: recognizing alternative ways to use resources



ROBUST: well-conceived, constructed and managed systems



REDUNDANT: spare capacity purposely created to accommodate disruption



FLEXIBLE: willingness and ability to adopt alternative strategies in response to changing circumstances



INTEGRATED: bringing together a range of distinct systems and institutions



INCLUSIVE: prioritizing broad consultation to create shared ownership in decision-making

Characteristics of Resilience : How communities are improving the resilience of their energy systems



Generate renewable biogas while addressing environmental concerns at a Colorado dairy



Save & generate energy by incorporating solar technologies in greenhouse design

Energy and Agriculture Case Studies

Two case studies funded by the Colorado Department of Agriculture and the Colorado Energy Office highlight the diversity of approaches to saving energy, reducing environmental impact, and improving the energy economics for Colorado farms.

JISEA's Sustainable Communities Catalyzer

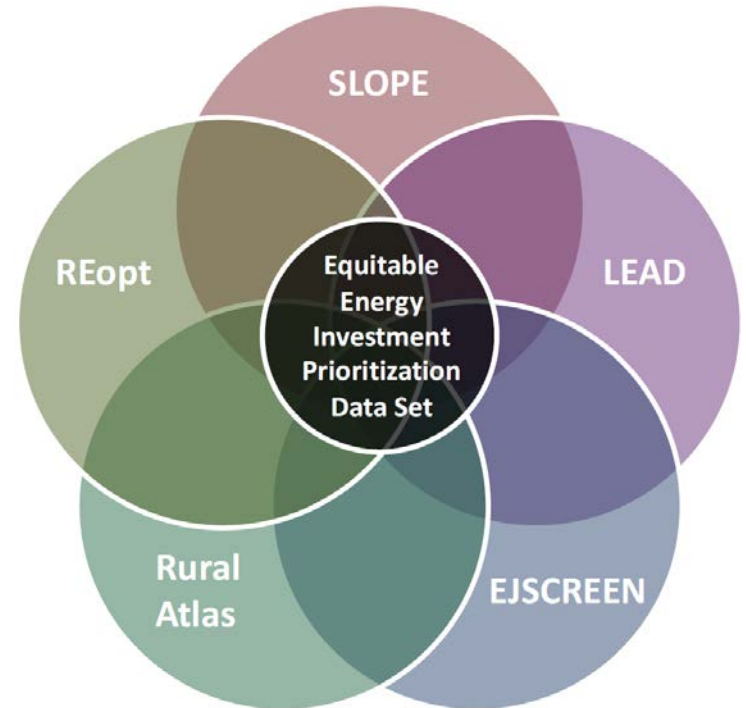


Advance understanding of social, economic, environmental, and land use impacts of clean energy transition and map pathways for sustainable, equitable transitions, with a focus on rural and disadvantaged communities.

Lead PI: Megan Day, NREL

Project 1: Intersecting disadvantaged community (DAC) metrics with renewable energy (RE) deployment potential metrics

- Products:
 - **Data set** published in NREL's Data Catalog (<https://data.nrel.gov/submissions/175>)
 - **Paper** describing initial analyses published in Renewable Energy Focus Journal (<https://doi.org/10.1016/j.ref.2022.02.002>)
- Snapshot of results:
 - Identified broad patterns by correlating RE metrics with DAC metrics
 - Communities can identify their relative need and potential for RE development



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Project 2: Best practices and lessons learned in NREL's work with communities

- Communities increasingly need technical expertise and assistance in managing the energy transition at the local level
- We compiled recommendations developed by synthesizing interviews and a literature review, intended to inform and coordinate NREL's clean energy planning work and to support others in this space



Thank you

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