



Geothermal Community Gardens

Presentation to Colorado
Association of Ski Towns

October 9, 2025

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About Yampa Valley Sustainability Council



Energy

Reduce overall energy use and increase transitions to low or no-carbon energy systems in residential and commercial buildings throughout the Yampa Valley.



Transportation

Increase access to and use of multi-modal transportation and transitions to low or no-carbon transportation systems throughout the Yampa Valley.



Resilient Land and Water

Reduce greenhouse gas emissions and build climate resilience through land and water management actions, including opportunities to increase carbon sequestration.



Community Engagement

Empower individuals, governments, businesses and organizations to connect their knowledge of how the Yampa Valley is changing to actions that collaboratively conserve resources, increase resilience and reduce emissions throughout the Yampa Valley.



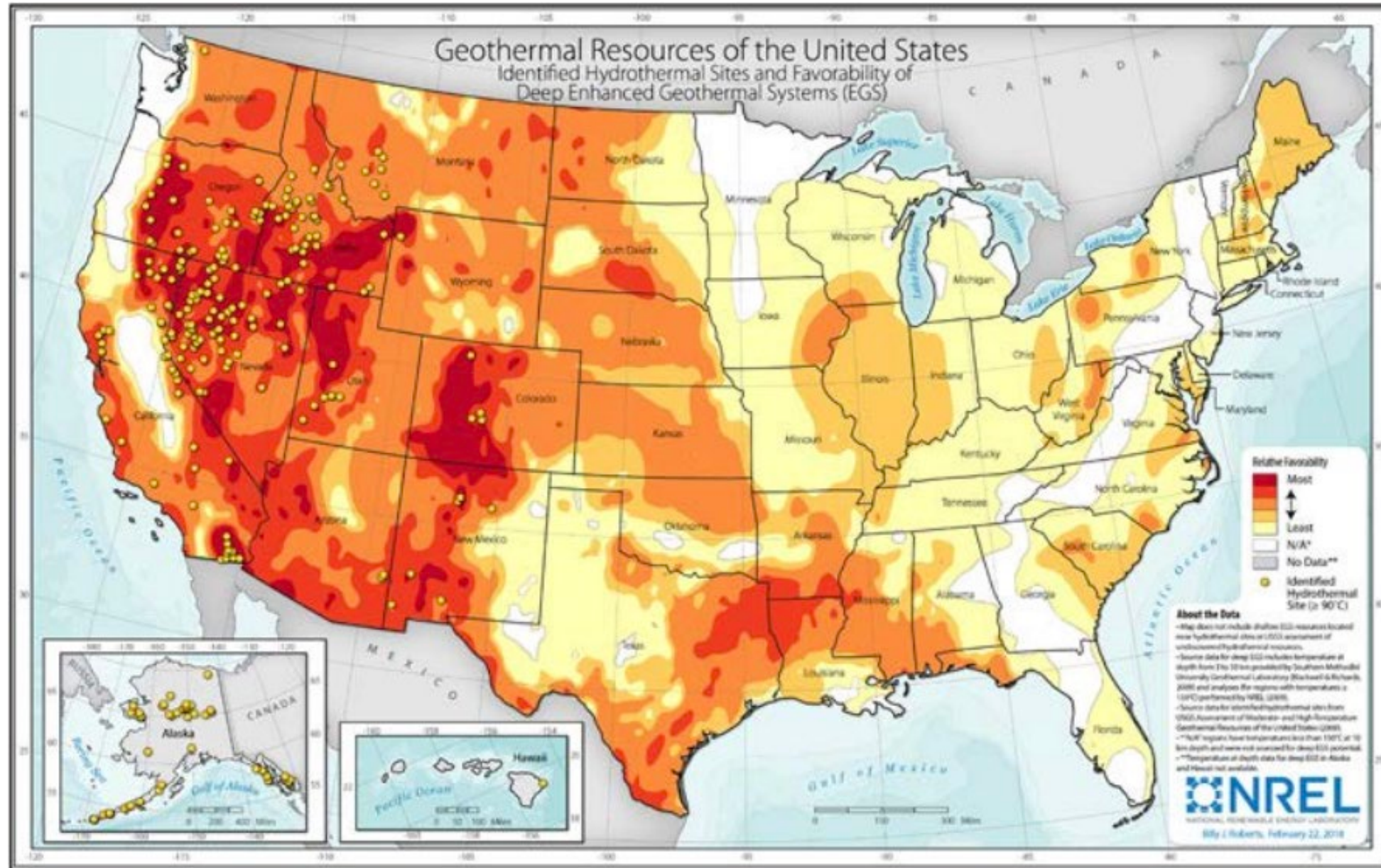
Waste Diversion

Increase regional recycling, composting and waste reduction in Routt and Moffat County.



Geothermal Resources of The United States

(Source: National Renewable Energy Laboratory, 2018)



State
Initiative
Launched
in 2022



The Heat Beneath Our Feet

INITIATIVE

Forging a Path Forward with
Enhanced Geothermal Systems

Why Geothermal in Colorado?

Colorado has a goal of **net-zero emissions by 2050**, including achieving 80% renewable electricity by 2030 and 100% by 2040

- Geothermal energy is the most efficient means of heating and cooling, which **reduces peak demand** and **supports rapid grid electrification**
- A lower life cycle cost and predictable return on investment **reduces energy burden** for families and businesses alike
- Geothermal energy is a key tool for **community resilience** in the face of extreme weather events, which can keep both the lights and heat on
- Geothermal electricity is a **carbon-free, renewable and consistent electricity resource** which will help decarbonize our electric grid

State of Colorado Legislation – Community Geothermal Gardens

Senate Bill 22-118 (2022)

- Established Community Geothermal Gardens program
- Modeled after 2010 community solar gardens legislation
- Allows geothermal facilities <5 MW (potentially up to 10MW) to generate electricity for community subscribers and offer useful thermal energy (i.e. waste heat)

State of Colorado Legislation – Community Community Gardens

Senate Bill 22-118 (2022) - Rural Electric Co-ops

- "(8) Applicability to cooperative electric associations

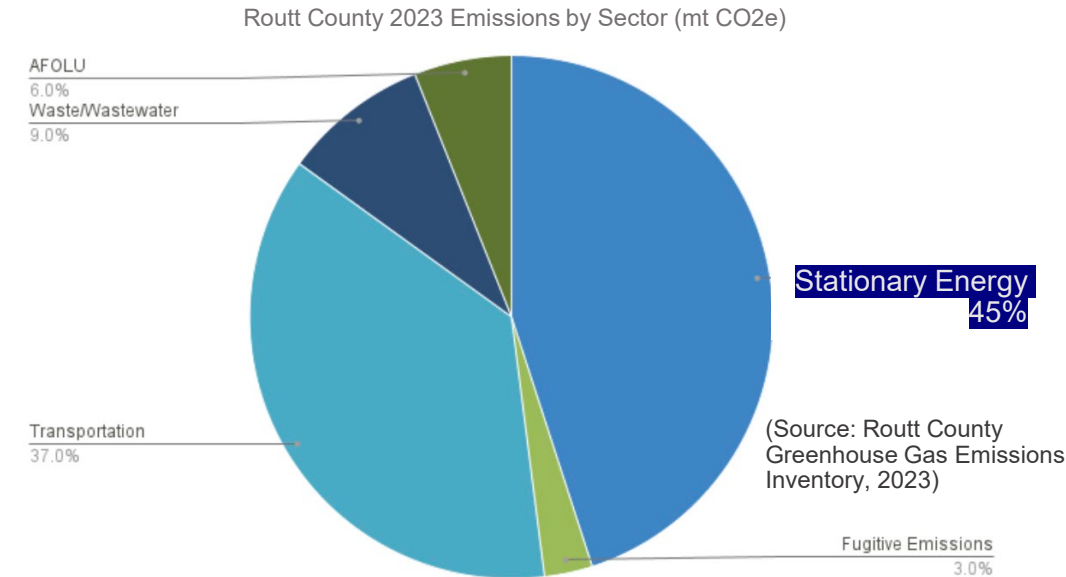
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This section shall not apply to cooperative
electric associations”

State of Colorado Legislation – Community Community Gardens

Senate Bill 22-118 (2022) – End Goals

- Broaden the development and use of community geothermal gardens to reduce stationary emissions
- Key stakeholders in the Yampa Valley are interested in the program (i.e. Steamboat Ski Resort, Yampa Valley Housing Authority, etc.) and garden development



State of Colorado Legislation – Community Community Gardens

Senate Bill 22-118 (2022) - Considerations

- Draft legislative language that changes the statute
- Include right-of-first-refusal language to provide flexibility to co-ops

Questions? Continue the Conversation with YVSC



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