**U.S. Department of Energy (DOE)  
Clean Energy to Communities (C2C) Program**

Summary of Technical Assistance (TA) Support

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| Icon  Description automatically generatedBuildings |
| Icon  Description automatically generatedClean Power |
| Climate Mitigation and Resilience |
| Cross-Sectoral Justice |
| A picture containing text, clipart  Description automatically generatedJobs and Economic Development |
| Icon  Description automatically generatedMobility |

**Raymond, New Hampshire**

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From April through August 2023, Oak Ridge National Laboratory provided technical support to the Raymond, New Hampshire, planning committee to inform the designs and decisions for a geothermal modeling project. Specifically, the expert team conducted the following tasks:

* Assist with geothermal project design
* Consulted on a proof-of-concept for clustering around multiple mobile homes with a geothermal system.
* Facilitate conversation with geothermal contractors
* When appropriate and as needed, lab experts supported the community in conversations with potential contractors.

This analysis assisted the community in developing proposals for funding opportunities, partnerships, and community engagement to enable them to move into the next steps of this development process.

 Impact

The technical assistance and engagement with experts were key to informing the design of the geothermal modeling project. According to the expert analysis, if their plans are adopted there will be an overall savings of $1,142/year for 16 homes compared with the baseline heating, ventilation, and air conditioning system and with a 6-year payback period. A member of the community team said the experience was “exceptional” and that they wish they had known “about U.S. DOE activities 25 years ago [as] they might have had a different career.”

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**Background**

Ann Arbor is a city of approximately 122,000 people located in southeast Michigan. The city and its residents are leaders in sustainability and climate action. Their A2ZERO Climate Action Plan outlines their just transition pathway to community-wide carbon neutrality by 2030. With equity as a focus, they are implementing strategies to improve home energy efficiency (EE) and electrify appliances. Toward this, the city wants to explore community geothermal heating and cooling to serve a variety of building types including rental and affordable housing. The city has applied to DOE’s Geothermal Heating and Cooling Design and Deployment program and garnered the support of City Council to pursue these projects, but they need to understand the concept’s feasibility in order to make a “go, no-go” decision.

At the end of 2022 the Raymond, New Hampshire, had been working with local industrialists to develop various clean energy projects. They reached out to Expert Match to support them on their planning journey.

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Description automatically generated with low confidence Expert Match Team

**Alexandra Kramer**  
Community Lead, Main Expert Match Point of Contact, NREL

**Xiaobing Liu**  
ORNL Expert

**Jamie Lian**  
ORNL Expert

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Description automatically generated Community Team

**Dan Roy**  
New Hampshire Planning Board, Raymond

For more information, visit:  
**energy.gov/eere/clean-energy-communities-program**

August 2024