**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 |

**Centennial, Colorado**

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From November 2023 through May 2024, the National Renewable Energy Laboratory (NREL) provided technical assistance in two different areas:

* Solar Techno-Economic Analysis: REopt® techno-economic analysis of solar and solar-plus- storage systems for this building. The scenarios considered include both solar and storage, including rooftop only and rooftop plus parking area solar. The analysis also included a range of financial factors.
* Review of Light-Emitting Diode Conversion Costs: An independent analysis of street light conversion costs or review of the contractor audit.

 Impact

This technical assistance effort supported Centennial with the information need to move forward on their streetlight conversion project. The solar analysis equipped Centennial to move forward with solar on their Public Works Facility. A picture containing clipart

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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.

Centennial, Colorado, is in the Denver metropolitan area and has a population of approximately 100,000. The Denver metro area experiences high levels of ozone-causing pollution and has frequent Ozone Action Day Alerts. Centennial would like to contribute to reducing greenhouse gases in the area. The city is interested in exploring installing solar photovoltaics in its Public Works Facility.

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Description automatically generated with low confidence Expert Match Team

**Evan Savage**  
Community Lead, Main Expert Match Point of Contact, NREL

**Kathleen Krah**  
REopt Engineer and Model Lead, NREL

**Sika Gadzanku**  
C2C Expert Match Program Manager, NREL

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**Wyatt Peterson**  
Senior Strategic Advisor

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

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