**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 |

**Kulpmont, Pennsylvania**

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At From October 2023 through February 2024, Argonne National Laboratory (ANL) provided technical assistance to Kulpmont, a borough in Northumberland County, Pennsylvania, in three different areas:

* Solar Modeling: Techno-economic solar analysis for three different sites of a system designed to meet borough and sewer authority loads with and without fuel switching
* Fuel-Switching Modeling: Building modeling to estimate the cost of switching borough buildings and the sewer authority to electrified heating
* Regulatory Review: Analysis of the net energy metering and other utility rules and regulations that impacted siting of the solar facility.
* Impact

This technical assistance equipped Kulpmont with the information needed to decide where to site a solar facility, seek bids, and decide whether to pursue electrified heating of their buildings. Kulpmont has been trying to build a solar site since 2016, and the community representative expressed that after receiving Expert Match technical assistance that they “think development of solar is going to go through at this point.”

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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.

Kulpmont is a borough in Northumberland County, Pennsylvania, with a population of approximately 3,000. Currently, electricity consumption makes up more than 10% of the borough’s annual budget. To address the high cost of energy, Kulpmont Borough is pursuing solar power and electrified heating to reduce energy costs and convert to clean energy.

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Description automatically generated with low confidence Expert Match Team

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

**Zhi Zhou**  
Principal Computational Scientist, ANL

**Neal Mann**  
Energy Systems Engineer, ANL

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

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**Stephen Motyka**  
Councilman

**Mardi Klevs**  
Environmental Protection Network, Support to Kulpmont Borough

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

August 2024