

## Commitment for Better Communities Resource Opportunity for Digital Building Energy Maps

Through the **Better Communities Alliance** (BCA), the U.S. Department of Energy is introducing *Commitments for Better Communities*, a partnership initiative to help match resources from public and private sector organizations to local government needs. The outcome of this initiative is an expansion of resources for communities that support their achievement of local energy and economic goals, while enabling participating public and private sector organizations to demonstrate innovative solutions.

**Resource Opportunity Title:** Digital Building Energy Maps

**Organization:** Advanced Energy Intelligence (AEI)

**Contact:** Carl Popolo ([cpopolo@aeintelligence.com](mailto:cpopolo@aeintelligence.com))

**Organization Description:** AEI is a group of energy professionals working on energy data analytics from the district level down to the HVAC systems in individual buildings. AEI delivers solutions at the portfolio level to cities, towns and campuses, as well as building automation insight, real-time metering and submetering solutions at the building level. AEI's philosophy is to work with the data you have today, letting the early insights direct your team toward the best energy savings opportunities. AEI's Energy Maps do this by evaluating dozens or hundreds of buildings in a portfolio based on a wide range of metrics based on monthly utility bills and main meter interval data, pointing the way to the buildings that have the most potential for improvement. The company has worked on hundreds of projects in the FEMP, municipal, university, school, hospital and commercial sectors delivering energy intelligence through data analytics. For more information, visit [www.aeintelligence.com](http://www.aeintelligence.com).

**Summary of Resource Opportunity:** AEI will build online, dynamic energy maps displaying key energy metrics for either public facilities or specific districts (such as a 2030 district) within a community for up to five communities. Each energy map is a customized and comprehensive tool that allows multiple users in cities, towns, campuses and large commercial portfolios to participate in a data-driven process to manage energy and water usage across a large portfolio.

For a real estate portfolio that already has monthly utility billing data in a comprehensive and standard form, an AEI Energy Map can show energy and water usage in terms of commodity usage, MMBtu, cost per square foot, EUI, CO<sub>2</sub>e, and many more metrics all delivered in an easy-to-use interactive visualization. For the facilities with time-of-use utility main meter interval data, communities can drill down into specific buildings for more detailed information, including peak demand and usage; the ratios for night and weekend setback; and relationship to the coincident grid loads and time-based weather to see how individual buildings are being operated. For more information, visit [www.aeintelligence.com/doe-bca](http://www.aeintelligence.com/doe-bca).

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# Application Form for Local Government Partners

1. NAME OF LOCAL GOVERNMENT AND STATE.

2. DESCRIBE YOUR INTEREST IN THE INDICATED OPPORTUNITY AND HOW IT SUPPORTS THE ACHIEVEMENT OF LOCAL ENERGY AND/OR ECONOMIC GOALS.

3. INDICATE THE APPROXIMATE TIMEFRAME (START AND END DATES) IN WHICH YOU EXPECT TO IMPLEMENT THE INDICATED OPPORTUNITY.

4. STATE THE NAME, TITLE, AND DEPARTMENT OF THE INDIVIDUAL(S) ASSIGNED TO WORK ON THE OPPORTUNITY.

5. IDENTIFY THE APPROXIMATE NUMBER OF BUILDINGS AND FLOOR AREA (SQUARE FEET) IN YOUR PORTFOLIO TO BE PART OF THE ENERGY MAP.

6. DESCRIBE THE NATURE OF ANY AVAILABLE UTILITY BILLING DATA:

A. ELECTRONIC FORMAT (SUCH AS XLSX, CSV)?

B. AVAILABLE THROUGH AN ONLINE SERVICE OR APPLICATION FOR DOWNLOAD?

C. HOW MANY BUILDINGS ARE ON A "TIME OF USE" RATE SCHEDULE WITH THE LOCAL UTILITY, AND IS THE "INTERVAL DATA" AVAILABLE FOR DOWNLOAD FROM THE UTILITY?

7. IDENTIFY THE NAME OF YOUR UTILITY PROVIDERS AND APPROXIMATE ANNUAL SPEND (OPTIONAL):

ELECTRICITY

PROPANE

GAS

OIL / DIESEL

WATER

8. IDENTIFY ANY ADDITIONAL INFORMATION THAT YOU WISH TO CONVEY TO AEI RELATED TO YOUR FACILITIES, SUSTAINABILITY GOALS OR COMPLIANCE REQUIREMENTS, EXISTING THIRD-PARTY SERVICES, OR OTHER TOPICS: