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DANE COUNTY EXECUTIVE

Office of Energy and Climate Change

Director – Keith Reopelle

Memorandum

October 10, 2017

TO: Josh Wescott
FR: Keith Reopelle
RE: Potential Energy Economic Development Fund Projects

Keeping the focus of the Energy Economic Development Fund (EEDF) on planning and services (as opposed to capital investments) consistent with the BUILD Program's historic focus, there are a wide variety of potential projects that one could imagine with the potential to deliver a variety of economic development benefits. This is not a comprehensive list, but a variety of examples to give you a sense:

1. Traditional Planning Efforts

This could take many forms. At a very broad level, some cities and villages in Dane County have sustainability plans in place but many do not and the EEDF fund could support the energy aspects of a new or updated sustainability plan. It could also support a deep dive on the energy aspects of traditional BUILD program supported planning effort for urban infill. It could support planning for a micro-grid within a Dane County community that contains a concentration of critical facilities and vulnerable facilities.

2. Energy Analysis

If a community has a more well defined idea of particular ways it wants to develop advanced energy systems within it's jurisdiction it may need analysis to help if determine the feasibility of a particular goal. This could include energy analysis or feasibility studies for the development of wind farms, solar arrays, a micro-grid, bio-energy production, energy storage facilities, or some combination of these technologies.

3. Energy Audits

A community may have an interest in improving the efficiency and performance of a large municipal building or a suite of buildings; here an energy audit may be particularly helpful. This fund is large enough, with matching funds, to underwrite several ASHRAE Level 1 energy audits which:

- Establishes an energy consumption baseline
- Quantifies energy usage according to its discrete functions
- Creates a benchmark with similar facilities under similar weather conditions;
- Identifies existing energy cost reduction opportunities
- Compares where a building performs relative to industry peers
- Determines whether further evaluation is warranted and how to focus that effort
- Estimates the range of energy and dollars savings
- Details available financial incentives for retrofits

4. Retro-commissioning

Retro-commissioning is a process to improve the efficiency of an existing building's equipment and systems. It can often resolve problems that occurred during design or construction, or address problems that have developed throughout the building's life as equipment has aged, or as building usage has changed. Retro-commissioning is attractive because it typically results in immediate energy savings and there for immediate cost savings to the building owner. Retro-commissioning drives deep, lasting energy savings for owners and managers of existing buildings by taking a holistic approach to energy efficiency. These serves target building systems, energy-using equipment, and operating schedules, optimizing how these elements perform together.