



## Combined Heat and Power (CHP) Grant Awardee Listing Fiscal Year 2021 (FY21)

The application period during which each Awardee applied is noted as “AP 1” (Application Round 1) or “AP 2” (Application Round 2). Awards are listed in the order in which they were executed with MEA.

<b>Applicant</b>	<b>County</b>	<b>Amount</b>
University of Maryland Medical Center	Baltimore City	\$650,000

**(AP 1)** - The University of Maryland Medical Center (UMMC) provides critical, cutting-edge medical care to countless Marylanders which requires uninterrupted access to a reliable, continuous source of electricity and thermal energy to power hospital operations and safeguard the life and safety of its patients, staff, and visitors. To enhance the sustainability and resilience of its energy sources, UMMC has been awarded a \$650,000 FY21 MEA CHP award to offset the cost of installing a 1,982 kilowatt (kW) CHP system. This highly-efficient system will supply electricity and thermal energy to essential hospital equipment in both normal and grid outage situations.

Becton-Dickinson and Company (BD)	Baltimore County	\$650,000
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**(AP 1)** - Becton-Dickinson and Company is a medical technology company that earlier this year announced an antigen test that helps to detect the COVID-19 virus. Located in Cockeysville, the company will use their \$650,000 award to enhance operation sustainability and diminish power outages. This new 2,000 kW CHP system will satisfy nearly half of annual electricity consumption needs, plus produce necessary hot water and steam. The system will also serve critical facility equipment during power outages, enabling production to continue at 50% capacity even in a blackout.

ITility, LLC	Somerset County	\$120,000
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**(AP 1)** - ITility, a Veteran-Owned Disabled Small Business specializing in a variety of services including renewable energy system development, received a \$120,000 FY21 MEA CHP award for an innovative project fueled by 100% renewable energy derived by onsite-produced biogas. Partnering with Elceed Farm in Somerset County, ITility will design and install a 27 kW renewable natural gas (RNG) system. The RNG will be produced in an onsite anaerobic digester that utilizes the farm’s chicken manure, allowing for increased nutrient management. The CHP system will provide the farm with approximately 75% of its annual electricity, and the thermal energy will be used to help the anaerobic digester optimally operate. The project holds high potential for replicability and scalability in Maryland’s agricultural industry.



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District Farms, LLC	Frederick County	\$491,700
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**(AP 2)** - District Farms is a Frederick, MD-based lettuce farm that has received a \$491,700 FY21 MEA CHP award to install a 894 kW CHP system to provide sustainable, resilient electricity and thermal energy to its hydroponic greenhouses. The system will supply approximately 95% of annual electricity and the heat output will be used to create hot and chilled water for space conditioning and other water applications. The CO<sub>2</sub> produced by the system will also be captured and used to help enhance the quality of the lettuce, creating value-added, locally-sourced produce that is sustainably grown. The CHP system is part of a larger planned resilient facility power system that incorporates solar PV and battery storage, for which District Farms received an inaugural [FY20 Resilient Maryland planning and design award](#) from MEA.

Redmed, LLC	Howard County	\$317,300
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**(AP 1)** - Redmed, a subsidiary of Verano Brands, operates a state-of-the-art medicinal cannabis facility in Howard County. With sustainability in mind, and a product that requires substantial energy for optimal output and quality, Redmed has pursued multiple energy projects to enhance operational efficiency and source energy from clean, resilient sources to keep its costs and carbon footprint low. They have received a \$317,300 FY21 MEA CHP award for the installation of a 2,000 kW CHP system that will provide electricity for virtually all of the lighting and cooling loads at the facility, as well as the ability to continue operation in the event of a grid outage. This added resilience capability will safeguard Redmed from catastrophic crop losses by ensuring that growing conditions are kept optimal at all times. Redmed was also the recipient of a FY17 [Commercial, Industrial & Agricultural Energy Efficiency](#) award from MEA for the installation of multiple, highly-efficient energy conservation measures.

Bethesda North Marriott & Conference Center	Montgomery County	\$363,000
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**(AP 2)** - The Bethesda North Marriott & Conference Center, located in Rockville, requires continuous access to reliable, affordable electricity and heat energy in order to ensure the satisfaction of guests and attendees. To enhance the cost-effectiveness and resilience of their operations, the property received a \$363,000 FY21 MEA CHP award for the installation of a 550 kW system. It will produce electricity to satisfy approximately 60% of annual consumption needs, and the heat output will be used to enhance the efficiency of hot water production.



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Hickory Plains, LLC

Frederick County

\$600,000

**(AP 2)** - Hickory Plains, LLC is planning the installation of a Controlled Environment Agriculture hydroponic greenhouse facility in Ijamsville, which will produce tomatoes on-the-vine to serve local produce supply chains. They have been awarded a \$600,000 FY21 MEA CHP award to implement a 6,187 kW CHP system to serve the substantial energy needs of this operation, with sustainability and resilience at the forefront. The electricity produced by the CHP system will satisfy approximately half of the annual electricity need, and the heat output will be used for space conditioning and hot water production. Sustainability will be further enhanced by the use of the CO<sub>2</sub> output from the CHP system to help improve the quality of the tomato plants, creating a value-added product.

Housing Authority of Baltimore City

Baltimore City

\$108,000

**(AP 2)** - The Housing Authority of Baltimore City (HABC) serves the residents of the Douglass Homes low-to-moderate income (LMI) multifamily housing community in Baltimore City. HABC has elected to implement a CHP system as part of a self-guided energy performance contract at this property in order to reduce the costs of energy for residents, which will reduce their energy burden and improve building efficiency and sustainability. HABC has received a \$108,000 FY21 MEA CHP award to help offset the costs of implementing a 180 kW CHP system that will meet approximately 75% of annual electricity needs. The heat energy will be used to produce hot water for space conditioning and other water needs. The system is projected to operate at a notably high efficiency of 81%.