Wes Moore, Governor
Aruna Miller, Lt. Governor
Paul G. Pinsky, Director

FY23 Resilient Maryland Program

Award Recipients

Awardee	County	Award Amount
AREA OF INTEREST 1: FEASIBILITY AND PLANNING		
Housing Opportunities Commission of Montgomery County	**Montgomery**	**$100,000**

The Housing Opportunities Commission of Montgomery County ("HOCMC") provides affordable housing and services that support and improve the lives of Montgomery County residents who experience low-to-moderate income ("LMI"). HOCMC has authority to acquire, own, lease, and operate housing; which includes completing necessary construction and renovation. They will complete an AOI 1, Category 1 campus microgrid feasibility analysis and preconstruction planning project for the soon-to-be-built Hillendale Gateway multifamily affordable housing community in Silver Spring, MD. Specifically, FY23 Resilient Maryland funds will be used to devise and explore a solar PV and battery energy storage microgrid with advanced controls and emergency backup diesel generation. The system will be designed to support the community in both normal and grid-outage situations. It will also include designating part of the community as a resiliency hub for its residents, thereby nestling a particular resiliency function inside of a larger microgrid.

University of Maryland Eastern Shore	**Somerset**	**$100,000**

The University of Maryland Eastern Shore ("UMES") is one of three (3) Historically Black Colleges and Universities ("HBCUs") in Maryland and is an academic cornerstone of Maryland's Eastern Shore. UMES offers many different academic programs, including thirty-eight (38) bachelor's degrees, fourteen (14) master's degrees, and eight (8) doctoral degrees. Five (5) schools comprise the university: Agricultural and Natural Sciences; Business Technology; Education, Social Sciences, and the Arts; Graduate Studies; and Pharmacy and Health Professions. It has approximately 4,000 students enrolled across its academic portfolio. UMES will complete an AOI 1, Category 1 campus microgrid feasibility analysis and preconstruction planning project for the buildings and services available to its students, faculty, staff, and the surrounding community. Specifically, the microgrid will consider several different configurations that may include: solar PV, battery energy storage, combined heat and power ("CHP"), geothermal heating and cooling, wind energy, and others. Of note is the specific analysis for a solar-powered water filtration system to help the campus address an ongoing water quality issue.

Women's Home Preservation LLC	**Baltimore City**	**$100,000**

The Women's Home Preservation, LLC ("WHP") is a development firm that has a mission to "transform structurally disinvested communities with a specific emphasis on creating beautiful affordable housing for women." They partner with local communities to reclaim vacant properties in historically disinvested areas and revitalize them to meet the needs and vision of those communities. WHP will complete an AOI 1, Category 1 community microgrid project to serve 69 affordable housing units and 20,000 square feet of commercial space that will be redeveloped on the 1400 block of West Baltimore Street in Baltimore City. Specifically, the microgrid will consider solar PV, solar parking canopies, integrated electric vehicle ("EV") charging, thermal storage, emergency backup generation, and other ancillary components necessary for its successful operation. Completing diligence on this microgrid project will help enable a historically disinvested, vulnerable community in Baltimore to receive clean, efficient, reliable energy.

Maryland Aviation Administration	**Baltimore County**	**$100,000**

The Maryland Aviation Administration ("MAA") is a division of the Maryland Department of Transportation ("MDOT") that "fosters the vitality of aviation statewide and promotes safe and efficient operations, economic viability, and environmental stewardship." MAA owns and operates both the Baltimore-Washington International Thurgood Marshall Airport ("BWI") as well as the Martin State Airport, both in Baltimore County. MAA will complete an AOI 1, Category 1 campus microgrid project to serve BWI and protect the resilience of its critical services and operations. Specifically, the microgrid model to be explored will include solar PV, battery energy storage, geothermal heating and cooling, hydrogen fuel cells, and EV charging infrastructure. MAA is also pursuing the microgrid in order to further decarbonization measures at the airport and make its operations more sustainable. This includes electrifying fleet vehicles and other ground support equipment. They also plan to make EV charging infrastructure available to the public.

Glen Echo Park Partnerships for Arts and Culture, Inc.	**Montgomery**	**$100,000**

Glen Echo Park Partnerships for Arts and Culture, Inc. ("GEPPAC") is a nonprofit organization with a mission to "present vibrant artistic, cultural and educational offerings at Glen Echo Park and to promote the Park as a unique destination for [their] region's diverse population." Glen Echo Park is a National Park Service Site and is jointly managed through a cooperative agreement between the U.S. National Park Service and the Montgomery County Government. Montgomery County has a sub-cooperative agreement with GEPPAC, which is responsible for the day-to-day management of the Park through this agreement. The Park is an important location for the immediately adjacent Town of Glen Echo and the Clara Barton National Historic Site. GEPPAC will complete an AOI 1, Category 1 community microgrid project that will explore a microgrid system to serve the Park, Clara Barton National Historic Site, and the Town of Glen Echo in both normal and power outage situations. All three of these locations are considered a "Combined Campus," given their adjacency to one another. The microgrid will be linked via a cloud-based platform that will allow its locally-managed assets to contribute to a virtual power plant

("VPP"). Technologies for analysis include solar PV systems, solar PV canopies, battery energy storage, generators that utilize biofuels with a desired pathway to hydrogen fuel, among others. This project will be a unique partnership between federal, State, County, and local governments, with a subcontracted private entity (GEPPAC). The results will provide the State with valuable information on how multi-stakeholder partnerships on common-interest projects function in addition to the information about the microgrid.

MM&P Maritime Advancement, Education, Training, and Safety Program dba "MITAGS"	**Anne Arundel**	**$100,000**

MM&P Maritime Advancement, Education, Training, and Safety Program dba "MITAGS" ("MITAGS") is a nonprofit trusteeship that was established in Linthicum Heights, MD in 1972. MITAGS has a mission to "enhance professionalism through the development of internationally recognized programs in maritime training and simulation." It provides training to both civilian and military maritime personnel in each level of their careers. Additionally, it provides siting and housing services for responders providing emergency response services, recovery from aviation disasters through an agreement with BWI, and for utility line restoration crews through an agreement with BGE. MITAGS will complete an AOI 1, Category 1 feasibility analysis and preconstruction planning project for a microgrid to serve its facilities in both normal and grid outage situations.

AOI 2: MICROGRID CAPITAL

Meritus Medical Center, Inc.	**Washington**	**$1,000,000**

Meritus Medical Center, Inc. ("MMC") is a major regional hospital located in Hagerstown, MD that serves approximately 200,000 residents in its surrounding communities across several Western Maryland counties, as well as residents from nearby West Virginia and Pennsylvania. It is also one of the largest employers in Washington County, providing over 3,000 local jobs to communities that have historically and disproportionately felt the effects of significant low income. It has over 300 beds and provides many different emergency, trauma, general, and specialized care services. MMC received an FY21 Resilient Maryland feasibility analysis and preconstruction planning award to study and design a microgrid configuration to serve its campus facilities. They have budgeted for construction of the microgrid and have been awarded an AOI 2 proposal to help offset the capital costs. The microgrid will consist of at solar PV, combined heat and power ("CHP"), an absorption chiller, battery energy storage, and electric vehicle ("EV") charging stations. The microgrid will help MMC reduce its reliance on grid energy, lower operating costs, and reduce its greenhouse gas impact in normal conditions. During outages, the microgrid will be able to support the MMC campus critical loads to protect the lives, health, and safety of patients, staff, and visitors.

City of Frostburg	**Garrett**	**$1,000,000**

The City of Frostburg ("Frostburg") is located within the mountains of Western Maryland in Garrett County. It is a small Appalachian town with 7,027 permanent residents. It is also home to Frostburg State University ("FSU"), part of the University System of Maryland. Like many small towns in Western Maryland, its population has a significant number of individuals disproportionately feeling the negative impacts of very low income. Additionally, its critical infrastructure and services need hardening and additional protection in the face of increasing climatic and other disastrous effects. Of greatest importance is sustaining the delivery of their potable water supply up and over Big Savage Mountain from the Piney Dam Reservoir. Because of this critical need for operational protection, and as part of a commitment to become more sustainable as a City, Frostburg will complete an AOI 2 community microgrid project to bolster the resilience of its water pumping infrastructure, emergency services, and vital city services in power outages and other emergency situations. Frostburg received an FY21 Resilient Maryland feasibility analysis and preconstruction planning grant to identify its most critical sites and design multiple resilient energy systems at each to create a distributed microgrid across the city.

AOI 3: RESILIENCY HUBS

Orlo Takoma, LLC	**Montgomery**	**$453,600**

Orlo Takoma, LLC ("Orlo Takoma") owns the Hampshire Tower Apartments ("Hampshire Tower") multifamily housing community in Takoma Park, MD. Hampshire Tower is bordered by Census Tract 8055, which is an Equity Emphasis Area. It has a population of 3,220 individuals who experience the negative impacts of low income. Additionally, Hampshire Tower is partially income restricted, with 60% of its units available exclusively to Marylanders who experience low-to-moderate income. Orlo Takoma has proposed that community space within the Hampshire Tower building be designated as a resiliency hub for the building residents as well as the immediate surrounding communities. Hampshire Tower is located directly off of a major traffic thoroughfare that is easily accessible to emergency personnel and it has ample parking space. The resiliency hub will be powered by a solar PV rooftop system and a battery energy storage system that will provide benefits to the Hampshire Tower building in both normal and power outage situations.