



FY22 Resilient Maryland Award Recipients – Round 1

<u>Awardee</u>	<u>County</u>	<u>Award Amount</u>
WSSC	Montgomery	\$100,000

The Washington Suburban Sanitary Commission (“WSSC”) Potomac Water Filtration Plant located in Potomac, MD provides potable water supply to residential and commercial customers in Montgomery and Prince George’s Counties. This highly critical public infrastructure is necessary for the protection of life, health, and safety of Marylanders as well as for a functioning society in both normal and emergency situations. The availability of potable water supply is important to all communities, however those particularly experiencing socioeconomic and environmental vulnerabilities have significantly fewer options if water becomes unavailable and would be disproportionately impacted. WSSC will use its Resilient Maryland funds to complete a feasibility analysis and preconstruction planning deliverables for a solar PV, battery energy storage, and natural gas backup generation microgrid to safeguard its operations.

Allegany College	Allegany	\$100,000
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Allegany College is a public college offering two-year undergraduate programs with a main campus located in Cumberland, MD. The college typically enrolls over 3,200 students. It specifically offers career preparation programs, credit transfer programs that comprise the first two years of bachelor’s degrees, and continuing education courses. Allegany College tailors its offerings to meet the economic and cultural needs of the Western Maryland region and immediate surrounding communities. It will use its Resilient Maryland funds to complete a feasibility analysis and preconstruction planning deliverables for a microgrid to serve its Cumberland campus. Technologies under consideration include solar photovoltaics (PV), battery energy storage, electric vehicle charging, combined heat and power (CHP), anaerobic digestion for the creation of biogas, and absorption. Securing the health and safety of its students, faculty, administrators, and the surrounding community as well as the operational integrity of the institution during emergency situations and utility grid outages are its prime motivators for microgrid consideration. The potential for energy savings, power quality improvement, overall energy optimization, and enhanced sustainability are also desired outcomes of the potential microgrid.



Maryland

Energy Administration

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor
Mary Beth Tung, Director

<u>Awardee</u>	<u>County</u>	<u>Award Amount</u>
AquaCon Maryland, LLC	Caroline	\$100,000

AquaCon Maryland, LLC (AquaCon) is an aquaculture business planning the construction and operation of a land-based, industrial-scale salmon production facility on Maryland’s Eastern Shore in Federalsburg. A recirculating aquaculture system (RAS) will raise the salmon through complete lifecycles. RAS technology recycles the water it uses in a closed system with limited external water exchange. AquaCon will use its Resilient Maryland funds to complete a feasibility analysis and preconstruction planning deliverables for a microgrid to power and bolster the resiliency and sustainability their operations. Technologies under consideration include solar PV, battery energy storage, CHP that utilizes biogas produced onsite from the anaerobic digestion of the biosolid wastes and/or woody biomass, and absorption chilling. The continuous and uninterrupted supply of power to the RAS is necessary for salmon survival, which helps prevent catastrophic losses of salmon population that would disrupt regional food supply chains and substantial financial distress to AquaCon.

Montgomery County, MD	Montgomery	\$100,000
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Montgomery County, MD owns and operates its Equipment Maintenance and Transit Operations Center (“EMTOC”) in Derwood, MD. It plans to transition the onsite bus fleet to zero emissions by replacing the current fleet with battery electric and/or fuel cell buses. Many Montgomery County residents rely on bus transportation to commute to and from their workplaces and other locations for daily necessities, and therefore the sustainability and resilience of this service is crucial to the community and environment. The County will use its Resilient Maryland award to complete a feasibility analysis and preconstruction deliverables for a microgrid to power the site as well as deliver the energy necessary for the bus fleet. Technologies under consideration include solar PV, battery energy storage, CHP, electrolysis systems, hydrogen storage tanks, pumps, and other ancillary equipment.

Capitol Technology University	Prince George’s	\$43,100
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Capitol Technology University (“CTU”) is an independent, nonprofit university located in Laurel, MD on a 52-acre campus. It provides degrees and certifications in engineering, computer simulation, information technology, and technology management. CTU will use its Resilient Maryland funds to complete a feasibility analysis and preconstruction deliverables for a microgrid to serve buildings on its campus that house administrative offices, a library, classrooms, and instruction labs. The benefits a microgrid would provide to the campus include bolstered resilience to power outages, enhanced sustainability, enhanced energy efficiency, revenue from grid services, and the potential to house community members during emergency situations and extended power outages. Many different technologies are proposed to be studied, including solar PV, wind turbines, battery energy storage, thermal storage, electrolysis, CHP, fuel cells, and others.



Maryland

Energy
Administration

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<u>Awardee</u>	<u>County</u>	<u>Award Amount</u>
Frederick County, MD	Frederick	\$25,000

Frederick County, MD will use its Resilient Maryland award to plan and design a resilient facility power system for a recently purchased building that will become a permanent location for several critical County departments, which include emergency communication services, its Interagency Information Technologies Center, and other County operations that serve its citizens. It has also served and will continue to serve as a COVID-19 vaccination site. The building originally served as a processing center, call center, and data center for United Healthcare and Mid Atlantic Medical Services, LLC (MAMSI). Frederick County is pursuing a resilient facility power system to power the facility and shield these critical county operations from utility disruptions and disaster situations. Technologies under consideration include solar PV, battery energy storage, and backup diesel generation.