



FORT DETRICK, MARYLAND SOLAR ENERGY PROJECT

PROVIDES ONSITE GENERATION, SUPPLY DIVERSITY & MICROGRID COMPATIBILITY

Energy resilience is critical to Army Readiness. The homeland is no longer a sanctuary.¹ The Army is modernizing its installations with energy solutions that are resilient, efficient, and affordable.

The U.S. Army Office of Energy Initiatives (OEI), Fort Detrick, and the Defense Logistics Agency (DLA) Energy collaborated with Ameresco, Inc. to develop a 15 megawatt (MW) alternating current (AC)² solar energy project at Fort Detrick. In February 2016, the project became fully operational, providing onsite generation, supply diversity, and microgrid compatibility.

About Fort Detrick

Fort Detrick was originally known as Detrick Field and operated as an emergency airfield between Cleveland and Washington, DC until 1938. During World War II, Camp Detrick became the site of exhaustive biological warfare research. After World War II, Camp Detrick was designated a permanent installation and became Fort Detrick with a mandate to continue biological research.

Fort Detrick is home to the U.S. Army Medical Research and Materiel Command (USAMRMC). It includes the bio-defense agency and the U.S. Army Medical Research Institute of Infectious Diseases (USAMRIID). Fort Detrick remains the world's leading research campus for biological agents that require special containment.

Project Details

- The project is located on approximately 67 acres on Fort Detrick.
- Fort Detrick consumes all energy supplied by 59,994 solar panels.
- Enough electricity is generated by the project to power about 2,720 homes per year.
- The facility is designed to serve about 12 percent of the installation's total annual electric load requirements, improving the installation's resilience by adding distributed generation sources and supply diversification.
- The onsite project is also microgrid compatible for a potential future microgrid.
- The project provided approximately 125 jobs during construction and one full time position during operations.
- Ameresco financed, owns, operates, and maintains the project, which includes a 25-year Power Purchase Agreement and 26-year lease with the Army.



About Army Office of Energy Initiatives

The Army OEI seeks to assist Army installations in optimizing operations, meeting mission essential requirements, mitigating vulnerabilities, and sustaining critical capabilities during any energy disruption. The Army OEI is aligned under the Assistant Secretary of the Army for Installations, Energy and Environment and the Deputy Assistant Secretary of the Army for Energy and Sustainability. The Army OEI serves as the Army's central program management office for the development, implementation, and oversight of privately financed, large-scale, energy projects focused on enhancing energy resilience, energy security, and sustainability on Army installations. Army OEI collaborates with industry, public utilities, and other stakeholders to implement projects using alternate resourcing strategies that provide energy generation, storage, and control capabilities. These "islandable" capabilities can support critical operations in the event of a grid outage, enabling the Army to achieve the levels of mobility and lethality to maintain its tactical and strategic edge. For more information about Army OEI, visit: www.oei.army.mil.

About Defense Logistics Agency Energy

For more than 70 years, Defense Logistics Agency (DLA) Energy has provided the Department of Defense and other government agencies with comprehensive energy solutions in the most effective and efficient manner possible. DLA Energy is a primary-level field activity of the Defense Logistics Agency, and is co-located at Fort Belvoir, Virginia. DLA Energy is one of OEI's acquisition partners supporting the development of energy resilience projects.

About U.S. Army Corps of Engineers

The U.S. Army Corps of Engineers (USACE) has approximately 37,000 dedicated Civilians and Soldiers delivering engineering services to customers in more than 130 countries worldwide. USACE's mission is to deliver vital public and military engineering services; partnering in peace and war to strengthen our Nation's security, energize the economy and reduce risks from disasters, and with a vision of engineering solutions for our Nation's toughest challenges.

About Ameresco

Ameresco, Inc. is an independent provider of comprehensive energy efficiency and renewable energy solutions for facilities throughout North America, delivering long-term value through innovative systems, strategies and technologies. Ameresco's solutions range from upgrades to facility's energy infrastructure to the development, construction, and operation of renewable energy plants combined with tailored financial solutions. Ameresco works with all customers to reduce operating expenses, upgrade and maintain facilities, stabilize energy costs, increase energy reliability, and enhance the environment.



15 MW Solar Facility Comprised of 59,994 Solar Panels at Fort Detrick, MD

¹ 2018 National Defense Strategy

² Alternating Current (AC) is provided to consumers. Inverters convert the direct current (DC) from solar panels to AC and losses occur during conversion. Approximately 18 MW DC = approximately 15 MW AC.

