

## CASE STUDY:

# Walter Reed Army Medical Center



**PROPERTY TYPE:** Campus

**MICROGRID EXTENSION SERVICES:**

Financial and energy modeling, coordination of engineering and system design, management of vendor selection and development phasing, regulatory approvals, and financial structuring.

**PROJECT DESIGN:** Development of multiple co-generation facilities to supply heating, cooling, and electrical energy through a closed-loop district-energy system including an island-able micro-grid.

**THE CHALLENGE:** A lead partner was needed to structure clean energy financing and technology development for the redevelopment of the former 66 acre Walter Reed Army Medical Center. Development of a clean energy microgrid was challenging given the complexity and duration of project development, the innovative nature of the technology, and a high degree of regulatory uncertainty.

**THE SOLUTION:** Urban Ingenuity served as the lead energy development partner in the design of a state-of-the-art district energy system and advanced micro-grid. UI worked to optimize a series of Combined Cooling, Heating, and Power (CCHP) – or Tri-Gen – energy centers, integrated with extensive solar photovoltaic, district heating and cooling, and energy efficiency investments. This advanced energy project will provide sustainable energy services to 3 million square feet of new and redeveloped mixed-use real estate on the large campus in the heart of Washington DC.