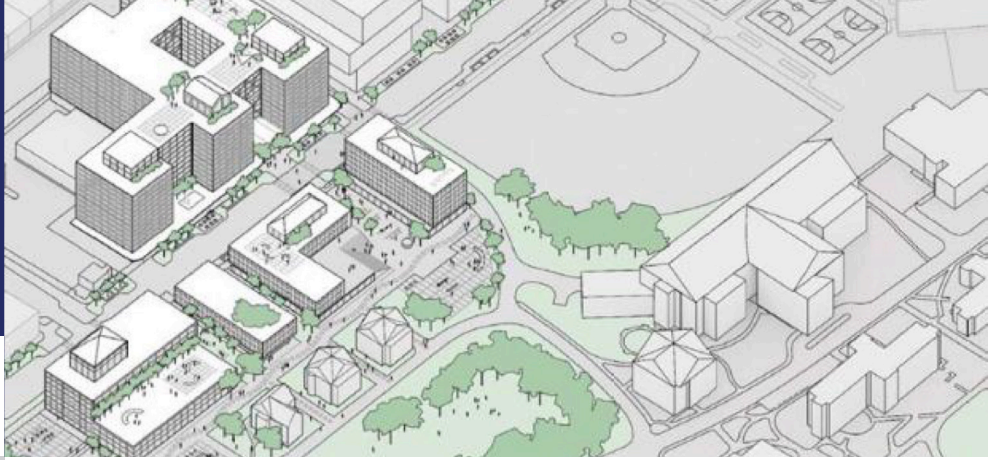




CUT COSTS • SAVE ENERGY • BUILD VALUE



## CASE STUDY:

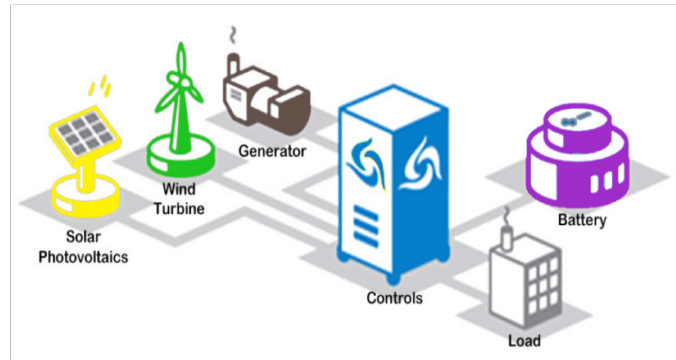
Galludet University



Urban Ingenuity, in partnership with CHA Engineering, is providing conceptual design, load modeling, and integrated financial analysis for a microgrid for the Galludet campus and nearby developments at Union Market. The scoping includes multi-MW on-site generation with full heat recovery, thermal storage, solar arrays, and interconnection of the systems with the current and expanded campus for a more reliable and sustainable energy solution. Ongoing financial structuring will optimize the outcomes for a range of stakeholders, balancing risk and reward through a set of shared incentives while maximizing total savings.

## MICROGRID SOLUTIONS

Urban Ingenuity's Microgrid Extension Services provide localized energy solutions for communities or campus scale developments. We offer a unique package of analysis and design services for facility owners, real-estate developers, and government agencies to deploy microgrids. Our objective: provide best in class analysis and design services that optimize microgrid systems and provide the best possible returns, while providing clean, reliable, resilient energy, heating, and cooling at market rates or better.



### WHAT IS A MICROGRID?

Microgrids are local energy systems that combine clean energy generation and improved energy efficiency and management to reduce emissions and lower energy costs. As a network of integrated loads, resources and controls, microgrids distribute electricity (and often heating and cooling) to end users in a defined geographic area- building, campus, or community.

# MICROGRID BENEFITS

## RESILIENCE

- On site generation improves reliability for critical systems
- Guard against failing infrastructure, extreme weather, cyber attacks and terrorist threats

## FINANCIAL

- Reduced energy costs
- Stabilized energy prices
- Less redundant infrastructure
- Potential off-balance-sheet 3rd party investment

## ENVIRONMENTAL

- Reduced emissions
- Increased energy efficiency and renewable power
- Less transmission and distribution infrastructure

## MICROGRID SERVICES

**Project Identification:** We assist in identifying energy intensive sites appropriate for microgrids including commercial, residential and institutional sites. We conduct initial low cost analysis of project feasibility and benefits to help owners make better decisions.

**Legal + Regulatory Analysis:** We engage utility, Public Services Commission and other regulatory authorities to identify generation, interconnection and oversight issues.

**System Design:** We provide conceptual designs and lay the foundation for more extensive engineering work before you start spending too much money. We scope estimated benefits before deciding whether to invest, identify synergies and savings.

## COMPREHENSIVE ANALYSIS AND TECHNICAL SUPPORT FOR MICROGRID DEPLOYMENT

**Project Finance:** Urban Ingenuity specializes in project finance, and can advise on options for your project: private capital market vehicles, utility partnerships & ratepayer incentives, credit enhancements (Investment Tax Credit, New Market Tax Credits, DOE Loan Guarantees, FEMA Resiliency Investments), local incentives (PACE, revenue bonds), and revenue streams from ancillary services, demand response, and reserve capacity.

**Owner's Agent:** We provide a-la-carte or comprehensive owner's agent services for conceptual design, RFP development, contract procurement, negotiation, engineering, and monitoring to ensure the system performance.

### Clients

- New York City
- Walter Reed Medical Center
- Gallaudet University
- DC Department of Energy & Environment
- Metropolitan Washington Council of Governments

