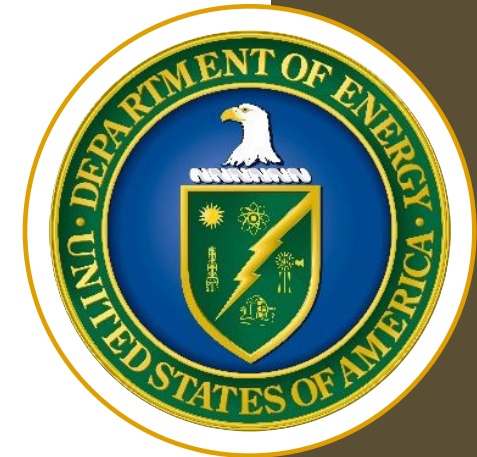


Department of Energy

Grid Resilience and Innovation Partnerships

Funding Opportunity Announcement

- Awards made under this FOA will be funded, in whole or in part, with funds appropriated by the **Infrastructure Investment and Jobs Act (IIJA)**, also more commonly known as the **Bipartisan Infrastructure Law (BIL)**.
- The BIL is a **ONCE-IN-A-GENERATION INVESTMENT IN INFRASTRUCTURE**, designed to modernize and upgrade American infrastructure, enhancing the U.S. competitiveness, driving the creation of good-paying union jobs, tackling the climate crisis, and ensuring stronger access to economic, environmental, and other benefits for disadvantaged communities.
- The BIL appropriates more than \$62 billion to the Department of Energy to support investments to **build a clean and equitable energy economy that achieves pollution-free electricity by 2035**. At present, aging grid infrastructure leaves the grid increasingly vulnerable. The increasing frequency of extreme weather events is leading to energy supply disruptions that threaten the economy, put public health and safety at risk, and can devastate affected communities all over the country.
- **Funding Purpose** - Climate change is increasing the threats to our power system infrastructure. Disruptive weather events are more intense in terms of temperature extremes and precipitation and are becoming broader in scope and affecting larger areas at a time. With these trends in mind, building a more resilient and reliable grid is critical.
- **Grid Resilience and Innovation Partnerships (GRIP)**
 - **Topic Area 1: Grid Resilience Grants (BIL section 40101(c))**
 - [Link to GRIP Program Grant \(DE-FOA-0002740\)](#)



Jamestown Community Microgrid

Topic Area 1: Grid Resilience Grants

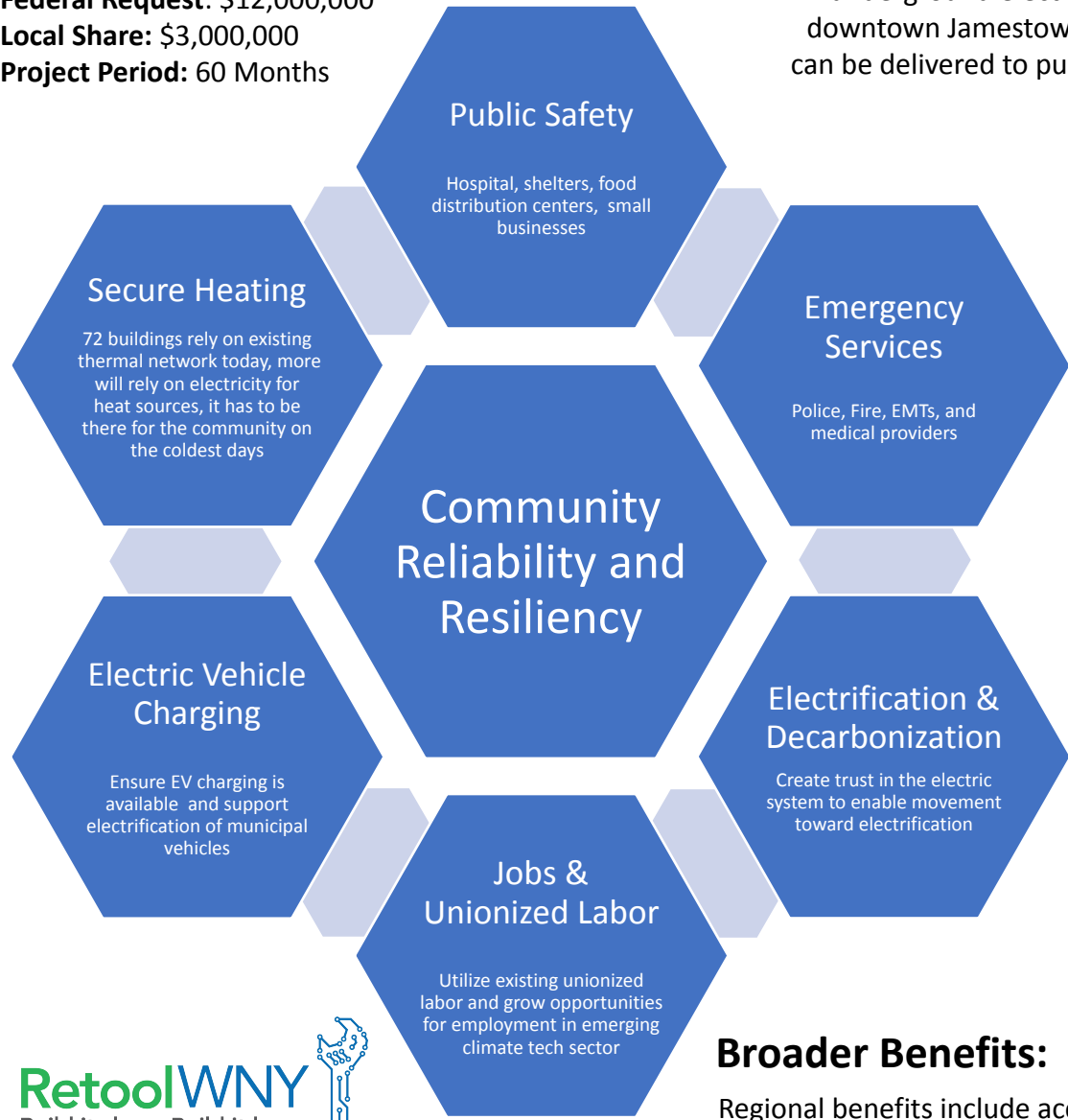
Prime Recipient: Jamestown Board of Public Utilities

Federal Request: \$12,000,000

Local Share: \$3,000,000

Project Period: 60 Months

The Jamestown Microgrid system would utilize existing power generation equipment to energize a resilient network of underground electrical distribution circuitry ensuring a high level of utility service reliability and resiliency in the core area of downtown Jamestown, a Justice40 community, independently of the regional 115 kV system. The microgrid will ensure energy can be delivered to public services, the regional hospital, shelters, schools, and businesses as well as ensure electric vehicles can be charged during an emergency.



Lead Personnel:



Brad Bentley
Energy and Gas Resources Manager
Business Lead



Cory Allen
Power Plant Supervisor
Technical Lead



Ellen Ditonto
Business Development Coordinator
Community Engagement & Benefits Lead



Mitch Simons
Senior Power System Electrician
IBEW459



Amanda D'Aurora
Jr. Electrical Engineer



Jarrett Devereaux
Electrical Engineer



David Leathers
General Manager



Kristofor Sellstrom
Transmission and Distribution Manager

Primary Technology/Equipment:

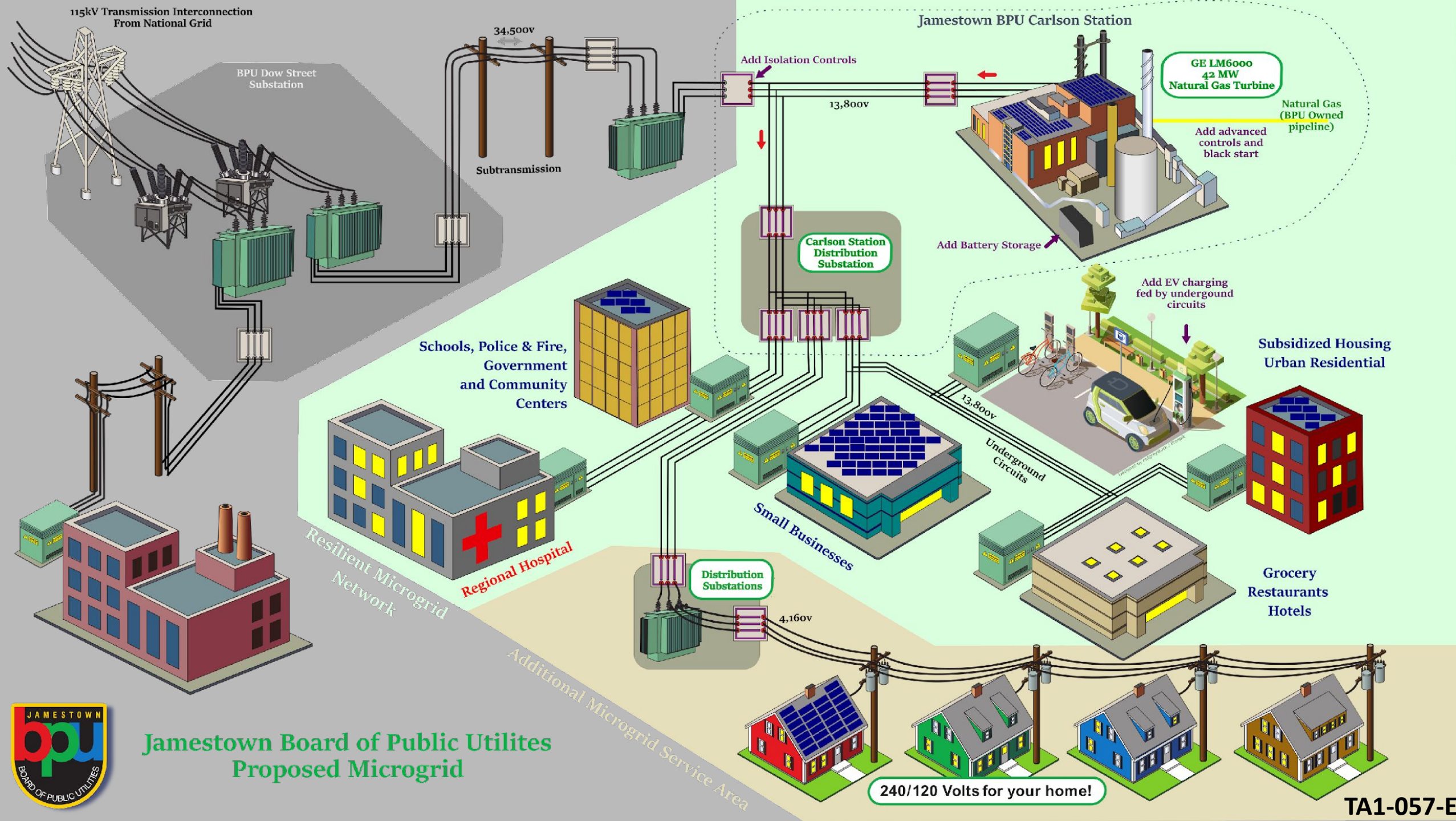
- Microgrid Controller
- Voltage/Current transformers, relays, synchro-phasors, data concentrator
- Load management Software
- Battery Storage with Black start and grid formation
- Underground-fed Level 3 Electric Vehicle Charging
- Upgrades/replacements of underground aging high voltage cabling

Union team:

- 15 Line Workers
- 4 Electricians
- 4 Mechanics
- 11 Operators

Broader Benefits:

Regional benefits include access to hospital, shelters, food, grocery & pharmacies, and EV charging during a regional event. State and Federal benefits include enabling more renewable generation, grid flexibility, and regional resiliency.



115kV Transmission Interconnection
From National Grid

BPU Dow Street
Substation

34,500v

Subtransmission

Add Isolation Controls

13,800v

Jamestown BPU Carlson Station

GE LM6000
42 MW
Natural Gas Turbine

Natural Gas
(BPU Owned
pipeline)

Add advanced
controls and
black start

Carlson Station
Distribution
Substation

Add Battery Storage

Add EV charging
fed by underground
circuits

Schools, Police & Fire,
Government and
Community
Centers

Subsidized Housing
Urban Residential

13,800v

Underground
Circuits

Small Businesses

Grocery
Restaurants
Hotels

Resilient Microgrid
Network

Regional Hospital

Distribution
Substations

4,160v

Additional Microgrid Service Area

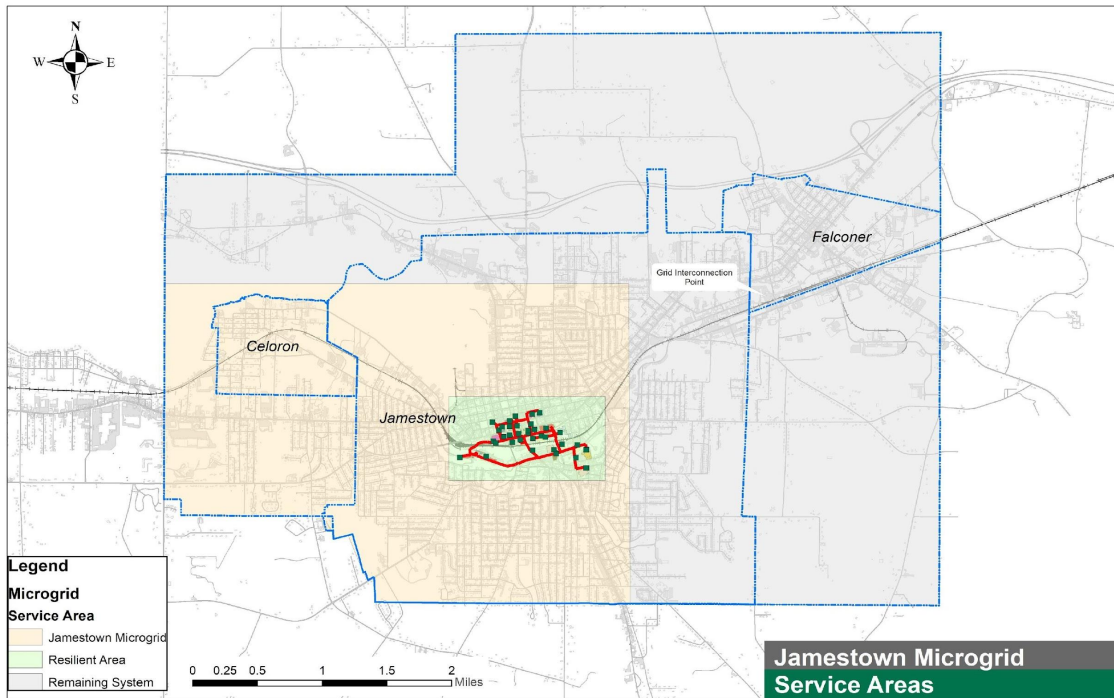
240/120 Volts for your home!

TA1-057-E

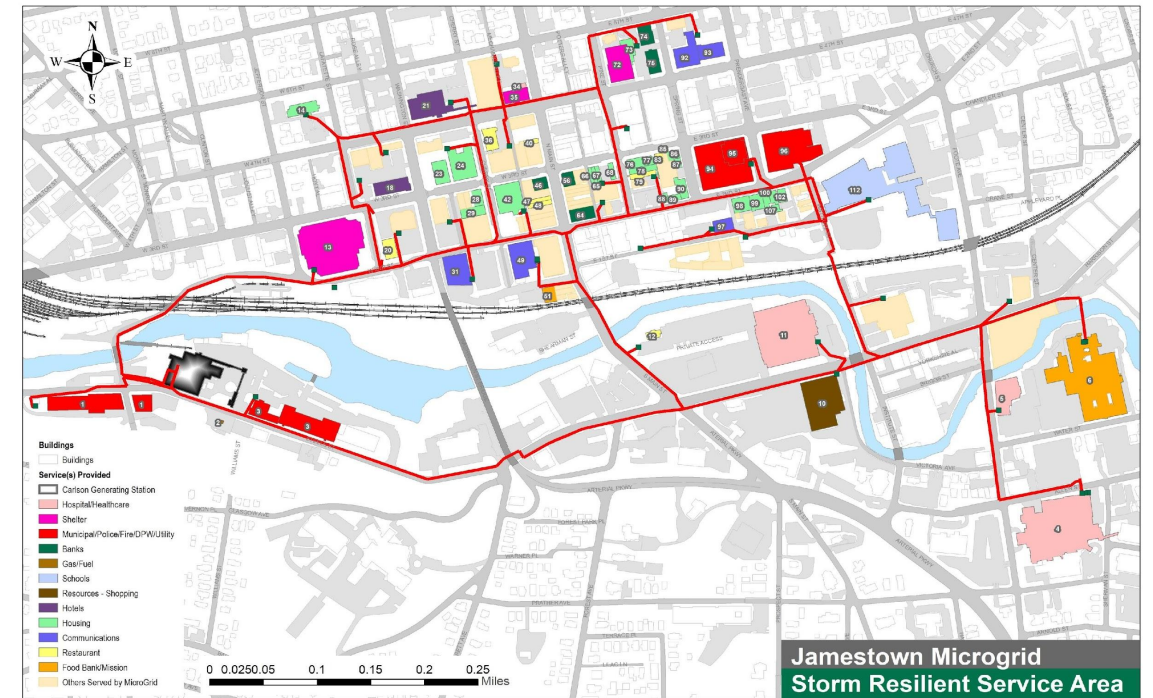


Jamestown Board of Public Utilities
Proposed Microgrid

Jamestown Community Microgrid Service Areas



9,866 services in the Microgrid



608 services in the storm resilient portion
+ 70 Customers on District Hot Water

[Link to high resolution maps](#)