



MOUNT VERNON CONNECTED COMMUNITY ROADMAP

PROJECT BACKGROUND

The District Department of Energy and Environment (DOEE) and Pepco, in partnership with community residents and stakeholders, will design and implement a Connected Community Roadmap for Mount Vernon and surrounding Shaw, Northwest One, and NoMa neighborhoods in the District of Columbia that provides innovative solutions to customers for safe, affordable, reliable and clean energy. This roadmap will identify clean energy and technology solutions to serve the community in a way that enables residents and businesses to save energy, advance private and community solar, and achieve local environmental and economic benefits based on community needs and interests.

The work to develop this collaborative and innovative roadmap stems from the 2019 approval by the Public Service Commission to proceed with the construction of the Mount Vernon Substation. This approval included direction to Pepco to find non-wires solutions to defer the need to install a fourth transformer at the substation. The roadmap will target implementation in 2023, after the substation is operational, and serve as a guide to identify programs and solutions to combat climate change, build resilience and modernize the local energy grid for the benefit of the surrounding community.



COMMUNITY BENEFITS

The energy-efficient upgrades and ideas to be included in the roadmap will benefit the community by:

- Providing safe, clean, and reliable electricity
- Creating eco-friendly enhancements to an environmentally safe facility
- Increasing sustainability through energy efficiency
- Promoting equity, public health, environmental stewardship, and green job creation
- Supporting the District of Columbia's clean energy goals

WHAT ARE NON-WIRES SOLUTIONS?

Non-wires solutions are technologies that are not traditionally used to address electricity transmission and distribution needs.

These solutions include solar panels, battery storage, and energy efficiency measures. Using these and other technologies helps to manage energy use and defers the need for traditional utility equipment upgrades.

EXAMPLES OF POSSIBLE SOLUTIONS

- Energy efficiency measures
- Smart Energy Kits
- Clean energy generation (solar, etc.)
- Energy storage systems
- Electric Vehicle (EV) charging stations
- Smart city sensors
- Wi-Fi Customer Support kiosks
- Programs that provide smart energy and information technologies to all



Possible solutions are supported by a secure, reliable digital communications network

FREQUENTLY ASKED QUESTIONS

What is a substation?

Substations house transformers to convert electricity that is moving from the generation source to the customer's home or business into a safe and usable voltage. This allows for minimal energy loss and safe distribution through neighborhoods.

What is a transformer?

Transformers are central to delivering electricity safely to homes and businesses and can be found on electric poles, on the underground electric system, and in substations. Transformers reduce the voltage of electricity so that power can be delivered safely to homes and businesses.

When is the battery going to be installed?

A battery will be installed once the construction of the substation is completed in 2023.

What does the battery do for the substation?

Batteries improve the capacity of the electric system and defer traditional substation upgrades needed to manage an increase in energy demand within a small area. Batteries provide system relief in a safe and cost-effective manner and allow the electric system planners to determine any additional system needs. Pepco and its sister utilities have been successful in deploying battery storage systems in other parts of their service areas.

How does the Mount Vernon Connected Community Roadmap effect the community?

With the communities' input we will design a roadmap that will support modernizing the local energy grid by incorporating appropriate non-wires solutions as shown above in an equitable and inclusive manner. The roadmap will serve as a guide to identify programs and solutions to support the interests and needs of the community.

CONNECT WITH US

For additional information about the Mount Vernon Connected Community Roadmap, please email MtVernonRoadmap@exeloncorp.com or visit our website at pepco.com/MtVernonRoadmap

