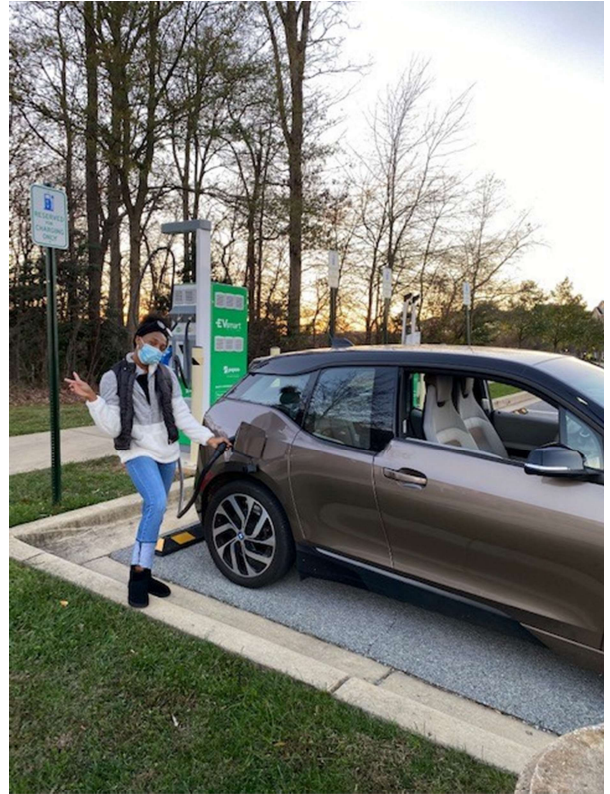


Thomas Farm Community Center Electric Vehicle Charging Stations

Background

Maryland established a goal of having 300,000 electric vehicles on the road by 2025. To reach that goal, a convenient and effective charging network must be deployed across the state to allow long-distance travel for battery electric vehicles, to empower residents without access to residential charging, and provide convenient charging options for electric vehicle drivers. In January of 2019, the Maryland Public Service Commission (PSC) approved a five-year electric vehicle charging infrastructure pilot program for the state's largest electric utilities to jump start the deployment of a public EV charging network across the state to reduce EV owner 'range anxiety' and lay the foundation for a competitive market. The local utility, Pepco, sought to install 33 DC (direct current) Fast Chargers and 217 Level-2 chargers at publicly owned sites across Montgomery County and Prince George's County. The public chargers are required to be located at property owned or occupied by a unit of state, county, or municipal government, and accessible for public use 24 hours a day, 7 days a week.



Project Summary

In July 2019, the City of Rockville became one of the first jurisdictions to partner with Pepco to install the first set of chargers available to the public on City property. The City designated three parking spaces at the Thomas Farm Community Center (700 Fallsgrrove Road, Rockville) for the stations. To complete this project, the City and Pepco entered into a Licenses and Maintenance Agreement to allocate three parking spaces at Thomas Farm Community Center to be converted to electric vehicle charging stations. Pepco installed one DC Fast Charger, with the capability to charge 80% of an EV's battery in 20-30 minutes, in the parking island to serve both the ADA accessible parking space and the parking space on the other side of the island. Additionally, the Level 2 (AC) chargers, which take 4-5 hours to reach a driving capacity of 40 miles, serve two adjacent regular parking spaces. The layout of the three charging stations relative to the community center is shown in Figure 1 below.



Figure 1. Charging Station Layout.

Efforts undertaken by City staff and Pepco to successfully complete this project include:

- Coordinating with Pepco regarding the location of the charging stations (at Thomas Farm Community Center) and identifying the specific site for the stations;
- Executing a License and Maintenance Agreement with Pepco;
- Surveying existing utilities on site;
- Finalizing and approving the charging station design plans;
- Permitting and inspecting the construction; and
- Publicizing the charging stations via social media and Pepco's website to promote the rollout of this new electric vehicle infrastructure program.

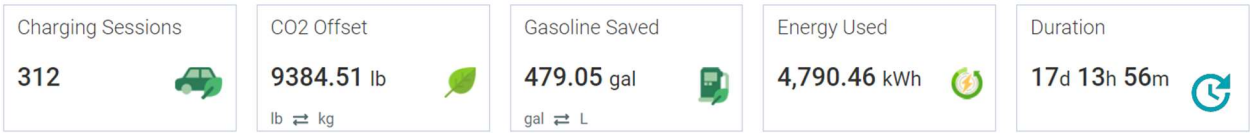
Pepco advertises the station on site website: <https://thesource.pepcoholdings.com/pepco-introduces-new-way-power-thomas-farm-community-center/>

Project Benefits

The chargers began service in April 2020 and are now operated and maintained by Pepco. As illustrated in Figure 1, the chargers hosted 312 charging sessions, saving 479 gallons of gasoline, and reducing carbon dioxide emissions by more than 9,300 pounds. The charging stations are expected to increase accessibility and convenience for Rockville's EV driver community and reduce the city's transportation greenhouse gas emissions and local air pollution.

Figure 2: Thomas Farm Community Center Charging Station Utilization

Utilization Summary



Future Projects

With the success of this pilot, the City is working with Pepco to identify additional locations to expand the EV charging network at other Rockville facilities and parks and right-of-way.