



COMMUNITY CHARGING HUBS

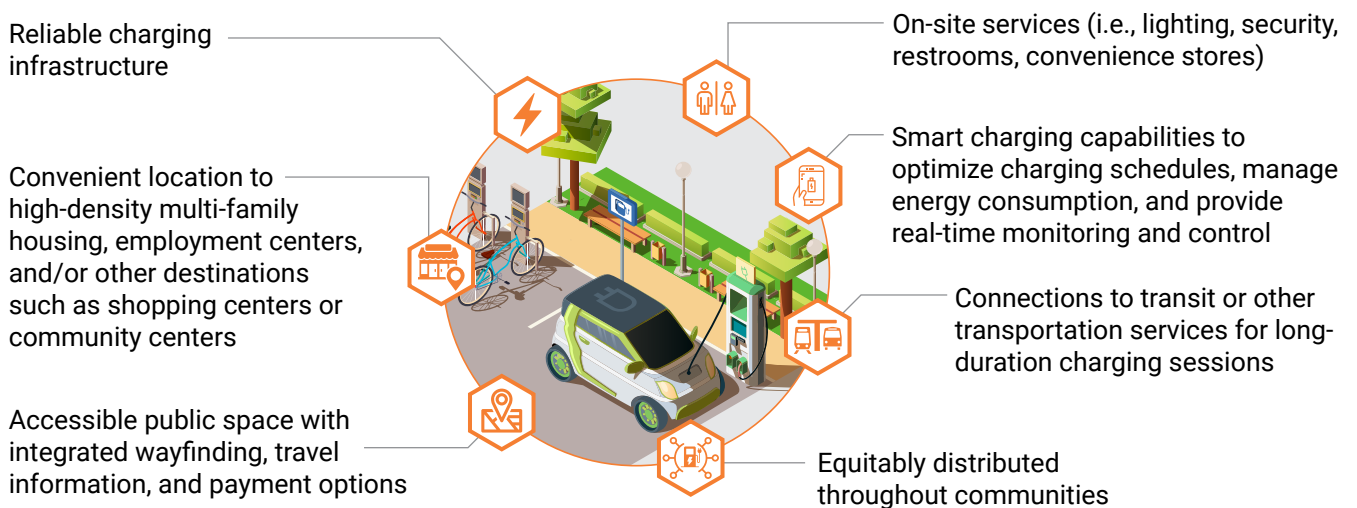
What are community charging hubs?

Community charging hubs are designated locations where community members can reliably charge their Electric Vehicles (EV) near multi-family housing, high-density employment centers, local destinations, or additional transportation options (i.e., rideshare, transit, micromobility) while their vehicles charge.

Why do communities need charging hubs?

- 80% of current EV owners charge at home overnight, [NREL](#).
- Many single-family homes have parking or garages for charging. However, many residents in the Baltimore region live in multi-family dwellings with shared or no parking.
- These residents will rely on public-access chargers and community charging hubs near homes or workplaces.

What are the key features of a community charging hub?



What is the role of local government in planning, operating, and maintaining community charging hubs?

Local governments can contribute to the planning, operations, and maintenance of successful community charging hubs by:

- Developing best practices and sharing guidance with constituents, private developers, and other jurisdictions
- Building public-private partnerships
- Developing programs that prioritize market areas, such as curbside charging stations or multi-unit dwellings
- Distributing local funding
- Coordinating with utility providers early and often
- Engaging stakeholders to identify charging hub locations
- Expanding equitable access to electric mobility

Getting Started

To get started, jurisdictions should consider the following questions when selecting a community charging hub location:

Does the location have electricity or is electrification possible at this location?

Does your jurisdiction own the property? If not, does the property owner approve of installing EV chargers?

Is this location in a floodplain? If the location is in a floodplain, consider another location or consider the resilience in the design if flooding is possible.



Is this location convenient to high-density multi-family housing, employment centers, and/or other destinations such as shopping centers or community centers?

Are there multimodal connections at this location? Is there room for other charging needs, such as e-bikes, ride-hailing, car-sharing, or transit charging needs?

Who will this location serve? Is there an opportunity to serve populations that do not have existing access to EV chargers?

Best Practices for Planning, Siting, and Designing Community Charging Hubs

In recent years, several agencies and organizations have published guidance to facilitate installing EV chargers at multi-family housing and community charging hubs. If you want to learn more, check out:

- [Community Charging: Emerging Multi-family, Curbside, and Multimodal Practices](#)
- [Plug-in EV Charging Infrastructure Guidelines for Multi-Unit Dwellings](#)
- [Installing and Operating Public EV Charging Infrastructure](#)
- [EV Charging Equity Considerations](#)
- [Procurement and Installation for EV Charging Infrastructure](#)
- [EV Charging at Multi-Family Dwellings](#)

Where have community charging hubs been used?

Community charging hubs have been successfully implemented in Europe and are being piloted in several locations in the United States. In Europe, the following cities have successfully implemented innovative solutions to provide EV charging opportunities in urban areas and for multi-family housing:

- [Hamburg, Germany](#)
- [Amsterdam, Netherlands](#)
- [Cologne, Germany](#)
- [London, UK](#)
- [Oslo, Norway](#)

Local Examples



Pennsylvania Ave Market Lot

- Baltimore, Maryland
- City-owned parking lot
- 4 Level 2 chargers, 2 Level 3 fast chargers



Saint Frances Academy

- Baltimore, Maryland
- Baltimore Gas and Electric (BGE) in collaboration with the Mid-Atlantic Electrification Partnership, Lyft, St. Frances Academy, and the Johnston Square neighborhood planned this charging hub.
- 3 Level 3 fast chargers, 2 dual-port Level 2 chargers



Michael E. Busch Annapolis Library

- Annapolis, Maryland
- County-owned library in residential area
- 4 Level 2 chargers, 1 Level 3 charger

