

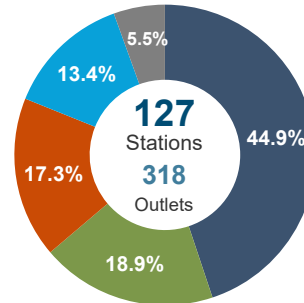
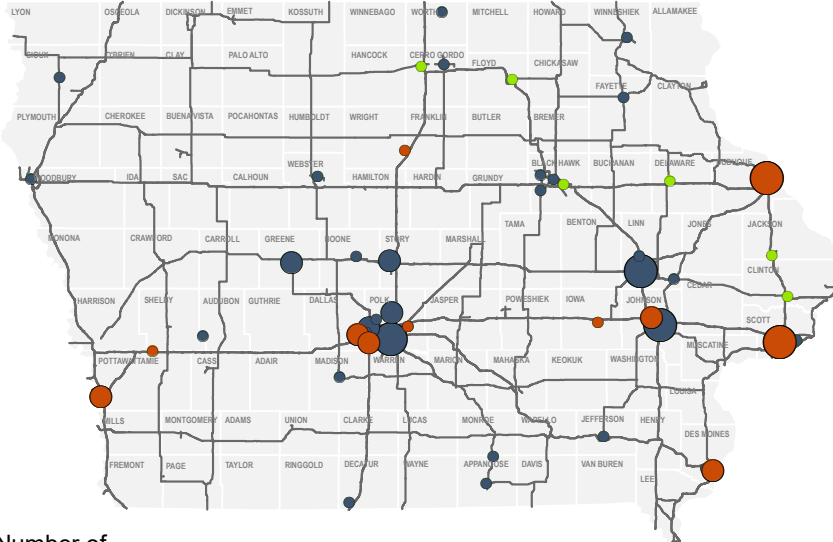
# Electric Vehicle Infrastructure and Registration — 2019

Electric vehicles (EV) are a fast-growing segment of motor vehicles in Iowa. However, EVs do not contribute significant road usage fees in the form of gasoline excise tax revenue. To help offset the expected loss of user fee revenue, Iowa enacted [House File 767](#), which establishes the following registration fees and excise tax related to electric vehicles:

- Additional annual registration fees will be effective January 1, 2022, with phase-in fees starting in 2020:
  - **\$130** for battery electric vehicles (BEVs); **\$65** for plug-in hybrid vehicles (PHEVs); **\$9** for battery electric or plug-in motorcycles.
  - The new fees are in addition to the annual registration fee under Iowa Code Section [321.109](#).
- Effective July 1, 2023, a **\$0.026 tax** on each kilowatt hour (kWh) of electricity purchased at a nonresidential location.

Availability of charging stations may be a limiting factor in growth of EVs, particularly the availability of DC Fast Charging Stations, which significantly decrease the necessary amount of charge time. Private sector utility companies such as MidAmerican Energy have started offering consumer rebates on the purchase of an EV and rebates for businesses on the purchase of charging stations, and is working to build an extensive EV charging station network in 12 cities across Iowa.

## Iowa Charging Station Locations — As of August 13, 2019



- Misc. Business (gas stations, grocers, office bldgs, etc.)
- Community (parking areas, civic bldgs.)
- Car Dealership
- Hotel
- Other (college/universities, airports, etc.)

Number of Stations by City ○ 1-2 ○ 3-5 ○ 6-12

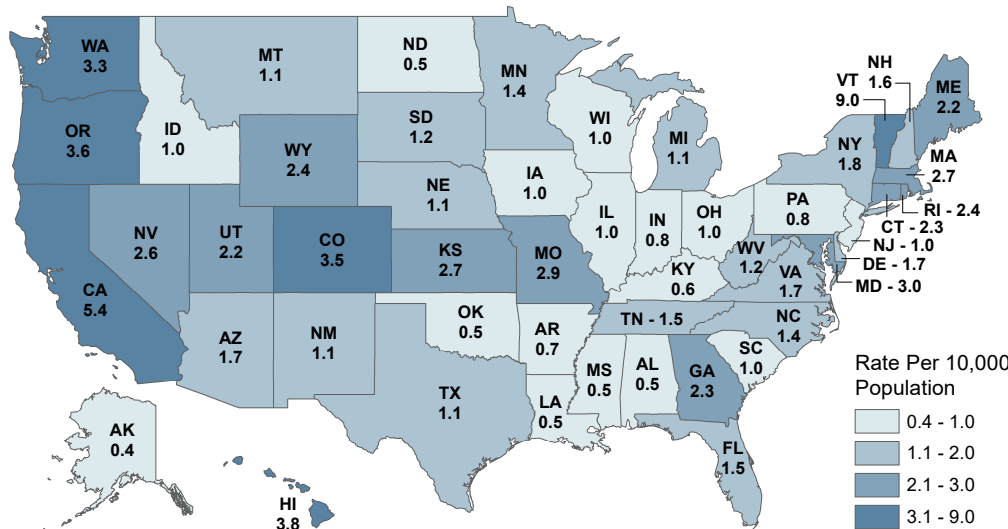
Station by Availability of Charge Type

- Level 1 Charging: 110V - Same electricity as a regular electrical outlet. Provides 2-5 miles per hour of charging.
- Level 2 Charging: 220V - Majority of stations in the U.S. Provides 10-20 miles per hour of charging.
- DC Fast Charging: DC current supplied directly to vehicle. Provides up to 180 miles per hour of charging.

**47** Iowa Cities Have Charging Stations  
**30** Cities Have At Least One Level 2 Charging Station  
**11** Cities Have At Least One DC Fast Charging Station

## Electric Vehicle Charging Outlets Per 10,000 Residents

As of August 13, 2019



In Iowa:

**3,241**

Electric Vehicle Registrations (as of May 1, 2019)

**2,070** PHEVs

**1,170** BEVs

**+170.0%**

Increase in EVs Since 2016

**+32.3%**

Increase in EV Charging Stations Since 2016

Sources: U.S. Department of Energy, Energy Efficiency and Renewable Energy - Alternative Fuels Data Center; Iowa Department of Economic Development; U.S. Census Bureau - 2018 Population Estimates; LSA calculations  
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