



4/8/2025

Electric Vehicles
Readiness Roadmap
Update-Staff Report

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FC Moves





An **all-electric** vehicle runs on an electric motor. It uses a charger and regenerative braking to charge the battery. The range is generally between 80-370 miles.

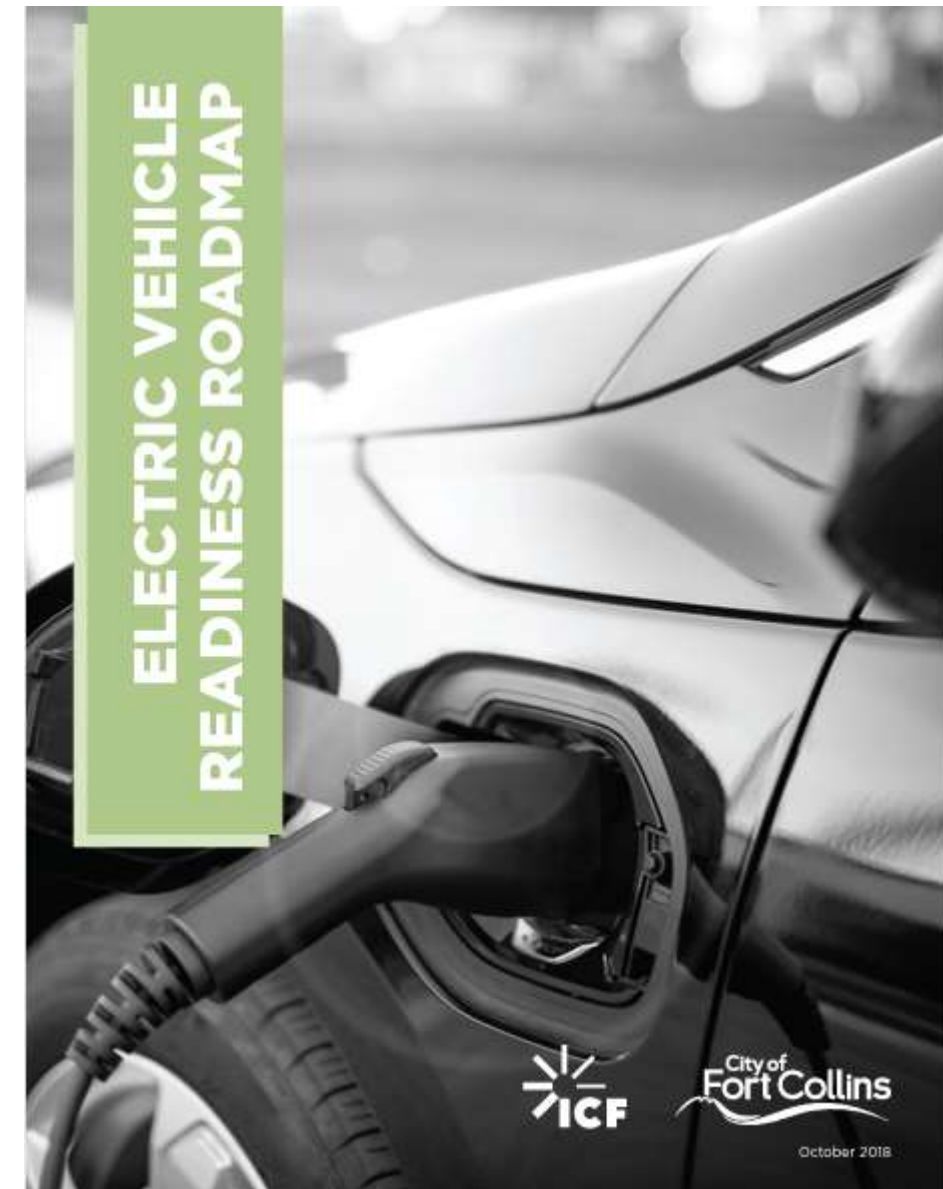


A **plug-in hybrid** electric vehicle runs on an electric motor and engine. It uses a charger and regenerative braking to charge the battery. Gas kicks in when the battery is depleted. The electric range is generally between 50-80 miles. Total range can reach 600 miles.



A **hybrid electric** vehicle runs on an electric motor and engine. It uses regenerative braking to charge the battery but does not use a charger. Its battery can provide 10-50 miles of added fuel economy.

- EVRR Format
 - Introduction
 - Vision and goals
 - EV overview
 - General EV information
 - Charger types and considerations
 - EV Market Assessment
 - Local trends and projections
 - Readiness Strategies
 - Recommended strategies
- Added points of emphasis with the update
 - Equity
 - Evenhanded portrayal
 - Electric transportation options (e-bikes, e-scooters, carshare)



Fort Collins will promote the community's adoption of electric vehicles through equitable access to charging infrastructure, engaging outreach and education, innovative policy approaches, and leading by example.

- Mobility:** Support the electrification of shared transportation options in Fort Collins, including carshare, rideshare, shared micromobility, and transit, to ensure equitable access and foster a sustainable, interconnected transportation system.
- Equity:** Engage disproportionately impacted communities to develop suitable EV-related outreach, projects, and incentives that increase awareness and access to electrified transportation options.
- Environmental:** Reduce local contributions to climate and air pollution from transportation sources through increased adoption of electrified transportation options.
- Utility/ Grid Infrastructure:** Identify the need for additional level 2 and 3 public charging infrastructure throughout the city and support the installation of needed infrastructure and corresponding utility improvements.
- Residential Charging:** Increase access to charging infrastructure for rental properties and multi-family units, prioritizing the most affordable housing stock.
- Policy:** Review and update existing City policies related to electric vehicles, electric transportation devices, and charging infrastructure. Recommend additional policies to facilitate increased adoption and access to alternative electrified transportation options.

- 84% of EV owners can reliably charge at home
 - 27% of Non-EV Owners could reliably charge at home if they had an EV
- Primary barriers to EV adoption were purchase price, charging availability, and battery performance in cold weather
- Expanding public charging was the highest priority by a large margin
- Less than 10% of respondents who own an EV use public chargers on a weekly basis
- Renters were more likely to report not being able to charge at home than homeowners.
- Multifamily residents were less likely to purchase an EV and cited access to charging as the main barrier
- Residents making less than \$75,000 yearly ranked accessibility and affordability as their highest priority

Expand Charging Infrastructure

- **Increase the Number of Charging Stations:** Develop more charging stations in key locations such as public facilities, shopping centers, and residential areas.
- **Strategic Placement:** Ensure charging stations are distributed in high-traffic areas and near essential services to maximize accessibility.

Address Cost Concerns

- **Subsidize Public Charging:** Explore options to subsidize or lower the cost of public charging stations to make them more affordable.
- **Incentivize Home Charging:** Offer incentives or rebates for residents who install home charging equipment to reduce the financial burden.

Enhance Educational Outreach

- **Organize Community Workshops:** Host regular workshops and information sessions on EVs, including their benefits, costs, and maintenance.
- **Develop Multilingual Resources:** Provide educational materials in multiple languages to reach a broader audience and ensure clear communication.

- High purchase price
- Access to charging at home
 - Multifamily
 - Renters
- Lack of charging infrastructure
 - Local, regional, state, national
- Single vehicle households
- Range anxiety
- Awareness and education related to EVs



- Cost of installation
 - Networking Costs
 - Impact Fees
 - Capacity Fees
 - 3 Phase 480V Service
- Ongoing maintenance costs
- Site variability/suitability
- Lack of ROI
- Charging Providers avoiding Fort Collins specifically regarding Level 3 charging
 - Upfront fees deterring private sector installations
- Unclear funding future

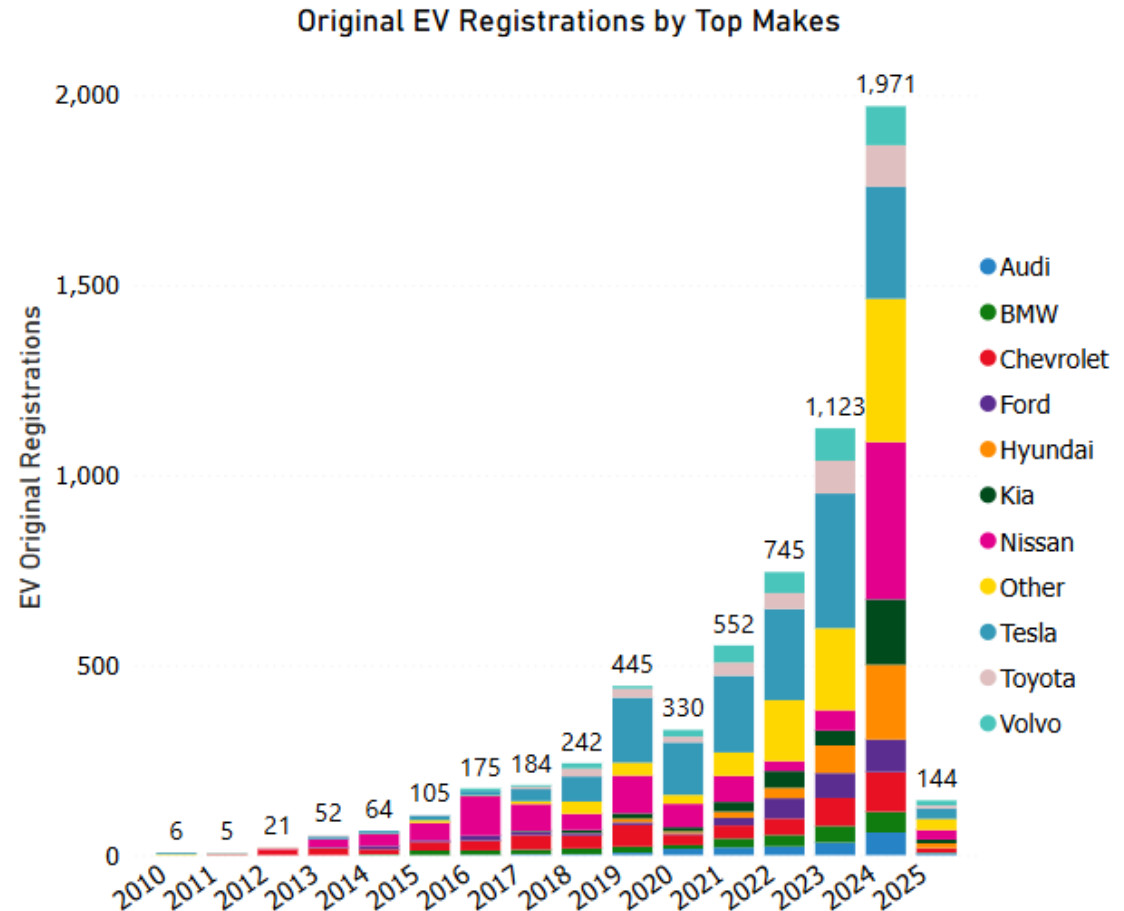


Vehicles

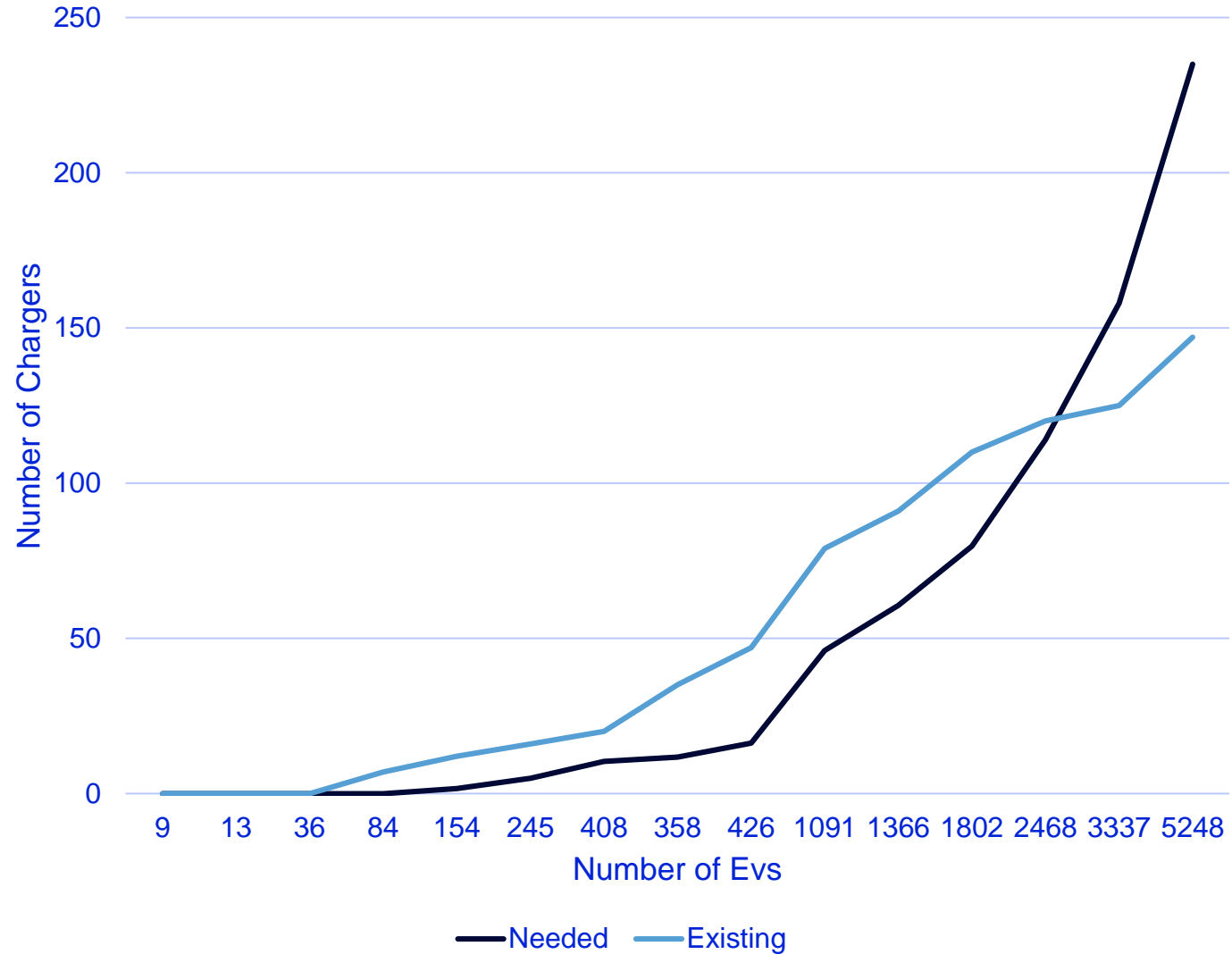
- Number of EVs on the road: 5248 (2025 Q1)
 - 4.27% of light-duty vehicles
- Percentage of new vehicle purchases
 - Fort Collins area: 20% (end of 2024)
 - Statewide: 25.3% (2024 Q3)
 - #1 State for market share of new EVs

Chargers

- 147 Public Level 2 ports
 - 166-255 recommended
- 6 Public Level 3 ports
 - 16-26 recommended



Charging Infrastructure





Outreach and
Education



Regional and Partner
Coordination



Policy



Incentives



Infrastructure



Leading by Example



Emerging Technology



Equity

- Finalize EVRR Document
 - Late April-early May

- Establish and convene EV Working Group
 - May

- Prioritize Strategies and develop short-term implementation plan
 - Identify responsible staff/departments
 - Identify community partners
 - Develop budget and Identify funding sources

THANK YOU!

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- Outreach and Education
 - Educate local businesses about workplace charging
- Regional and Partner Coordination
 - Encourage EV ride-hailing and car sharing
- Policy
 - Monitor and refine current policy (ex. building code)
- Incentives
 - Income-qualified vehicle purchase rebate
- Infrastructure
 - Expand City-owned public charging stations
- Leading by example
 - Employee incentives for sustainable forms of transportation
- Emerging Technology
 - Battery Recycling
- Equity
 - Inclusive EV programming