

3. Comprehensive Planning

File No. 210146. Communication relating to potential mechanisms to support the installation of Electric Vehicle Charging Stations through the zoning code.



Source: General Motors

3. Comprehensive Planning

File No. 210146. Electric Vehicle Chargers.

Mandate:

- Research how EV chargers are handled in zoning codes
- Address potential principal use charging facilities
- Suggest changes to zoning code

Goals:

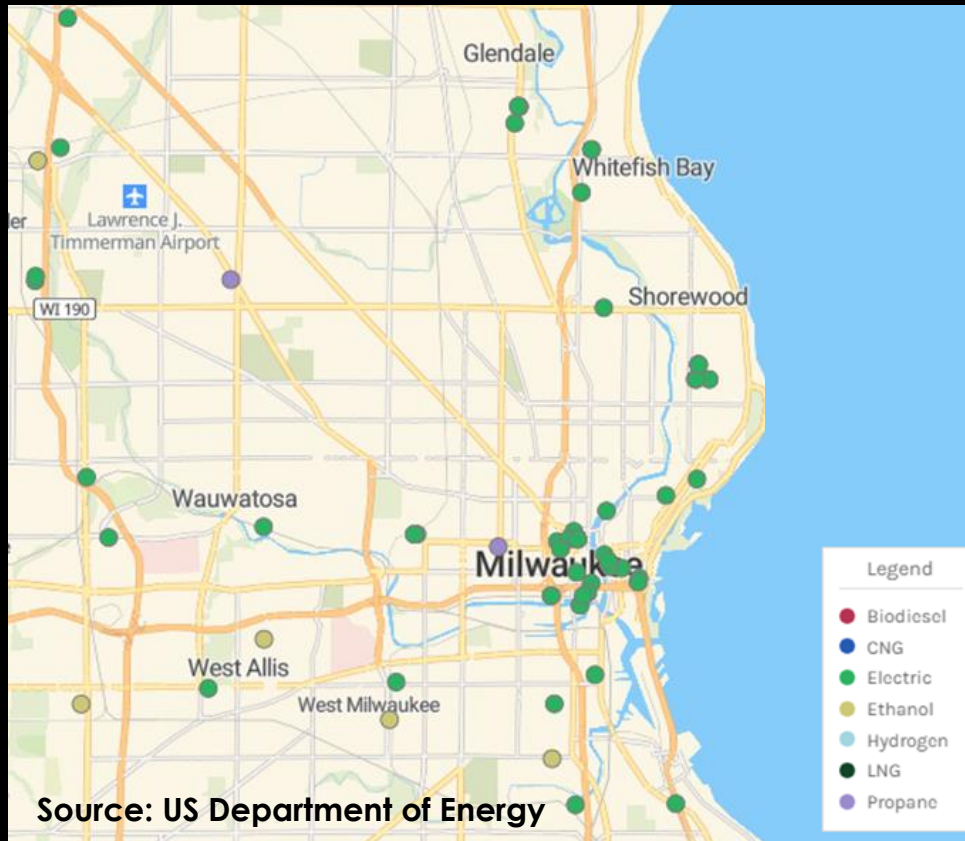
- Support the creation of charging stations
- Simplicity and Flexibility
- Prepare for potential EV planning recommendation:
 - Transportation and Mobility work group for the Climate and Equity Task Force

3. Comprehensive Planning

File No. 210146. Electric Vehicle Chargers.

Background:

- Currently not considered by zoning code
- Clarification is necessary






Charger on N. Warren Ave (Photo by Greg Patin)

3. Comprehensive Planning

File No. 210146. Electric Vehicle Chargers.

Background:

- Still a small portion of the new car market, but an increasing one
- Most charging occurs at home
- Range “anxiety”

KNOW YOUR EV CHARGING STATIONS		
		
AC Level One	AC Level Two	DC Fast Charge
VOLTAGE 120v 1-Phase AC	VOLTAGE 208V or 240V 1-Phase AC	VOLTAGE 208V or 480V 3-Phase AC
AMPS 12–16 Amps	AMPS 12–80 Amps (Typ. 32 Amps)	AMPS <125 Amps (Typ. 60 Amps)
CHARGING LOADS 1.4 to 1.9 kW	CHARGING LOADS 2.5 to 19.2 kW (Typ. 7 kW)	CHARGING LOADS <90 kW (Typ. 50 kW)
CHARGE TIME FOR VEHICLE 3–5 Miles of Range Per Hour	CHARGE TIME FOR VEHICLE 10–20 Miles of Range Per Hour	CHARGE TIME FOR VEHICLE 80% Charge in 20–30 Minutes

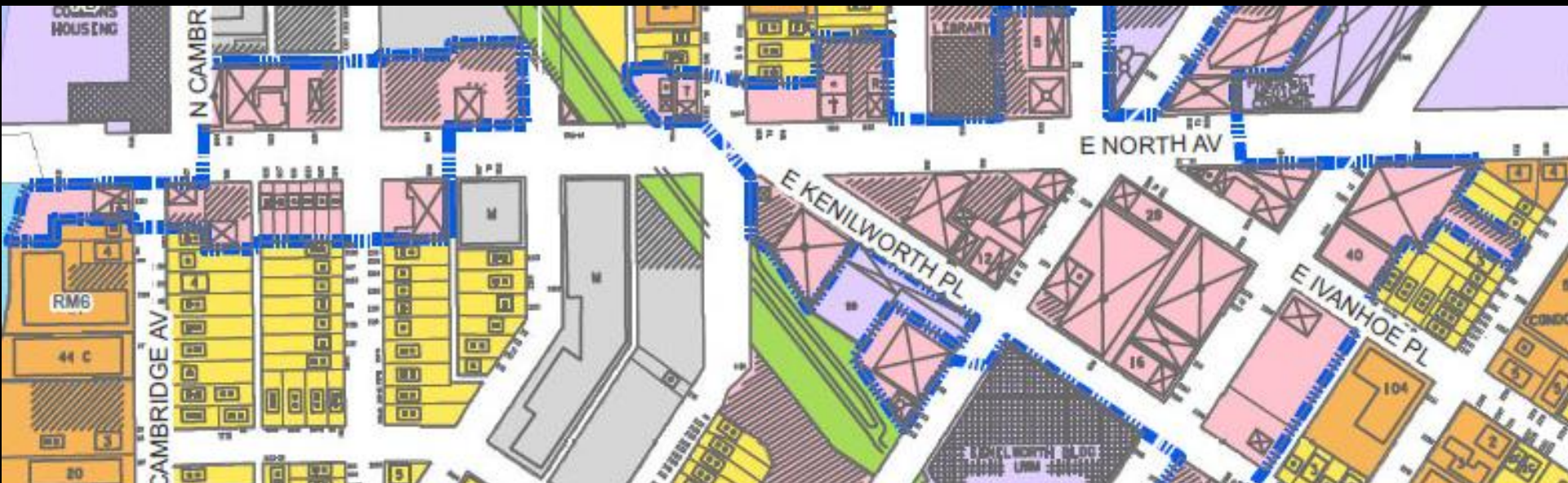
Source: Kristi Brodd – Carolina Country

3. Comprehensive Planning

File No. 210146. Electric Vehicle Chargers.

Zoning Proposal:

- Insert language to allow charging stations ("Electric Vehicle Charging Stations") in all zoning districts
 - Site Standards subsection
 - Restricted to private use in Residential Districts?
- Create new use category for principal use charging stations "Electric Vehicle Charging Facility"
 - Zoned similarly to Filling Stations (Special Use in most districts)
 - Rare, but inevitable



3. Comprehensive Planning

File No. 210146. Electric Vehicle Chargers.

Next Conversations:

- City-wide EV policy
- Planning Policies
 - Planned Developments
 - Comprehensive planning
- On-street charging stations
- Lingering policy decisions
 - Public chargers in res. districts, EV charging facility zoning, future city policies



Source: Kohl's Corporation

