

Tesla Charging

EVSE Training for W&M
Inspectors and Service Agents

February 2026
Garden Grove, CA

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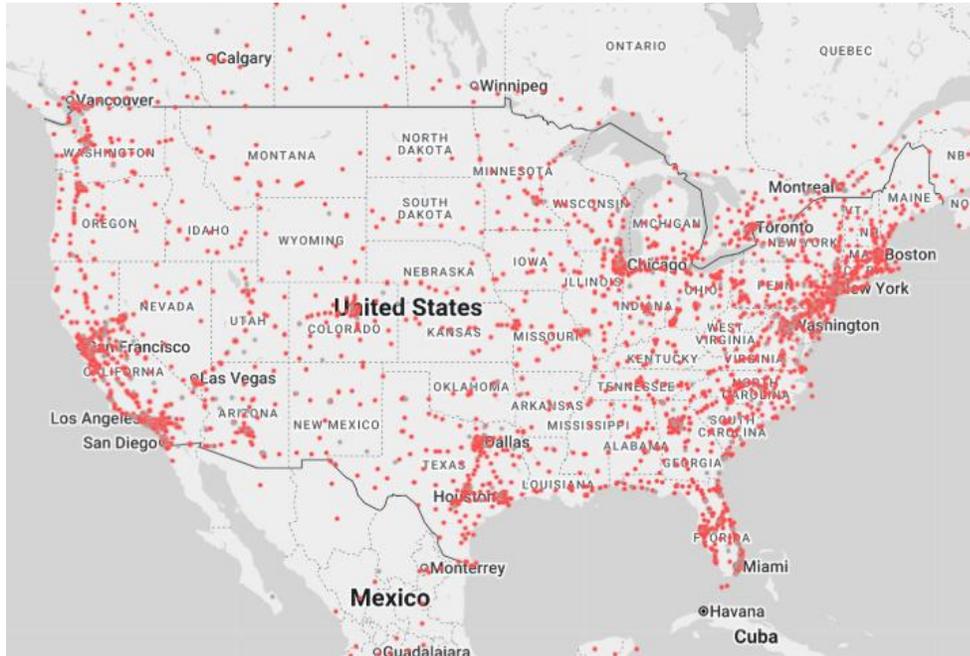
Agenda

- Network footprint in the US
- Tesla's approach to charging infrastructure
- Charging user experience
- Practical considerations for inspection



Tesla Charging Network

Ubiquity is key



More than 2,900 locations and 36,000 Supercharger (DCFC) Stalls in the U.S.



More than 4,700 locations and 12,000 Destination Chargers (AC) in the U.S.

Tesla's Charging Philosophy

Seamless, convenient, and cost effective

- **Objective:** Create a convenient and seamless customer charging experience that is always reliable
- **Pathways:**
 - Simple and efficient designs
 - Plug and Charge
 - 99%+ uptime
 - Larger sites as customer adoption grows
 - Ubiquitous charging that integrates with customer's daily lives
 - Dynamic trip planner

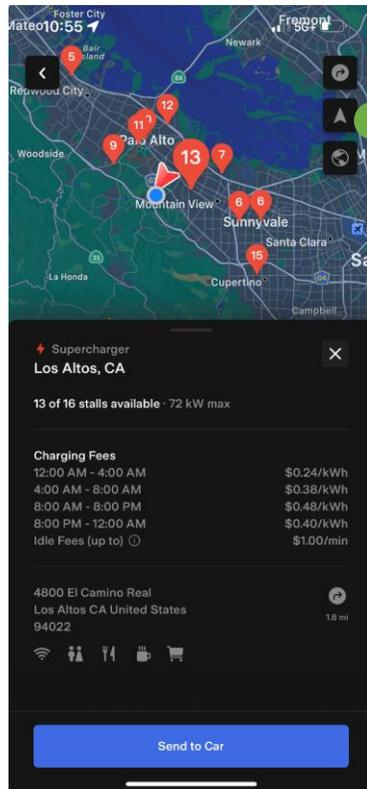


Charging User Experience

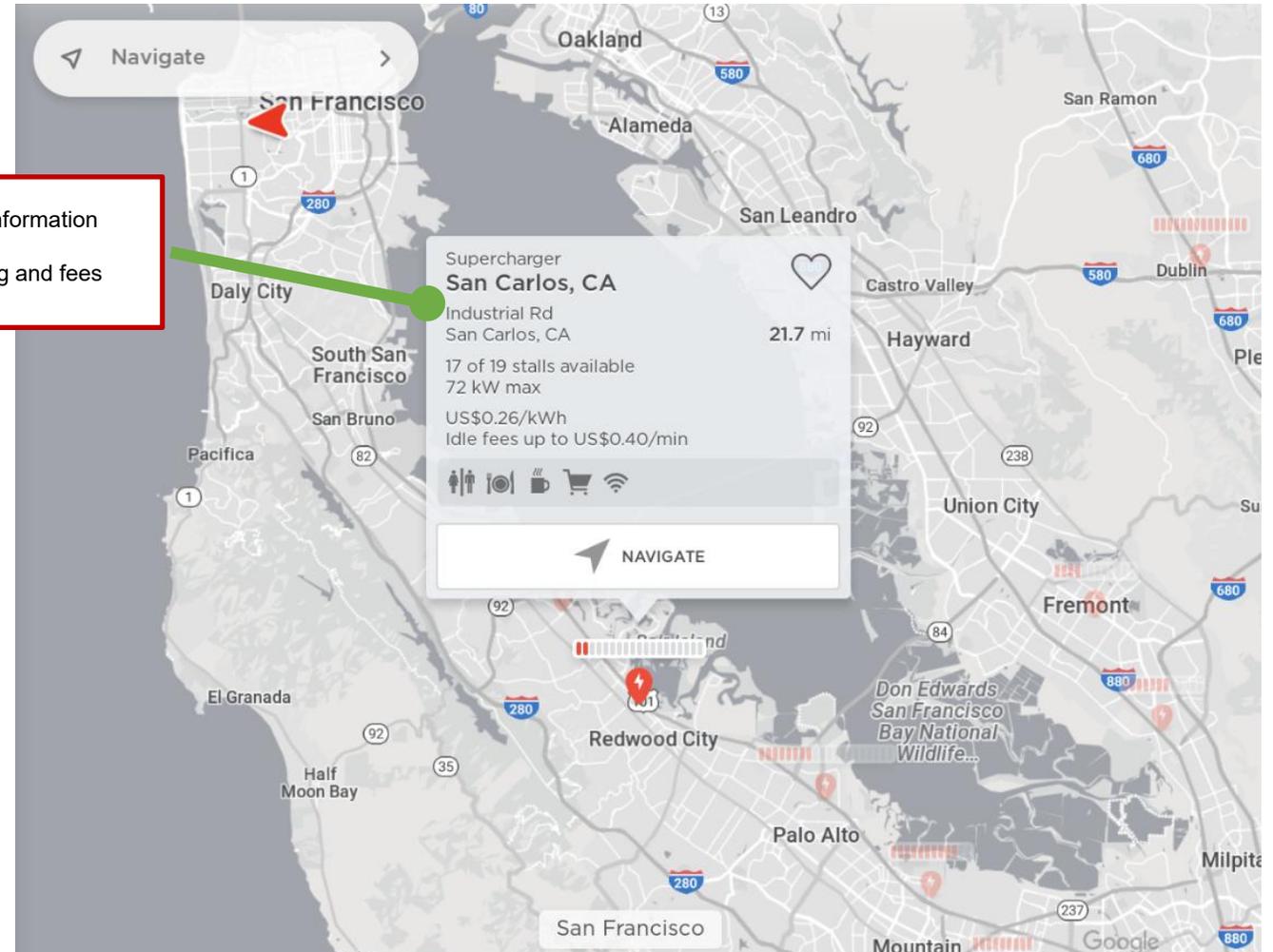
Digital customer interfaces in vehicle and phone are used for site discovery, payment, charging control, and receipt.

1) Prior to Arrival: Wayfinding and Price Discovery

- Display charging location, real-time pricing and fees to help drivers decide where to charge



Site information
Pricing and fees



Charging User Experience

Digital customer interfaces in vehicle and phone are used for site discovery, payment, charging control, and receipt.

2) During Charging: User Authentication, Charging Control

- Payment method input to Mobile App or web interface
- Start charging functionality on Mobile App (for non-Tesla EV)
- Real-time display in vehicle UI/Mobile App or web interface on metering, energy, session pricing

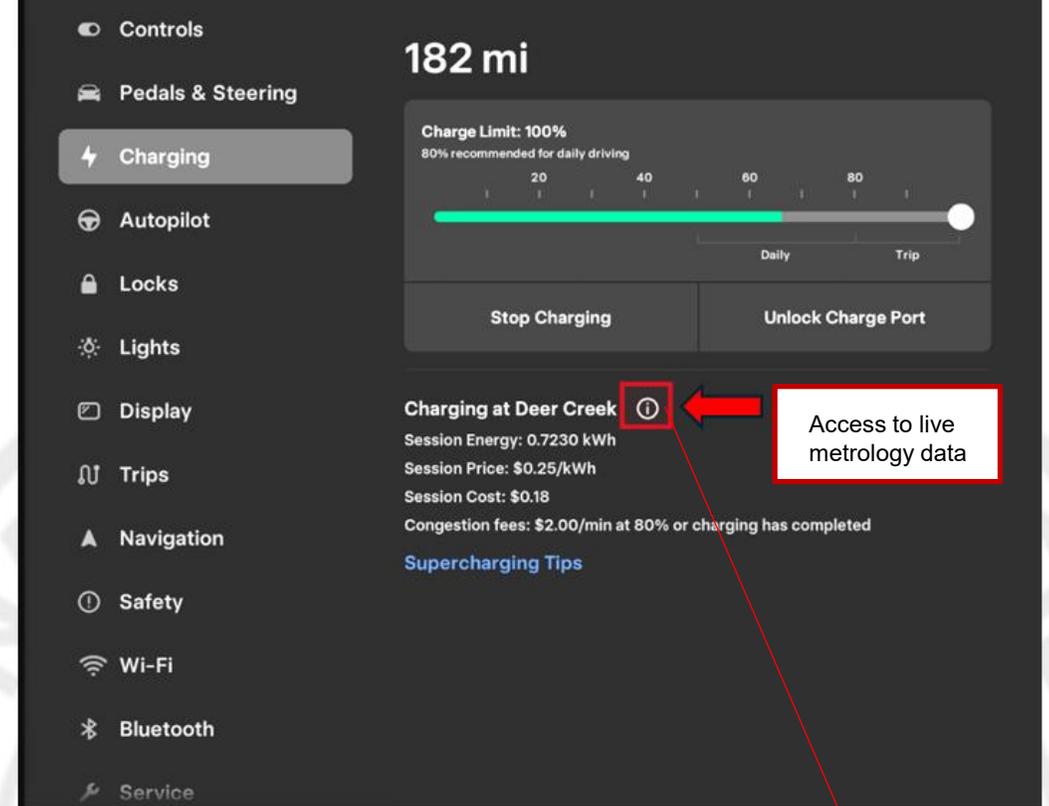
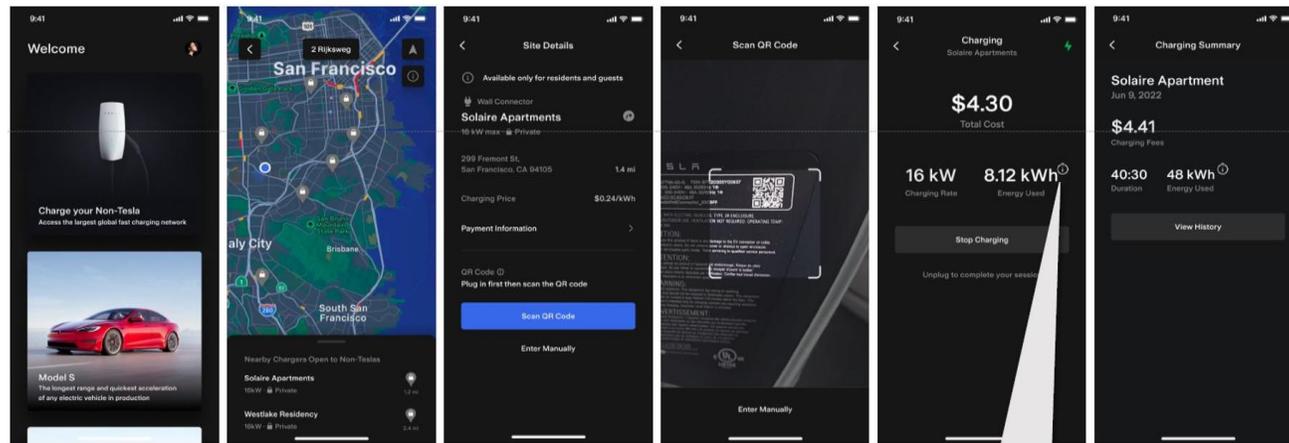
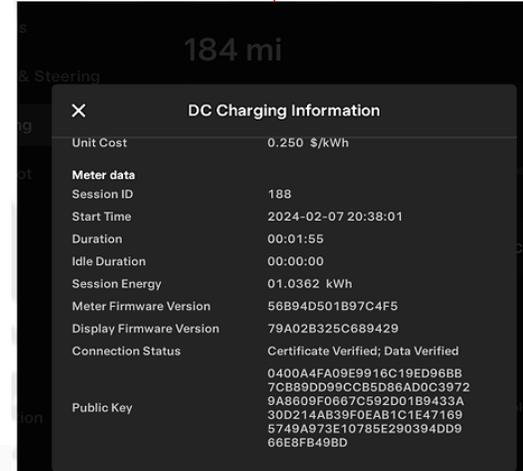


Figure 5. Tesla vehicle user interface display example

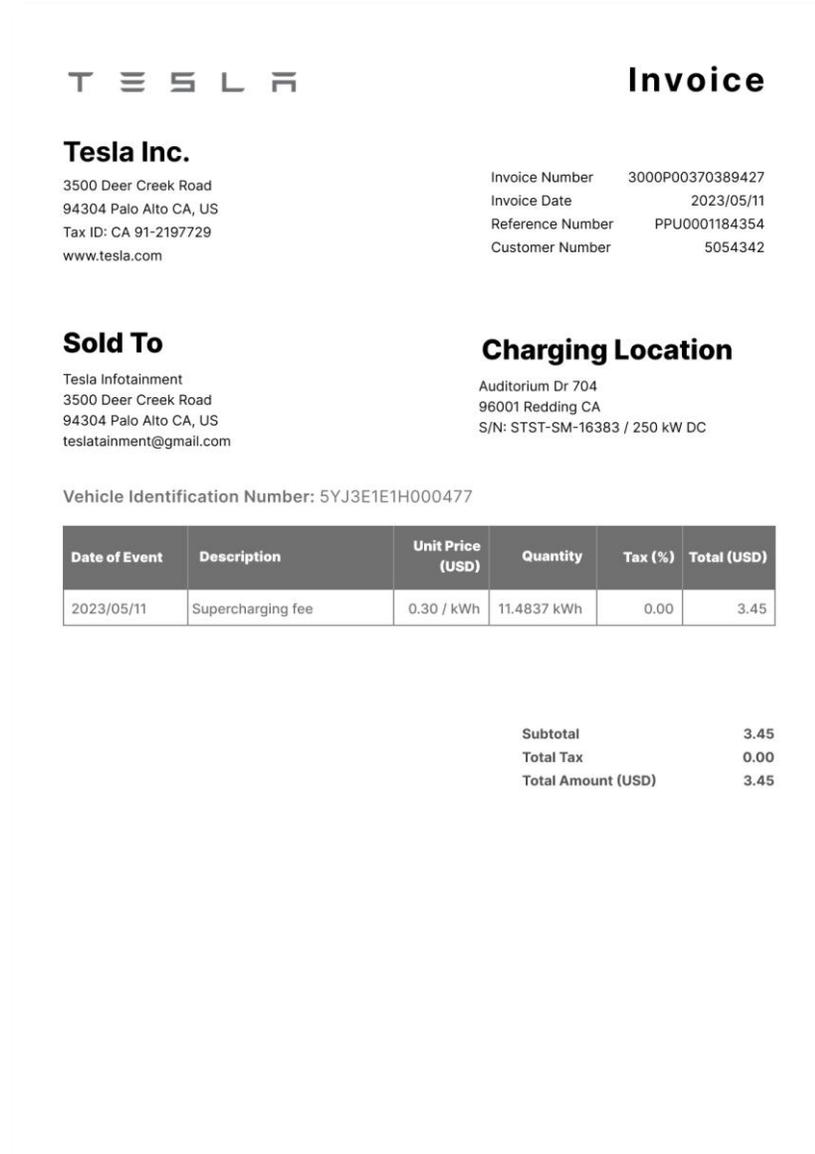
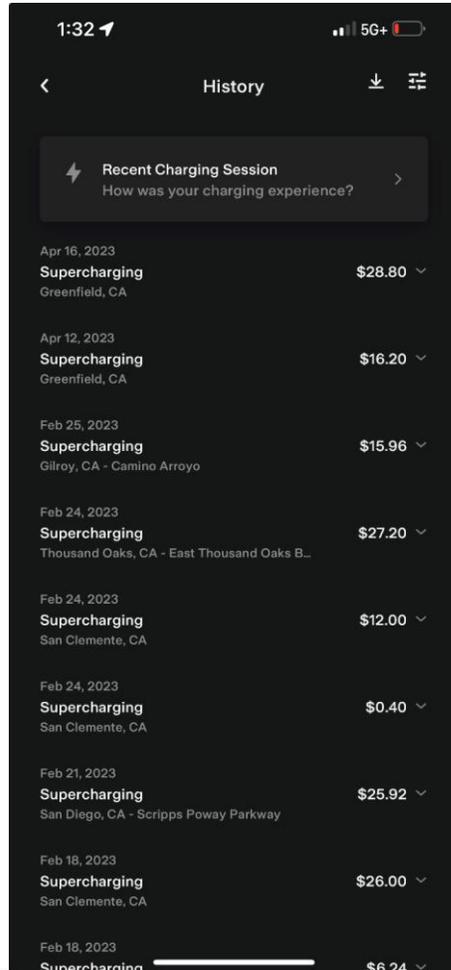


Charging User Experience

Digital customer interfaces in vehicle and phone are used for site discovery, payment, charging control, and receipt.

3) After Charging: Receipt

- Receipt provided in Tesla account



Weights and Measures Program Objectives:

1. Ensure consumer protection
2. Avoid disruption to EV drivers
3. Scale programs at reasonable cost and effort



Man-in-the-middle cable testing and EV

Practical considerations for inspection

Consider

- Use an EV for testing rather than load box
- Handbook 44 allows for single set point test for field verification – 40% of maximum deliverable amperage (MDA) – when using an EV

Benefits

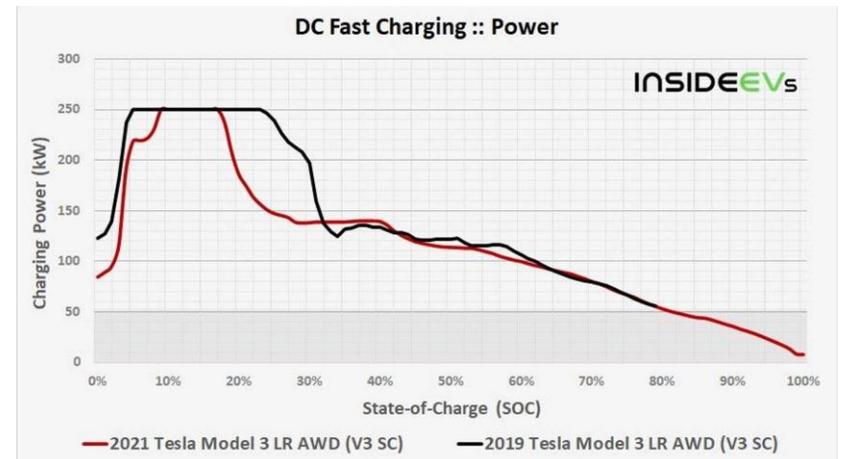
- EV can serve as mode of transportation and testing tool for inspector
- Inspection is consistent with how EV charger is used
- Load boxes do not always behave like EVs
- Diversified test options can support doing more with less

Challenge

- Limited resources



EV + man-in-the-middle test setup



Power requested from EV during DCFC session is not static.

Risk based testing

Practical considerations for inspection

Consider

- There are already 50% more EV chargers than gas pumps in CA with < 10% EVs on the roads
- Test a sample of devices per site
- Shift to man-in-the-middle cable testing

Benefits

- Reduce staff and testing resources needed
- Fitting for large sites (4 stalls vs 8 stalls vs 100+ stalls)
- No waiting for every charger to be vacant

Challenge

- Initial data is needed to appropriately identify categorize risk



Lost Hills, CA: **168** stalls supported by 11 MW solar and 39 MWh of storage located off I-5. **Full week to test**



Dwell time may be 8 hours at workplace during business hours. **When to test?**

Conditional use authorization via “blue tags”

Practical considerations for inspection

Consider

- Rely on conditional use authorization to keep EV chargers in service after minor violations
- Flexibility in timing to resolve issues

Benefits

- Focuses enforcement on issues that meaningfully affect consumers
- Minimizes disruption and confusion to EV drivers
- Consistent with state EV infrastructure reliability goals
- Appropriate given newness of enforcement programs

Challenge

- Certain level of inspector knowledge is needed
- Gray areas

