

# ELECTRIC VEHICLE (EV) CHARGING SOLUTIONS



## How Does Willdan Help?

Willdan provides public agencies with strategic solutions to electrify buses, city fleets, and other vehicles. We'll help you develop a cost-effective action plan that increases resiliency and efficiency to prepare your community for the future.

### Analysis

- EV Roadmaps and Business Plans
- Fleet Conversion Assessment, Feasibility, and Route Modelling
- Grid Impact Studies
- Integration with Renewables, Microgrids, & Smart Cities
- Load Growth Forecasting
- Traffic Studies
- GIS Mapping

### Planning

- CARB ICT Compliance Strategy and Planning
- Utility Infrastructure and Interconnection Coordination
- Grant Applications & Financing
- Capital Planning Assistance
- Community-wide EV Planning
- Smart Charging Strategy
- EV Policy Guidance

### Installation

- Procurement Support
  - RFP Assistance
  - Technical Specification Development
  - Bid Evaluation
  - Contract Negotiations
- Construction Management & QA
- Workforce Training & Education

## Why Willdan?

- 50+ years supporting local government projects and departments
- 13 EV-specific projects
- Connected customers to over \$500M in EV incentives, rebates, and grants
- End-to-end (Turnkey) technical consulting
- **We want the best solution for your needs and gladly work with your preferred contractors**



## Ready for EVs? Call US!

**Steven Clarke**

 **415.699.9310**

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## Willdan Helps You:



Quickly and efficiently convert your fleets



Manage your energy use and utility bills

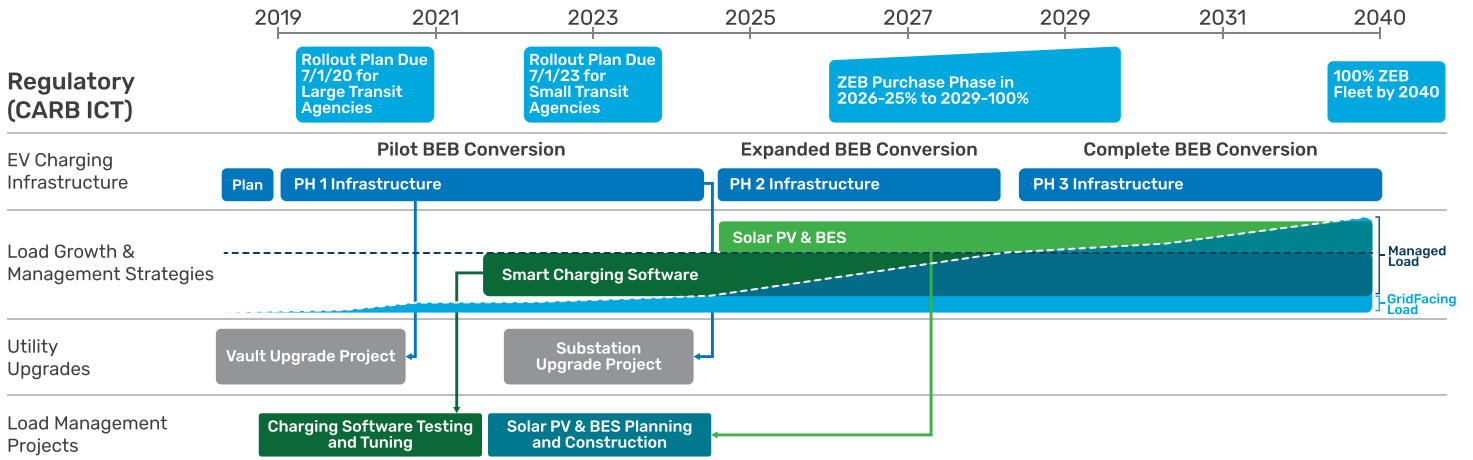


Secure funding for your vehicles and infrastructure upgrades



Enhance your EV charging with solar and battery storage

# EV FLEET PLANNING - RENEWABLES ACTION PLAN



**KEY** CARB: California Air Resources Board ICT: Innovative Clean Transit ZEB: Zero Emission Bus EV: Electric Vehicle PV: Photovoltaic BES: Battery Energy Storage

## OUR EV PROJECTS

### Government & Utilities

- Port of Hueneme
- Tulare County Association of Governments
- East Bay Regional Park District
- Hawaiian Electric

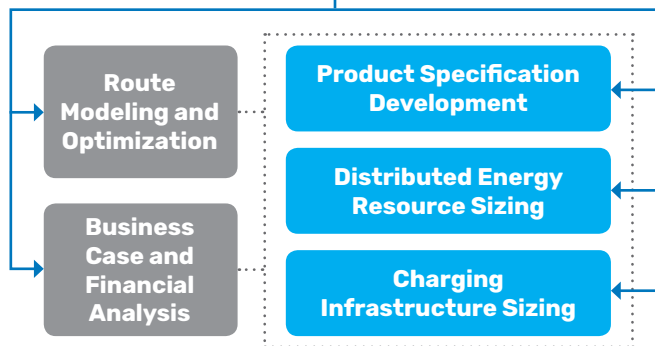
### Education

- De Anza College
- Chaffey College
- CUNY Queens College
- San Diego County Office of Education
- Illinois Institute of Technology

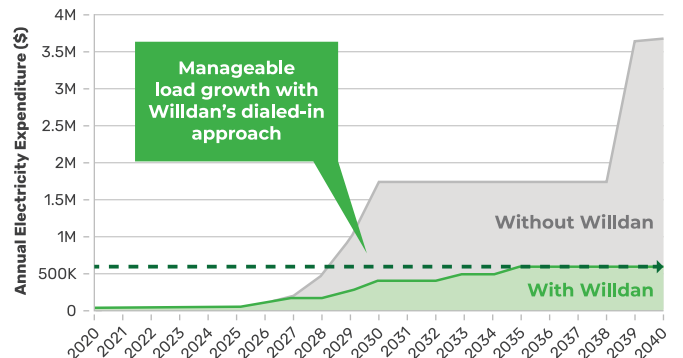
### Cities

- Rialto
- Santa Monica
- Elk Grove
- Roseville
- Culver City


## VEHICLE ELECTRIFICATION PLANNING SOFTWARE



## ELECTRIC FLEET CONVERSION ANNUAL ENERGY COSTS



## KNOW YOUR EV CHARGING SOLUTIONS

Charging Level	Light Duty Vehicles	Heavy Duty Vehicles
Level 2	 <p><b>POWER SUPPLY:</b> 220VAC  <b>CHARGE POWER:</b> 3.3-6.6kW  <b>MILES OF RANGE FOR 1 HOUR CHARGE:</b> 17-20 Miles  <b>PLUG STYLE:</b> SAE J1772</p>	<b>NOT ADVISABLE</b>
Fast Charge	<p><b>POWER SUPPLY:</b> 220-450VAC  <b>CHARGE POWER:</b> 50-350kW  <b>MILES OF RANGE FOR 1 HOUR CHARGE:</b> 50-100+ miles (up to 80%)  <b>PLUG STYLE:</b> CHAdeMO or SAE Combo (CCS) or Tesla</p>	<p><b>POWER SUPPLY:</b> 220-480VAC  <b>CHARGE POWER:</b> 60-500kW  <b>MILES OF RANGE FOR 1 HOUR CHARGE:</b> 50-100+ miles  <b>PLUG STYLE:</b> SAE Combo (CCS) or Overhead Pantograph J3105 OppCharge</p>