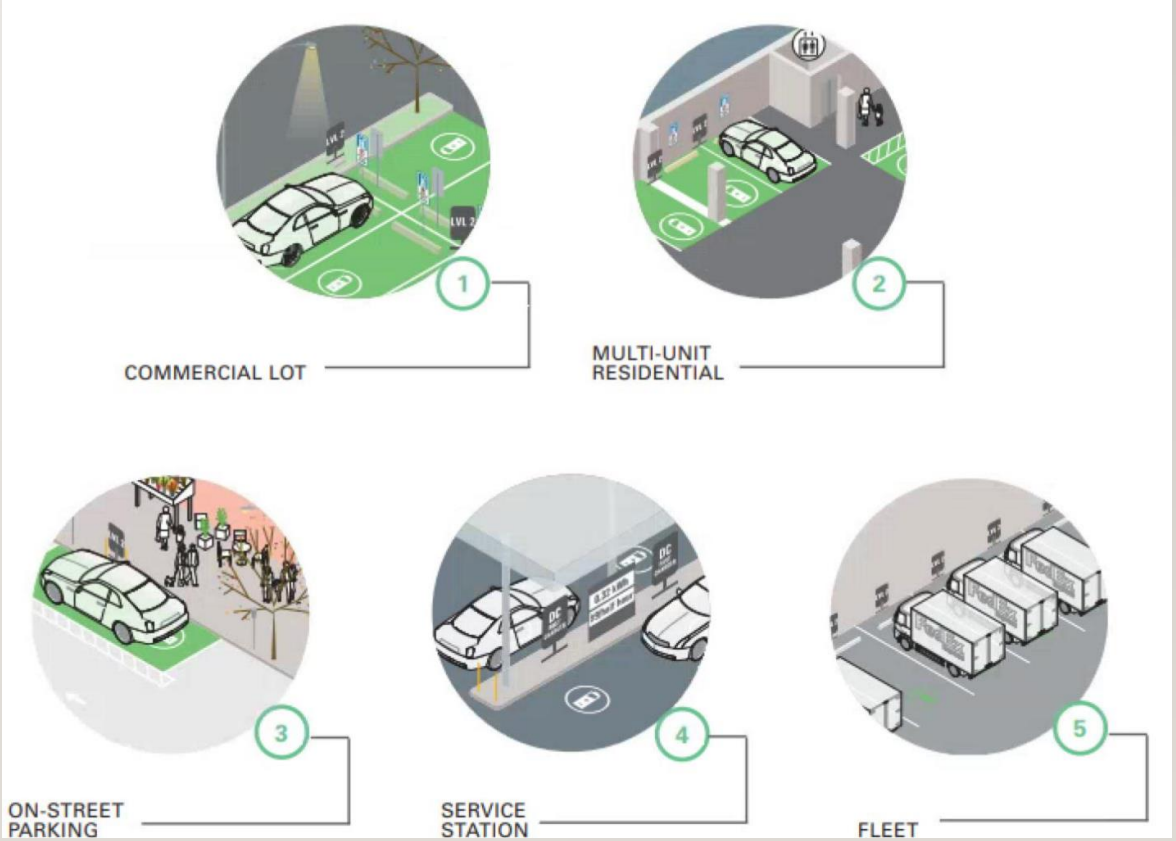
ELECTRIC VEHICLE INFRASTRUCTURE PLAN

SCAG™
INNOVATING FOR A BETTER TOMORROW

EV INFRASTRUCTURE PLAN OBJECTIVE

Comprehensive Plan to Install EV Charging Stations

- Curbside
- Multi-Unit Dwellings (MUD)
- Single Family Homes
- Commercial
  - Fleets
  - Employees
  - Retail Service Stations



GRANT FROM THE SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS

Grant

- Covers all costs with no matching requirement
- SCAG is Funding Source and Project Manager
- Grant Recipients:
  - Group 1: Anaheim, Long Beach, Los Angeles, Culver City
  - Group II: Artesia, Pico Rivera and Redlands
  - Group III: San Gabriel Valley Council of Governments, Diamond Bar, Baldwin Park, Covina, Glendora, La Puente, La Verne, Monrovia, Rosemead, San Dimas, South El Monte, Walnut
- Each City Receives Custom Plan
- Willdan Contract Approved by SCAG Board on 10/1/20
  - 18-month schedule

EV CHARGING STATION **LEVELS**

Level 1 (Home)

- 120 volts using 15-20 amps
- 4 - 5 miles per hour

Level 2 (Home and Work)

- 240 volts using 16 - 40 amps
- 12 - 60 miles per hour

Level 3 (Public - Fast Chargers)

- 480 - 800 volts
- 300 - 1,000 miles per hour

CITY INITIATED EV CHARGING STATIONS

Locations

- City Hall: 14 employee and 1 public (Levels 1 and 2)
- Vets: 3 public (Level 3)
- Senior Center: 3 public Level 3)
- Ince Parking Structure: 3 Public (Level 2 and 3)

Utilization: All 14 employee stations at City Hall

Veterans Memorial Complex – Senior Center – Ince Parking:

- Owned and operated by EVgo at no cost to City

City Fleet:

- Transition to EV Buses by 2028

SCOPE OF WORK

Community Outreach

- Prepare/Conduct Community Events and Listening Sessions

Steering Committee

- Public Works (Lead) – Mobility & Traffic Engineering
- Transportation – Fleet Operations
- Community Development – Advanced Planning; Economic Development; Building Safety
- Stakeholder Interviews and Input

  Chamber of Commerce, BIDs, Clean Power Alliance, SCE, Charging Station Manufacturers, Commercial Property Owners, Residential Multi-Unit Dwelling (MUD) Landlords, Neighborhood Groups

SCOPE OF WORK

Site Suitability Analysis

Compile the following information

- Inventory of existing charging infrastructure
- DMV EV registration data
- Morning and mid-day modeled EV destinations
- Land uses
- Locations of large employers

Identify and rank potential EV charging sites

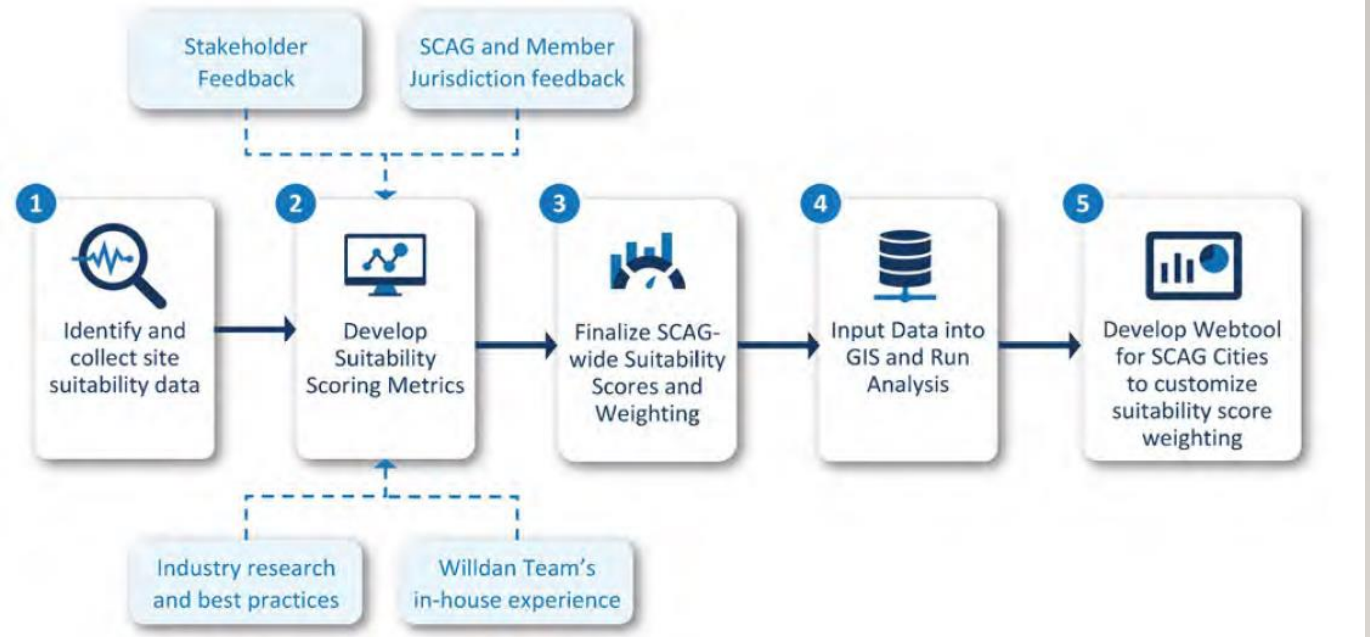


Figure 1. EV Siting Analysis Process

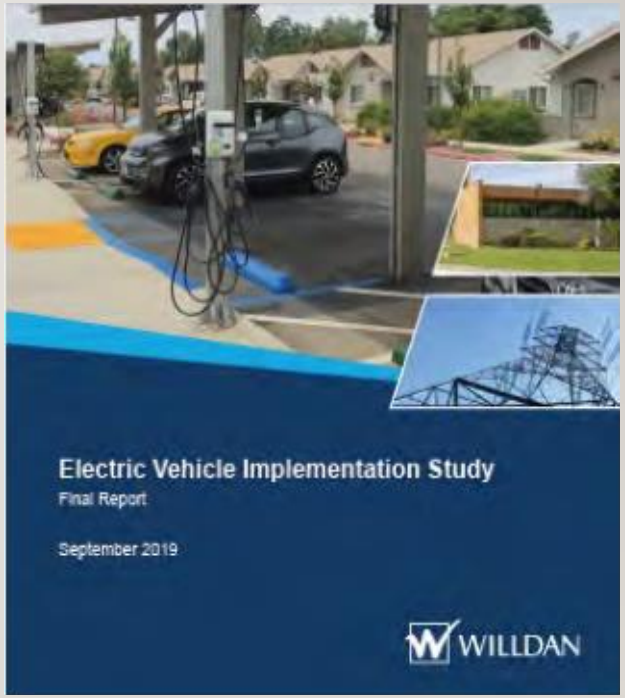
SCOPE OF WORK

Policy Analysis

- Building codes
- Parking codes
- Zoning codes
- Permitting and inspection processes
- Information derived from outreach efforts
- Funding sources and regulations -- including local, regional, state, and federal (Newsom EV-Only by 2035, SCE's Charge-Ready-2 Program, CEC, VW Settlement Funds, LADWP, etc.)

Recommendations

- Identify barriers and propose new policies and practices
- Develop incentive/rebate program to encourage transition



SCOPE OF WORK

Educational Guides

For Property Managers

- EV charging basics, including charger types, siting and installation, maintenance, typical costs, payment mechanisms, and parking considerations
- Basics of paying for EV infrastructure, including the business case for EV charging (e.g., average return on investment and payback period) and funding mechanisms (e.g., grant and loan programs)
- State requirements, such as accessibility (i.e., Americans with Disability Act)
- Basics of working with utilities
- Basics of local policies, including permitting processes and inspection procedures

Promotional Brochure for Residents

- Personal and community benefits of EVs (e.g., fuel savings and air quality benefits)
- Examples of available EV models
- Available rebates for new and used vehicles
- Basics of EV charging, including both residential and public charging

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Questions?