



## SCAG Clean Technology Program Update

October 2022

Tom Bellino

bellino@scag.ca.gov

[WWW.SCAG.CA.GOV](http://WWW.SCAG.CA.GOV)

Introduction

## Clean Technology Vision

- Connect SoCal 2020 includes a holistic and coordinated approach to de-carbonizing or electrifying passenger, transit and goods movement vehicles and a *vision* for a zero-emission transportation system or using cleaner mobility options where zero emission options are not feasible.

A wide-angle landscape photograph showing a lush green golf course in the foreground, with a residential development of houses and trees in the middle ground. The background consists of rolling hills with sparse, dry vegetation under a clear sky.

INNOVATING FOR A BETTER TOMORROW

SCAG is the nation's largest metropolitan planning organization, representing six counties, 191 cities and more than 19 million residents. SCAG undertakes a variety of planning and policy initiatives to encourage a more sustainable Southern California.

## Ongoing Research, Evaluation and Planning

### Light Duty and Transit:

- Transit Agency Grant Administration
- EV Charging Site Suitability Study (EVCSS) Part of Sustainable Communities Program
- AI-Powered Automated Traffic Monitoring Sensor and Analytics Demonstration Project (with UCI) using EV fleet
- Measuring VMT Reduction from LADOT EV Car Share program.

### Rail and Goods Movement:

- Medium and Heavy Duty Zero Emissions Roadmap
- RHETTA pilot partnership with EPRI/CEC
- Last Mile Freight Program Evaluation
- Regional Rail Electrification Analysis



## HIGHLIGHTED STUDIES

# PEV Site Suitability Study; Goals and Objectives

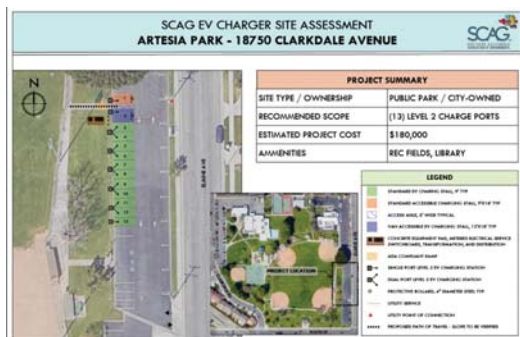
- Help jurisdictions in the SCAG region promote electric vehicle charging stations (EVCS) to accelerate transportation electrification
- Develop tools and methods for cities
- Focus on increasing EV infrastructure in traditionally hard to serve sectors – disadvantaged communities (DACs) and multi-unit dwellings (MUDs)
- Includes policy evaluation and guidance (AB 1236), listening sessions, community events, site selection tool, and site planning.



## Sample Tools to Support Cities

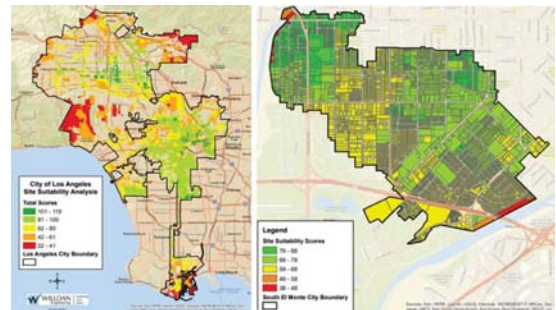
### Site Planning and Evaluations

- High level conceptual plans for 5-10 sites per city



### Suitability Analysis

- Three scenarios developed to reflect different stages of EV adoption



## Project Status and Next Steps

### Completed

- 21 Listening Sessions
- 15 Community Outreach events
- Policy Memos for each city
- Brochures and Factsheets
- Stakeholder survey
- Regional Suitability Analysis
- Site Evaluation template

### Underway and Next Steps

- City Level PEV Infra. Plans
- Conceptual Level site plans
- Integrate regional Site Suitability Analysis into PEV Atlas
- Study to conclude Feb 2022
- Share results in Toolbox Tuesday Dec 13th

SCAG Work – Research, Evaluation and Planning –MD/HD ZE Trucks

## Supporting Infrastructure for Medium and Heavy Duty Zero Emission Trucks

### Goals and Objectives

- Plan for Zero Emission Supporting Infrastructure focused on both Battery Electric and Hydrogen Fuel Cell trucks
- Understand and address stakeholder concerns and needs
- Understand site level needs for station development
- Create a Regionally Supported Roadmap for MD/HD ZE Fueling Infrastructure



# Supporting Infrastructure for Medium and Heavy Duty Zero Emission Trucks

## Expected Tasks and Deliverables

- Refined understanding of truck markets, travel patterns, and relevant operational characteristics
- Define demand of Charging Network by Market
- Assessing the potential supply of land for stations
- Distribution of Charging network; based on
  - Travel demand, Existing stations, Power and fueling supply, other TBD
- Potential impacts to surrounding communities
- Stakeholder Engagement and Outreach
- Assessment of 10 key sites
- A regionally vetted action plan



## Timeline and Next Steps

- Kick-off
- Convene Project TAC
- Determine Data Plan to Define Truck Network
- Anticipate 18-24 month project
- Initial findings in 2024 Connect So Cal
- Supplemental work on Power Supply







# CLEAN TECHNOLOGY PROGRAM POLICY DIRECTION

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Clean Technology Program Policy Direction

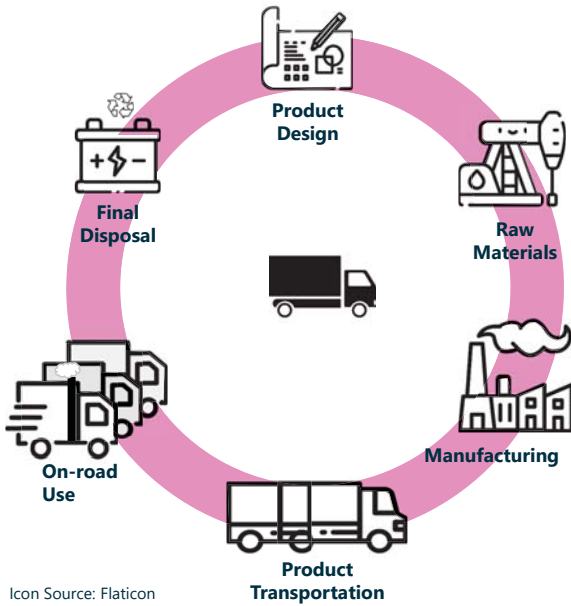
## Upcoming Resolution – Feb 2023

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- Staff will seek direction to reaffirm neutrality in decisions about technology investments
  - Allows for continued innovation in new technology growth
  - Recognizes the need for a variety of technologies to be available depending on the specific need and operation
- Will offer general principles to guide the region's investments
- Staff will also seek direction on preparation of an assessment of clean technologies for Connect So Cal



## Life Cycle Approach to Clean Technology



- SCAG legislative platform, approved by the Regional Council on February 3, 2022, includes a principle that supports taking a life cycle approach
- Consider emissions and environmental impacts in production and disposal of the vehicle as well as in use
- ***Solving one problem should not create new environmental and social impacts.***



# THANK YOU!

For more information, please visit:

<https://scag.ca.gov/alternative-fuels-vehicles>