



# Silicon Valley Power (SVP) EV Charging Technical Assistance Program:

## **Commercial Properties**

Brought to you by SVP; Administered by CLEAResult 9/21/22







#### **TODAY'S AGENDA**

- Introductions & Program Overview
- EV Charging Overview
- Rebates
- Considerations Discussion
- Questions







#### **INTRODUCTION**

- SVP Personnel
  - Arielle Romero Cox Program Manager
  - Scott Anderson Principal Electrical Estimator
- CLEAResult Personnel
  - Jacob Abramson Program Manager
  - Sam Mackintosh Account Manager







#### **SVP AND CLEARESULT**

- Silicon Valley Power hired CLEAResult to implement their EV Charging Technical Assistance Program.
- Across Santa Clara and San Mateo Counties, CLEAResult has designed over 130 EV charging projects over the past 2 years.
- CLEAResult is the largest provider of emission-reducing energy solutions across North America.

#### Technical Assistance Lead











# **Participant Poll**







#### **PROGRAM OVERVIEW**

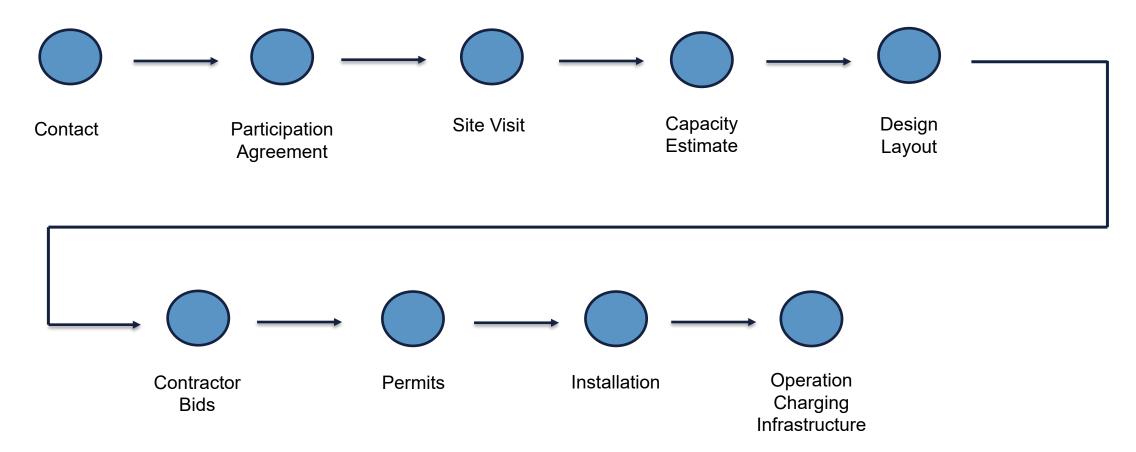
- The Program provides commercial properties with electric vehicle (EV) charging technical assistance from vendor-agnostic consultants.
- \$250 copay for properties with peak electricity demand >200kW
- This includes:
  - Load Analysis
  - Site Visit
  - Installation
  - Charging Evaluation Report
  - Contractor Bid Support
  - Support







#### **HOW EV TECHNICAL ASSISTANCE WORKS**

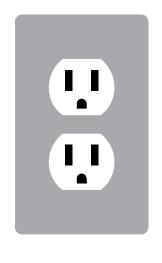






## **ELECTRIC VEHICLE CHARGING EQUIPMENT**

An EV charging station or EV charging outlet safely charges the battery of an electric vehicle







Level 3 (DC Fast Charger)





## **EV CHARGING LEVEL COMPARISON**

Type of charger		Electric supply	Electrical Upgrades Needed?	Miles of Range per Hour	Use Case
0	Level 1 Outlet	120-volt wall outlet	Less likely	2-5 miles	Overnight/All day Parking
	Level 2 Charger	208-240-volt circuit	More likely	20-30 miles	2+ Hours parking
	DC Fast Charger	480-volt	Probable	100-200 miles	Quick Charging <1 hour





#### **PROPOSED REBATE OVERVIEW: NON-RESIDENTIAL**

#### Workplace

	Port Type	Port Incentive	Incentive Cap
Workplace	Level 1 outlet	\$2,000	None
Workplace	Level 2 connector	\$4,000	Up to 75% of project cost, maximum \$80,000 per property

#### Public Agency/Non-Profit

	Port Type	Port Incentive	Incentive Cap
Public Agency or Nonprofit	Level 1 outlet	\$2,500	None
Public Agency or Nonprofit	Level 2 connector	\$4,500	Up to 75% of project cost, maximum \$90,000 per property





#### **CALEVIP REBATE OVERVIEW: NON-RESIDENTIAL**

For sites in Disadvantaged Communities (DAC):

Shared Level 2 EV Charger Rebate	Amount per Connector
Base Rebate	Up to \$4,500, or 75% of project costs, whichever is less
Disadvantaged Community (DAC) Adder	Additional \$500

CALeVIP.org/incentive-project/peninsula-silicon-valley





#### **EV CHARGING EVALUATION REPORT**

- Informs property owner of existing electrical capacity
- Assesses feasibility of desired chargers against existing capacity
- Identifies likely electrical upgrades
- Provides estimated project budget
- Can be used as basis for installer bids

	Solı	ution 1	Solution 2		Solution 3	
	This is exactly what you asked for		This is the best deal, with optimal delivery for your existing capacity		This is the plan that will prepare you for the future	
Category	Quantity	Est. Cost	Quantity	Est. Cost	Quantity	Est. Cost
Level 1 Outlet	4	\$ 2,500	6	\$3,800	8	\$5,000
Level 2 Charging Station	4	\$ 12,300	16	\$47,800	40	\$153,200
Level 2 Make-Ready	0	-	8	-	12	-
Design and Infrastructure	1	\$ 59,600	1	\$114,200	1	\$228,900
SVP/Building Division Costs	-	TBD	-	TBD	-	TBD
Project Cost	\$107,800		\$199,200		\$420,500	
Incentive	\$72,000		\$146,000		\$420,500	
Net Project Cost	\$35,800		\$53,200		\$244,500	
Cost per Port	\$3,978		\$1,773		\$4,075	









#### **EV CHARGING EVALUATION REPORT**







#### **PROPERTY CONSIDERATIONS**

- Tenants' commuting habits
- Benefits of installing EV chargers
- Possible utility upgrades
- Cost calculations
- Building standards, green codes, and ADA requirements
- Planning or permitting timelines
- Assessments timelines
- Construction timelines
- Operating and managing the charging equipment







#### **NEXT STEPS**

- Enroll in Program
   https://siliconvalleypower.com/evexpert
- Submit Co-pay (if applicable)
- Pre-Evaluation Call
- Site Visit
- EV Charging Evaluation







# **Q&A | Participant Poll**







#### **THANK YOU!**

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