



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

Multifamily Properties

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







TODAY'S AGENDA

- 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



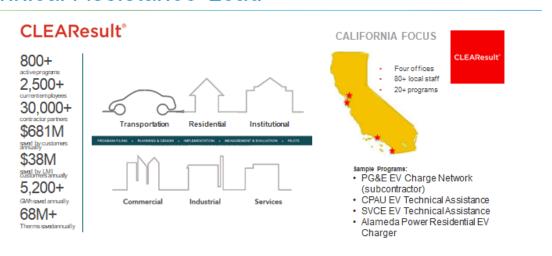




SVP AND CLEARESULT

- 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

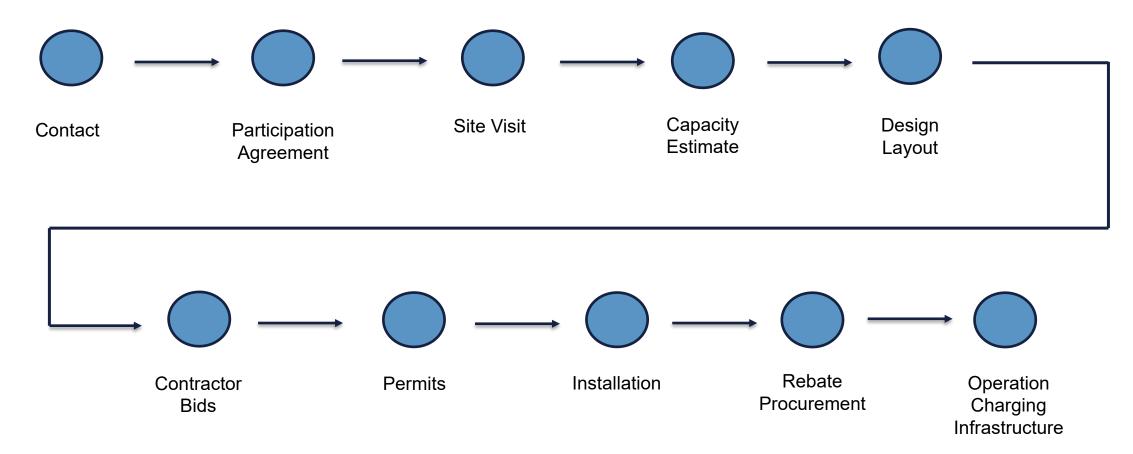
- The Program provides multifamily properties with electric vehicle (EV) charging technical assistance from vendor-agnostic consultants.
- \$250 copay for multifamily properties with more than 50 units
- This includes:
 - Load Analysis
 - Site Visit
 - Installation
 - Charging Evaluation Report
 - Contractor Bid Support
 - Support
 - Rebate Assistance







HOW EV TECHNICAL ASSISTANCE WORKS

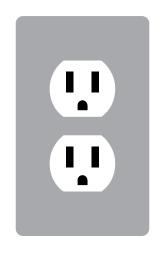






ELECTRIC VEHICLE CHARGING EQUIPMENT

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







Level 2



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	208-240-volt circuit More likely 20-30 miles		2+ Hour parking
	DC Fast Charger	480-volt	Probable	100-200 miles	Quick Charging <1 hour





CURRENT REBATE: MULTIFAMILY SITES

- Up to 75% of installation costs
- Rebate of up to \$3,000 per L2 EV charging station
- Limit of 6 charging station rebates per address
- The charging station(s) must be:
 - Installed in a shared parking location
 - Available to tenants, owners, employees, and guests
- Must operate for useful life







PROPOSED REBATE: MULTIFAMILY

- Up to **85%** of installation costs
- Rebates up to:
 - \$2,000 per L1 EV charging outlet
 - \$5,000 per L2 EV charging connector (aka port)







PROPOSED REBATE: MULTIFAMILY

Port Type	Port Incentive	Incentive Cap		
Level 1 outlet	\$2,000	None		
Level 2 - 0-4 connectors	\$4,500	Up to 75% of project cost, maximum \$40,000 per property		
Level 2 - 5-7 connectors \$5,000		Up to 80% of project cost, maximum \$50,000 per property		
Level 2 - 8+ connectors	\$5,000	Up to 85% of project cost, maximum \$75,000 per property		







CURRENT REBATE: LOW-INCOME MULTIFAMILY

- Up to **75%** of installation costs
- Rebate of up to \$3,000 per L2 charging station (limit 6 total per address)
 - Rebate of up to \$1,000 grant adder per L2 charging station
 - Limit of 1 charging station grant per 10 shared parking spaces
- Rate Requirements
 - Minimum 15% of all units on the Financial Rate Assistance Program OR
 - Minimum 15% of all units are below market rate
- The charging station(s) must be:
 - Installed in a shared parking location
 - Available to tenants, owners, employees, and guests
- Must operate for useful life







PROPOSED REBATE OVERVIEW: LOW-INCOME MULTIFAMILY

- Up to **100**% of installation costs
- Rebate of up to:
 - \$2,500 per L1 EV charging outlet
 - \$6,500 per L2 charging connector (aka port)







PROPOSED REBATE OVERVIEW: LOW-INCOME MULTIFAMILY SITES

Port Type	Port Incentive	Incentive Cap		
Level 1 outlet	\$2,500	None		
Level 2 - 0-4 connectors	\$6,000	Up to 100% of project cost, maximum \$50,000 per property		
Level 2 - 5-7 connectors \$6,500		Up to 100% of project cost, maximum \$60,000 per property		
Level 2 - 8+ connectors \$6,500		Up to 100% of project cost, maximum \$85,000 per property		







SAMPLE PROJECT COST

Multifamily Property

A typical installation with four L2 charging stations could cost:

PROJECT	COST		
Hardware & Install	\$20,300		
Behind the Meter	\$25,000 (Panel upgrade, restriping of spaces, conduit/trenching)		
Permit	\$575		
Budget (Hardware & Install, Behind the Meter, Permit)	\$46,800		
Less Rebates of \$3,000 per L2 charging station	-\$12,000		
Out of Pocket	\$34,800		







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

	Solu	ıtion 1	n 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	

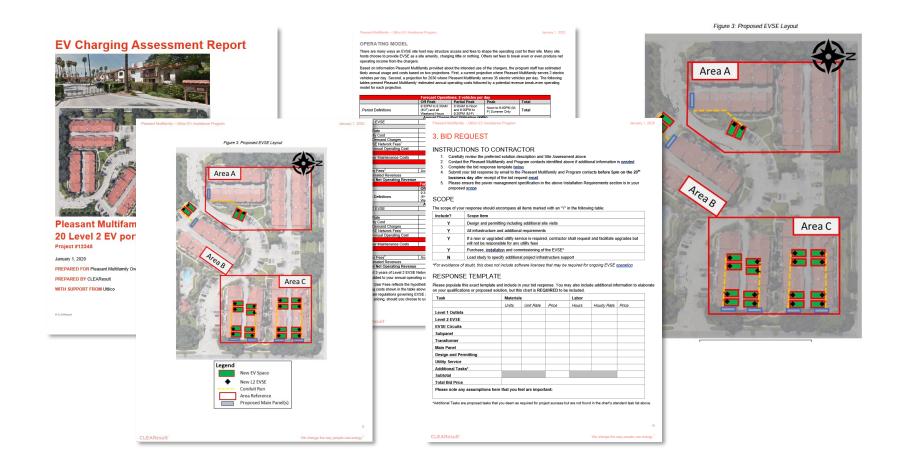








EV CHARGING EVALUATION REPORT







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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