



California Alternative Energy and Advanced Transportation Financing Authority

Investing in communities and the green
economy

2022 Annual Report to the California State Legislature

March 2023

About CAEATFA:

The California Alternative Energy and Advanced Transportation Financing Authority (CAEATFA or the Authority) was established to advance the state's goals of reducing greenhouse gas emissions, increasing the deployment of sustainable and renewable energy sources, implementing measures that increase the efficiency of the use of energy, creating high quality employment opportunities, and lessening the state's dependence on fossil fuels. CAEATFA works towards these goals by strategically targeting public funds to leverage private capital investment and spur market transformation.

CAEATFA has developed and is currently implementing various programs, including:

- **Sales and Use Tax Exclusion Program for Manufacturers** – incentivizing manufacturers to grow in California, this program provides a sales and use tax exclusion (STE) on equipment and machinery used in an Advanced Manufacturing process; for the “design, manufacture, production or assembly” of advanced transportation technologies or alternative source products, components or systems; or to process or utilize recycled feedstock. An additional STE incentive for projects that manufacture, refine, extract, process, or recover lithium is available for years 2022, 2023, and 2024.
- **California Hub for Energy Efficiency Financing Programs** – implementing a series of programs designed to leverage private capital to help customers of the state's investor-owned utilities obtain lower-cost financing for energy efficiency retrofits. The GoGreen Financing Programs, as they are collectively known, are being administered in collaboration with the California Public Utilities Commission (CPUC).
- **Property Assessed Clean Energy Loss Reserve Program** – supports residential Property Assessed Clean Energy (PACE) programs by addressing concerns raised by the Federal Housing Finance Agency (FHFA) regarding risk to federal mortgage enterprises from PACE financings. The PACE Loss Reserve Program will reimburse first mortgage lenders for specified losses resulting from a PACE lien on a property during foreclosure or forced sale to collect unpaid property taxes.
- **Bond Program** – provides lower-cost bond financing for eligible projects, which have most recently included Qualified Energy Conservation Bonds (QECBs) and Clean Renewable Energy Bonds (CREBs). As the primary energy bond conduit issuer for the State of California, CAEATFA continues to work with stakeholders on developing innovative approaches to financing gaps.

The CAEATFA Board consists of:

Fiona Ma, CPA, Chair
State Treasurer

Malia M. Cohen
State Controller

Joe Stephenshaw
Director, Department of Finance

David Hochschild
Chair, California Energy Commission

Alice Busching Reynolds
President, California Public Utilities Commission

Overview of 2022 Annual Report

In accordance with the provisions of Section 26017 of the Public Resources Code, CAEATFA respectfully submits its Annual Report on program activities for the calendar year ending December 31, 2022.

This Annual Report contains information on the Authority's revenues and expenditures for fiscal year 2021-22 and projections of the Authority's need for the coming fiscal year. The report also includes an overview of activity under the Sales and Use Tax Exclusion (STE) Program, California Hub for Energy Efficiency Financing (CHEEF) GoGreen Financing Programs, Property Assessed Clean Energy (PACE) Loss Reserve Program, and CAEATFA's Bond Program.

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SALES AND USE TAX EXCLUSION (STE) PROGRAM FOR MANUFACTURERS

Program Summary

In previous years, CAEATFA awarded \$100 million in sales and use tax exclusion (STE) annually to certain manufacturers to assist them in purchasing machinery and equipment to retain and expand high-end manufacturing across the State – growing jobs, our regions and communities, and the green economy. In 2022, CAEATFA was authorized an additional \$15 million in STE to assist lithium extraction projects, bringing the total to \$115 million in STE for the year.

Legislative Background

In March 2010, Senate Bill (SB) 71 (Padilla, Chapter 10, Statutes of 2010) directed CAEATFA to implement the Sales and Use Tax Exclusion Program (STE Program). The legislation authorized CAEATFA to approve eligible projects for an STE on equipment and machinery (qualified property) used for the “design, manufacture, production, or assembly” of either advanced transportation technologies or alternative energy source products, components or systems, as defined. The purpose of this program is twofold: to promote the creation of California-based manufacturing jobs that will stimulate the California economy, and to incentivize the manufacturing of green technologies that will help reduce greenhouse gases, as well as reductions in air and water pollution or energy consumption.

CAEATFA launched the STE Program in the fourth quarter of 2010; the CAEATFA Board approved the first eight applications for the program at its November 2010 meeting.

Inclusion of Advanced Manufacturing Projects

In September 2012, SB 1128 (Padilla, Chapter 677, Statutes of 2012) expanded the STE Program to include Advanced Manufacturing projects. The legislation also placed an annual limit of \$100 million

Eligible Manufacturers

■ ADVANCED TRANSPORTATION

- Electric vehicles and green components



■ ALTERNATIVE SOURCE

- Energy efficiency products
- Biofuels and Biogas
- Renewable Hydrogen



■ ADVANCED MANUFACTURING

- Aerospace
- Food and Beverage Production
- Biopharmaceuticals



■ RECYCLING

- Tire recyclers
- Materials Recovery Facilities (MRFs)
- Composters



Sales and Use Tax Exclusion (STE) Program for Manufacturers

in STE awards for each calendar year. The Authority modified its regulations to accommodate the statutory changes and began accepting applications for Advanced Manufacturing projects in October 2013. The CAEATFA Board approved its first two Advanced Manufacturing projects at its December 2013 meeting.

Inclusion of Recycling Projects

Signed by Governor Jerry Brown in October 2015, Assembly Bill (AB) 199 (Eggman, Chapter 768, Statutes of 2015) further expanded the scope of the STE Program to include projects that process or utilize recycled feedstock. The Authority modified its regulations to accommodate the statutory changes and began accepting applications for recycling projects in August 2016. The CAEATFA Board first approved recycling projects at its October 2016 meeting.

Program Extension

AB 1583 (Eggman, Chapter 690, Statutes of 2019), the California Recycling Market Development Act, extended the program's sunset date from January 1, 2021 to January 1, 2026. To further the STE Program's focus on California job creation, AB 176 (Cervantes, Chapter 672, Statutes of 2019) requires a consideration of the extent to which a project will result in the loss of permanent, full-time jobs in California, and collection of wage data for each classification of full-time employees proposed to be hired or not retained.

Increase of Program Annual Allocation for Lithium Extractors

AB 209 (Committee on Budget, Chapter 251, Statutes of 2022), an energy and climate change bill signed by Governor Gavin Newsom in September 2022, authorized the STE Program to award an additional \$15 million in STE for projects that manufacture, refine, extract, process, or recover lithium for years 2022, 2023, and 2024.

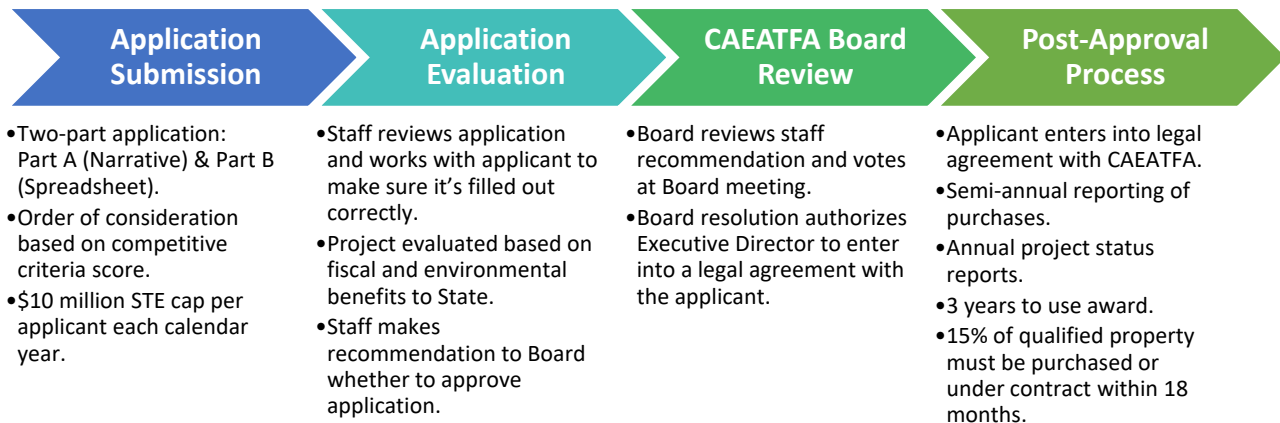
Program Design and Evaluation Methodology

Overview of Application Process

As noted, until 2022, the STE Program was limited to awarding \$100 million in STE each calendar year, therefore, to ensure a broad distribution of awards, the annual allocation was divided into three different pools of STE: (1) \$20 million STE small-project pool for projects requesting \$2 million or less in STE, (2) \$65 million STE general pool (capped at \$10 million in STE), and (3) \$15 million STE large-project pool for applicants with projects requesting more than \$10 million in STE from the general pool. All application pools are made available at the first application deadline of the year. Figure 1 below provides a general overview of the STE application process.

Sales and Use Tax Exclusion (STE) Program for Manufacturers

FIGURE 1: OVERVIEW OF STE APPLICATION PROCESS



Net Benefit Analysis

Under the STE Program's statute, all applications are evaluated to determine the extent to which the anticipated benefits to the State from a project exceed the estimated cost of the avoided sales and use tax. Specifically, through the net benefits test established in the STE Program's regulations, applicants are evaluated based on criteria designed to measure the fiscal and environmental benefits, as well as other benefits of their projects.

CAEATFA staff evaluates the fiscal and environmental benefits that stem directly from the STE. Only the anticipated marginal additional production (and resulting fiscal and environmental benefits) associated with the sales and use tax exclusion are included for purposes of evaluating applications. The marginal additional production associated with the STE is determined based on an estimated increase in equipment purchases resulting from the STE — because the STE in effect lowers the cost of purchasing capital equipment, applicants are assumed to purchase more equipment than would be the case in the absence of the STE.

The net present value of the total *fiscal benefits* over the lifetime of the qualified property is derived from the applicant's projected sales taxes, personal income taxes paid by the applicant's employees, corporation taxes on profits, property taxes and other indirect fiscal benefits of the applicant.

Who May Apply for an STE?

Eligible manufacturers looking to relocate or expand their manufacturing facilities in California may apply for an STE.

How Are Applications Evaluated?

Applications are evaluated based on the estimated fiscal and environmental benefits of the project.

What Can Be Purchased Using the STE?

Approved companies may use the STE for purchases of manufacturing equipment and machinery for up to three years, or when the project has reached its maximum Qualified Property amount, whichever comes first.

Are There Any Program Fees?

Yes, there is an application fee of 0.05% of the Qualified Property amount requested (min \$250, max \$10,000) and an administrative fee of 0.4% of the Qualified Property amount actually purchased during the term of the award (min \$15,000, max \$350,000).

Sales and Use Tax Exclusion (STE) Program for Manufacturers

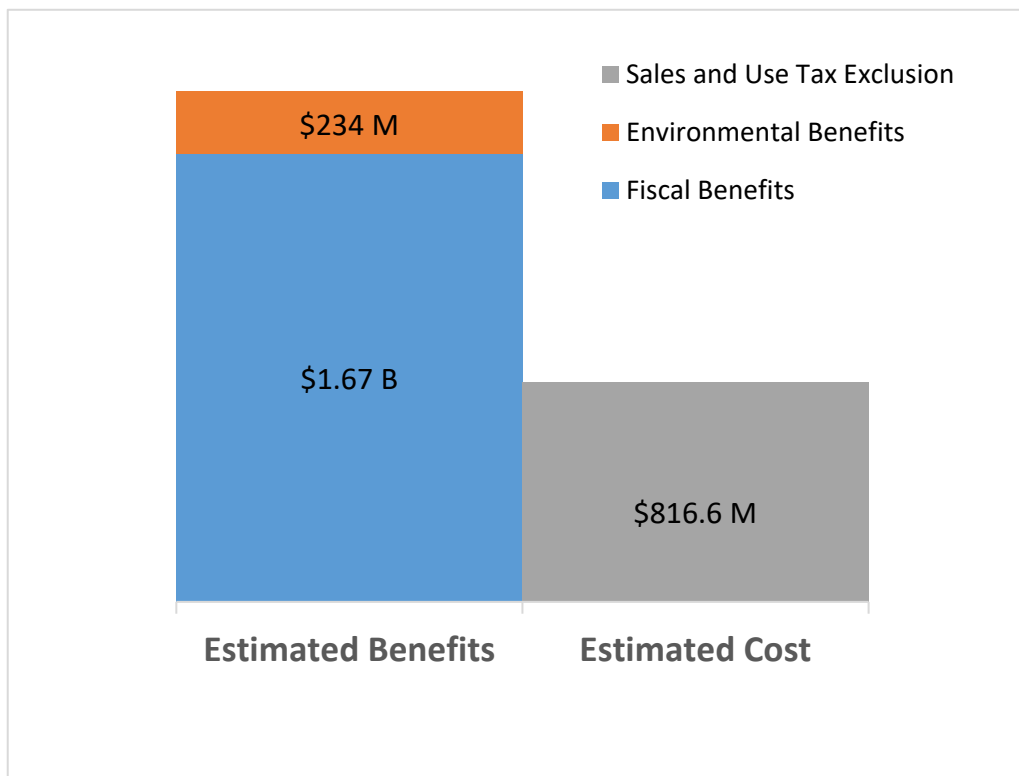
The methodology used to evaluate the *environmental benefits* differs based on the project type. The evaluation of Advanced Manufacturing projects focuses on the benefits resulting from the manufacturing process used to create a product, whereas evaluation of Alternative Source, Advanced Transportation, and recycling projects focuses on the benefits resulting from the end-product being manufactured.

For Alternative Source and Advanced Transportation projects, the environmental benefits include estimates of the dollar value of greenhouse gas reductions and reduction on dependence of fossil fuels. The environmental benefits are also derived from the capacity of manufactured products to generate electricity from alternative sources, thereby reducing the need for traditionally generated electricity. For recycling projects, the environmental benefits include estimates of the dollar value of greenhouse gas reductions resulting from the increased total amount of recycled materials produced. CAEATFA relies on models from the U.S. EPA, California Air Resources Board, and other state agencies for quantifying the environmental benefits of recycling the various types of materials.

Because the environmental benefits of Advanced Manufacturing projects generally stem from the improvements to the manufacturing process itself, the environmental benefits for Advanced Manufacturing projects are not monetized in the application scoring process as they are with Alternative Source and Advanced Transportation projects. Instead, points are given for specific environmental process improvements, such as reductions in energy and water consumption, solid and hazardous waste, and air and other pollutants.

Applications are evaluated to determine whether there is a fiscal benefit to the State, only considering the marginal increase in investment resulting from the STE. Figure 2 illustrates the estimated (at the time of application) net benefit over the life of the program—over \$1 billion as of December 2022.

FIGURE 2: ESTIMATED STE NET BENEFIT



Sales and Use Tax Exclusion (STE) Program for Manufacturers

Historical Program Activity

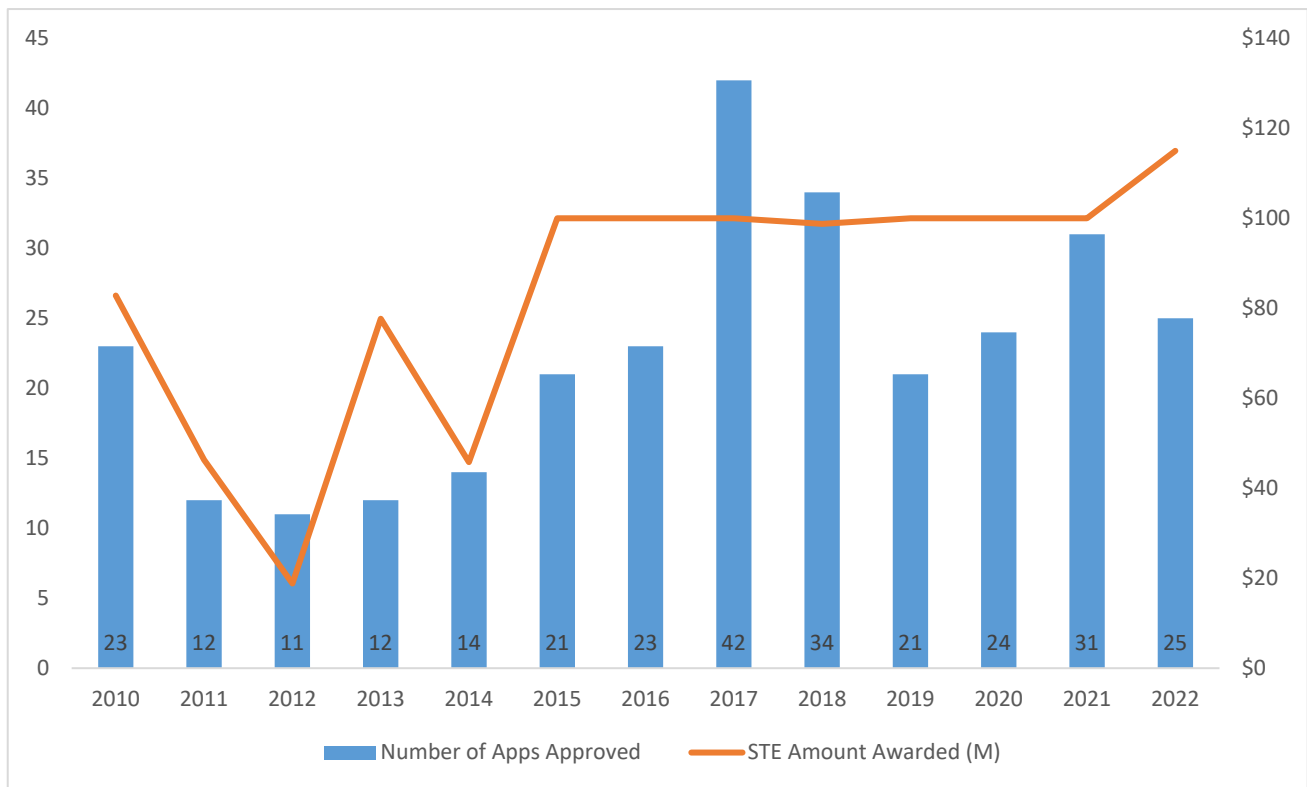
From the STE Program's inception through December 31, 2022, CAEATFA approved a total of 303 project applications, of which 80 are active, 148 are complete, and 75 did not move forward.

The 228 active and complete projects were approved for a total of \$9.7 billion in anticipated qualified property purchases estimated to result in approximately \$816.6 million in STE. These projects are located across 38 counties and are estimated to result in the retention and creation of 102,381 jobs. Under the program's evaluation process, 4,946 of these jobs are attributable to the STE Program. The projects are anticipated to produce an estimated \$234 million in environmental benefits and \$1.67 billion in fiscal benefits, resulting in approximately \$1.1 billion in net benefits to the state.

The program has been fully subscribed since 2015, awarding the full \$100 million in annual STE and in 2022, an additional \$15 million in STE authorized for lithium extraction projects. Such results are largely attributed to the growing number of projects assisted, as well as several large projects.

Figure 3, below, shows the total number of STE projects considered each calendar year.

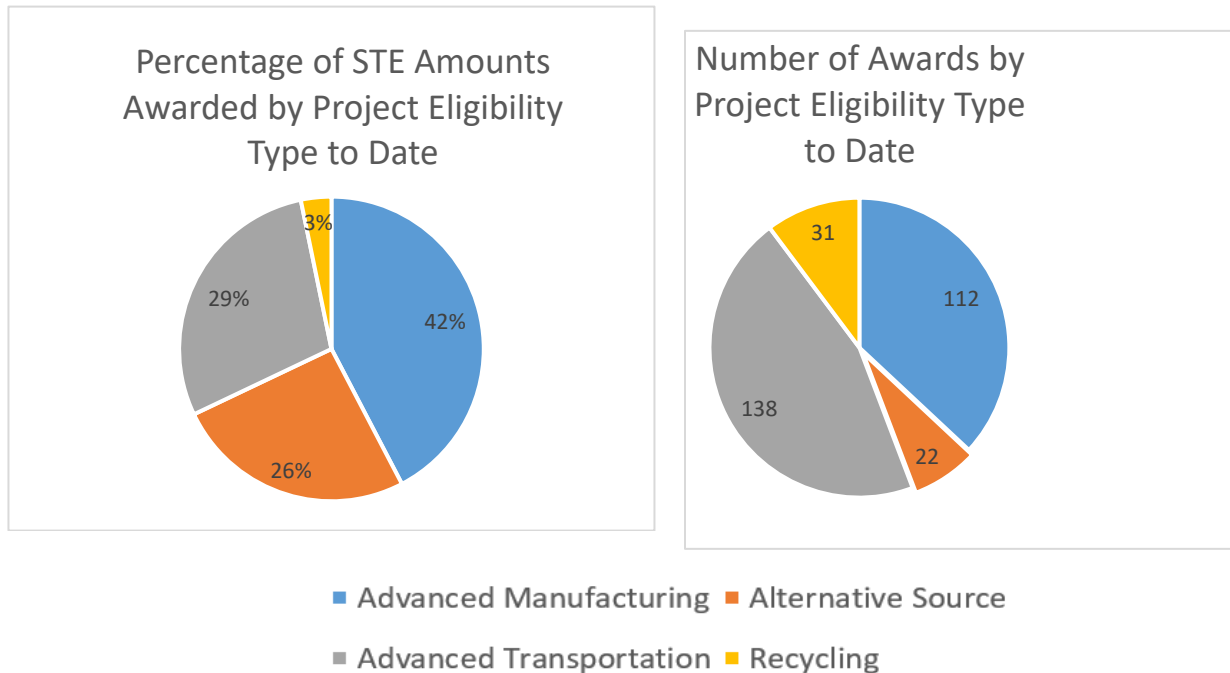
FIGURE 3: ANNUAL STE APPLICATIONS AND VALUE OF AWARDS



Sales and Use Tax Exclusion (STE) Program for Manufacturers

The largest number of approved projects have been in the Alternative Source category, while a higher amount of STE has been awarded to projects in the Advanced Manufacturing and Advanced Transportation categories. This is likely due to the high capital intensity of these types of projects.

FIGURE 4: APPROVED PROJECTS BY STE AWARD AND NUMBER



Detailed information on projects considered under the STE Program since its inception can be found in Appendix A.

Report of 2022 Activities

Applications Received

2022 was the first year in which the STE Program's annual allocation of \$100 million was oversubscribed by the first application deadline of the year.¹ CAEATFA received 52 new applications for consideration; of these, five applications were deemed incomplete, one application was withdrawn, and one was ineligible. The projects had a combined value of approximately \$3.7 billion in anticipated qualified property purchases at the time of application submittal and were estimated to result in approximately \$314 million in STE.² Appendix B lists all 2022 applications received.

¹ The STE Program was also oversubscribed by the first deadline in 2020, however, that was due to 2019 applications that were waitlisted carrying over and receiving STEs from the 2020 annual allocation. As of November 2020, the program waitlist expires at the end of each calendar year (California Code of Regulations Title 4, Division 13, Section 10032(a)(6)).

² The estimated STE amount is based on the average statewide sales tax rate at the time, which was 8.5%.

Sales and Use Tax Exclusion (STE) Program for Manufacturers

Program's Administrative Framework

In February 2022, emergency regulations approved in November 2020 and December 2021 were adopted under the formal rulemaking process. Changes³ addressed STE Program oversubscription, economic impacts of the COVID-19 pandemic, and improvements to streamline STE Program administration, as well as technical and grammatical changes that were included in the emergency regulations.

STE Project Pools and Order of Consideration

Because the STE Program is limited to awarding \$100 million in STE each calendar year, to help ensure a broad distribution of awards and ability to assist large, scalable projects, CAEATFA established an annual per-applicant cap and allocated STE into different pools based on the amount requested in an application. The modified regulations approved in November 2020 included a \$20 million pool of STE available through September for small projects requesting \$2 million or less; and a \$15 million pool of STE for larger projects that apply to exceed the \$10 million per-applicant cap. At the first Board meeting of the year during which applications are considered, this \$15 million large project pool is available to award on a competitive basis (up to \$10 million per applicant) in addition to the \$10 million in STE those applicants may receive from the general pool.⁴ If any of the \$20 million small project set-aside remains after the September Board meeting, it is made available to award to all applicants beginning in October.

Other critical regulation modifications included changing the competitive criteria (as described below) and disallowing waitlisted applications, that were submitted but not evaluated due to program oversubscription, to carry over into the new year for priority consideration.

Application Periods

To enable CAEATFA staff to adapt and respond to program demand, modified regulations approved in December 2021 established that effective in 2022, the Executive Director will announce application periods for the STE Program on the CAEATFA website⁵ prior to the start of each calendar year, including:

- (1) application periods;
- (2) application submission deadlines for each application period;
- (3) tentative dates of CAEATFA Board meetings for consideration of applications; and
- (4) the amount of STE available to award during each application period.

Previously, submitted applications would be considered on a rolling basis, at the first CAEATFA Board meeting occurring at least 60 calendar days after receipt. However, review and consideration has required more than 60 calendar days. The Executive Director may also reschedule and amend any

³ Detailed in the [CAEATFA 2021 Annual Report to the California State Legislature](#)

⁴ Requests from the \$15 million in STE pool are limited to \$10 million in STE per-Applicant (California Code of Regulations Title 4, Division 13, Section 10032(a)(5)(B).

⁵ California Code of Regulations Title 4, Division 13, Section 10032(a)(1)

Sales and Use Tax Exclusion (STE) Program for Manufacturers

announced application period by providing notice on the CAEATFA website and may reschedule or relocate any previously announced Board meeting so long as the information is posted on the CAEATFA website at least ten (10) days before the scheduled meeting. Essentially this prevents applications from being submitted after an application deadline and having un-reviewed applications sit for a long period of time before staff can assess how much STE is available.

Oversubscription and Competitive Process

Due to the 2022 oversubscription of the STE Program, all applications were ranked based on the following competitive criteria:⁶

- (1) Applicants with Recycled Resource Extraction Projects or Projects that produce an Advanced Transportation Technology or an Alternative Source product, component, or system (100 points);
- (2) the unemployment rate of the county in which the project is located compared to the annual average statewide unemployment rate (up to 50 points);
- (3) the amount of the sales tax exclusion per job created as a result of the estimated marginal increase in equipment purchased from the STE (up to 75 points);
- (4) if the project is to relocate or rebuild the applicant's facility due to a fire, flood, storm, or earthquake identified in a state of emergency proclaimed by the Governor within two years of the time of application (50 points);
- (5) if the applicant has corporate headquarters located in California (15 points);
- (6) if the applicant is not eligible to use any of the exemptions established pursuant to Section 6377.1 of the Revenue and Taxation Code (administered through the California Department of Tax and Fee Administration) (50 points); and
- (7) if the Project's industry is in an Emerging Strategic Industry (75 points)⁷

At the first application consideration Board meeting held in June 2022, CAEATFA anticipated awarding the full \$100 million in STE, however, one applicant withdrew its application a couple of weeks prior. At the same June 2022 Board meeting, pursuant to the competitive criteria process and established pools of STE, the CAEATFA Board approved 23 applications. The 23 applications, in addition to the last approved 2021 application⁸, resulted in an estimated STE value of \$95,832,816, leaving \$4,167,183 in the program's general pool.⁹ In August 2022, the first application on the general pool waitlist was awarded the remaining \$4,167,183 in STE and \$2 million in STE from the 2023 calendar year.

⁶ California Code of Regulations Title 4, Division 13, Section 10032(a)(7)(B)

⁷ Qualifying projects in an Emerging Strategic Industry did not become a competitive criterion until December 2021.

⁸ When the amount requested in the Application exceeds the STE available in the calendar year, the Authority shall award the remaining STE request using STE from the following calendar year, up to \$2 million in STE (California Code of Regulations Title 4, Division 13, Section 10032(a)(7)(A)).

⁹ STE values do not add up precisely to \$100 million due to rounding issues.

Sales and Use Tax Exclusion (STE) Program for Manufacturers

In September 2022, the Governor signed into law AB 2887 (Eduardo Garcia, Chapter 248, Statutes of 2022) and AB 209 (Committee on Budget, Chapter 251, Statutes of 2022). AB 2887 increased the STE Program's annual statutory cap from \$100 million to \$150 million through its sunset date of January 1, 2026, and AB 209 allocated an additional \$15 million in STE for projects that manufacture, refine, extract, process, or recover lithium for years 2022 through 2024. However, because both bills affect the same section of CAEATFA's statute (Public Resources Code, Section 26001.8), the bill signed last (AB 209) chaptered out the bill signed first, and only the additional \$15 million in STE for lithium extraction projects was added to statute. CAEATFA held an application period for the 2022 lithium allocation from October 3 – October 14 and did not receive any new applications. On December 13, 2022, the CAEATFA Board awarded the full \$15 million to one eligible waitlisted applicant.

Applications Approved

The Authority approved 25 projects in 2022 for a total dollar amount of \$1,352,941,176.47 in qualified property purchases, estimated to result in \$115 million in STE.¹⁰

Project Locations and Anticipated Benefits

The 2022 approved projects are located in 16 counties throughout California. It is expected that these projects will provide economic benefits to the state and local jurisdictions in the form of corporate taxes, personal income taxes, sales and property tax revenues, increased employment, and additional economic activity created by the manufacturing facilities and purchases from related suppliers.

Based on the net benefits methodology embodied in the STE Program regulations and on representations from these applicants, the Authority estimates the applications approved in 2022 are anticipated to result in estimated combined environmental benefits valued at approximately \$114.7 million and fiscal benefits valued at approximately \$313.8 million over the lifetime of the projects. Together, these projected environmental and fiscal benefits will result in approximately \$312.6 million in estimated net benefits over the lifetime of the projects. See Table 1, below, for a breakdown of the various projects and anticipated benefits by county.

¹⁰ STE value includes the last 2021 application that received partial STE from 2022.

Sales and Use Tax Exclusion (STE) Program for Manufacturers

TABLE 1: STE APPROVED PROJECTS BY COUNTY IN 2022¹¹

County ¹²	Number	Amount of Anticipated Qualified Property Purchases	Projected STE Amount	Estimated Fiscal Benefit Value	Estimated Environmental Benefit Value ¹³	Estimated Quantifiable Net Benefit Value	Total Jobs	Total Jobs Attributed to the STE
Alameda	2	\$47,250,000	\$4,016,250	\$18,538,293	\$341,858	\$14,863,901	3,632	60
Calaveras	1	\$17,030,696	\$1,447,609	\$1,719,760	\$2,938,804	\$3,210,955	38	6
Colusa	1	\$123,720,000	\$10,516,200	\$8,953,287	\$16,365,146	\$14,802,234	307	37
Contra Costa	1	\$195,834,945	\$16,645,970	\$37,500,207	\$53,648,295	\$74,502,532	677	42
Fresno	1	\$72,555,098	\$6,167,183	\$7,674,817	\$11,854,892	\$13,362,525	132	19
Imperial	4	504,244,467	\$42,837,830	\$83,421,639	\$9,769,973	\$50,353,782	1,402	183
Kern	1	\$23,500,000	\$1,997,500	\$5,920,554	\$0	\$3,923,053	298	10
Los Angeles	4	\$98,772,615	\$8,395,672	\$29,229,679	\$13,497,790	\$34,331,796	923	41
Sacramento	1	\$23,089,719	\$1,962,626	\$3,333,560	\$48,106	\$1,419,039	54	5
San Bernardino	1	\$8,354,110	\$710,099	\$861,039	\$0	\$150,939	321	31
San Diego	1	\$23,150,000	\$1,967,750	\$7,036,749	\$0	\$5,068,999	1,411	42
San Joaquin	1	\$6,795,730	\$577,637	\$4,096,277	\$0	\$3,518,640	75	5
San Mateo	1	\$8,490,000	\$721,650	\$671,440	\$0	-\$50,210	72	6
Santa Clara	3	\$164,690,353	\$13,998,681	\$82,391,292	\$3,682,085	\$72,074,696	1,247	636
Stanislaus	1	\$22,703,169	\$1,929,769	\$12,866,848	\$2,539,767	\$13,476,845	36	1
Tulare	1	\$23,400,000	\$1,989,000	\$9,596,583	\$0	\$7,607,583	278	8
Total	25	\$1,363,580,902	\$115,881,426	\$313,812,024	\$114,686,716	\$312,617,309	10,903	1,132

¹¹ Projected STE amounts and estimated benefits may not add up precisely due to rounding. Additionally, the total amount of STE does not add up precisely to \$115 million as the last 2021 application (Enovix Corporation) that received partial STE from 2022 was not included, and the last 2022 general pool application (West coast Waste Co., Inc.) that received partial STE from 2023 was included.

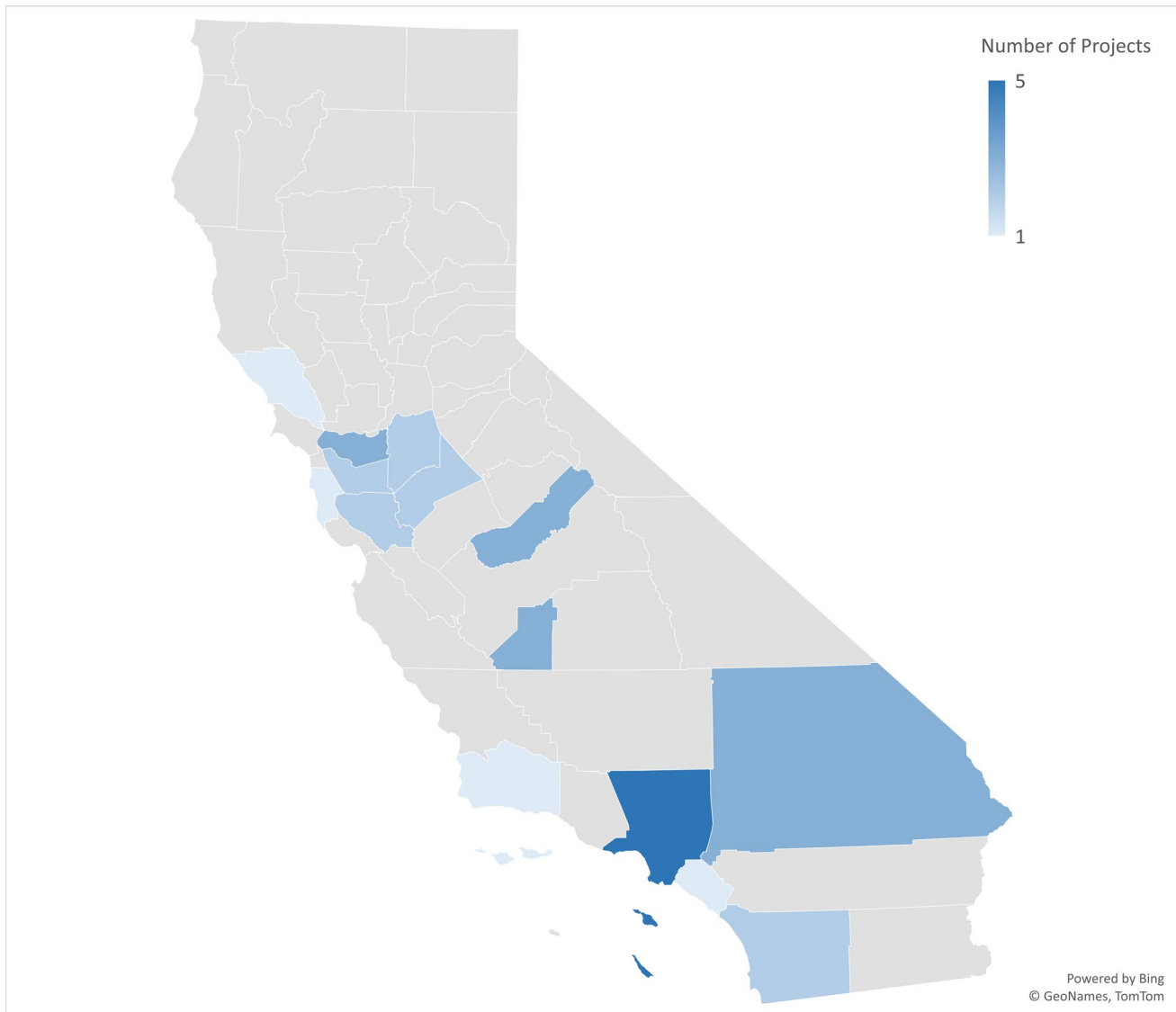
¹² There are applicants with multiple project sites. For purposes of this table, the data was applied to the primary county.

¹³ The environmental benefits for Advanced Manufacturing projects are not monetized in the application scoring process as they are with Alternative Source and Advanced Transportation projects. Instead, points are given for specific environmental process improvements, such as reductions in energy and water consumption, solid and hazardous waste, and air and other pollutants.

Sales and Use Tax Exclusion (STE) Program for Manufacturers

Figure 5 shows a geographical representation of all projects approved under the STE Program in 2022.

FIGURE 5: STE PROJECTS APPROVED IN 2021, BY COUNTY



Emerging Strategic Industries

On November 16, 2021, the Executive Director issued a list of Emerging Strategic Industries pursuant to Section 10031(m) of the program's regulations. These industries include activities associated with the development, exploration, and production of lithium within California's "Lithium Valley" that the Executive Director has identified as having a potentially significant impact on the State's

Sales and Use Tax Exclusion (STE) Program for Manufacturers

environmental goals or economy, the advancement of which are in the public interest, and which advance the purposes of the program.

TABLE 2: LIST OF EMERGING STRATEGIC INDUSTRIES

Product	NAICS Code
Lithium compounds	325180
Geothermal steam	221330
Lithium batteries, storage	335911
Lithium batteries, primary	335912

In 2022, five projects qualified under the Emerging Strategic Industries designation, totaling approximately \$538 million in qualified property for an estimated STE value of \$45.7 million (which includes the additional \$15 million lithium extraction allocation) across three different counties. This consists of two lithium recovery and processing projects, two lithium battery manufacturing projects, and one geothermal steam production project.

CALIFORNIA HUB FOR ENERGY EFFICIENCY FINANCING PROGRAMS

Program Summary

The State of California has ambitious goals to reduce greenhouse gas (GHG) emissions and address climate change. In 2006, the Legislature passed the California Global Warming Solutions Act (Assembly Bill 32), which created a comprehensive, multi-year program to reduce GHG emissions in California. In the subsequent Scoping Plans, intended to describe the approach California will take to reduce GHGs, one of the primary methods identified was increasing efficiency in existing buildings. Senate Bill 350 (De León, 2015) later called for doubling energy efficiency in existing buildings by 2030.¹⁴ Billions of square feet of existing commercial and residential properties—both the structures themselves and the energy-using equipment they house—are currently in need of energy upgrades. There is simply not enough government or ratepayer funding to pay for these upgrades.

Background

The California Public Utilities Commission (CPUC) Decision (D.) 13-09-044 authorized a series of financing programs, designed to attract private capital to finance energy efficiency upgrades, and established the California Hub for Energy Efficiency Financing (CHEEF). The CPUC requested that the California Alternative Energy and Advanced Transportation Financing Authority (CAEATFA) assume the administration of the CHEEF programs and directed the Investor Owned Utilities (IOUs) and CPUC staff to assist CAEATFA with implementation.

The CHEEF's financing programs have incentivized private finance companies to improve terms and expand credit criteria for the financing of energy efficiency projects by providing a credit enhancement via a loss reserve funded with IOU ratepayer funds earmarked for public programs. This credit enhancement helps remove the upfront cost barrier for Californians to undertake energy efficiency retrofits and leverages private capital to provide customers with access to affordable, attractive financing options.

The financing programs will be evaluated according to the CPUC goals that the solutions should:

- (1) Be scalable;
- (2) Leverage private capital to support energy efficiency upgrades;
- (3) Reach underserved Californians who would not otherwise have participated in energy efficiency upgrades; and
- (4) Produce energy savings.

¹⁴ Achieving comprehensive and cost-effective energy efficiency in all existing buildings is state policy, and one of three primary approaches to meet California's aggressive energy and environmental targets [e.g., Senate Bill 100 (De León, 2018), Senate Bill 32 (Pavley, 2016), Assembly Bill 802 (Williams, 2015), Senate Bill 350 (De León, 2015), Assembly Bill 758 (2009, Skinner), Assembly Bill 32 (Nunez, 2006)].

California Hub for Energy Efficiency Financing (CHEEF) Programs

CAEATFA works with the CPUC, IOUs, finance companies, energy efficiency retrofit contractors, and several key vendors to develop and manage the series of energy efficiency financing programs. The financing programs developed and launched through the CHEEF, known collectively as the *GoGreen Financing Programs*, include:

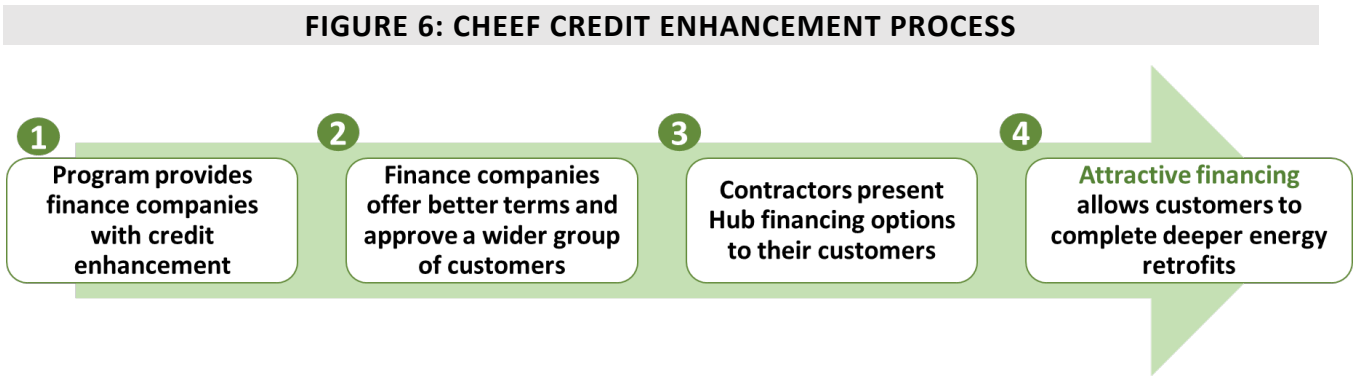
- **GoGreen Home Energy Financing** (formerly the Residential Energy Efficiency Loan Assistance Program, or REEL), which provides financing for energy efficiency upgrades in residential properties for owners and renters of single-family homes, townhomes, condominiums, and mobile and manufactured homes
- **GoGreen Business Energy Financing** (formerly the Small Business Energy Efficiency Financing Program, or SBF), which provides financing for energy efficiency upgrades in commercial businesses and nonprofits through a variety of financing products, including equipment leases and energy savings agreements
- **GoGreen Affordable Multifamily Energy Financing** (formerly the Affordable Multifamily Energy Efficiency Financing Program, or AMF), which provides financing for energy efficiency upgrades in affordable, deed-restricted multifamily properties of 5 or more units where at least 50% of units are income restricted

TABLE 3: CHEEF PROGRAMS AT A GLANCE

 GoGreen Home	 GoGreen Business	 GoGreen Multifamily
<p>Customers: Single family homes, owners or tenants (incl condos, multiplexes, and mobile homes)</p> <p>Financing Options:</p> <ul style="list-style-type: none"> • Loans from \$1,000 to \$50,000 • Current rates: 2.98%-9.00% • Standard loans and appliance microloans available 	<p>Customers: Small businesses and nonprofits, building owners or tenants</p> <p>Financing Options:</p> <ul style="list-style-type: none"> • Loans, leases, and efficiency service agreements from \$5,000 to \$5 million with option for on-bill repayment • Complements IOU On-Bill Financing program 	<p>Customers: Multifamily properties where at least 50% of units are restricted to LMI households</p> <p>Financing Options:</p> <ul style="list-style-type: none"> • Equipment finance agreements from \$10,000 to \$250,000 and efficiency service agreements from \$250,000 to \$10 million

Interest rates cited for GoGreen Home are as of 3/2/23

The Credit Enhancement



The GoGreen Financing programs under the CHEEF use a credit enhancement in the form of a loss reserve to support leveraging of private capital and expand access to financing for borrowers. In exchange for the credit enhancement, private finance companies are able to **offer better terms** and **approve more customers**.

Better terms for customers include lower rates, larger financing amounts, and longer repayment periods, which in turn lead to lower monthly payments. The credit enhancement also allows private finance companies to expand access to financing to Low-to-Moderate Income (LMI) and credit-challenged borrowers, including renters, tenants, and mobile home residents. Within GoGreen Business, newer businesses and tenant occupants are able to qualify.

How GoGreen Financing Addresses Barriers

There are a significant number of barriers and challenges within the energy efficiency financing market, and GoGreen Financing works to address them through program design features, structure and targeted outreach. These barriers include limited access to private capital for financially underserved borrowers, the upfront cost of engaging in efficiency upgrades, and the complexities involved with lending to customers and businesses with complex debt stacks.

The CHEEF addresses these challenges in targeted actions and through its program design, as described below:

TABLE 4: MARKET BARRIERS AND CHEEF SOLUTIONS

Market Barrier	The CHEEF’s Solution
Upfront cost for customers	<ul style="list-style-type: none"> • 100% financing available • Broader access to capital and improved financing terms
Owner/tenant split incentives	<ul style="list-style-type: none"> • Renters and tenants allowed • Financing not secured by the property
Complex (and sometimes slow) rebate and incentive process	<ul style="list-style-type: none"> • Projects don’t require use of rebates or incentives • Quick private lender financing approval • Contractor prefunding and progress payments available • Flexibility: 30% of financing can be nonenergy measures, such as landscaping or remodeling

California Hub for Energy Efficiency Financing (CHEEF) Programs





Market Barrier	The CHEEF's Solution
Borrowers have complex debt structure	<ul style="list-style-type: none"> • Multiple financing structures available, including the potential for off-balance sheet treatment
Customers are too busy to undertake retrofits	<ul style="list-style-type: none"> • Program trains contractors to help remove complexity • Established role for project developers to help coordinate and guide commercial projects • Collaboration with IOUs to strengthen market impact and fill gaps • Statewide marketing to help raise awareness
Consumer protection	<ul style="list-style-type: none"> • Program establishes minimum criteria for lenders and trains enrolled contractors on the program requirements • Desktop reviews and post-project site inspections • Lenders expand terms while maintaining underwriting standards
Financially underserved borrowers	<ul style="list-style-type: none"> • Program meets the borrowers where they are – single, to-code, and self-install measures are available, as well as comprehensive projects • Program design has flexibility to address traditionally underserved customers: renters, tenants, mobile homes, new businesses, LMI borrowers • Marketplace microloan provides underserved borrowers with a lower-interest alternative to credit cards for appliances purchased on utility marketplaces

Benefits to Stakeholders

The CHEEF's credit enhancement, approach to market barriers, and overall program structure lead to a number of key benefits for financing stakeholder groups, including the State of California.

California Hub for Energy Efficiency Financing (CHEEF) Programs

TABLE 5: CHEEF BENEFITS TO STAKEHOLDERS

 Customers	 Contractors	 Lenders	 California
<ul style="list-style-type: none"> ✓ Lower energy usage ✓ Better financing terms ✓ Lower monthly payments ✓ 100% financing, no property lien 	<ul style="list-style-type: none"> ✓ Deeper retrofits ✓ Larger scopes of work ✓ Support from statewide marketing ✓ Online listing helps attract new customers 	<ul style="list-style-type: none"> ✓ Mitigate risk through the loss reserve ✓ Approve wider range of borrowers ✓ Enter new markets and asset class 	<ul style="list-style-type: none"> ✓ More energy saved in communities across the state ✓ Benefits of energy savings extended to underserved borrowers

Report Activity

GoGreen Financing Updates

In 2022, amid encouraging organic growth for the residential and business programs, CAEATFA continued to lay the foundations for greater impact and scalability through program simplification, expansion, and the strategic adoption of scalable processes.

In spring, CAEATFA made important strides toward simplifying the GoGreen Home Energy Financing Program (GoGreen Home) when it reached an agreement with Energy Solutions, the implementer of the TECH Clean California Initiative, to provide the first source of non-IOU Public Purpose Program ratepayer funding for GoGreen Home credit enhancements. The funding supports credit enhancements and administrative costs for borrowers who receive gas service from an IOU and electric service from a Publicly Owned Utility (POU). The 8 million Californians who fall into this category previously faced fuel source-related restrictions on using GoGreen Home; beginning in April 2022, these customers became eligible to use GoGreen Home for energy upgrades regardless of fuel source, enabling them to fully participate in decarbonization efforts through the financing of heat pump technologies and a full suite of electric efficiency measures.

Also in spring 2022, CAEATFA announced the launch of on-bill repayment (OBR) functionality for the GoGreen Business Energy Financing Program (GoGreen Business). Currently available in SoCalGas, Southern California Edison and San Diego Gas & Electric territories, OBR functionality is an attractive feature for businesses that increases convenience by enabling borrowers to repay their private capital financing directly through their utility bill. CHEEF’s OBR infrastructure is believed to be the first in the country to facilitate secure payments between multiple utilities and multiple lenders, a highly complex undertaking. Staff expects OBR to be available to customers in Pacific Gas & Electric territory in 2023.

CAEATFA also submitted a proposal via Track 2 of the CPUC’s Clean Energy Financing Proceeding requesting authorization to expand the Programs to offer financing for comprehensive clean energy technologies and to begin serving large commercial and public buildings. The ability to finance

California Hub for Energy Efficiency Financing (CHEEF) Programs

comprehensive clean energy technologies beyond energy efficiency and demand response, potentially including solar, battery storage, and EV charging, will allow the GoGreen Financing Programs to better support the state's goals of decarbonization and grid resiliency. Large commercial and public buildings would be able to benefit from the use of OBR functionality and enable CAEATFA to serve the municipal, university, schools and hospitals (MUSH) sector with needed access to financing.

In 2022, the GoGreen Financing Programs onboarded both a new Contractor Manager and a new Marketing Implementer to manage outreach and marketing to contractors and consumers. Following a competitive bidding process, the Electric & Gas Industries Association (EGIA) began work in Q2 as the Contractor Manager under a contract with CAEATFA. Full-service marketing firm RIESTER took over marketing operations in Q3 under a contract with Southern California Gas following a selection process that included the full participation of CAEATFA and the IOUs.

GoGreen Home Energy Financing (GoGreen Home)

CAEATFA serves California's single-family residential sector through the GoGreen Home Energy Financing Program. GoGreen Home provides exceptional financing options to owners and renters of existing residential properties who select from a broad list of energy efficiency measures intended to reduce energy consumption. Customers may upgrade a single-family home, townhome, condo, duplex, triplex, fourplex or manufactured home. Renovations for up to four units can be bundled into the same loan.

The Impact of the Credit Enhancement

The provision of a credit enhancement is at the heart of the CHEEF's financing program design. As a result of the loan loss reserve, GoGreen Home lenders have made improvements to their existing underwriting criteria that greatly benefit potential borrowers.

The credit enhancement mitigates risk for lenders by functioning as an insurance pool; in the event of customer default, lenders may file a claim and recover up to 90% of the remaining loan value from the fund. In exchange for this risk mitigation, the program's participating lenders offer lower interest rates, longer terms and broader underwriting criteria to GoGreen Home customers than they otherwise would.

GoGreen Home lenders receive a credit enhancement of 11% of the claim eligible amount, or 20% if the borrower is considered underserved. Data regarding the number of underserved borrowers receiving GoGreen Home loans is discussed below.

The Impact of GoGreen Home: Standard Loans

GoGreen Home's microloan product is reported on page 20. The data in the section below only includes standard loans enrolled through one of GoGreen Home's eight credit union lenders.

In 2022, the GoGreen Home Program accelerated its trend of annual growth, closing the year after enrolling 1,091 loans worth more than \$20 million in financing. This represents a 68% increase in number of loans and an 80% increase in the dollar amount financed compared with 2021. Loans enrolled in GoGreen Home since program inception in 2016 totaled 2,800 by the end of 2022, for a

California Hub for Energy Efficiency Financing (CHEEF) Programs

total amount financed of more than \$49 million. For every \$1 of credit enhancement funds allocated, \$6.41 in private capital has been leveraged through GoGreen Home.

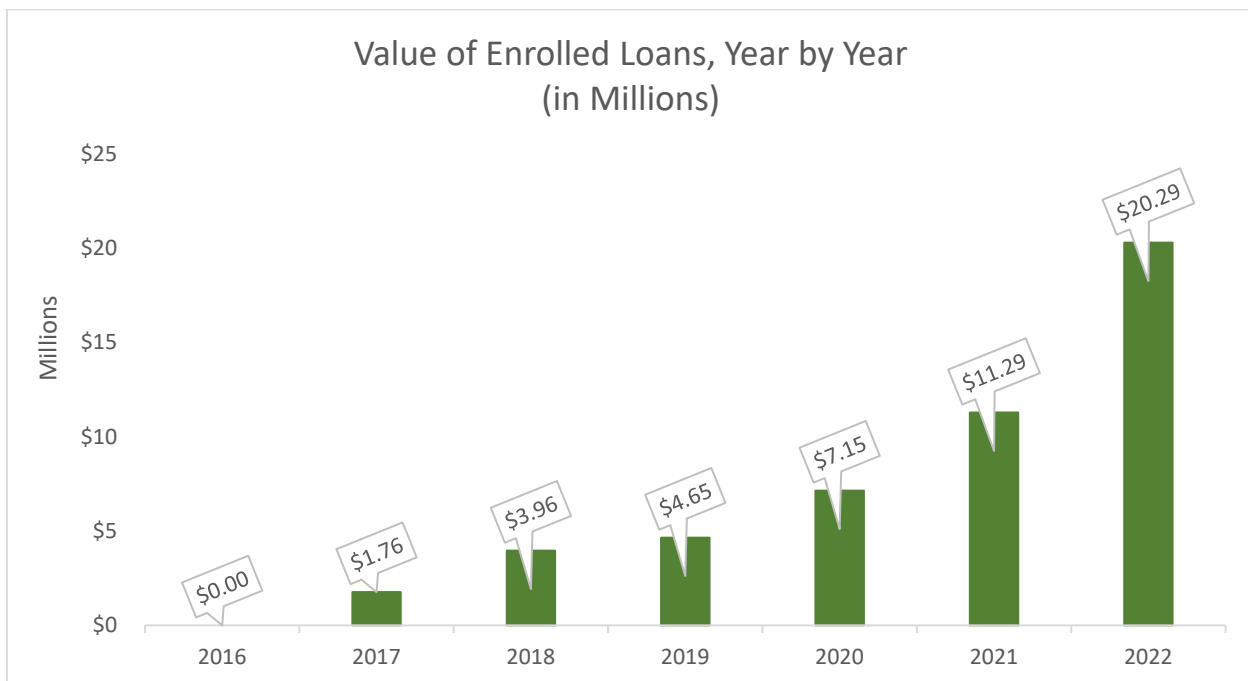
The most commonly installed energy efficiency measures in 2022 were HVAC equipment and ductwork, windows, insulation, and cool roofs. The number of decarbonization projects financed through GoGreen Home rose significantly, with 249 projects over the course of the year compared with 58 in 2021 (a 347% increase). The average size of a GoGreen Home loan in 2022 was \$18,596, and 85% of loans were “finance only,” meaning the borrower or contractor did not apply a rebate or incentive to the cost of the project.

Eight credit union lenders participate in the Program. Borrowers could choose from 652 participating contractors across the state to install their GoGreen Home project.

Over the course of 2022, 17 total loans were charged off, bringing to 38 the total number of charge-offs since Program inception (1.4% of all loans enrolled). These loans have resulted in \$353,676 in net credit enhancement funds being expended to cover a share of the lenders’ losses.¹⁵

Figure 7 shows the growth of GoGreen Home since its inception in 2016.

FIGURE 7: GOGREEN HOME PROGRAM GROWTH



Financing for Underserved Californians

The GoGreen Home regulations define underserved borrowers as those whose property is located in a Low-to-Moderate Income (LMI) census tract, whose household income is LMI, or who have a credit score below 640. As described above, GoGreen Home lenders receive a credit enhancement of 20% of the claim eligible amount financed if the borrower is considered underserved.

¹⁵ Net credit enhancement funds expended is calculated as Claims Paid less Recoveries.

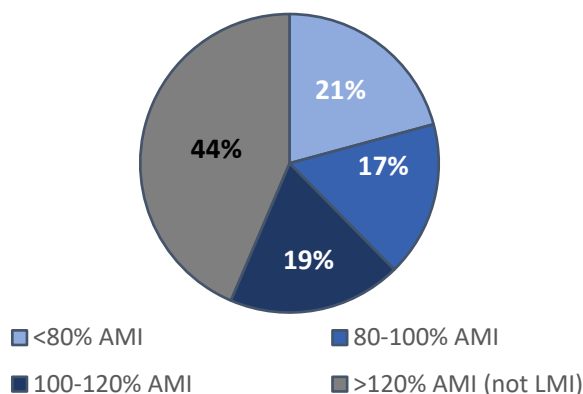
California Hub for Energy Efficiency Financing (CHEEF) Programs

Nearly three in five (57% of total) loans enrolled and 53% of dollars financed in 2022 were made to upgrade properties in LMI census tracts. Of those loans:

- 21% of property upgrades were made in census tracts with an average income <80% of the Area Median Income (AMI);
- 17% of upgrades were in census tracts with an average income 80-100% of AMI; and
- 19% of upgrades were in census tracts with an average income 100-120% of AMI.

Roughly one-tenth (11%) of loans made in 2022 were to upgrade properties in Disadvantaged Communities as measured by CalEnviroScreen¹⁶. Since Program inception, 15% of GoGreen Home loans have been made to upgrade properties in Disadvantaged Communities per CalEnviroScreen score, and 57% of loans have been made to LMI borrowers.

FIGURE 8: LOANS MADE TO UPGRADE PROPERTIES BY CENSUS TRACT INCOME (ALL-TIME)



The Impact of TECH Funding for Credit Enhancements

As reported above, in April 2022 an agreement reached between CAEATFA and the TECH Clean California Initiative implementer made TECH funds available for credit enhancements of heat pump technologies and other electric equipment in publicly owned utility (POU) territories where customers receive gas service from an IOU. Between April and the end of 2022, TECH funds helped credit enhance 53 loans worth \$1,144,850; these included installation of 54 pieces of equipment that use heat pump technology. Of the 53 loans utilizing TECH funding, 25 loans totaling \$443,249 were credit-enhanced by TECH funds alone, meaning they could not have been financed through GoGreen Home otherwise.

TECH funding for credit enhancements is an important part of CAEATFA’s decarbonization support strategy. While TECH-funded projects in POU territories do not comprise the majority of heat pump-related loans in the GoGreen Home portfolio (the Program financed 249 heat pump projects in 2022), electric POUs are natural advocates for decarbonization and therefore natural partners for CAEATFA with regard to decarbonization efforts. With the growing public awareness of heat pump technologies, and with federal tax credits and new and relaunched statewide rebates coming online

¹⁶ (<https://oehha.ca.gov/calenviroscreen>) Figures in this report are for borrowers in the top quartile of pollution-burdened census tracts.

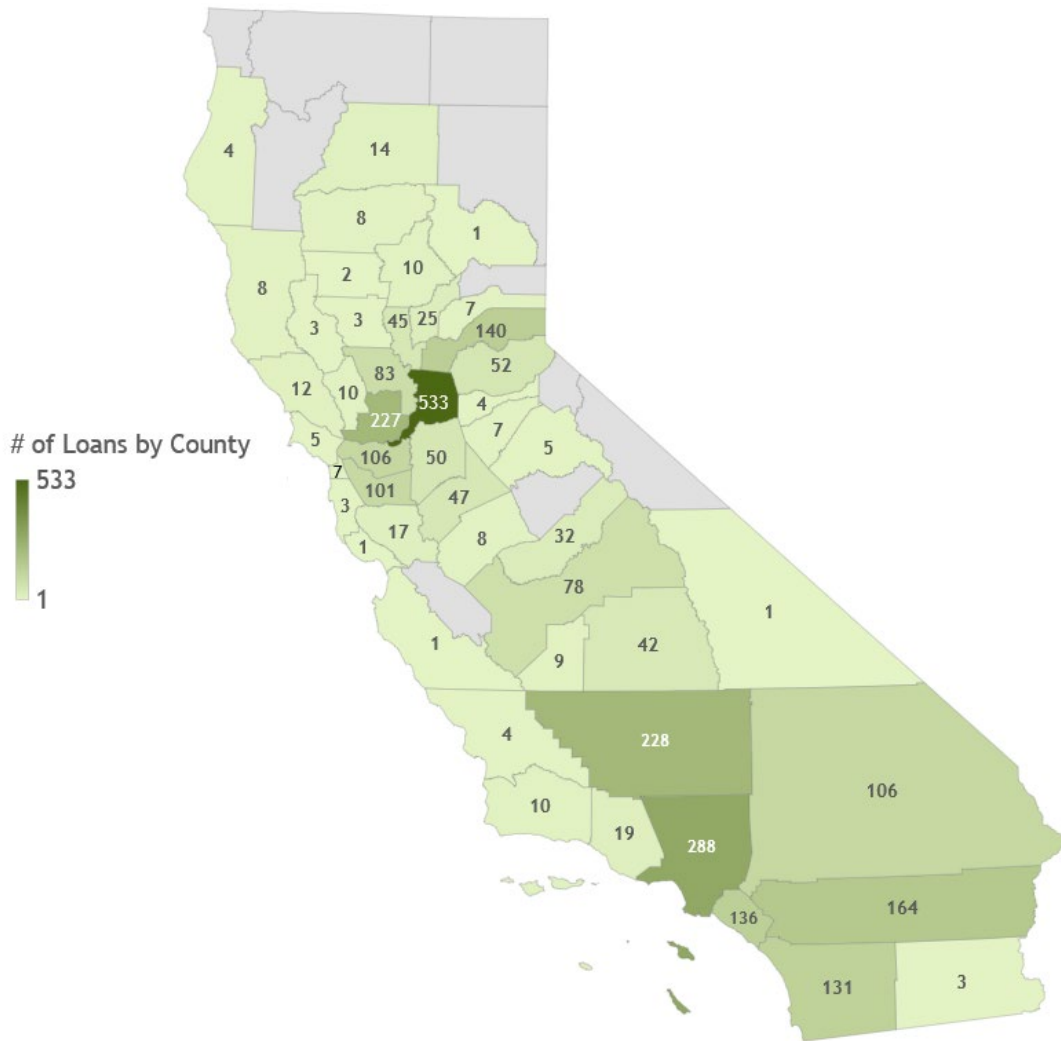
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in 2023, CAEATFA staff looks forward to continuing its work with eligible electric POUs to help more Californians decarbonize their homes.

Statewide Financing

GoGreen Home has made loans to borrowers in 47 counties. Figure 9 shows the number of GoGreen Home loans enrolled, by county, from the start of the program through the end of 2021.

FIGURE 9: GOGREEN HOME LOANS ENROLLED BY COUNTY



Microloans Now Available through GoGreen Home

In the first half of 2022, CAEATFA continued to work with One Finance and its channel partner, Enervee, to bring GoGreen Home's attractive financing to online point-of-purchase sales of energy efficient appliances on select utility marketplaces. Microloan financing launched on the Southern California Gas Marketplace in August 2021 and was paused in June 2022 to allow Enervee to onboard a new lender. Financing is expected to resume on the SoCalGas marketplace and to launch on the Southern California Edison marketplace in early 2023.

During the first six months of 2022, until activity was paused, GoGreen Home facilitated financing for 259 microloans; the average loan size was \$1,561 for a total of \$404,389. The total financed since

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Program inception in August 2021 is 496 microloans, with an average loan size of \$1,463 for a grand total of \$725,579. Of the microloans financed through the Program, 42 have been charged off and 38 have been paid in full; 416 remain outstanding.

Next Steps

CAEATFA continues to address operational barriers to help scale GoGreen Home and bring the Program to the next stages of its growth. Some of the efforts anticipated to take place in 2023 will include:

- Working to onboard high-volume lenders who have the capacity to help the Program scale
- Launching an online loan and project management system to streamline the project eligibility screening and loan enrollment process for contractors and lenders
- Continuing to investigate non-IOU sources of funding to support the expansion of GoGreen Home in POU and municipal electricity provider territories, and potentially for the credit enhancement of comprehensive clean energy technologies, pending CPUC authorization
- Re-launching of marketplace microloan financing in Southern California Gas territory and launching in Southern California Edison territory

GoGreen Business Energy Financing (GoGreen Business)

The GoGreen Business Energy Financing Program launched in 2019. GoGreen Business was designed to address multiple challenges to energy efficiency retrofits in the small business sector, including the lack of time and capital business owners are able to put towards energy upgrades, the limited access to attractive financing options for small businesses (which are often viewed as greater credit risks by finance companies), and the mixed incentives for property owners and tenants.

Small business owners and nonprofits, whether they own or rent the business property, are eligible for GoGreen Business. The program defines “small businesses” as those that meet at least one of the following size criteria:

- 100 or fewer employees
- \$15 million or less in annual revenue
- Alignment with the SBA definition of “small business” based on NAICS code (up to \$41.5 million in annual revenue, depending on industry)

The GoGreen Business Credit Enhancement

GoGreen Business offers a credit enhancement to improve access to private capital for small business energy efficiency projects. The first qualifying \$1 million of each GoGreen Business project is credit enhanced as follows:

- The first \$50,000 of each financing agreement is credit enhanced at 20%
- The remainder (up to an additional \$950,000) is credit enhanced at 5%
- Maximum loss reserve contribution per project is \$57,500

California Hub for Energy Efficiency Financing (CHEEF) Programs

Financing Instruments

The private finance companies that participate in GoGreen Business offer several financing options beyond traditional loans that address the financing needs of small businesses. This variety of products has already drawn interest in the program. The financing instruments available to borrowers through GoGreen Business include:

- Loans — Customer takes ownership of measures
- Equipment Leases/Equipment Finance Agreements
 - Customer gets use of measures
 - Title can transfer at end of lease term or at the beginning of term (Equipment Finance Agreement)
- Efficiency Service Agreements
 - Finance company installs measures on behalf of the customer
 - Regular, ongoing service and maintenance of measures is provided to the customer
 - Title does not transfer to the customer
 - Guarantee of functionality of measures or guarantee of energy savings
 - Customer is cash flow-positive from day one

Program Design

GoGreen Business was designed to fill gaps and complement financing options available for small businesses, including C-PACE and the IOUs' On-Bill Financing (OBF) programs. The 2022 launch of On-Bill Repayment (OBR) functionality for GoGreen Business (details below) makes it a more effective and attractive complement to these existing programs, in particular OBF. The program's design takes into consideration several factors that are unique to the small business market:

- The program **fills a niche** for small business customers in that it complements existing IOU-provided rebates and incentives, as well as the IOUs' OBF programs. Financing through GoGreen Business can be used for customers who do not qualify for OBF due to insufficient bill payment history, for installations which don't meet IOU requirements such as rebates or bill neutrality, and for financed amounts greater than the capped amounts of OBF. CAEATFA staff work together with the IOUs to promote GoGreen Business and its ability to serve as an alternative to or in combination with existing programs, especially as the IOUs contract with third-party implementers to offer energy efficiency programs in the commercial sector.
- Motivations for completing energy upgrades among small businesses are different from those of residential customers. Small businesses need **direct outreach** from an energy efficiency program or local contractor to explain the benefits of energy upgrades and guide them through the process.
- GoGreen Business prioritizes **flexibility** in its offerings, both in terms of eligible energy-saving measures and available financing options. Measures can qualify through multiple pathways, including a custom method, and projects may finance code-required repairs and other nonenergy components. The multiple financing options offered by the participating finance companies, such as leases and efficiency service agreements, are also attractive.

California Hub for Energy Efficiency Financing (CHEEF) Programs

Program Activity in 2022

New financing activity improved for GoGreen Business in 2022 over previous years but remained limited. Ten new projects worth a combined financed amount of \$683,451 were enrolled in the Program. The borrowers, representing a range of industries, included a public relations firm, a brewery, a sail manufacturer, a resort, and a small chain of sandwich shops. The new enrollments brought the total number of financing agreements enrolled since Program inception to 20 and the total amount financed to \$2,365,302.

Several years' effort came to fruition in 2022 with the spring launch of On-Bill Repayment (OBR) functionality in three IOU territories (Southern California Gas, Southern California Edison and San Diego Gas & Electric), with availability in Pacific Gas & Electric territory expected in 2023. The first GoGreen Business project to utilize OBR functionality was enrolled in August 2022.

Staff is hopeful that the availability of OBR will help spur Program uptake in the future. OBR functionality is a convenient feature for businesses that enables borrowers to repay their private capital financing directly through their utility bill. It also makes GoGreen Business a more attractive complement to the IOUs' On-Bill Financing product, primarily because the Program is able to offer comparatively fast project approvals. Three finance companies currently offer OBR.

Three of the GoGreen Business projects enrolled in 2022 benefitted from a pilot interest rate buy-down (IRBD) promotion designed to encourage enrolled GoGreen Business contractors to present financing as an option for their customers. Launched in 2021, the IRBD ran through May 2022 and allowed customers to receive interest rates as low as 0%, with the most effective use of the promotion being for projects under \$25,000.

Seven participating finance companies offer financing through the Program, including three — Prime Capital, Verdant Commercial Capital and Travis Credit Union — that joined in 2022. Ninety-nine contractors and project developers were enrolled in GoGreen Business at the end of 2022.

Next Steps

CAEATFA continues working on outreach to finance companies, project developers and contractors in an effort to establish momentum for GoGreen Business. Efforts planned for 2023 include:

- Implementation of a multi-year IRBD promotion to spur Program uptake. In 2021, CAEATFA received authorization to spend up to \$1.35 million across all three GoGreen Financing Programs for IRBD marketing promotions through June 30, 2027. A GoGreen Business IRBD promotion will begin being administered by RIESTER, the Program's new marketing implementer, in early 2023.
- Implementation of OBR functionality in PG&E territory
- Launch of a microloan financing product for projects up to \$5,000 in Southern California
- Revitalization of contractor recruitment and engagement efforts to bolster the Program's contractor network
- Expanding the Program to incorporate large commercial and public property types and comprehensive clean energy measures

California Hub for Energy Efficiency Financing (CHEEF) Programs

GoGreen Affordable Multifamily Energy Financing (GoGreen Multifamily)

The GoGreen Affordable Multifamily Energy Financing Program targets a critical but hard-to-reach element of the state's existing building stock: multifamily buildings and complexes that house low-income Californians. The program finances energy efficiency upgrades for multifamily properties of five or more units, where at least 50% of units are income-restricted at low-to-moderate (defined as up to 120% of Area Median Income). To be eligible for the program, properties must remain affordable for at least five years.

GoGreen Multifamily is designed to complement existing multifamily energy programs, specifically the Low-Income Weatherization Program (LIWP) administered by the State's Department of Community Services and Development, and the Solar On Multifamily Affordable Homes (SOMAH) program administered by the CPUC via a competitively selected team of nonprofit organizations. LIWP offers a generous incentive to qualifying affordable multifamily properties that install energy efficiency upgrades, and SOMAH requires the completion of an energy audit before issuing an incentive to install solar. CAEATFA specifically designed GoGreen Multifamily to work with these existing programs by offering its attractive financing for the portion of the measures not otherwise incentivized to help address gaps.

GoGreen Multifamily is able to finance a broad array of energy efficiency measures, as well as any energy efficiency measure approved for rebate and incentive by any IOU, Renewable Energy Network or Community Choice Aggregator. Non-energy measures may also be financed.

Key program features include:

- No minimum or maximum loan size
- The first \$1 million of each loan will be credit enhanced at 15% of the claim-eligible amount
- Fixed or variable rates allowed
- No underwriting requirements imposed on the finance company; underwriting is based on participating lenders' requirements

Progress and Outreach

CAEATFA launched GoGreen Multifamily in mid-2019 and quickly enrolled its first participating finance company, Renew Energy Partners, offering savings-based payment agreements for project amounts of \$250,000 to \$10 million. In 2020, Ascentium Capital joined as the second participating finance company in the Program, offering financing for projects between \$10,000 and \$250,000.

Thus far, no property owners have used GoGreen Financing to upgrade their properties. CAEATFA staff believe this is due to a number of challenges in the affordable multifamily space: there is a significant amount of time and owner bandwidth needed to develop affordable multifamily energy projects, technical assistance is needed, affordable property owners are legally limited in their ability to recoup savings from in-unit upgrades, property owners must navigate complex debt structures to engage in new projects, and projects must satisfy very tight cash-flow requirements.

In March 2022, CAEATFA launched an IRBD marketing promotion for GoGreen Multifamily offering interest rates as low as 0% for qualifying projects, with funds to be reserved by June 30. The promotion, planned following CPUC authorization in 2021 for CAEATFA to consider additional

California Hub for Energy Efficiency Financing (CHEEF) Programs

financing mechanisms, was designed to test whether reducing the interest rate barrier would allow some projects to succeed. One customer, a complex in Santa Monica, reserved funds for a heat pump installation project but had to withdraw due to unanticipated expenses and delays associated with the project. The experience suggests that even interest rates reduced beyond the credit enhancement are not enough to encourage financing in this sector, as these properties face too many other challenges in their journey to finance retrofits.

Staff continued engaging with affordable multifamily property owners, land trusts, government programs, and industry stakeholders in search of projects that might benefit from affordable financing. Staff also attended conferences and convenings to promote GoGreen Multifamily and learn about challenges facing the affordable multifamily housing sector, including the California Climate and Energy Forum.

Next Steps

Hurdles to completing energy efficiency upgrades in the affordable multifamily sector remain, and CAEATFA expects to see lengthy project timelines and challenges for properties in this sector pursuing projects throughout the duration of this program, despite continued engagement with Program partners.

Nonresidential Program

The Nonresidential Program, initially authorized through CPUC Decision 13-09-044, was designed to encourage energy efficiency financing for public entities, large businesses and nonprofits, and municipalities, universities, schools, and hospitals (MUSH) market properties. Unlike the other CHEEF Programs, it did not include a credit enhancement as originally conceived; rather, the benefit offered by the Nonresidential Program was planned to be On-Bill Repayment (OBR) functionality. Launch of the Nonresidential Program was therefore dependent upon the development and launch of OBR.

At the end of 2019, the Nonresidential Program had not been actively developed. Since CPUC Decision 17-03-026 required all pilots to be launched by the end of 2019, and since OBR was not yet developed, CAEATFA staff directed resources toward the launch and operations of the CHEEF's other Programs.

In 2022, following the launch of OBR functionality, CAEATFA requested authorization via Track 2 of the CPUC's Clean Energy Financing Proceeding to re-launch efforts to develop this Program and allow large commercial and public entities to access GoGreen Financing. A response from the CPUC is anticipated in the first half of 2023.

On-Bill Repayment (OBR)

On-Bill Repayment (OBR), whereby a borrower repays energy efficiency financing from a private lender through their utility bill, is viewed by the CPUC as a critical component of the CHEEF Programs as it has the potential to both encourage program uptake and reduce default rates.

In 2022, CAEATFA, in partnership with the IOUs and its Master Servicer, completed the development and initial implementation of OBR functionality for GoGreen Business. OBR functionality successfully launched in three IOU territories: San Diego Gas & Electric, Southern California Edison, and Southern

California Hub for Energy Efficiency Financing (CHEEF) Programs

California Gas. The first project leveraging OBR functionality was enrolled in the Program in August 2022.

In 2023, CAEATFA staff will continue working with Pacific Gas & Electric to operationalize its OBR platform.

Outreach

Consumer outreach – In 2022, the Statewide Marketing Implementer contract for the GoGreen Financing Programs was awarded by Southern California Gas to RIESTER, a full-service marketing firm, following a selection process that included the full participation of CAEATFA and the IOUs. RIESTER assumed marketing responsibilities in Q3 and set about establishing infrastructure and processes, assessing needs for the website, and planning a robust consumer marketing campaign to launch in January 2023.

GoGreenFinancing.com is the consumer-facing website for all CHEEF programs, where potential borrowers can learn about the types of energy efficiency projects available to implement, find local contractors who can install the measures, and explore the financing options provided by lenders. It is the platform through which most GoGreen Financing customers interact with the Program (those referred directly by contractors may use different channels). Traffic to the site remained strong in 2022 even though marketing efforts were largely focused on the transition to RIESTER, with 193,000 sessions resulting in 11,048 customer referrals made to participating lenders (a 61% increase in referrals over 2021). The performance is likely due to several factors: a spring digital marketing campaign launched by the previous marketing implementer, several summer and autumn campaigns by IOUs, and a late autumn digital and search campaign by RIESTER.

CAEATFA looks forward to 2023 and a reinvigorated web and digital presence for GoGreen Financing.

Contractor Outreach – Outreach to new and already enrolled GoGreen Home and GoGreen Business contractors continued in 2022 through the efforts of CAEATFA's Contractor Manager, EGIA. Contractors received monthly emails promoting the Program and its features as well as invitations to webinars on such topics as how to combine GoGreen Financing with TECH rebates and how to offer and help customers apply for OBR. CAEATFA staff also participated in the Institute of Heating and Air Conditioning Industries (IHACI) Trade Show in Pasadena. By the end of 2022, borrowers could choose from 652 GoGreen Home contractors and 99 GoGreen Business contractors and project developers.

IOU Customer Outreach – While the transition to the new marketing implementer was the main marketing focus in 2022, the IOUs engaged in several marketing campaigns through their regional channels, including digital communications through e-mail and social media and updates to their financing webpages.

PROPERTY ASSESSED CLEAN ENERGY (PACE) LOSS RESERVE PROGRAM



Program Summary

Property Assessed Clean Energy (PACE) allows local jurisdictions to finance renewable energy installations, energy and water efficiency retrofits, and electric vehicle charging infrastructure by issuing bonds that are repaid by participating property owners through their property tax assessments. The PACE Loss Reserve Program (the Program) was authorized in September 2013 to assist residential single family PACE financing by helping to increase its acceptance in the marketplace.

Legislative Background

PACE initially launched in 2008 as a financing mechanism for energy efficiency and renewable retrofits. However, on July 6, 2010, the Federal Housing Finance Agency (FHFA) issued a pronouncement that PACE programs “present significant safety and soundness concerns” and violated standard mortgage provisions since PACE tax liens have priority over any other loan or mortgage. The concerns expressed by FHFA caused the majority of the residential PACE programs throughout the country to be placed on hold at that time, including many of the existing residential PACE programs in California.

In response to FHFA’s concerns and to further support the development of PACE in California, Senate Bill 96 (Committee on Budget and Fiscal Review, Chapter 356, Statutes of 2013) authorized CAEATFA to develop and administer the PACE Loss Reserve Program to mitigate risk to first mortgage lenders and collect data to better quantify actual risk, while helping the State reach its energy efficiency and renewable goals by supporting residential PACE. The PACE Loss Reserve was funded with an initial allocation of \$10 million.

Program Design

The goal of the Program is to put first mortgage lenders in the same position as they would have been without the PACE lien on the property. The PACE Loss Reserve makes first mortgage lenders whole for any direct losses incurred due to the existence of a PACE lien on a property. To that end, the Loss Reserve covers the following losses:

- (1) PACE payments made while a first mortgage lender is in possession of a property subject to a PACE assessment.
- (2) Any losses to the first mortgage lender up to the amount of outstanding PACE assessments in a forced sale for unpaid taxes or special assessments.

PACE administrators may participate in the Program by applying to CAEATFA and demonstrating that they meet the Program’s minimum underwriting criteria as established in statute and regulation.

Property Assessed Clean Energy (PACE) Loss Reserve Program

Once enrolled, each eligible financing originated by an enrolled PACE administrator and included in its semi-annual reports may be covered by the Loss Reserve for its full term, or until the Loss Reserve is exhausted. Additionally, PACE administrators that applied to the Program on or before June 9, 2014 were allowed to enroll their existing portfolios under the Loss Reserve to maximize the Program’s effectiveness. To allow new PACE programs (created on or after March 10, 2014) to enroll in the Program without delaying their operations, the Loss Reserve also covers financings originated up to 30 days before their enrollment date.

Enrolled PACE administrators must report to CAEATFA on the size and status of their portfolios in March and October of each year. Each report includes detailed information on the financings issued during the reporting period, including the assessor’s parcel number, principal amount, annual assessment amount and term. The October reports also include information on the size and value of the cumulative financing portfolio and information on energy and water savings resulting from the funded projects, to the extent that information is available.

Participating PACE Programs

As of December 31, 2022, 22 PACE programs have participated in the PACE Loss Reserve Program and only four were still active.

Table 6, below, shows all of the PACE programs enrolled each year.

TABLE 6: PACE PROGRAMS ENROLLED EACH YEAR

Enrollment Year	PACE Program
2014	<ul style="list-style-type: none"> • mPOWER Placer • mPOWER Folsom • Berkeley FIRST • Sonoma County Energy Independence Program* • CaliforniaFIRST* • WRCOG HERO • SANBAG HERO • California HERO
2015	<ul style="list-style-type: none"> • AllianceNRG • LA HERO • CaliforniaFIRST in LA County • Ygrene
2016	<ul style="list-style-type: none"> • Home Run Financing (formerly PACE Funding) (CSCDA)* • CMFA PACE
2017	<ul style="list-style-type: none"> • CSCDA HERO Program • Figtree PACE Program • Spruce PACE • mPOWER
2018	<ul style="list-style-type: none"> • PACE Funding (WRCOG)

Property Assessed Clean Energy (PACE) Loss Reserve Program

Enrollment Year	PACE Program
2019	<ul style="list-style-type: none"> • PACE Funding (LA County) • CaliforniaFIRST (WRCOG)
2020	<ul style="list-style-type: none"> • FortiFi Financial (CSCDA)*

*Active PACE program

Report on 2022 Activity

PACE Financing Portfolio

During initial program enrollment in June 2014, the eight participating PACE programs enrolled 17,401 PACE financings with a total principal value of over \$350,000,000. To date, the Loss Reserve covers 98,395 PACE financings with a total outstanding principal value of approximately \$2.4 billion.

In 2022, CAEATFA enrolled 3,592 new PACE financings with a total principal value of \$141,484,873.24.

A chart of all Program enrollment activity as of December 31, 2022, can be found in Appendix C.

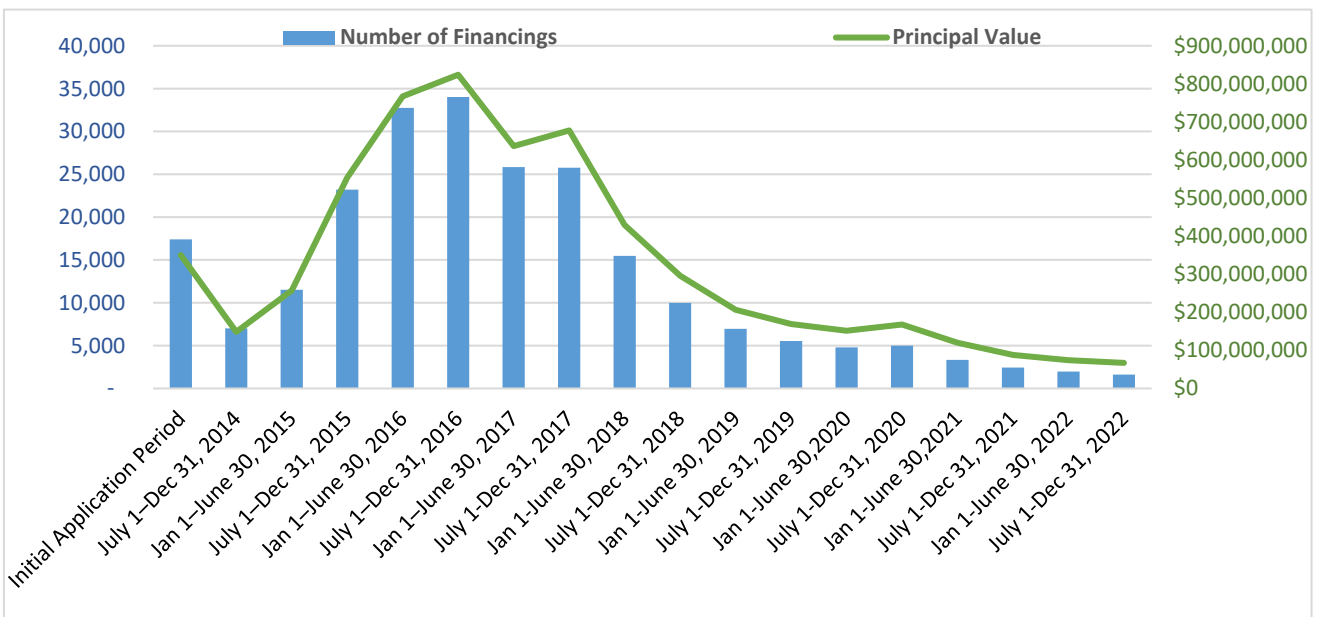
Claims

In 2021, CAEATFA received two claims from enrolled PACE programs for a total of \$11,585.31, which were paid to the first mortgage lenders pursuant to program regulations. There were no claims in 2022.

Program Impact and Results

After the Program’s launch, residential PACE saw a significant increase in origination activity, with residential PACE administrators offering PACE financing in most counties in California. Figure 10, below, shows the initial growth of the enrolled portfolio of PACE financings in the Loss Reserve.

FIGURE 10: PACE ORIGINATION ACTIVITY



Property Assessed Clean Energy (PACE) Loss Reserve Program

As the residential PACE market matured and became widely available throughout the state, legislation in 2016 and 2017 established consumer protection requirements, minimum underwriting (including ability-to-pay) criteria, and regulatory oversight of PACE under the California Department of Financial Protection and Innovation (DFPI), formerly the Department of Business Oversight (DBO). New PACE originations decreased considerably from the 2016 peak, and a more gradual downward trend continued after 2020. Federal mortgage forbearance during the COVID-19 pandemic and subsequent state mortgage relief efforts appear to have helped keep foreclosure rates lower than pre-pandemic levels, which in turn means fewer potential claims on the Loss Reserve.

The Loss Reserve covers PACE financings for energy and water efficiency improvements, electric vehicle charging infrastructure, and clean energy improvements. Table 7, below, details the estimated environmental savings from enrolled financings as of last reporting by each PACE program administrator.

TABLE 7: ESTIMATED ENVIRONMENTAL SAVINGS FROM ENROLLED PACE FINANCINGS

Program Name	Estimated Environmental Savings from Enrolled Financings ¹⁷	Date Reported
mPOWER Placer	23,598,985 kWh saved annually 4,365.8 MTCO2 saved annually	June 30, 2022
mPOWER Folsom	556,453 kWh saved annually 102.9 MTCO2 saved annually	June 30, 2022
Berkeley FIRST	54,408 kWh annually	June 30, 2022
Sonoma County Energy Independence Program	25,418,568 kWh over lifetime 132,765 MTCO2 over lifetime 136,724 therms over lifetime	June 30, 2022
CaliforniaFIRST	67,251,246 kWh generated annually 30,881,149 kWh saved annually 2,250,554 therms saved annually 78,274,632 gal saved annually	June 30, 2022
WRCOG HERO Program	220,221,402 kWh saved annually 152,039,740 gal saved annually	June 30, 2020
SANBAG HERO Program	132,505,173 kWh saved annually 81,867,045 gal saved annually	June 30, 2020
California HERO Program	528,699,930 kWh saved annually 351,224,953 gal saved annually	June 30, 2020
AllianceNRG	6,936,336 kWh generated annually 348,597 kWh saved annually 5,737 therms saved annually 727,985 gal saved annually	June 30, 2019
LA HERO Program	199,278,146 kWh saved annually 214,897,177 gal saved annually	June 30, 2020

¹⁷ Administrators use various distinct methodologies to assess the environmental impact of their program.

Property Assessed Clean Energy (PACE) Loss Reserve Program

Program Name	Estimated Environmental Savings from Enrolled Financings¹⁷	Date Reported
CaliforniaFIRST in Los Angeles County	14,487,389 kWh generated annually 15,189,601 saved annually 1,106,986 therms saved annually 52,171,338 gal saved annually	June 30, 2022
Ygrene Works Program	63.17 MW generated over lifetime 3,266,947,331 kWh saved over lifetime 1,106,741 MTCO2 saved over lifetime 4,020,889,140 gal saved over lifetime 39,661,873 ccf natural gas saved over lifetime	June 30, 2022
Home Run Financing CSCDA (formerly PACE Funding CSCDA)	29,229,377 kWh generated annually 2,214,439 kWh saved annually 139,025 therms saved annually 19,796,695 gal saved annually	June 30, 2021
California Municipal Finance Authority	912,817,988 kWh generated over lifetime 819,371,251 kWh saved over lifetime 157,040 MTCO2 saved over lifetime 989,136 therms saved annually 1,041,617,827 gal saved over lifetime	June 30, 2020
Spruce PACE	336,585 kWh generated annually 1,312 kWh saved annually	June 30, 2019
CSCDA HERO	23,609,446 kWh saved annually 18,450,669 gal saved annually	June 30, 2020
Figtree	1,460,415 kWh saved annually	June 30, 2020
mPOWER	5,582,145 kWh saved annually 1,062.4 MTCO2 saved annually	June 30, 2022
PACE Funding (WRCOG)	1,208,360 kWh generated annually 87,157 kWh saved annually 4,115 therms saved annually 1,274,000 gal saved annually	June 30, 2021
PACE Funding (LA County)	591,251 kWh generated annually 1,184,827 kWh saved annually 10,131 herms saved annually 2,699,652 gal saved annually	June 30, 2021
CaliforniaFIRST (WRCOG)	538,747 kWh generated annually 40,418 kWh saved annually 2,946 therms saved annually 298,513 gal saved annually	June 30, 2022
FortiFi Financial (CSCDA)	524,961,940 kWh generated over lifetime 508,455,696 kWh saved over lifetime 99,306 MTCO2 saved over lifetime 572,395 therms saved annually 635,400,165 gal saved over lifetime	June 30, 2022

BOND FINANCING ACTIVITIES

Program Summary

CAEATFA has served as one of the State’s primary alternative energy bond issuers since its inception in the 1980s. As a conduit bond issuer, CAEATFA has worked with both public and private entities in issuing over \$212 million in bond financing for 26 projects over its lifetime. The projects help to meet federal and state energy goals, and have included solar, hydroelectric, geothermal, biomass and cogeneration projects. A list of CAEATFA’s outstanding bonds can be found in Table 8.

Most recently, CAEATFA successfully issued Qualified Energy Conservation Bonds to assist in the financing of a public utility’s one megawatt (MW) solar project in San Diego (2010), and Clean Renewable Energy Bonds on behalf of the California Department of Transportation to install solar on approximately 70 of its properties across the state anticipated to save taxpayers \$52.5 million in energy costs.

The financial assistance and incentives that CAEATFA can provide as a conduit bond issuer are authorized by Federal statute and programs. CAEATFA did not have any new bond issuances in 2022.

CAEATFA continues to collaborate with stakeholders to discuss innovative approaches to meet the financing gaps for renewable energy and energy efficiency projects.

Outstanding Bonds

The Authority had two outstanding bond issues in 2022, amounting to a combined total of \$3,465,132 in bond debt as of December 31, 2022.

TABLE 8: OUTSTANDING BONDS

Closing Date	Bond Short Name	Bond Type	Final Maturity	Amount of Issue	Outstanding Debt
06/10/2009	Caltrans Projects Series 2009	CREB ¹⁸	12/15/2023	\$20,000,000	\$426,133
11/18/2010	Fallbrook Public Utility District Solar Project Series	QECB ¹⁹	11/18/2027	\$7,227,000	\$2,235,972

TOTAL: \$27,227,000 \$2,662,105

¹⁸ Clean Renewable Energy Bond

¹⁹ Qualified Energy Conservation Bond

REPORT OF AUTHORITY'S FINANCES

This report of the Authority's finances is submitted pursuant to Public Resources Code Section 26017.

Revenues and Expenditures – FY 2021-22

The Authority's total revenues for fiscal year 2021-22 were \$3,859,791 and the total expenditures were \$4,497,000.

TABLE 9: REVENUES AND EXPENDITURES - FY 2020-21

Total Revenues ²⁰ :	\$3,859,791
Expenditures:	
Salaries and Wages	\$1,768,000
Staff Benefits	\$948,000
Operating Expenses and Equipment	\$1,781,000
Total Expenditures ²¹	\$4,497,000

Projected Needs and Requirements – FY 2022-23; FY 2023-24

The Authority anticipates it has the financial needs and requirements identified in Table 10 for the 2022-23 and 2023-24 fiscal years.

TABLE 10: PROJECTED NEEDS AND REQUIREMENTS²² – FY 2022-23; FY 2023-24

	FY 2022-23	FY 2023-24
Total Salaries and Wages	\$3,549,000	\$3,542,000
Staff Benefits	\$1,214,000	\$1,219,000
Total Operating Expenses and Equipment	\$4,060,000	\$3,603,000
Total Projected Needs and Requirements	\$8,823,000	\$8,364,000

²⁰ Total revenues include fees collected from the STE and Bond Programs. Total revenues listed do not include reimbursements received from the IOUs to cover costs associated with CAEATFA's administration of the CHEEF.

²¹ Total expenditures include expenditures associated with all of CAEATFA's programs, including the administration of the CHEEF.

²² The values in this Section are as reported in the [Governor's Proposed Budget for the 2023-24 fiscal year](#).

**APPENDIX A:
SALES AND USE TAX EXCLUSION
APPLICATIONS CONSIDERED TO DATE**



Appendix A: Sales and Use Tax Exclusion Applications Considered to Date

	App. No.	Year Approved	Date Approved	Applicant Name	City	County	Project Type	Use of Proceeds	Qualified Property Amount Approved	Estimated STE ¹	Estimated STE Used to Date ¹	Qualified Property Amount Reported	% Reported	Estimated Environmental Benefit	Estimated Fiscal Benefit ²	Estimated Net Benefit ²	Est. Total Jobs ²	Est. Jobs from STE ²	Project Status
1	16-SM006	2016	1/19/16	California Safe Soil	McClellan	Sacramento	Advanced Manufacturing	Soil Amendments Production	\$3,750,000	\$315,750	\$262,438	3,112,906.81	83%	N/A	\$1,623,748	\$1,307,998	22	2	Active
2	16-SM004	2016	1/19/16	rPlanet Earth, LLC	Vernon	Los Angeles	Advanced Manufacturing	Plastic Recycling	\$119,800,000	\$10,087,160	\$7,826,993	93,236,941.32	78%	N/A	\$34,955,481	\$24,868,321	625	59	Active
3	17-SM049	2017	6/20/17	Circular Polymers LLC	Lincoln	Placer	Advanced Manufacturing	Advanced Carpet Recycling	\$7,548,500	\$635,584	\$352,173	4,249,800.46	56%	N/A	\$1,177,470	\$541,886	78	6	Active
4	17-SM050	2017	6/20/17	eco.logic brands, inc.	Manteca	San Joaquin	Advanced Manufacturing	Recycled Paper Bottles Manufacturing	\$6,944,000	\$584,685	\$585,739	6,944,000.69	100%	N/A	\$757,657	\$172,972	66	5	Active
5	17-SM061	2017	11/14/17	Ontario CNG Station, Inc.	Ontario	San Bernardino	Alternative Source	Renewable Hydrogen Production	\$2,000,000	\$168,400	\$153,833	1,827,000.00	91%	\$3,715	\$260,821	\$96,136	13	2	Active
6	17-SM023	2017	6/20/17	Organic Energy Solutions, LLC	San Bernardino	San Bernardino	Alternative Source	Biomass Processing and Fuel Production	\$24,440,000	\$2,057,848	\$1,909,275	22,830,142.80	93%	\$602,601	\$1,552,332	\$97,085	106	17	Active
7	17-SM052	2017	7/18/17	Sanitation Districts of Los Angeles County	Whittier; Carson	Los Angeles	Alternative Source	Biomass Processing and Fuel Production	\$11,928,310	\$1,004,364	\$791,489	9,446,744.32	79%	\$95,175	\$2,099,961	\$1,190,772	41	4	Active
8	17-SM062	2017	11/14/17	Trademark Brewing, LLC	Long Beach	Los Angeles	Advanced Manufacturing	Beverage Production	\$1,854,741	\$156,169	\$87,737	1,048,913.28	57%	N/A	\$808,675	\$652,506	50	4	Active
9	18-SM026	2018	10/16/18	CalBioGas Kern LLC	Bakersfield	Kern	Alternative Source	Dairy Biogas Production	\$31,909,025	\$2,667,595	\$1,540,988	18,412,719.73	58%	\$359,810	\$6,333,623	\$4,025,838	100	8	Active
10	18-SM028	2018	10/16/18	CalBioGas West Visalia LLC	Tulare	Tulare	Alternative Source	Dairy Biogas Production	\$22,172,277	\$1,853,602	\$1,009,197	12,058,254.44	54%	\$202,638	\$3,655,350	\$2,004,386	71	6	Active
11	18-SM008	2018	4/17/18	Faraday&Future Inc.	Hanford; Compton; Gardena	Kings; Los Angeles; Los Angeles	Advanced Transportation	Electric Vehicle Manufacturing	\$239,234,449	\$20,000,000	\$17,135,441	204,852,216.36	86%	\$1,008,206	\$38,031,362	\$19,039,568	1,244	85	Active
12	18-SM002	2018	1/16/18	IF CoPack, LLC, dba Initiative Foods	Sanger	Fresno	Advanced Manufacturing	Advanced Food Production	\$17,115,645	\$1,430,868	\$717,371	8,578,338.31	50%	N/A	\$3,266,279	\$1,835,411	113	11	Active
13	18-SM018	2018	6/19/18	WET	Sun Valley	Los Angeles	Advanced Manufacturing	Water Feature Manufacturing	\$4,927,301	\$411,922	\$289,619	3,452,744.00	70%	N/A	\$873,330	\$461,408	280	5	Active
14	19-SM001	2019	2/19/19	Biogas Energy, Inc.	Roseville	Placer	Alternative Source	Biomass Processing and Fuel Production	\$3,867,000	\$323,281	\$276,242	3,301,019.00	85%	\$75,504	\$359,170	\$111,392	8	1	Active
15	19-SM029	2019	6/18/19	Edwards Lifesciences LLC	Irvine	Orange	Advanced Manufacturing	Cardiovascular Technology Manufacturing	\$239,234,449	\$20,000,000	\$19,805,456	234,535,029.86	98%	N/A	\$20,979,059	\$979,059	1,064	48	Active
16	19-SM025	2019	5/21/19	Fortis Solution Group West, LLC	Napa	Napa	Advanced Manufacturing	Advanced Packaging Label Production	\$7,045,460	\$589,000	\$359,016	4,294,451.46	61%	N/A	\$1,071,413	\$482,413	59	4	Active
17	19-SM006	2019	2/19/19	Intuitive Surgical, Inc. and its Subsidiary, Intuitive Surgical Operations, Inc.	Sunnyvale	Santa Clara	Advanced Manufacturing	Advanced Robotic Surgical Systems and Tools	\$96,875,430	\$8,098,786	\$3,813,385	45,513,600.65	47%	N/A	\$13,591,326	\$5,492,540	1,272	33	Active
18	19-SM027	2019	6/18/19	Joby Aero, Inc.	Marina	Monterey	Advanced Transportation	Electric Vertical Take-Off and Landing (eVTOL) Aircraft Manufacturing	\$73,473,675	\$6,142,399	\$4,261,712	50,423,889.48	69%	\$151,181	\$31,297,045	\$25,305,827	1,457	85	Active

Appendix A: Sales and Use Tax Exclusion Applications Considered to Date

App. No.	Year Approved	Date Approved	Applicant Name	City	County	Project Type	Use of Proceeds	Qualified Property Amount Approved	Estimated STE ¹	Estimated STE Used to Date ¹	Qualified Property Amount Reported	% Reported	Estimated Environmental Benefit	Estimated Fiscal Benefit ²	Estimated Net Benefit ²	Est. Total Jobs ²	Est. Jobs from STE ²	Project Status	
19	19-SM030	2019	6/18/19	Sioneer Stockton, LLC	Stockton	San Joaquin	Recycled Resource Extraction	Glass Recycling and Pozzolan Manufacturing	\$15,370,837	\$1,285,002	\$352,694	4,208,164.82	27%	\$231,501	\$1,672,361	\$618,859	28	4	Active
20	19-SM032	2019	7/16/19	South Bayside Waste Management Authority	San Carlos	San Mateo	Alternative Source	Organics and Municipal Solid Waste	\$11,260,000	\$941,336	\$87,675	1,048,746.89	9%	\$69,820	\$1,932,190	\$1,060,674	22	2	Active
21	20-SM008	2020	3/17/20	Applied Materials, Inc.	Santa Clara; Sunnyvale	Santa Clara	Advanced Manufacturing	Semiconductor and Related Industries Fabrication Equipment Manufacturing	\$118,692,224	\$9,922,670	\$10,073,648	118,692,146.93	100%	N/A	\$20,897,003	\$10,974,333	3,199	67	Active
22	20-SM020	2020	3/17/20	Bar 20 Dairy Biogas, LLC	Kerman	Fresno	Alternative Source	Dairy Biogas Production	\$9,573,170	\$800,317	\$532,268	6,304,004.86	66%	\$94,401	\$1,358,931	\$653,015	70	7	Active
23	20-SM024	2020	3/17/20	CalBioGas Buttonwillow LLC	Buttonwillow	Kern	Alternative Source	Dairy Biogas Production	\$21,123,032	\$1,765,885	\$803,471	9,479,948.58	45%	\$191,126	\$4,508,054	\$2,933,294	110	9	Active
24	20-SM023	2020	3/17/20	CalBioGas North Visalia LLC	Visalia	Tulare	Alternative Source	Dairy Biogas Production	\$37,529,013	\$3,137,425	\$1,580,326	18,801,557.54	50%	\$340,070	\$8,030,185	\$5,232,829	184	16	Active
25	20-SM022	2020	3/17/20	CalBioGas South Tulare LLC	Tulare	Tulare	Alternative Source	Dairy Biogas Production	\$52,471,257	\$4,386,597	\$2,376,693	28,306,850.12	54%	\$585,588	\$13,489,899	\$9,688,890	243	20	Active
26	20-SM003	2020	1/21/20	East Valley Water District	Highland	San Bernardino	Alternative Source	Biogas Capture and Production	\$60,328,000	\$5,043,421	\$3,504,984	41,641,906.45	69%	\$729,069	\$7,918,079	\$3,603,727	79	12	Active
27	20-SM006	2020	1/21/20	Five Points Pipeline LLC	Riverdale	Fresno	Alternative Source	Dairy Biogas Production	\$15,017,114	\$1,255,431	\$993,823	11,805,015.09	79%	\$213,374	\$3,816,474	\$2,774,417	33	2	Active
28	20-SM009	2020	3/17/20	GCE Holdings Acquisitions, LLC	Bakersfield	Kern	Alternative Source	Renewable Diesel Production	\$119,617,224	\$10,000,000	\$8,957,268	105,708,541.13	88%	\$3,361,461	\$17,223,213	\$10,584,674	161	12	Active
29	20-SM018	2020	3/17/20	Hat Creek Bioenergy, LLC	Burney	Shasta	Alternative Source	Biomass Processing and Fuel Production	\$12,680,000	\$1,060,048	\$458,601	5,418,480.47	43%	\$897,448	\$2,061,725	\$1,899,124	15	2	Active
30	20-SM016	2020	3/17/20	Inland Empire Utilities Agency	Chino	San Bernardino	Alternative Source	Wastewater and Food Waste Biogas Capture and Production	\$76,377,224	\$6,385,136	\$4,589,017	54,648,326.21	72%	\$127,703	\$9,416,157	\$3,158,724	323	57	Active
31	20-SM027	2020	3/17/20	Intuitive Surgical, Inc. and its Subsidiary, Intuitive Surgical Operations, Inc.	Sunnyvale	Santa Clara	Advanced Manufacturing	Advanced Robotic Surgical Systems and Tools	\$82,500,000	\$6,897,000	\$3,605,385	42,614,835.72	52%	N/A	\$20,416,918	\$13,519,918	2,064	56	Active
32	20-SM015	2020	3/17/20	Lockheed Martin Corporation	Palmdale	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$119,617,224	\$10,000,000	\$4,053,153	48,007,789.40	40%	N/A	\$20,464,377	\$10,464,377	2,830	80	Active
33	20-SM005	2020	1/21/20	Merced Pipeline LLC	Merced	Merced	Alternative Source	Dairy Biogas Production	\$31,922,542	\$2,668,725	\$1,981,424	23,519,128.63	74%	\$437,234	\$7,835,465	\$5,603,974	73	5	Active
34	20-SM010	2020	3/17/20	Tandem Diabetes Care, Inc.	San Diego	San Diego	Advanced Manufacturing	Insulin Pumps and Related Products Manufacturing	\$60,000,000	\$5,016,000	\$927,069	10,982,946.79	18%	N/A	\$5,767,662	\$751,662	676	34	Active
35	20-SM012	2020	3/17/20	Virgin Orbit, LLC	Long Beach	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$18,001,109	\$1,504,893	\$669,584	7,907,746.45	44%	N/A	\$5,301,512	\$3,796,619	707	16	Active
36	20-SM013	2020	3/17/20	Zanker Road Resource Management, LLC	Gilroy	Santa Clara	Recycled Resource Extraction	Mixed Organics	\$24,395,182	\$2,039,437	\$0	0.00	0%	\$64,373	\$7,133,532	\$5,158,468	70	6	Active
37	21-SM008	2021	3/16/21	Aemetis Biogas, LLC	Crows Landing	Stanislaus	Alternative Source	Dairy Biogas Production	\$13,561,890	\$1,152,761	\$715,822	8,421,429.97	62%	\$1,237,725	\$6,228,632	\$6,313,597	31	2	Active

Appendix A: Sales and Use Tax Exclusion Applications Considered to Date

App. No.	Year Approved	Date Approved	Applicant Name	City	County	Project Type	Use of Proceeds	Qualified Property Amount Approved	Estimated STE ¹	Estimated STE Used to Date ¹	Qualified Property Amount Reported	% Reported	Estimated Environmental Benefit	Estimated Fiscal Benefit ²	Estimated Net Benefit ²	Est. Total Jobs ²	Est. Jobs from STE ²	Project Status	
38	21-SM022	2021	3/16/21	Ameresco Chiquita RNG, LLC	Castaic	Los Angeles	Alternative Source	Landfill Gas to Renewable Natural Gas Production	\$27,722,495	\$2,356,412	\$0	0.00	0%	\$3,244,711	\$6,300,673	\$7,188,972	31	3	Active
39	21-SM020	2021	3/16/21	Ameresco Forward RNG, LLC	Manteca	San Joaquin	Alternative Source	Landfill Gas to Renewable Natural Gas Production	\$26,374,850	\$2,241,862	\$509,721.41	5,996,722.48	23%	\$3,084,347	\$6,041,020	\$6,883,505	31	3	Active
40	21-SM021	2021	3/16/21	Ameresco Keller Canyon RNG, LLC	Pittsburg	Contra Costa	Alternative Source	Landfill Gas to Renewable Natural Gas Production	\$27,722,495	\$2,356,412	\$2,623,576	27,218,363.73	98%	\$3,231,711	\$6,286,445	\$7,161,744	31	3	Active
41	21-SM013	2021	3/16/21	Applied Materials, Inc.	Santa Clara; Sunnyvale	Santa Clara	Advanced Manufacturing	Semiconductor and Related Industries Fabrication Equipment Manufacturing	\$23,225,000	\$1,974,125	\$1,869,798	21,997,626.18	95%	N/A	\$6,657,625	\$4,683,500	3,599	22	Active
42	21-SM025	2021	3/16/21	Applied Medical Resources Corporation	Rancho Santa Margarita	Orange	Advanced Manufacturing	Medical Device Manufacturing	\$150,547,889	\$12,796,571	\$9,236,406	108,663,604.13	72%	N/A	\$29,076,792	\$16,280,222	5,608	300	Active
43	21-SM004	2021	3/16/21	Blue Line Transfer, Inc.	South San Francisco	San Mateo	Recycled Resource Extraction	Mixed Recycling	\$5,500,000	\$467,500	\$419,011	4,946,741.44	90%	\$61,252	\$1,894,035	\$1,487,787	36	4	Active
44	21-SM028	2021	3/16/21	Brightmark Vlot RNG LLC	Chowchilla	Madera	Alternative Source	Dairy Biogas Production	\$29,698,976	\$2,524,413	\$2,108,993	24,811,676.45	84%	\$1,496,092	\$6,589,610	\$5,561,289	96	9	Active
45	21-SM026	2021	3/16/21	Cepheid	Lodi; Sunnyvale; Newark	San Joaquin; Santa Clara; Alameda	Advanced Manufacturing	Medical Device Manufacturing	\$209,750,000	\$17,828,750	\$5,263,443	61,922,861.26	30%	N/A	\$20,528,309	\$2,699,559	3,435	182	Active
46	21-SM032	2021	5/18/21	CertainTeed, LLC	Chowchilla	Madera	Advanced Manufacturing	Residential Insulation Manufacturing	\$22,300,000	\$1,895,500	\$1,854,787	21,821,025.68	98%	N/A	\$3,721,318	\$1,825,818	227	4	Active
47	21-SM029	2021	3/16/21	DexCom, Inc.	San Diego	San Diego	Advanced Manufacturing	Medical Device Manufacturing	\$69,450,000	\$5,903,250	\$1,159,059	13,635,989.41	20%	N/A	\$20,125,937	\$14,222,687	2,815	123	Active
48	21-SM033	2021	5/18/21	Enovix Corporation	Fremont	Alameda	Advanced Manufacturing	Lithium Ion Batteries	\$49,075,888	\$4,171,450	\$3,526,361	41,486,595.83	85%	N/A	\$6,749,817	\$2,578,366	169	13	Active
49	21-SM023	2021	3/16/21	HZI Lancaster, LLC	Lancaster	Los Angeles	Alternative Source	Biogas Capture and Production	\$27,231,400	\$2,314,669	\$0	0.00	0%	\$1,678,109	\$5,215,414	\$4,578,854	63	6	Active
50	21-SM009	2021	3/16/21	MSBG Partners, LLC	Goleta	Santa Barbara	Alternative Source	Landfill Gas to Renewable Natural Gas Production	\$11,252,500	\$956,463	\$0	0.00	0%	\$736,177	\$2,189,741	\$1,969,455	12	1	Active
51	21-SM027	2021	3/16/21	Pacesetter, Inc	Sylmar	Los Angeles	Advanced Manufacturing	Medical Device Manufacturing	\$34,950,000	\$2,970,750	\$645,561	7,594,837.50	22%	N/A	\$2,656,610	-\$314,140	1,063	30	Active
52	21-SM003	2021	3/16/21	Recology Sonoma Marin	Santa Rosa	Sonoma	Recycled Resource Extraction	Mixed Recycling	\$15,266,032	\$1,297,613	\$609,564	7,171,344.00	47%	\$140,202	\$1,514,673	\$357,263	77	9	Active
53	21-SM019	2021	3/16/21	Rialto Bioenergy Facility, LLC	Bloomington	San Bernardino	Alternative Source	Biogas Capture and Production	\$38,259,725	\$3,252,077	\$3,250,181	38,237,423.02	100%	\$4,876,767	\$5,647,833	\$7,272,523	19	3	Active
54	21-SM030	2021	5/18/21	RNG Moovers, LLC	Chowchilla; Madera; Pixley	Madera; Tulare	Alternative Source	Dairy Biogas	\$29,475,049	\$2,505,379	\$2,496,275	29,367,943.75	100%	\$1,322,255	\$5,965,660	\$4,782,536	60	5	Active
55	21-SM011	2021	3/16/21	Rocket Lab USA, Inc.	Long Beach	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$6,443,921	\$547,733	\$157,345	1,851,118.54	29%	N/A	\$2,213,498	\$1,665,765	55	3	Active
56	22-SM023	2022	6/21/2022	Aemetis Advanced Fuels Keyes, Inc.	Ceres	Stanislaus	Alternative Source	Ethanol Production	\$22,703,169	\$1,929,769	\$469,851	5,527,654.30	24%	\$2,539,767	\$12,866,848	\$13,476,845	36	1	Active

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57	22-SM032	2022	6/21/2022	Ampaire, Inc.	Hawthorne; Camarillo	Los Angeles; Ventura	Advanced Transportation	Aircraft Hybrid Electric Powertrain Production	\$29,889,143	\$2,540,577	\$0	0.00	0%	\$13,497,790	\$4,413,720	\$15,370,933	112	6	Active
58	22-SM044	2022	6/21/2022	Archer Aviation, Inc.	Palo Alto	Santa Clara	Advanced Transportation	Electric Vertical Takeoff and Landing Aircraft Production	\$44,360,877	\$3,770,675	\$731,369	8,604,343.25	19%	\$2,973,327	\$22,165,537	\$21,368,189	557	33	Active
59	22-SM003	2022	6/21/2022	Best Express Foods, Inc.	Stockton	San Joaquin	Advanced Manufacturing	Advanced Food Production	\$6,795,730	\$577,637	\$231,234	2,720,398.50	40%	N/A	\$4,096,277	\$3,518,640	75	5	Active
60	22-SM019	2022	6/21/2022	BHE Renewables, LLC, and its subsidiaries Magma Power Company and CE Generation, LLC	Calipatria	Imperial	Alternative Source	Geothermal Steam Production	\$188,422,290	\$16,015,895	\$0	0.00	0%	\$9,631,034	\$21,719,219	\$15,334,358	602	77	Active
61	22-SM020	2022	6/21/2022	BHE Renewables, LLC, and its subsidiaries Magma Power Company, BHER Minerals, LLC, and CE Generation, LLC	Calipatria	Imperial	Advanced Transportation	Lithium Recovery and Processing	\$21,434,530	\$1,821,935	\$71,283	838,623.33	4%	\$138,939	\$1,836,944	\$153,948	47	6	Active
62	22-SM001	2022	6/21/2022	Blue Mountain Electric Company LLC	Wilseyville	Calaveras	Alternative Source	Biomass Processing and Fuel Production	\$17,030,696	\$1,447,609	\$0	0.00	0%	\$2,938,804	\$1,719,760	\$3,210,955	38	6	Active
63	22-SM035	2022	6/21/2022	Califia Farms, LLC	Bakersfield	Kern	Advanced Manufacturing	Plant-Based Dairy Free Beverage Manufacturing	\$23,500,000	\$1,997,500	\$469,600	5,524,703.80	24%	N/A	\$5,920,554	\$3,923,054	298	10	Active
64	22-SM029	2022	6/21/2022	California Safe Soil, LLC	McClellan	Sacramento	Recycled Resource Extraction	Mixed Organics	\$23,089,719	\$1,962,626	\$0	0.00	0%	\$48,106	\$3,333,560	\$1,419,039	54	5	Active
65	22-SM038	2022	6/21/2022	CASS, Inc.	Oakland	Alameda	Recycled Resource Extraction	Mixed Metals Recycling	\$23,750,000	\$2,018,750	\$155,424	1,828,523.29	8%	\$341,858	\$4,185,039	\$2,508,147	171	15	Active
66	22-SM016	2022	12/13/22	EnergySource Minerals LLC and its subsidiary, ESM ATUIS LLC	Calipatria	Imperial	Advanced Manufacturing	Lithium Recovery and Processing	\$176,740,588.24	\$15,000,000	\$0	0.00	0%	N/A	\$24,395,897.00	\$9,395,897.00	332	61	Active
67	22-SM026	2022	6/21/2022	Heraeus Precious Metals North America LLC	Santa Fe Springs	Los Angeles	Advanced Manufacturing	Precious Metals Recycling	\$15,900,000	\$1,351,500	\$533,317	6,274,321.31	39%	N/A	\$2,363,186	\$1,011,686	194	7	Active
68	22-SM041	2022	6/21/2022	Lam Research Corporation	Fremont; Livermore	Alameda	Advanced Manufacturing	Semiconductor Fabrication Equipment Manufacturing	\$23,500,000	\$1,997,500	\$1,545,382	9,090,481.07	39%	N/A	\$14,353,254	\$12,355,754	3,461	45	Active
69	22-SM027	2022	6/21/2022	Mitra Future Technologies, Inc.	Mountain View	Santa Clara	Advanced Transportation	Iron-Based Cathode Production	\$5,484,877	\$466,215	\$50,137	589,843.64	11%	\$708,758	\$457,792	\$700,335	80	7	Active
70	22-SM030	2022	6/21/2022	National Carbon Technologies California, LLC	Williams	Colusa	Alternative Source	Biocarbon Pellets Production	\$123,720,000	\$10,516,200	\$2,078,736	24,455,719.76	20%	\$16,365,146	\$8,953,287	\$14,802,234	307	37	Active
71	22-SM006	2022	6/21/2022	Paradigm Packaging West, LLC	Rancho Cucamonga	San Bernardino	Advanced Manufacturing	Medical Device and Component Manufacturing	\$8,354,110	\$710,099	\$0	0.00	0%	N/A	\$861,039	\$150,939	321	31	Active

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72	22-SM031	2022	6/21/2022	Phillips 66 Company	Rodeo	Contra Costa	Alternative Source	Renewable Diesel	\$195,834,944.70	\$16,645,970	\$9,664,822	113,703,792.48	58%	\$53,648,295	\$37,500,207	\$74,502,532	677	42	Active
73	22-SM010	2022	6/21/2022	QuantumScape Battery, Inc.	San Jose	Santa Clara	Advanced Manufacturing	Lithium Battery Cell Manufacturing	\$114,844,599	\$9,761,791	\$0	0.00	0%	N/A	\$59,767,963	\$50,006,172	610	596	Active
74	22-SM036	2022	6/21/2022	Quidel Corporation	Carlsbad; San Diego	San Diego	Advanced Manufacturing	Medical Diagnostic Test Production	\$23,150,000	\$1,967,750	\$218,369	2,569,042.37	11%	N/A	\$7,036,749	\$5,068,999	1,411	42	Active
75	22-SM014	2022	6/21/2022	Sugar Valley Energy, LLC	Brawley	Imperial	Advanced Manufacturing	Biomass Processing and Fuel Production	\$117,647,058.82	\$10,000,000	\$0	0.00	0%	N/A	\$35,469,579	\$25,469,579	421	39	Active
76	22-SM021	2022	6/21/2022	Swift Solar, Inc.	San Carlos	San Mateo	Advanced Manufacturing	Solar Photovoltaic Manufacturing	\$8,490,000	\$721,650	\$33,467	393,724.70	5%	N/A	\$671,440	-\$50,210	72	6	Active
77	22-SM051	2022	6/21/2022	Terray Therapeutics, Inc.	Monrovia	Los Angeles	Advanced Manufacturing	Biopharmaceutical Manufacturing	\$16,417,363	\$1,395,476	\$0	0.00	0%	N/A	\$8,137,460	\$6,741,984	108	5	Active
78	22-SM039	2022	6/21/2022	Touchstone Pistachio Company, LLC	Terra Bella	Tulare	Advanced Manufacturing	Pistachio Processing and Production	\$23,400,000	\$1,989,000	\$54,738	643,972.16	3%	N/A	\$9,596,583	\$7,607,583	278	8	Active
79	22-SM028	2022	6/21/2022	Trojan Battery Company, LLC	Santa Fe Springs	Los Angeles	Advanced Manufacturing	Lithium-ion Battery Manufacturing	\$36,566,109	\$3,108,119	\$0	0.00	0%	N/A	\$14,315,313	\$11,207,193	509	23	Active
80	22-SM013	2022	8/16/2022	West Coast Waste Co., Inc.	Fresno	Fresno	Alternative Source	Biomass Processing and Fuel Production	\$72,555,098.32	\$6,167,183	\$0	0.00	0%	\$11,854,892	\$7,674,817	\$13,362,525	132	19	Active
81	10-SM002	2010	11/17/10	ABEC Bidart Stockdale, LLC	Bakersfield	Kern	Alternative Source	Biogas Capture and Production	\$1,131,584	\$102,974	\$90,622	1,118,793.65	99%	\$228,808	\$73,809	\$199,643	26	3	Complete
82	10-SM020	2010	12/15/10	Ameresco Butte County LLC	Paradise	Butte	Alternative Source	Landfill Gas Capture and Production	\$1,085,554	\$98,785	\$62,105	759,409.60	70%	\$71,701	\$185,955	\$158,870	12	1	Complete
83	10-SM022	2010	12/15/10	Ameresco Forward LLC	Manteca	San Joaquin	Alternative Source	Landfill Gas Capture and Production	\$2,227,596	\$202,711	\$119,409	1,447,555.97	65%	\$37,823	\$277,169	\$112,281	11	1	Complete
84	10-SM023	2010	12/15/10	Ameresco Johnson Canyon LLC	Gonzales	Monterey	Alternative Source	Landfill Gas Capture and Production	\$766,293	\$69,733	\$53,372	658,910.18	86%	\$33,124	\$168,912	\$132,303	12	1	Complete
85	10-SM024	2010	12/15/10	Ameresco San Joaquin LLC	Linden	San Joaquin	Alternative Source	Landfill Gas Capture and Production	\$1,723,486	\$156,837	\$113,649	1,378,738.49	80%	\$99,894	\$419,234	\$362,292	12	1	Complete
86	10-SM025	2010	12/15/10	Ameresco Vasco Road LLC	Livermore	Alameda	Alternative Source	Landfill Gas Capture and Production	\$1,828,204	\$166,367	\$112,036	1,358,330.76	74%	\$66,258	\$333,415	\$233,306	11	1	Complete
87	10-SM026	2010	12/15/10	BioFuels Point Loma, LLC	San Diego	San Diego	Alternative Source	Wastewater Treatment Biogas Capture and Production	\$6,236,024	\$567,478	\$449,162	5,512,427.97	88%	\$120,126	\$509,292	\$61,939	25	3	Complete
88	10-SM015	2010	11/17/10	Bloom Energy Corporation	Sunnyvale	Santa Clara	Alternative Source	Solid Oxide Fuel Cell Systems Manufacturing	\$37,447,693	\$3,407,740	\$2,978,510	35,340,432.80	94%	\$562,054	\$11,144,189	\$8,298,503	1,004	83	Complete
89	10-SM028	2010	12/15/10	California Institute of Technology	Pasadena	Los Angeles	Alternative Source	R&D of Solar Fuel Generator Systems	\$13,400,000	\$1,219,400	\$996,694	11,899,375.73	89%	\$0	\$702,662	-\$516,738	133	15	Complete
90	10-SM004	2010	11/17/10	First Solar, Inc.	Santa Clara	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$37,700,000	\$3,430,700	\$3,409,567	37,692,991.15	100%	\$1,668,971	\$1,971,559	\$209,831	174	17	Complete
91	10-SM013	2010	11/17/10	NuvoSun Incorporated	Milpitas	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$20,000,000	\$1,820,000	\$1,736,128	19,996,322.73	100%	\$2,137,232	\$2,594,509	\$2,911,741	160	18	Complete

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92	10-SM012	2010	12/15/10	SunPower Corporation	Milpitas	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$8,000,000	\$728,000	\$704,816	7,745,227.00	97%	\$903,595	\$1,877,730	\$2,053,325	94	11	Complete
93	10-SM007	2010	11/17/10	The Solaria Corporation	Fremont	Alameda	Alternative Source	Solar Photovoltaic Manufacturing	\$7,800,000	\$709,800	\$375,885	4,474,134.55	57%	\$834,403	\$1,564,665	\$1,689,268	180	17	Complete
94	11-SM003	2011	1/25/11	Alameda-Contra Costa Transit District	Emeryville	Alameda	Alternative Source	Demonstration Hydrogen Fuel Production	\$5,387,950	\$490,303	\$362,320	4,473,087.00	83%	\$16,040	\$274,173	-\$200,090	6	1	Complete
95	11-SM009	2011	6/28/11	DTE Stockton, LLC	Stockton	San Joaquin	Alternative Source	Biomass Processing and Fuel Production	\$10,120,000	\$920,920	\$823,638	10,119,999.91	100%	\$2,221,793	\$4,297,636	\$5,598,509	62	7	Complete
96	11-SM001	2011	1/25/11	Leyden Energy, Inc.	Fremont	Alameda	Advanced Transportation	Lithium Ion Battery Manufacturing	\$1,306,525	\$118,894	\$99,647	1,213,372.59	93%	\$21,400	\$944,754	\$847,260	26	2	Complete
97	11-SM006	2011	3/22/11	Mt. Poso Cogeneration Company, LLC	Bakersfield	Kern	Alternative Source	Biomass Processing and Fuel Production	\$14,374,000	\$1,308,034	\$1,164,294	14,373,999.93	100%	\$197,027	\$3,470,273	\$2,359,266	97	11	Complete
98	11-SM010	2011	7/26/11	SCS Energy	Fresno	Fresno	Alternative Source	Biogas Capture and Production	\$3,155,300	\$255,579	\$247,020	3,049,631.77	97%	\$40,230	\$271,233	\$55,884	9	1	Complete
99	11-SM016	2011	12/13/11	Tesla, Inc.	Fremont; Hawthorne; Palo Alto; Menlo Park	Alameda; Los Angeles; Santa Clara; San Mateo	Advanced Transportation	Electric Vehicle Manufacturing	\$292,000,000	\$23,652,000	\$24,546,045	291,889,530.09	100%	\$2,386,636	\$35,023,610	\$13,758,246	1,237	108	Complete
100	11-SM019	2011	11/15/11	Zero Waste Energy Development Company, LLC	San Jose	Santa Clara	Alternative Source	Biogas Capture and Production	\$17,156,875	\$1,389,707	\$942,179	11,273,784.04	66%	\$1,355,423	\$2,233,575	\$2,199,291	174	17	Complete
101	12-SM006	2012	5/15/12	John Galt Biogas Inc.	Galt	Sacramento	Alternative Source	Biogas Capture and Production	\$1,025,769	\$83,087	\$61,712	735,018.76	72%	\$112,933	\$128,931	\$158,777	6	1	Complete
102	12-SM008	2012	6/19/12	North Star Biofuels LLC	Watsonville	Santa Cruz	Alternative Source	Biodiesel Production	\$4,115,500	\$333,356	\$343,220	4,115,500.00	100%	\$84,522	\$2,616,810	\$2,367,976	30	1	Complete
103	12-SM013	2012	11/13/12	Oberon Fuels, Inc.	Brawley	Imperial	Alternative Source	Biogas Capture & Bio DME Production	\$13,500,000	\$1,093,500	\$379,524	4,510,779.81	33%	\$423,866	\$679,196	\$9,561	17	3	Complete
104	12-SM007	2012	5/15/12	Reflexite Soitec Optical Technology LLC	San Diego	San Diego	Alternative Source	Concentrated Photovoltaic Manufacturing	\$24,500,000	\$1,984,500	\$2,005,024	24,200,004.00	99%	\$357,750	\$1,704,725	\$77,975	114	8	Complete
105	12-SM004	2012	5/15/12	Soitec Solar Industries LLC	San Diego	San Diego	Alternative Source	Concentrated Photovoltaic Manufacturing	\$104,381,342	\$8,454,889	\$7,351,987	90,047,264.86	86%	\$3,706,841	\$10,302,813	\$5,554,765	399	44	Complete
106	12-SM003	2012	3/20/12	Stion Corporation	San Jose	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$6,417,810	\$519,843	\$490,542	6,056,069.00	94%	\$277,896	\$253,546	\$11,600	28	3	Complete
107	12-SM012	2012	11/13/12	Zero Waste Energy, LLC	Marina	Monterey	Alternative Source	Biogas Capture and Production	\$1,187,000	\$96,147	\$94,295	1,126,586.53	95%	\$18,139	\$95,062	\$17,054	5	1	Complete
108	13-SM007	2013	6/18/13	ABEC Bidart-Old River, LLC	Bakersfield	Kern	Alternative Source	Biogas Capture and Production	\$6,254,045	\$523,464	\$328,667	3,926,731.88	63%	\$351,613	\$523,038	\$351,188	28	2	Complete
109	13-SM011	2013	10/15/13	Blue Line Transfer, Inc.	South San Francisco	San Mateo	Alternative Source	Biomass Processing and Fuel Production	\$4,976,469	\$416,530	\$326,788	3,881,088.00	78%	\$43,980	\$423,841	\$51,291	20	3	Complete
110	13-SM002	2013	3/19/13	Buster Biofuels, LLC	Escondido	San Diego	Alternative Source	Biodiesel Production	\$1,905,343	\$159,477	\$160,430	1,905,343.00	100%	\$103,496	\$786,032	\$730,051	32	2	Complete
111	13-SM010	2013	9/17/13	Central Valley Ag Power, LLC	Oakdale	Stanislaus	Alternative Source	Biomass Processing and Fuel Production	\$3,481,313	\$291,386	\$293,077	3,480,725.29	100%	\$38,218	\$394,801	\$141,634	23	2	Complete

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112	13-SM001	2013	1/15/13	CleanWorld	Davis	Yolo	Alternative Source	Biomass Processing and Fuel Production	\$5,851,298	\$489,754	\$459,934	5,462,393.90	93%	\$106,588	\$506,088	\$122,923	24	3	Complete
113	13-SM013	2013	11/19/13	Crimson Renewable Energy, LP	Bakersfield	Kern	Alternative Source	Biomass Processing and Fuel Production	\$14,065,000	\$1,177,241	\$1,181,210	14,064,998.80	100%	\$136,306	\$2,737,899	\$1,696,964	38	2	Complete
114	13-SM009	2013	8/20/13	North State Rendering Co Inc.	Oroville	Butte	Alternative Source	Biomass Processing and Fuel Production	\$7,355,324	\$615,641	\$619,318	7,355,324.00	100%	\$305,075	\$422,917	\$112,351	12	2	Complete
115	13-SM015	2013	12/17/13	Tesla, Inc.	Fremont; Palo Alto; Hawthorne	Alameda; Santa Clara; Los Angeles	Advanced Transportation	Electric Vehicle Manufacturing	\$415,000,000	\$34,735,500	\$34,929,532	414,840,044.17	100%	\$4,847,406	\$54,306,869	\$24,418,775	2,050	115	Complete
116	14-SM012	2014	9/16/14	Anaheim Energy, LLC	Anaheim	Orange	Alternative Source	Biogas Capture and Production	\$19,143,601	\$1,611,891	\$1,601,066	19,143,565.88	100%	\$568,979	\$1,938,411	\$895,499	40	5	Complete
117	14-SM022	2014	12/16/14	Bowerman Power LFG, LLC	Irvine	Orange	Alternative Source	Landfill Gas Capture and Production	\$7,030,000	\$591,926	\$520,311	6,179,466.25	88%	\$273,723	\$1,091,792	\$773,589	30	3	Complete
118	14-SM007	2014	5/20/14	E&J Gallo Winery	Livingston	Merced	Alternative Source	Biogas Capture and Production	\$17,592,381	\$1,481,278	\$1,249,865	14,846,238.99	84%	\$363,691	\$1,142,019	\$24,432	45	7	Complete
119	14-SM001	2014	2/18/14	Enovix Corporation	Fremont	Alameda	Advanced Manufacturing	Lithium Ion Battery Manufacturing	\$16,234,215	\$1,358,804	\$1,359,068	16,234,214.94	100%	N/A	\$1,920,567	\$561,763	78	6	Complete
120	14-SM005	2014	5/20/14	MSB Investors, LLC	Santa Barbara	Santa Barbara	Alternative Source	Biogas Capture and Production	\$17,696,003	\$1,490,003	\$1,244,107	14,860,760.88	84%	\$319,442	\$1,392,985	\$222,423	75	5	Complete
121	14-SM008	2014	6/17/14	Niagara Bottling, LLC	San Bernardino	San Bernardino	Advanced Manufacturing	Water Bottling Facility	\$30,000,000	\$2,526,000	\$2,525,683	29,996,238.73	100%	N/A	\$7,988,338	\$5,462,338	86	6	Complete
122	14-SM004	2014	5/20/14	Pixley Biogas, LLC	Pixley	Tulare	Alternative Source	Biogas Capture and Production	\$3,363,238	\$283,185	\$283,108	3,362,323.25	100%	\$287,308	\$321,007	\$325,130	9	2	Complete
123	14-SM011	2014	9/16/14	Rialto Bioenergy Facility, LLC	Bloomington	San Bernardino	Alternative Source	Biogas Capture and Production	\$14,722,168	\$1,239,607	\$1,230,773	14,722,159.62	100%	\$765,232	\$1,662,628	\$1,188,254	35	3	Complete
124	15-SM013	2015	12/15/15	ABEC #2 LLC	Buttonwillow	Kern	Alternative Source	Biogas Capture and Production	\$5,990,614	\$504,410	\$419,042	4,976,743.13	83%	\$180,513	\$618,883	\$294,986	14	0	Complete
125	15-SM006	2015	4/21/15	California Renewable Power, LLC	Perris	Riverside	Alternative Source	Biogas Capture and Production	\$13,079,755	\$1,101,315	\$1,101,315	13,079,755.00	100%	\$137,797	\$1,839,848	\$876,329	48	4	Complete
126	15-SM006	2015	6/16/15	Efficient Drivetrains, Inc.	Milpitas	Santa Clara	Advanced Transportation	Electric Vehicle Drivetrain Manufacturing	\$5,008,800	\$421,741	\$315,331	3,768,912.56	75%	\$1,434,548	\$970,990	\$1,983,797	57	4	Complete
127	15-SM016	2015	10/20/15	Hanford Renewable Energy, LLC	Hanford	Kings	Alternative Source	Biogas Capture and Production	\$3,748,012	\$315,583	\$311,895	3,708,524.73	99%	\$974,447	\$435,837	\$1,094,701	9	1	Complete
128	15-SM008	2015	7/21/15	Hi Shear Corporation	Torrance	Los Angeles	Advanced Manufacturing	Specialty Aerospace Fastener Manufacturing	\$39,385,000	\$3,316,217	\$3,199,996	38,077,811.36	97%	N/A	\$3,432,623	\$116,406	1,117	43	Complete
129	15-SM010	2015	10/20/15	Karma Automotive LLC	Moreno Valley	Riverside	Advanced Manufacturing	Plug-In Hybrid Vehicle Manufacturing	\$38,194,860	\$3,216,007	\$3,216,007	38,194,860.00	100%	N/A	\$4,025,187	\$809,179	205	16	Complete
130	15-SM009	2015	7/21/15	Las Gallinas Valley Sanitary District	San Rafael	Marin	Alternative Source	Biogas Capture and Production	\$788,757	\$66,413	\$66,413	788,757.00	100%	\$10,707	\$44,765	-\$10,941	7	0	Complete
131	15-SM015	2015	10/20/15	Madera Renewable Energy, LLC	Madera	Madera	Alternative Source	Biogas Capture and Production	\$1,999,507	\$168,358	\$168,244	1,999,507.00	100%	\$418,611	\$201,229	\$451,481	7	1	Complete
132	15-SM020	2015	12/15/15	Millennium Space Systems, Inc.	El Segundo	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$4,284,672	\$360,769	\$211,173	2,515,334.34	59%	N/A	\$1,389,088	\$1,028,319	55	4	Complete
133	15-SM011	2015	8/18/15	Orbital ATK, Inc.	Northridge	Los Angeles	Advanced Manufacturing	Defense and Aerospace Manufacturing	\$16,275,154	\$1,370,368	\$1,364,924	16,275,149.36	100%	N/A	\$3,648,303	\$2,277,935	320	10	Complete

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134	15-SM012	2015	9/15/15	Rolls-Royce High Temperature Composites, Inc.	Huntington Beach	Orange	Advanced Manufacturing	Composites Manufacturing	\$8,728,000	\$734,898	\$702,916	8,348,170.95	96%	N/A	\$788,866	\$53,969	105	6	Complete
135	15-SM003	2015	2/17/15	Silevo, Inc.	Fremont	Alameda	Alternative Source	Solar Photovoltaic Manufacturing	\$106,551,184	\$8,971,610	\$6,347,130	75,381,593.84	71%	\$3,402,597	\$9,175,513	\$3,606,500	319	33	Complete
136	15-SM014	2015	10/20/15	Space Exploration Technologies Corp.	Hawthorne	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$360,169,639	\$30,326,284	\$30,197,114	359,033,143.99	100%	N/A	\$40,537,040	\$10,210,756	4,200	183	Complete
137	15-SM017	2015	11/17/15	Space Systems/Loral LLC	Palo Alto	Santa Clara	Advanced Manufacturing	Aerospace Manufacturing	\$5,586,000	\$470,341	\$203,707	2,419,328.70	43%	N/A	\$812,787	\$342,446	354	3	Complete
138	15-SM007	2015	6/16/15	The Monadnock Company	Industry	Los Angeles	Advanced Manufacturing	Specialty Aerospace Fastener Manufacturing	\$6,475,000	\$545,195	\$465,419	5,540,581.48	86%	N/A	\$1,847,167	\$1,301,972	299	10	Complete
139	15-SM005	2015	6/16/15	U.S. Corrugated of Los Angeles, Inc.	Santa Fe Springs	Los Angeles	Advanced Manufacturing	Corrugated Packaging Manufacturing	\$23,969,087	\$2,018,197	\$2,018,197	23,969,087.00	100%	N/A	\$7,825,890	\$5,807,693	160	13	Complete
140	15-SM003	2015	5/19/15	Weber Metals, Inc.	Paramount	Los Angeles	Advanced Manufacturing	Metal Forging	\$167,661,606	\$14,117,107	\$11,339,860	135,006,352.13	81%	N/A	\$35,048,735	\$20,931,628	192	18	Complete
141	14-SM023	2015	1/20/15	WM Renewable Energy, LLC	Novato	Marin	Alternative Source	Biogas Capture and Production	\$2,004,360	\$168,767	\$168,072	1,996,101.98	100%	\$71,130	\$347,143	\$249,507	19	1	Complete
142	16-SM033	2016	12/13/16	ABEC #3 LLC dba Lake View Farms Dairy Biogas	Bakersfield	Kern	Alternative Source	Biogas Capture and Production	\$2,401,884	\$202,239	\$202,239	2,401,884.00	100%	\$33,640	\$311,256	\$142,657	25	3	Complete
143	16-SM034	2016	12/13/16	ABEC #4 LLC dba CE&S Dairy Biogas	Bakersfield	Kern	Alternative Source	Biogas Capture and Production	\$2,701,502	\$227,467	\$227,466	2,701,502.00	100%	\$57,815	\$506,804	\$337,152	24	4	Complete
144	16-SM005	2016	1/19/16	Escondido Bioenergy Facility, LLC	Escondido	San Diego	Alternative Source	Biogas Capture and Production	\$1,900,000	\$159,980	\$49,901	596,906.00	31%	\$28,355	\$344,260	\$212,635	11	1	Complete
145	16-SM031	2016	12/13/16	Eslinger Biodiesel Inc.	Fresno	Fresno	Alternative Source	Biomass Processing and Fuel Production	\$8,394,385	\$706,807	\$706,274	8,394,385.00	100%	\$570,932	\$2,291,152	\$2,155,277	34	2	Complete
146	16-SM037	2016	12/13/16	Gilead Sciences, Inc.	La Verne	Los Angeles	Advanced Manufacturing	Biopharmaceutical Manufacturing	\$51,645,674	\$4,348,566	\$4,279,969	50,884,271.93	99%	N/A	\$3,908,387	-\$440,179	746	48	Complete
147	16-SM021	2016	11/15/16	GreenWaste Recovery, Inc.	San Jose	Santa Clara	Recycled Resource Extraction	Mixed Recycling and Organics	\$4,458,683	\$375,421	\$375,421	4,458,683.00	100%	\$9,786	\$910,539	\$544,904	26	2	Complete
148	16-SM003	2016	1/19/16	Kite Pharma, Inc.	El Segundo	Los Angeles	Advanced Manufacturing	Biopharmaceutical Manufacturing	\$13,763,050	\$1,158,849	\$1,158,554	13,763,036.51	100%	N/A	\$5,393,473	\$4,234,624	305	18	Complete
149	16-SM018	2016	10/18/16	Mid-Valley Disposal	Kerman	Fresno	Recycled Resource Extraction	Mixed Organics	\$3,739,543	\$314,870	\$313,047	3,739,543.00	100%	\$12,990	\$275,785	-\$26,094	24	3	Complete
150	16-SM017	2016	10/18/16	Mid-Valley Disposal	Fresno	Fresno	Recycled Resource Extraction	Mixed Recycling	\$6,821,909	\$574,405	\$511,312	6,116,175.70	90%	\$29,922	\$592,293	\$47,811	54	5	Complete
151	16-SM014	2016	10/18/16	Monterey Regional Waste Management District	Marina	Monterey	Recycled Resource Extraction	Mixed Recycling	\$11,401,677	\$960,021	\$960,021	11,401,677.00	100%	\$44,567	\$1,310,429	\$394,975	35	4	Complete
152	16-SM013	2016	10/18/16	Recology San Francisco	San Francisco	San Francisco	Recycled Resource Extraction	Mixed Recycling	\$7,917,170	\$666,626	\$654,667	7,775,140.00	98%	\$16,789	\$701,902	\$52,065	127	8	Complete
153	16-SM011	2016	10/18/16	SANCO Services, LP	Escondido	San Diego	Recycled Resource Extraction	Mixed Recycling	\$24,190,000	\$2,036,798	\$1,440,631	17,116,898.19	71%	\$91,615	\$3,306,064	\$1,360,881	112	12	Complete

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154	16-SM036	2016	12/13/16	Tesla, Inc.	Fremont; Hawthorne; Palo Alto; Menlo Park; Lathrop	Alameda; Los Angeles; Santa Clara; San Mateo; San Joaquin	Advanced Transportation	Electric Vehicle Manufacturing	\$560,917,080	\$47,229,218	\$47,229,218	560,917,080.00	100%	\$7,883,861	\$46,343,056	\$6,997,699	1,585	80	Complete
155	16-SM002	2016	2/16/16	The Gill Corporation and Its Subsidiary, Castle Industries	El Monte; Ontario	Los Angeles; San Bernardino	Advanced Manufacturing	Aerospace Manufacturing	\$8,472,000	\$713,342	\$271,936	3,231,275.08	38%	N/A	\$2,371,545	\$1,658,203	608	36	Complete
156	16-SM008	2016	10/18/16	Waste Management of Alameda County	San Leandro	Alameda	Recycled Resource Extraction	Mixed Recycling	\$77,272,550	\$6,506,349	\$3,141,565	37,394,411.86	48%	\$141,898	\$8,381,777	\$2,017,327	144	20	Complete
157	16-SM009	2016	10/18/16	Waste Management Recycling and Disposal Services of California, Inc.	Sun Valley	Los Angeles	Recycled Resource Extraction	Mixed Organics	\$3,500,000	\$294,700	\$287,607	3,416,591.71	98%	\$8,008	\$568,386	\$281,694	37	1	Complete
158	17-SM021	2017	6/20/17	Advance International Inc.	Livermore	Alameda	Advanced Manufacturing	Advanced Food Production	\$2,283,000	\$192,229	\$190,841	2,282,783.65	100%	N/A	\$884,553	\$692,324	98	6	Complete
159	17-SM054	2017	8/15/17	AMRO Fabricating Corporation	South El Monte	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$5,120,000	\$431,104	\$411,373	4,920,725.49	96%	N/A	\$611,847	\$180,743	92	7	Complete
160	17-SM042	2017	6/20/17	Aranda Tooling, Inc.	Chino	San Bernardino	Advanced Manufacturing	Tooling and Metal Stamping	\$10,035,231	\$844,966	\$778,850	9,257,741.00	92%	N/A	\$6,607,393	\$5,762,427	180	11	Complete
161	17-SM002	2017	1/17/17	Atara Biotherapeutics, Inc.	Thousand Oaks	Ventura	Advanced Manufacturing	Biopharmaceutical Manufacturing	\$16,285,217	\$1,371,215	\$1,300,154	15,430,506.34	95%	N/A	\$8,830,079	\$7,458,864	103	6	Complete
162	17-SM009	2017	4/18/17	Best Express Foods, Inc.	Stockton	San Joaquin	Advanced Manufacturing	Advanced Food Production	\$3,502,976	\$294,951	\$293,997	3,502,753.00	100%	N/A	\$1,185,647	\$890,697	78	4	Complete
163	17-SM043	2017	5/16/17	Boehringer Ingelheim Fremont, Inc.	Fremont	Alameda	Advanced Manufacturing	Biopharmaceutical Manufacturing	\$214,040,484	\$18,022,209	\$17,994,083	214,040,484.00	100%	N/A	\$58,787,003	\$40,764,795	747	14	Complete
164	17-SM007	2017	2/21/17	BYD Coach & Bus LLC	Lancaster	Los Angeles	Advanced Transportation	Electric Bus Manufacturing	\$3,189,014	\$268,515	\$257,065	3,066,013.53	96%	\$1,728,198	\$11,841,232	\$13,300,915	1,279	33	Complete
165	17-SM018	2017	3/21/17	Calgren Dairy Fuels, LLC	Pixley	Tulare	Alternative Source	Biomass Processing and Fuel Production	\$20,373,200	\$1,715,423	\$1,690,988	20,227,132.55	99%	\$1,627,153	\$2,424,238	\$2,335,968	68	12	Complete
166	17-SM059	2017	10/17/17	CalPlant I, LLC	Willows	Glenn	Advanced Manufacturing	Medium Density Fiberboard Production	\$92,278,983	\$7,769,890	\$7,714,523	92,278,983.00	100%	N/A	\$15,697,094	\$7,927,204	412	31	Complete
167	17-SM019	2017	4/18/17	ChargePoint Inc.	Campbell	Santa Clara	Advanced Manufacturing	Electric Vehicle Charging Station Production	\$1,660,000	\$139,772	\$137,073	1,638,600.14	99%	N/A	\$341,105	\$201,333	35	3	Complete
168	17-SM006	2017	6/20/17	CR&R Incorporated	Lakeside; Perris	Riverside	Alternative Source	Biomass Processing and Fuel Production	\$11,610,900	\$977,638	\$956,300	11,375,918.00	98%	\$187,531	\$888,838	\$98,731	47	6	Complete
169	17-SM063	2017	11/14/17	CR&R Incorporated	Stanton	Orange	Recycled Resource Extraction	Mixed Organics	\$8,389,685	\$706,411	\$577,624	6,909,373.20	82%	\$43,087	\$1,514,068	\$850,743	34	2	Complete
170	17-SM047	2017	6/20/17	Crimson Renewable Energy, LP	Bakersfield	Kern	Alternative Source	Biodiesel Production	\$21,833,100	\$1,838,347	\$1,716,089	20,499,343.18	94%	\$641,781	\$7,253,563	\$6,056,996	62	6	Complete
171	17-SM011	2017	2/21/17	HZIU Kompogas SLO Inc.	San Luis Obispo	San Luis Obispo	Alternative Source	Biomass Processing and Fuel Production	\$7,104,020	\$598,158	\$587,193	7,023,772.27	99%	\$38,784	\$529,337	-\$30,037	33	5	Complete

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172	17-SM057	2017	9/19/17	Lollicup USA, Inc.	Chino	San Bernardino	Advanced Manufacturing	Food Grade Recycled Packaging Manufacturing	\$10,345,200	\$871,066	\$548,540	6,550,804.18	63%	N/A	\$4,455,345	\$3,584,279	396	9	Complete
173	17-SM055	2017	9/19/17	National Steel and Shipbuilding Company	San Diego	San Diego	Advanced Manufacturing	Thin Steel Plate Manufacturing	\$40,500,000	\$3,410,100	\$2,853,485	34,131,478.25	84%	N/A	\$8,549,758	\$5,139,658	5,220	72	Complete
174	17-SM013	2017	9/19/17	PolyPeptide Laboratories, Inc.	Torrance	Los Angeles	Advanced Manufacturing	Peptide Pharmaceutical Manufacturing	\$12,750,000	\$1,073,550	\$1,067,113	12,749,833.20	100%	N/A	\$1,026,253	-\$47,297	240	7	Complete
175	17-SM060	2017	10/17/17	QuantumScape Corporation	San Jose	Santa Clara	Advanced Manufacturing	Electric Vehicle Battery Manufacturing	\$18,243,000	\$1,536,061	\$1,525,072	18,242,488.20	100%	N/A	\$1,213,783	-\$322,277	135	12	Complete
176	17-SM053	2017	7/18/17	Recology San Francisco	San Francisco	San Francisco	Recycled Resource Extraction	Mixed Recycling	\$3,633,145	\$305,911	\$259,121	3,091,815.34	85%	\$6,194	\$359,894	\$60,177	119	3	Complete
177	17-SM065	2017	12/19/17	Sila Nanotechnologies, Inc.	Alameda	Alameda	Advanced Manufacturing	Silicon Anode Powder Manufacturing	\$11,018,845	\$927,787	\$912,254	10,912,131.60	99%	N/A	\$916,086	-\$11,701	123	10	Complete
178	17-SM022	2017	5/16/17	SJV Biodiesel, LLC	Pixley	Tulare	Alternative Source	Biodiesel Production	\$6,680,600	\$562,507	\$560,241	6,680,072.38	100%	\$287,262	\$2,711,381	\$2,436,136	20	2	Complete
179	17-SM058	2017	10/17/17	SunLine Transit Agency	Thousand Palms	Riverside	Alternative Source	Renewable Hydrogen Production	\$7,000,000	\$589,400	\$585,206	7,000,000.00	100%	\$23,821	\$720,765	\$155,186	4	1	Complete
180	17-SM056	2017	12/19/17	TBC - The Boring Company	Hawthorne	Los Angeles	Advanced Manufacturing	Specialized Concrete Ring Manufacturing	\$3,160,000	\$266,072	\$264,176	3,160,000.00	100%	N/A	\$2,385,590	\$2,119,518	24	1	Complete
181	17-SM003	2017	1/17/17	Tesla, Inc.	Fremont	Alameda	Advanced Transportation	Electric Vehicle Manufacturing	\$287,322,328	\$24,192,540	\$24,113,805	287,322,316.11	100%	\$2,796,551	\$20,997,523	-\$398,467	1,011	43	Complete
182	17-SM045	2017	6/20/17	U.S. Corrugated of Los Angeles, Inc.	Cerritos	Los Angeles	Advanced Manufacturing	Corrugated Packaging Manufacturing	\$5,834,792	\$491,289	\$488,982	5,834,792.00	100%	N/A	\$2,325,511	\$1,834,222	95	9	Complete
183	18-SM003	2018	2/20/18	Best Express Foods, Inc.	Stockton	San Joaquin	Advanced Manufacturing	Advanced Food Production	\$4,293,330	\$358,922	\$358,904	4,293,106.00	100%	N/A	\$1,766,397	\$1,407,475	35	2	Complete
184	18-SM027	2018	10/16/18	CalBioGas Hanford LLC	Hanford	Kings	Alternative Source	Dairy Biogas Production	\$20,422,826	\$1,707,348	\$1,711,506	20,422,826.00	100%	\$208,263	\$3,690,904	\$2,191,818	67	6	Complete
185	18-SM030	2018	11/13/18	Clerprem USA Corp.	Sacramento	Sacramento	Advanced Manufacturing	Passenger Seating System Manufacturing	\$876,493	\$73,275	\$73,253	876,230.46	100%	N/A	\$231,095	\$157,820	10	1	Complete
186	18-SM025	2018	10/16/18	EDCO Disposal Corporation	Lemon Grove	San Diego	Recycled Resource Extraction	Mixed Recycling	\$3,750,505	\$313,542	\$313,542	3,750,500.00	100%	\$18,776	\$700,109	\$405,343	24	1	Complete
187	18-SM019	2018	8/21/18	Eurostampa California, LLC	Napa	Napa	Advanced Manufacturing	Advanced Packaging Label Production	\$2,852,000	\$238,427	\$238,578	2,852,000.00	100%	N/A	\$433,975	\$195,548	58	3	Complete
188	18-SM014	2018	12/18/18	FirstElement Fuel Inc.	Oakland	Alameda	Advanced Manufacturing	Fuel Grade Hydrogen Production	\$2,050,000	\$171,380	\$171,380	2,050,000.00	100%	N/A	\$429,910	\$258,530	23	2	Complete
189	18-SM013	2018	5/15/18	GreenWaste Recovery, Inc.	San Jose	Santa Clara	Recycled Resource Extraction	Mixed Recycling and Organics	\$11,999,548	\$1,003,162	\$786,499	9,407,883.08	78%	\$46,114	\$2,430,654	\$1,473,605	86	5	Complete
190	18-SM001	2018	1/16/18	Mid-Valley Recycling, LLC	Kerman	Fresno	Recycled Resource Extraction	Mixed Organics	\$1,970,000	\$164,692	\$165,721	1,970,000.00	100%	\$16,507	\$144,811	-\$3,374	12	2	Complete
191	18-SM029	2018	11/13/18	MSB Investors, LLC	Santa Barbara	Santa Barbara	Recycled Resource Extraction	Mixed Recycling	\$44,661,209	\$3,733,677	\$1,422,296	16,996,604.00	38%	\$115,040	\$3,630,121	\$11,484	74	10	Complete
192	18-SM031	2018	11/13/18	Niagara Bottling, LLC	Rialto	San Bernardino	Advanced Manufacturing	Water Bottling	\$70,220,748	\$5,870,455	\$5,214,888	62,379,041.22	89%	N/A	\$6,595,424	\$724,970	189	14	Complete

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193	18-SM011	2018	5/15/18	Peninsula Plastics Recycling, Inc.	Turlock	Stanislaus	Recycled Resource Extraction	Plastic and Mixed Recycling	\$3,800,000	\$317,680	\$317,562	3,798,583.65	100%	\$7,488	\$1,692,646	\$1,382,454	16	2	Complete
194	18-SM007	2018	3/20/18	Sierra Institute for Community and Environment	Quincy	Plumas	Alternative Source	Biomass Processing and Fuel Production	\$516,286	\$43,162	\$41,122	491,888.37	95%	\$4,940	\$31,347	-\$6,874	8	2	Complete
195	18-SM015	2018	6/19/18	Space Exploration Technologies Corp.	Hawthorne; Los Angeles; Irvine	Los Angeles; Los Angeles; Orange	Advanced Manufacturing	Aerospace Manufacturing	\$142,708,000	\$11,930,389	\$11,857,947	141,605,297.83	99%	N/A	\$15,139,753	\$3,209,365	7,023	118	Complete
196	18-SM034	2018	11/13/18	Star Manu LLC	Ontario	San Bernardino	Advanced Manufacturing	Health and Beauty Products	\$2,821,986	\$235,918	\$207,180	2,478,226.64	88%	N/A	\$534,834	\$298,916	65	3	Complete
197	18-SM009	2018	5/15/18	Tahoe Asphalt, Inc.	South Lake Tahoe	El Dorado	Recycled Resource Extraction	Asphalt Recycling	\$511,000	\$42,720	\$42,720	511,000.00	100%	\$3,484	\$85,695	\$46,549	2	1	Complete
198	18-SM004	2018	3/20/18	Tesla, Inc.	Fremont	Alameda	Advanced Transportation	Electric Vehicle Manufacturing	\$239,234,449	\$20,000,000	\$20,000,000	239,234,448.40	100%	\$2,581,524	\$19,018,169	\$1,599,693	842	36	Complete
199	18-SM021	2018	8/21/18	The Almond Company	Madera; Chowchilla	Madera	Advanced Manufacturing	Advanced Food Production	\$3,750,000	\$313,500	\$266,793	3,182,742.02	85%	N/A	\$1,448,619	\$1,135,119	25	2	Complete
200	18-SM032	2018	11/13/18	Vivotein, LLC	Ontario	San Bernardino	Advanced Manufacturing	Animal Feed and Organic Fertilizer	\$7,895,770	\$660,086	\$129,822	1,552,018.55	20%	N/A	\$564,872	-\$95,214	36	5	Complete
201	18-SM016	2018	6/19/18	Zanker Road Resource Management, Ltd.	San Jose	Santa Clara	Recycled Resource Extraction	Mixed Recycling	\$11,132,857	\$930,707	\$919,887	11,003,428.57	99%	\$154,295	\$1,438,809	\$662,398	57	5	Complete
202	19-SM033	2019	7/16/19	Allogene Therapeutics, Inc.	Newark	Alameda	Advanced Manufacturing	Biopharmaceutical Manufacturing	\$36,351,130	\$3,038,954	\$2,197,320	26,170,107.47	72%	N/A	\$6,892,248	\$3,853,294	206	12	Complete
203	19-SM005	2019	2/19/19	CR&R Incorporated	Perris; Lakeview	Riverside	Recycled Resource Extraction	Mixed Paper and Mixed Organics	\$5,130,235	\$428,888	\$239,927	2,869,936.85	56%	\$99,915	\$334,778	\$5,805	54	2	Complete
204	19-SM031	2019	6/18/19	Entekra, LLC	Modesto	Stanislaus	Advanced Manufacturing	Pre-Engineered Structural Shell Production	\$20,750,000	\$1,734,700	\$1,067,541	12,764,279.41	62%	N/A	\$13,737,134	\$12,002,434	268	17	Complete
205	19-SM007	2019	3/19/19	Graham Packaging PET Technologies, Inc.	Modesto	Stanislaus	Advanced Manufacturing	Plastic Bottle Manufacturing	\$10,347,274	\$865,032	\$864,923	10,345,966.55	100%	N/A	\$3,727,188	\$2,862,156	17	1	Complete
206	19-SM034	2019	7/16/19	Lakeside Pipeline LLC	Hanford	Kings	Alternative Source	Dairy Biogas Production	\$16,508,315	\$1,380,095	\$1,037,798	12,362,918.21	75%	\$451,076	\$7,864,837	\$6,935,818	31	2	Complete
207	19-SM009	2019	4/16/19	Northrop Grumman Systems Corporation	Palmdale	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$211,964,787	\$17,720,256	\$17,734,411	211,964,787.00	100%	N/A	\$26,906,447	\$9,186,191	4,886	232	Complete
208	19-SM011	2019	5/21/19	Quantitative BioSciences, Inc	Modesto	Stanislaus	Alternative Source	Biogas Capture and Production	\$875,511	\$73,193	\$72,566	868,017.37	99%	\$17,580	\$93,692	\$38,079	2	0	Complete
209	19-SM012	2019	5/21/19	SANCO Services, L.P.	Escondido	San Diego	Alternative Source	Biogas Capture and Production	\$15,216,783	\$1,272,131	\$1,259,668	15,037,783.00	99%	\$192,942	\$2,749,888	\$1,670,707	127	12	Complete
210	19-SM004	2019	2/19/19	Sanitation Districts of Los Angeles County	Whittier	Los Angeles	Recycled Resource Extraction	Mixed Recycling	\$15,212,203	\$1,271,749	\$1,008,382	12,040,668.02	79%	\$39,199	\$2,747,895	\$1,515,345	65	4	Complete
211	19-SM008	2019	4/16/19	Tesla, Inc.	Fremont	Alameda	Advanced Transportation	Electric Vehicle Manufacturing	\$81,906,653	\$6,847,396	\$6,847,388	81,906,553.64	100%	\$924,621	\$6,382,653	\$460,584	288	10	Complete
212	19-SM028	2019	6/18/19	Touchstone Pistachio Company, LLC	Cantua Creek	Fresno	Advanced Manufacturing	Pistachio Processing and Production	\$79,196,100	\$6,620,794	\$6,642,097	79,159,969.81	100%	N/A	\$15,571,185	\$8,950,391	192	14	Complete
213	19-SM003	2019	2/19/19	Watonga RNG 1, LLC	San Diego	San Diego	Alternative Source	Biogas Capture and Production	\$5,500,000	\$459,800	\$449,918	5,377,931.50	98%	\$80,989	\$1,000,104	\$621,293	0	0	Complete

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214	20-SM017	2020	3/17/20	ACC Renewable Resources, LLC	Williams	Colusa	Alternative Source	Biomass Processing and Fuel Production	\$12,680,000	\$1,060,048	\$1,075,613	12,680,000.00	100%	\$897,448	\$2,045,500	\$1,882,900	15	2	Complete
215	20-SM007	2020	1/21/20	Aemetis Biogas LLC	Ceres	Stanislaus	Alternative Source	Dairy Biogas Production	\$8,772,605	\$733,390	\$736,748	8,772,594.14	100%	\$86,121	\$2,157,797	\$1,510,529	29	2	Complete
216	20-SM001	2020	1/21/20	Best Express Foods, Inc.	Stockton	San Joaquin	Advanced Manufacturing	Advanced Food Production	\$5,568,292	\$465,509	\$470,749	5,568,233.00	100%	N/A	\$2,711,411	\$2,245,902	61	4	Complete
217	20-SM026	2020	3/17/20	Hadco Metal Trading Co., LLC	Bakersfield	Kern	Advanced Manufacturing	Metal Products Manufacturing	\$9,400,000	\$785,840	\$786,354	9,387,468.55	100%	N/A	\$868,564	\$82,724	64	5	Complete
218	20-SM014	2020	3/17/20	Lam Research Corporation	Fremont; Livermore	Alameda	Advanced Manufacturing	Semiconductor Fabrication Equipment Manufacturing	\$119,617,224	\$10,000,000	\$10,071,138	119,617,223.04	100%	N/A	\$23,229,619	\$13,229,619	2,685	68	Complete
219	20-SM025	2020	3/17/20	Tesla, Inc.	Fremont	Alameda	Advanced Transportation	Electric Vehicle Manufacturing	\$119,617,224	\$10,000,000	\$10,050,755	119,607,839.37	100%	\$5,346,992	\$49,321,388	\$44,668,380	3,224	57	Complete
220	21-SM017	2021	3/16/21	Circulus Holdings, PBLCC	Modesto	Stanislaus	Advanced Manufacturing	Plastics Recycling	\$17,747,169	\$1,508,509	\$1,490,434	17,534,518.00	99%	N/A	\$3,522,497	\$2,013,988	53	5	Complete
221	21-SM002	2021	3/16/21	EDCO Disposal Corporation	Lemon Grove	San Diego	Recycled Resource Extraction	Mixed Recycling	\$14,659,474	\$1,246,055	\$1,193,331	14,274,295.91	97%	\$303,927	\$2,113,570	\$1,171,442	104	9	Complete
222	21-SM001	2021	3/16/21	Garaventa Enterprises, Inc.	Pittsburg	Contra Costa	Recycled Resource Extraction	Mixed Recycling	\$11,600,000	\$986,000	\$974,443	11,464,040.00	99%	\$311,144	\$2,304,863	\$1,630,007	120	10	Complete
223	21-SM012	2021	3/16/21	Lam Research Corporation	Fremont; Livermore	Alameda	Advanced Manufacturing	Semiconductor Fabrication Equipment Manufacturing	\$22,900,000	\$1,946,500	\$1,946,500	22,899,999.59	100%	N/A	\$6,790,103	\$4,843,603	2,909	24	Complete
224	21-SM018	2021	3/16/21	MP Materials Corp.	San Bernardino	San Bernardino	Advanced Manufacturing	Rare Earth Materials Production	\$23,527,500	\$1,999,838	\$1,999,838	23,527,500.00	100%	N/A	\$4,996,721	\$2,996,883	670	8	Complete
225	21-SM016	2021	3/16/21	Paradigm Packaging West, LLC	Rancho Cucamonga	San Bernardino	Advanced Manufacturing	Medical Device and Component Manufacturing	\$23,528,330	\$1,999,908	\$1,999,908	23,528,330.00	100%	N/A	\$2,623,298	\$623,690	357	21	Complete
226	21-SM010	2021	3/16/21	QuantumScape Corporation	San Jose	Santa Clara	Advanced Manufacturing	Electric Vehicle Battery Manufacturing	\$19,999,333	\$1,699,943	\$1,699,943	19,999,333.00	100%	N/A	\$2,040,086	\$340,143	474	39	Complete
227	21-SM024	2021	3/16/21	Tesoro Refining & Marketing Company, LLC	Martinez	Contra Costa	Alternative Source	Renewable Diesel and Propane Production	\$127,223,954	\$10,814,036	\$10,814,036	127,223,954.00	100%	\$22,217,044	\$54,645,815	\$66,048,823	745	16	Complete
228	15-SM024	2015/2016	12/15/15	Tesla, Inc.	Fremont; Hawthorne; Palo Alto; Menlo Park; Lathrop	Alameda; Los Angeles; Santa Clara; San Mateo; San Joaquin	Advanced Transportation	Electric Vehicle Manufacturing	\$463,625,000	\$39,037,225	\$39,037,008	463,622,419.75	100%	\$4,766,289	\$61,843,129	\$27,572,193	1,439	41	Complete
229	10-SM003	2010	11/17/10	ABEC Bidart Old River, LLC	Bakersfield	Kern	Alternative Source	Biogas Capture and Production	\$4,738,000	\$431,158	\$0	0.00	0%	\$3,080,806	\$438,844	\$3,088,491	50	6	Inactive
230	10-SM027	2010	12/15/10	Alta Devices, Inc.	Sunnyvale	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$40,845,000	\$3,716,895	\$1,108,616	13,653,537.60	33%	\$561,404	\$5,025,666	\$1,870,175	322	37	Inactive
231	10-SM021	2010	12/15/10	Ameresco Crazy Horse LLC	Salinas	Monterey	Alternative Source	Landfill Gas Capture and Production	\$1,558,460	\$141,820	\$0	0.00	0%	\$103,093	\$432,228	\$393,501	12	1	Inactive
232	10-SM001	2010	11/17/10	Bowerman Power LFG, LLC	Irvine	Orange	Alternative Source	Landfill Gas Capture and Production	\$9,240,000	\$840,840	\$0	0.00	0%	\$398,492	\$1,008,052	\$565,704	30	3	Inactive
233	10-SM014	2010	11/17/10	Calisolar Inc.	Sunnyvale	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$39,000,000	\$3,549,000	\$0	0.00	0%	\$1,971,609	\$1,975,797	\$398,407	273	13	Inactive

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234	10-SM005	2010	11/17/10	Gallo Cattle Company	Atwater	Merced	Alternative Source	Biogas Capture and Production	\$1,245,000	\$113,295	\$0	0.00	0%	\$791,959	\$130,374	\$809,038	30	3	Inactive
235	10-SM018	2010	12/15/10	Green Vehicles, Inc.	Salinas	Monterey	Advanced Transportation	Electric Vehicle Manufacturing	\$3,708,050	\$337,433	\$0	0.00	0%	\$65,608	\$3,018,494	\$2,746,669	126	14	Inactive
236	10-SM009	2010	11/17/10	Nanosolar Inc.	San Jose	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$140,187,900	\$12,757,099	\$4,306,412	53,035,063.31	38%	\$10,527,415	\$6,992,728	\$4,763,045	410	36	Inactive
237	10-SM016	2010	12/15/10	Quantum Fuel Systems Technologies Worldwide, Inc.	Irvine	Orange	Alternative Source	Solar Photovoltaic Manufacturing	\$8,945,858	\$814,073	\$0	0.00	0%	\$508,282	\$5,895,571	\$5,589,780	94	11	Inactive
238	10-SM010	2010	12/15/10	Simbol, Inc.	Calipatria; Niland; Brawley	Imperial	Advanced Transportation	Lithium and Battery Material Manufacturing	\$42,484,174	\$3,866,060	\$164,278	1,938,796.34	5%	\$558,363	\$9,552,414	\$6,244,717	212	23	Inactive
239	10-SM019	2010	12/15/10	Soliant Energy, Inc.	Monrovia	Los Angeles	Alternative Source	Solar Photovoltaic Manufacturing	\$9,966,500	\$906,952	\$0	0.00	0%	\$1,142,989	\$1,709,894	\$1,945,932	38	5	Inactive
240	10-SM006	2010	11/17/10	Solyndra LLC	Fremont	Alameda	Alternative Source	Solar Photovoltaic Manufacturing	\$381,776,000	\$34,741,616	\$25,127,322	277,309,757.00	73%	\$22,202,363	\$20,765,274	\$8,226,021	2,084	225	Inactive
241	10-SM011	2010	11/17/10	Stion Corporation	San Jose	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$105,473,402	\$9,598,080	\$0	0.00	0%	\$3,512,324	\$6,207,404	\$121,648	493	47	Inactive
242	11-SM015	2011	8/29/11	Amonix, Inc	Seal Beach; Milpitas	Orange; Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$7,879,667	\$638,253	\$0	0.00	0%	\$740,148	\$2,884,021	\$2,985,916	200	12	Inactive
243	11-SM007	2011	5/18/11	Amonix, Inc.	Seal Beach	Orange	Alternative Source	Solar Photovoltaic Manufacturing	\$2,278,900	\$207,380	\$0	0.00	0%	\$244,895	\$557,789	\$595,304	153	2	Inactive
244	11-SM012	2011	8/29/11	CE Obsidian Energy, LLC	Imperial	Imperial	Alternative Source	Geothermal Brine Extraction	\$174,453,978	\$14,130,772	\$0	0.00	0%	\$7,487,143	\$11,697,269	\$5,053,640	381	39	Inactive
245	11-SM002	2011	1/25/11	MiaSolé	Sunnyvale	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$26,092,000	\$2,374,372	\$881,599	10,883,941.14	42%	\$3,246,664	\$1,363,913	\$2,236,206	56	3	Inactive
246	11-SM005	2011	6/28/11	Recology East Bay	Oakland	Alameda	Alternative Source	Biomass Processing and Fuel Production	\$3,703,090	\$336,981	\$0	0.00	0%	\$111,243	\$506,852	\$281,113	46	5	Inactive
247	11-SM014	2011	8/29/11	SoloPower Inc.	San Jose	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$8,411,240	\$681,310	\$494,484	6,104,736.00	73%	\$419,024	\$575,484	\$313,197	40	1	Inactive
248	12-SM009	2012	10/16/12	ABEC New Hope LLC	Galt	Sacramento	Alternative Source	Biogas Capture and Production	\$2,633,359	\$213,302	\$84,096	1,004,734.92	38%	\$41,150	\$208,573	\$36,421	22	3	Inactive
249	12-SM011	2012	10/16/12	Clean World Partners LLC	Sacramento	Sacramento	Alternative Source	Biomass Processing and Fuel Production	\$11,796,759	\$955,537	\$0	0.00	0%	\$204,651	\$977,083	\$226,196	24	3	Inactive
250	12-SM010	2012	10/16/12	Electric Vehicles International, LLC	Stockton	San Joaquin	Advanced Transportation	Electric Vehicle Manufacturing	\$5,744,962	\$465,342	\$256,836	3,170,809.00	55%	\$83,283	\$906,571	\$524,512	114	8	Inactive
251	12-SM001	2012	2/21/12	Soraa, Inc.	Fremont	Alameda	Alternative Source	Energy Efficient LED Lighting Manufacturing	\$57,002,457	\$4,617,199	\$1,708,596	20,380,383.49	36%	\$30,775,968	\$2,368,664	\$28,527,434	180	14	Inactive
252	13-SM014	2013	12/17/13	Boxer Industries, Inc.	Redwood City	San Mateo	Advanced Manufacturing	Carbon Black Production	\$6,553,000	\$548,486	\$429,578	5,101,878.25	78%	N/A	\$539,522	-\$8,964	12	1	Inactive
253	13-SM004	2013	4/16/13	EJ Harrison and Sons Rentals, Inc.	Oxnard	Ventura	Alternative Source	Biogas Capture and Production	\$1,212,095	\$101,452	\$0	0.00	0%	\$19,311	\$108,487	\$26,345	6	1	Inactive
254	13-SM012	2013	12/17/13	Sugar Valley Energy, LLC	Brawley	Imperial	Advanced Manufacturing	Biomass Processing and Fuel Production	\$444,811,275	\$37,230,704	\$0	0.00	0%	N/A	\$51,344,220	\$14,113,516	650	84	Inactive

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255	13-SM005	2013	4/16/13	Vitriflex, Inc.	Milpitas	Santa Clara	Alternative Source	Solar Photovoltaic Component Manufacturing	\$16,330,000	\$1,366,821	\$372,404	4,422,852.69	27%	\$1,256,397	\$886,066	\$775,642	47	4	Inactive
256	14-SM010	2014	8/19/14	AltAir Paramount, LLC	Paramount	Los Angeles	Alternative Source	Renewable Diesel Production	\$16,325,984	\$1,374,648	\$1,056,186	12,543,773.24	77%	\$287,233	\$6,023,164	\$4,935,750	141	3	Inactive
257	14-SM002	2014	3/18/14	CleanWorld	San Bernardino	San Bernardino	Alternative Source	Biomass Processing and Fuel Production	\$6,698,715	\$564,032	\$0	0.00	0%	\$163,485	\$858,211	\$457,665	26	3	Inactive
258	14-SM013	2014	9/16/14	Lockheed Martin Corporation	Palmdale; Helendale	Los Angeles; San Bernardino	Advanced Manufacturing	Aerospace Manufacturing	\$345,296,354	\$29,073,953	\$0	0.00	0%	N/A	\$38,053,138	\$8,979,185	1,213	91	Inactive
259	14-SM014	2014	8/19/14	Mendota Bioenergy, LLC	Mendota	Fresno	Alternative Source	Biogas Capture and Production	\$2,200,000	\$185,240	\$10,045	119,300.00	5%	\$28,671	\$596,885	\$440,316	28	3	Inactive
260	14-SM009	2014	8/19/14	nanoPrecision Products, Inc.	El Segundo; Camarillo	Los Angeles; Ventura	Advanced Manufacturing	Optical Ferrule Manufacturing	\$7,963,972	\$670,566	\$425,181	5,049,657.37	63%	N/A	\$840,081	\$169,514	50	4	Inactive
261	14-SM006	2014	5/20/14	Recology Bioenergy	Vacaville	Solano	Alternative Source	Biogas Capture and Production	\$25,967,035	\$2,186,424	\$0	0.00	0%	\$271,168	\$2,747,503	\$832,247	57	8	Inactive
262	14-SM019	2014	10/21/14	Solexel, Inc.	Milpitas	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$20,500,000	\$1,726,100	\$1,726,100	20,500,000.00	100%	\$475,809	\$1,261,678	\$11,387	128	12	Inactive
263	15-SM005	2015	4/21/15	GKN Aerospace Chem-Tronics, Inc.	Santa Ana	Orange	Advanced Manufacturing	Aerospace Manufacturing	\$118,687,529	\$9,993,490	\$1,918,895	22,789,728.65	19%	N/A	\$8,483,497	-\$1,509,993	231	13	Inactive
264	14-SM024	2015	3/17/15	Haas Automation, Inc.	Oxnard	Ventura	Advanced Manufacturing	CNC Machine Manufacturing	\$81,426,200	\$6,856,086	\$0	0.00	0%	N/A	\$38,174,218	\$31,318,132	1,235	51	Inactive
265	14-SM021	2015	1/20/15	Pacific Ethanol Madera, LLC	Madera	Madera	Advanced Manufacturing	Corn Oil Production	\$4,763,500	\$401,087	\$271,375	3,222,977.51	68%	N/A	\$988,793	\$587,707	3	0	Inactive
266	15-SM004	2015	6/16/15	T2Energy, LLC	Vista	San Diego	Advanced Manufacturing	Omega Oil Production	\$4,737,500	\$398,898	\$0	0.00	0%	N/A	\$1,881,353	\$1,482,455	48	3	Inactive
267	16-SM001	2016	1/19/16	Atieva USA Inc	Menlo Park; Tracy; Sacramento	San Mateo; San Joaquin; Sacramento	Advanced Transportation	Electric Vehicle Manufacturing	\$530,750,000	\$44,689,150	\$0	0.00	0%	\$5,593,675	\$137,469,584	\$98,374,109	1,547	98	Inactive
268	16-SM015	2016	10/18/16	CRM Co., LLC.	Stockton	San Joaquin	Recycled Resource Extraction	Crumb Tire Rubber	\$3,400,000	\$286,280	\$0	0.00	0%	\$5,872	\$1,015,541	\$735,133	32	2	Inactive
269	16-SM022	2016	10/18/16	EDCO Disposal Corporation	San Diego	San Diego	Recycled Resource Extraction	Mixed Recycling	\$10,000,000	\$842,000	\$0	0.00	0%	\$47,049	\$961,493	\$166,542	45	5	Inactive
270	16-SM023	2016	10/18/16	EDCO Transport Services	Signal Hill	Los Angeles	Recycled Resource Extraction	Mixed Recycling	\$10,500,000	\$884,100	\$0	0.00	0%	\$48,397	\$1,094,340	\$258,637	37	5	Inactive
271	16-SM019	2016	10/18/16	MSB Investors, LLC	Santa Barbara	Santa Barbara	Recycled Resource Extraction	Mixed Recycling	\$32,403,272	\$2,728,356	\$0	0.00	0%	\$80,208	\$2,985,127	\$336,980	75	11	Inactive
272	16-SM026	2016	12/13/16	XT Green, Inc.	Corona	Riverside	Advanced Manufacturing	Advanced Carpet Recycling	\$8,970,500	\$755,316	\$186,238	2,216,005.00	25%	N/A	\$2,260,835	\$1,505,519	84	15	Inactive
273	17-SM008	2017	9/19/17	Aemerge RedPak Services Southern California, LLC	Hesperia	San Bernardino	Advanced Manufacturing	Medical Waste Recycling	\$37,000,676	\$3,115,457	\$576,520	6,863,147.63	19%	N/A	\$3,399,447	\$283,990	55	9	Inactive
274	17-SM020	2017	4/18/17	CALAMCO NH3 LLC	Taft	Kern	Advanced Manufacturing	Fertilizer Production	\$107,607,827	\$9,060,579	\$0	0.00	0%	N/A	\$16,925,300	\$7,864,721	84	11	Inactive
275	17-SM016	2017	3/21/17	Colony Energy Partners-Tulare, LLC	Tulare	Tulare	Alternative Source	Biomass Processing and Fuel Production	\$20,800,000	\$1,751,360	\$0	0.00	0%	\$581,721	\$2,675,765	\$1,506,126	49	7	Inactive

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276	17-SM017	2017	3/21/17	FoodService Partners, LLC	Richmond	Contra Costa	Advanced Manufacturing	Advanced Food Production	\$8,500,000	\$715,700	\$0	0.00	0%	N/A	\$6,165,933	\$5,450,233	240	15	Inactive
277	17-SM001	2017	1/17/17	North Fork Community Power	North Fork	Madera	Alternative Source	Biomass Processing and Fuel Production	\$6,819,733	\$574,222	\$378,198	5,296,597.00	78%	\$276,774	\$940,730	\$643,283	24	3	Inactive
278	17-SM046	2017	7/18/17	Pacific Ethanol Stockton, LLC	Stockton	San Joaquin	Alternative Source	Biogas Capture and Production	\$5,932,500	\$499,517	\$0	0.00	0%	\$273,362	\$693,533	\$467,378	31	5	Inactive
279	17-SM051	2017	6/20/17	Schlusser Forge Company	Rancho Cucamonga	San Bernardino	Advanced Manufacturing	Aero Engine Ring Forging	\$53,568,357	\$4,510,456	\$0	0.00	0%	N/A	\$4,530,814	\$20,359	263	17	Inactive
280	17-SM044	2017	6/20/17	Sunergy California LLC	McClellan	Sacramento	Alternative Source	Solar Photovoltaic Manufacturing	\$7,823,286	\$658,721	\$378,700	4,526,931.17	58%	\$2,877,987	\$3,761,032	\$5,980,298	195	12	Inactive
281	17-SM012	2017	1/17/17	TAP Power LLC	Arcata	Humboldt	Alternative Source	Biomass Processing and Fuel Production	\$9,213,514	\$775,778	\$0	0.00	0%	\$340,641	\$1,120,388	\$685,251	33	4	Inactive
282	17-SM048	2017	6/20/17	Tracy Renewable Energy, LLC	Tracy	San Joaquin	Alternative Source	Ethanol Production	\$52,246,456	\$4,399,152	\$0	0.00	0%	\$1,620,925	\$15,913,811	\$13,135,585	97	10	Inactive
283	17-SM010	2017	8/15/17	Verdeco Recycling, Inc.	South Gate	Los Angeles	Advanced Manufacturing	Recycled Food Packaging Manufacturing	\$4,940,350	\$415,977	\$0	0.00	0%	N/A	\$1,699,834	\$1,283,856	8	1	Inactive
284	17-SM064	2017	12/19/17	WIE-AGRON Bioenergy, LLC	Watsonville	Santa Cruz	Alternative Source	Biodiesel Production	\$3,500,000	\$294,700	\$171,130	2,047,055.61	58%	\$116,974	\$909,611	\$731,885	18	1	Inactive
285	18-SM037	2018	12/18/18	Aemetis Advanced Products Keyes, Inc.	Riverbank	Stanislaus	Alternative Source	Biomass Processing and Fuel Production	\$153,076,838	\$12,797,224	\$207,328	2,480,000.00	2%	\$1,371,022	\$17,565,901	\$6,139,699	622	72	Inactive
286	18-SM012	2018	6/19/18	Chanje Energy, Inc.	Hawthorne	Los Angeles	Advanced Transportation	Electric Vehicle Manufacturing	\$22,329,400	\$1,866,738	\$0	0.00	0%	\$15,578,624	\$71,861,266	\$85,573,152	260	15	Inactive
287	18-SM038	2018	12/18/18	Drink, Inc.	Richmond	Contra Costa	Advanced Manufacturing	Beverage Bottling Manufacturing	\$3,636,029	\$303,972	\$90,126	1,078,061.00	30%	N/A	\$1,897,358	\$1,593,386	62	4	Inactive
288	18-SM010	2018	5/15/18	GB CNC Services, LLC	Fountain Valley	Orange	Advanced Manufacturing	Turned Part Manufacturing	\$7,680,000	\$642,048	\$23,441	280,396.80	4%	N/A	\$1,164,200	\$522,152	37	2	Inactive
289	18-SM023	2018	9/18/18	Katerra Construction LLC	Tracy	San Joaquin	Advanced Manufacturing	Multifamily Unit Building Component Manufacturing	\$71,608,261	\$5,986,451	\$4,231,674	50,611,919.78	71%	N/A	\$15,745,595	\$9,759,144	680	50	Inactive
290	18-SM033	2018	11/13/18	Nate's Fine Foods LLC	Roseville	Placer	Advanced Manufacturing	Advanced Food Production	\$5,886,000	\$492,070	\$37,794	452,075.52	8%	N/A	\$1,312,727	\$820,658	79	5	Inactive
291	18-SM006	2018	4/17/18	Siva Power, Inc.	Santa Clara	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$6,746,508	\$564,008	\$564,005	6,746,466.08	100%	\$339,550	\$729,070	\$504,612	62	6	Inactive
292	18-SM005	2018	3/20/18	Thermal Technology, LLC	Santa Rosa	Sonoma	Advanced Manufacturing	Additive Manufacturing	\$8,726,448	\$729,531	\$0	0.00	0%	N/A	\$799,519	\$69,988	21	2	Inactive
293	18-SM035	2018	12/18/18	UTCRA, LLC	Bakersfield	Kern	Advanced Manufacturing	Rail Transportation Manufacturing	\$3,174,400	\$265,380	\$109,115	1,305,202.10	41%	N/A	\$599,624	\$334,244	41	3	Inactive
294	18-SM020	2018	8/21/18	WIE-AGRON Bioenergy, LLC	Watsonville	Santa Cruz	Alternative Source	Biodiesel Production	\$7,685,000	\$642,466	\$0	0.00	0%	\$73,544	\$1,216,403	\$647,480	45	7	Inactive
295	19-SM026	2019	5/21/19	Taft Ammonia Company, LLC	Taft	Kern	Advanced Manufacturing	Fertilizer Production	\$239,234,449	\$20,000,000	\$0	0.00	0%	N/A	\$41,686,059	\$21,686,059	120	17	Inactive
296	19-SM002	2019	6/18/19	Verdeco Recycling, Inc.	South Gate	Los Angeles	Advanced Manufacturing	Recycled Food Packaging Manufacturing	\$13,118,950	\$1,096,744	\$395,927	4,735,973.00	36%	N/A	\$4,906,568	\$3,809,824	22	3	Inactive
297	20-SM004	2020	1/21/20	AltAir Paramount, LLC	Paramount	Los Angeles	Alternative Source	Renewable Diesel Production	\$119,617,224	\$10,000,000	\$0	0.00	0%	\$5,644,576	\$69,745,006	\$65,389,582	532	28	Inactive

Appendix A: Sales and Use Tax Exclusion Applications Considered to Date

	App. No.	Year Approved	Date Approved	Applicant Name	City	County	Project Type	Use of Proceeds	Qualified Property Amount Approved	Estimated STE ¹	Estimated STE Used to Date ¹	Qualified Property Amount Reported	% Reported	Estimated Environmental Benefit	Estimated Fiscal Benefit ²	Estimated Net Benefit ²	Est. Total Jobs ²	Est. Jobs from STE ²	Project Status
298	20-SM021	2020	3/17/20	Southpoint Biogas LLC	Madera	Madera	Alternative Source	Dairy Biogas Production	\$8,432,257	\$704,937	\$0	0.00	0%	\$87,376	\$1,196,391	\$578,830	70	7	Inactive
299	21-SM006	2021	3/16/21	ENV-FOUR, LLC	Hanford	Kings	Alternative Source	Dairy Biogas Production	\$8,216,553	\$698,407	\$2,703	31,795.33	0%	\$163,244	\$849,582	\$314,419	47	5	Inactive
300	21-SM007	2021	3/16/21	ENV-THREE, LLC	Corcoran	Kings	Alternative Source	Dairy Biogas Production	\$8,784,628	\$746,693	\$12,750	150,000.00	2%	\$169,593	\$887,199	\$310,098	47	6	Inactive
301	21-SM005	2021	3/16/21	ENV-TWO, LLC	Hanford	Kings	Alternative Source	Dairy Biogas Production	\$7,983,153	\$678,568	\$12,178	143,272.39	2%	\$143,388	\$761,158	\$225,978	47	5	Inactive
302	21-SM015	2021	3/16/21	Fortress North America, LLC	Rocklin	Placer	Advanced Manufacturing	Fire Retardant Manufacturing	\$5,094,248	\$433,011	\$0	0.00	0%	N/A	\$3,203,763	\$2,770,752	35	2	Inactive
303	21-SM014	2021	3/16/21	Green Impact Manufacturing, LLC	Vernon	Los Angeles	Advanced Manufacturing	Plastic Recycling and Thermoform Product Manufacturing	\$16,008,067	\$1,360,686	\$0	0.00	0%	N/A	\$5,246,166	\$3,885,481	32	2	Inactive
	303							Totals:	\$13,526,765,065	\$1,142,654,509	\$665,044,058	7,873,102,545.86	58%	\$360,681,665	\$2,349,710,064	\$1,567,738,325	117,424	6,213	

¹ Under the Program the value of a specific project's sales and use tax exclusion is calculated using the statewide sales and use tax average. The statewide average was estimated at 9.1% through June 2011 and changed to 8.1% in July 2011, 8.37% in January 2013, 8.42% in March 2014, 8.36% in January 2018, and 8.5% in October 2020.

² These benefits are estimates that are calculated under the Program's evaluation system at the time of Board approval. Applicants are required to provide annual reports to CAEATFA on actual project activity.

Appendix A: Sales and Use Tax Exclusion Applications Considered to Date

Applications Previously Considered and Denied

Application No.	Date of Board Consideration	Applicant Name	City	County	Project Type	Use of Proceeds	QP Amount	STE Amount (Anticipated) ¹	Estimated Fiscal Benefit ²	Estimated Net Benefit ²	Expected Total Jobs ²	Expected Total Jobs from STE ²	
1	16-SM020	11/15/2016	Zanker Road Resource Management	San Jose	Santa Clara	Recycled Resource Extraction	Mixed Recycling	\$1,512,796	\$127,377	\$227,254	\$100,565	14	2
2	19-SM013	6/18/2019	FirstElement Fuel Inc.	Beverly Hills	Los Angeles	Advanced Manufacturing	Fuel Grade Hydrogen	\$2,503,766	\$209,315	\$455,672	\$246,357	23	2
3	19-SM014	6/18/2019	FirstElement Fuel Inc.	Campbell	Santa Clara	Advanced Manufacturing	Fuel Grade Hydrogen	\$2,202,766	\$184,151	\$438,733	\$254,582	23	2
4	19-SM015	6/18/2019	FirstElement Fuel Inc.	Concord	Contra Costa	Advanced Manufacturing	Fuel Grade Hydrogen	\$2,594,766	\$216,922	\$460,711	\$243,789	23	2
5	19-SM016	6/18/2019	FirstElement Fuel Inc.	Culver City	Los Angeles	Advanced Manufacturing	Fuel Grade Hydrogen	\$2,594,766	\$216,922	\$460,977	\$244,054	23	2
6	19-SM017	6/18/2019	FirstElement Fuel Inc.	Fountain Valley	Orange	Advanced Manufacturing	Fuel Grade Hydrogen	\$2,594,766	\$216,922	\$459,241	\$242,319	23	2
7	19-SM018	6/18/2019	FirstElement Fuel Inc.	Mission Hills	Los Angeles	Advanced Manufacturing	Fuel Grade Hydrogen	\$2,503,766	\$209,315	\$455,672	\$246,357	23	2
8	19-SM019	6/18/2019	FirstElement Fuel Inc.	Redwood City	San Mateo	Advanced Manufacturing	Fuel Grade Hydrogen	\$2,503,766	\$209,315	\$454,860	\$245,545	23	2
9	19-SM020	6/18/2019	FirstElement Fuel Inc.	San Diego	San Diego	Advanced Manufacturing	Fuel Grade Hydrogen	\$2,594,766	\$216,922	\$460,516	\$243,594	23	2
10	19-SM021	6/18/2019	FirstElement Fuel Inc.	Sherman Oaks	Los Angeles	Advanced Manufacturing	Fuel Grade Hydrogen	\$1,966,766	\$164,422	\$424,502	\$260,081	23	2
11	19-SM022	6/18/2019	FirstElement Fuel Inc.	Studio City	Los Angeles	Advanced Manufacturing	Fuel Grade Hydrogen	\$2,267,766	\$189,585	\$441,945	\$252,360	23	2
12	19-SM023	6/18/2019	FirstElement Fuel Inc.	Sunnyvale	Santa Clara	Advanced Manufacturing	Fuel Grade Hydrogen	\$2,202,766	\$184,151	\$438,733	\$254,582	23	2

¹ Under the Program the value of a specific project's sales and use tax exclusion is calculated using the statewide sales and use tax average. The statewide average was estimated at 9.1% through June 2011 and changed to 8.1% in July 2011, 8.37% in January 2013, 8.42% in March 2014, 8.36% in January 2018, and 8.5% in October 2020.

² These benefits are estimates that are calculated under the Program's evaluation system at the time of Board approval. Applicants are required to provide annual reports to CAEATFA on actual project activity.

**APPENDIX B:
STE APPLICATIONS RECEIVED FOR
CONSIDERATION IN 2022**



Appendix B: Sales and Use Tax Exclusion Applications Received for Consideration in 2022

	Applicant Name	Project Location	Eligibility Pathway	Qualified Property Amount	Estimated STE Amount	Status
1	BHE Renewables, LLC and its subsidiaries Magma Power Company, BHER Minerals, LLC, and CE Generation, LLC	Calipatria (Imperial)	Advanced Transportation	\$21,434,530	\$1,821,935	Approved June 2022
2	Mitra Future Technologies, Inc.	Mountain View (Santa Clara)	Advanced Transportation	\$5,484,877	\$466,215	Approved June 2022
3	Heraeus Precious Metals North America LLC	Santa Fe Springs (Los Angeles)	Advanced Manufacturing	\$15,900,000	\$1,351,500	Approved June 2022
4	Swift Solar, Inc.	San Carlos (San Mateo)	Advanced Manufacturing	\$8,490,000	\$721,650	Approved June 2022
5	Blue Mountain Electric Company	Wilseyville (Calaveras)	Alternative Source	\$17,030,696	\$1,447,609	Approved June 2022
6	California Safe Soil, LLC	McClellan (Sacramento)	Recycling	\$23,089,719	\$1,962,626	Approved June 2022
7	Aemetis Advanced Fuels Keyes, Inc.	Ceres (Stanislaus)	Alternative Source	\$22,703,169	\$1,929,769	Approved June 2022
8	Touchstone Pistachio Company, LLC	Terra Bella (Tulare)	Advanced Manufacturing	\$23,400,000	\$1,989,000	Approved June 2022
9	Quidel Corporation	Carlsbad (San Diego)	Advanced Manufacturing	\$23,150,000	\$1,967,750	Approved June 2022
10	Lam Research Corporation	Fremont (Alameda)	Advanced Manufacturing	\$23,500,000	\$1,997,500	Approved June 2022
11	Califia Farms, LLC	Bakersfield (Kern)	Advanced Manufacturing	\$23,500,000	\$1,997,500	Approved June 2022
12	Terray Therapeutics, Inc.	Monrovia (Los Angeles)	Advanced Manufacturing	\$16,971,115	\$1,442,545	Approved June 2022

Appendix B: Sales and Use Tax Exclusion Applications Received for Consideration in 2022

	Applicant Name	Project Location	Eligibility Pathway	Qualified Property Amount	Estimated STE Amount	Status
13	Best Express Foods, Inc.	Stockton (San Joaquin)	Advanced Manufacturing	\$6,795,730	\$577,637	Approved June 2022
14	Paradigm Packaging West, LLC	Rancho Cucamonga (San Bernardino)	Advanced Manufacturing	\$8,354,110	\$710,099	Approved June 2022
15	BHE Renewables, LLC and its subsidiaries Magma Power Company and CE Generation, LLC	Calipatria (Imperial)	Alternative Source	\$188,422,290	\$16,015,895	Approved June 2022
16	Ampaire Inc.	Hawthorne (Los Angeles)	Advanced Transportation	\$29,889,143	\$2,540,577	Approved June 2022
17	Trojan Battery Company, LLC	Santa Fe Springs (Los Angeles)	Advanced Manufacturing	\$36,566,109	\$3,108,119	Approved June 2022
18	Archer Aviation, Inc.	Palo Alto (Santa Clara)	Advanced Manufacturing	\$44,360,877	\$3,770,675	Approved June 2022
19	National Carbon Technologies California, LLC	Williams (Colusa)	Alternative Source	\$123,720,000	\$10,516,200	Approved June 2022
20	Phillips 66 Company	Rodeo (Contra Costa)	Alternative Source	\$235,294,118	\$20,000,000	Approved June 2022
21	CASS, Inc.	Oakland (Alameda)	Recycling	\$35,000,000	\$2,975,000	Approved June 2022
22	QuantumScape Corporation	San Jose (Santa Clara)	Advanced Manufacturing	\$114,844,599	\$9,761,791	Approved June 2022
23	Sugar Valley Energy, LLC	Brawley (Imperial)	Advanced Manufacturing	\$235,294,118	\$20,000,000	Approved June 2022
24	West Coast Waste Co., Inc.	Fresno (Fresno)	Alternative Source	\$83,990,000	\$7,139,150	Approved August 2022

Appendix B: Sales and Use Tax Exclusion Applications Received for Consideration in 2022

	Applicant Name	Project Location	Eligibility Pathway	Qualified Property Amount	Estimated STE Amount	Status
25	EnergySource Minerals LLC	Calipatria (Imperial)	Advanced Manufacturing	\$187,000,000	\$15,895,000	Approved December 2022
26	Bloom Energy Corp.	Fremont (Alameda)	Advanced Manufacturing	\$53,831,894	\$4,575,711	Was waitlisted, no funding became available during year. Waitlist expired at end of year
27	Relativity Space, Inc.	Long Beach (Los Angeles)	Advanced Manufacturing	\$171,213,378	\$14,553,137	Was waitlisted, no funding became available during year. Waitlist expired at end of year
28	Tesoro Refining & Marketing Company, LLC	Martinez (Contra Costa)	Alternative Source	\$131,680,092	\$11,192,808	Was waitlisted, no funding became available during year. Waitlist expired at end of year
29	PreZero US Services, LLC	Glen Avon (Riverside)	Recycling	\$50,196,200	\$4,266,677	Was waitlisted, no funding became available during year. Waitlist expired at end of year
30	Element Resources Inc.	National City (San Diego)	Alternative Source	\$64,140,400	\$5,451,934	Was waitlisted, no funding became available during year. Waitlist expired at end of year
31	Space Exploration Technologies Corp.	Hawthorne (Los Angeles)	Advanced Manufacturing	\$235,294,116	\$20,000,000	Was waitlisted, no funding became available during year. Waitlist expired at end of year

Appendix B: Sales and Use Tax Exclusion Applications Received for Consideration in 2022

	Applicant Name	Project Location	Eligibility Pathway	Qualified Property Amount	Estimated STE Amount	Status
32	Cepheid	Lodi (San Joaquin)	Advanced Manufacturing	\$72,800,000	\$6,188,000	Was waitlisted, no funding became available during year. Waitlist expired at end of year
33	Genentech, Inc	Oceanside (San Diego)	Advanced Manufacturing	\$125,441,001	\$10,662,485	Was waitlisted, no funding became available during year. Waitlist expired at end of year
34	Intuitive Surgical, Inc. and its Subsidiary, Intuitive Surgical Operations, Inc.	Sunnyvale (Santa Clara)	Advanced Manufacturing	\$23,400,000	\$1,989,000	Was waitlisted, no funding became available during year. Waitlist expired at end of year
35	Siemens Mobility Inc.	Sacramento (Sacramento)	Advanced Manufacturing	\$25,147,815	\$2,137,564	Was waitlisted, no funding became available during year. Waitlist expired at end of year
36	Halo Industries	Santa Clara (Santa Clara)	Advanced Manufacturing	\$17,000,000	\$1,445,000	Was waitlisted, no funding became available during year. Waitlist expired at end of year
37	Senti Biosciences, Inc.	Alameda (Alameda)	Advanced Manufacturing	\$23,121,795	\$1,965,353	Was waitlisted, no funding became available during year. Waitlist expired at end of year

Appendix B: Sales and Use Tax Exclusion Applications Received for Consideration in 2022

	Applicant Name	Project Location	Eligibility Pathway	Qualified Property Amount	Estimated STE Amount	Status
38	Impossible Foods Inc.	Redwood City (San Mateo)	Advanced Manufacturing	\$51,502,506	\$4,377,713	Was waitlisted, no funding became available during year. Waitlist expired at end of year
39	Hadco Metal Trading Co., LLC	Bakersfield (Kern)	Advanced Manufacturing	\$2,100,000	\$178,500	Was waitlisted, no funding became available during year. Waitlist expired at end of year
40	Instil Bio, Inc., and its wholly owned subsidiary, Complex Therapeutics, LLC	Tarzana (Los Angeles)	Advanced Manufacturing	\$75,180,219	\$6,390,319	Was waitlisted, no funding became available during year. Waitlist expired at end of year
41	Rocket Lab USA, Inc.	Long Beach (Los Angeles)	Alternative Source	\$23,972,000	\$2,037,620	Was waitlisted, no funding became available during year. Waitlist expired at end of year
42	Applied Materials, Inc.	Santa Clara (Santa Clara)	Advanced Manufacturing	\$235,294,118	\$20,000,000	Was waitlisted, no funding became available during year. Waitlist expired at end of year
43	Abbott Cardiovascular Systems, Inc.	Temecula (Riverside)	Advanced Manufacturing	\$23,475,000	\$1,995,375	Was waitlisted, no funding became available during year. Waitlist expired at end of year

Appendix B: Sales and Use Tax Exclusion Applications Received for Consideration in 2022

	Applicant Name	Project Location	Eligibility Pathway	Qualified Property Amount	Estimated STE Amount	Status
44	Varda Space Industries, Inc.	Torrance (Los Angeles)	Alternative Source	\$50,850,000	\$4,322,250	Was waitlisted, no funding became available during year. Waitlist expired at end of year
45	FreeWire Technologies, Inc.	Newark (Alameda)	Advanced Manufacturing	\$2,184,000	\$185,640	Was waitlisted, no funding became available during year. Waitlist expired at end of year
46	Rivian Automotive, LLC	None Provided	Advanced Transportation	\$276,337,998	\$23,488,730	Withdrawn
47	Northrop Grumman	Northridge (Los Angeles)	Advanced Manufacturing	\$190,048,000	\$16,154,080	Incomplete
48	Sienza Inc.	Pasadena (Los Angeles)	Advanced Manufacturing	\$1,493,305	\$126,931	Incomplete
49	U.S. Borax, Inc.	Boron (Kern)	Advanced Manufacturing	\$112,022,053	\$9,521,875	Incomplete
50	PolyPeptide Laboratories, Inc.	Torrance (Los Angeles)	Advanced Manufacturing	\$76,040,000	\$6,463,400	Incomplete
51	10X Genomics, Inc.	Pleasanton (Alameda)	Advanced Manufacturing	\$24,160,000	\$2,053,600	Incomplete
52	ACC Renewable Resources, LLC	Williams (Colusa)	Alternative Source	\$2,770,000	\$235,450	Ineligible

**APPENDIX C:
PACE LOSS RESERVE PROGRAM
ENROLLMENT ACTIVITY THROUGH 2022**



Appendix C: PACE Loss Reserve Program Enrollment Activity through 2022

Year		Program	New Financings January 1st – June 30th		Actual Total Outstanding Portfolio Through June 30th*		New Financings July 1st – December 31st		Estimated Total Enrolled Portfolio Through December 31st*	
2014	1	mPOWER Placer			464	\$10,502,382.62	312	\$9,540,534.04	776	\$20,042,916.66
	2	mPOWER Folsom			3	\$54,181.18	4	\$86,847.90	7	\$141,029.08
	3	Berkeley FIRST***			13	\$299,233.74	-	\$0.00	13	\$299,233.74
	4	CaliforniaFIRST			-	\$0.00	151	\$3,435,462.04	151	\$3,435,462.04
	5	Sonoma County			1,550	\$43,702,974.25	65	\$1,524,472.34	1,615	\$45,227,446.59
	6	WRCOG HERO			9,911	\$189,339,784.00	1,757	\$34,971,957.65	11,668	\$224,311,741.65
	7	SANBAG HERO			4,286	\$80,398,364.90	1,763	\$32,056,560.16	6,049	\$112,454,925.06
	8	California HERO			1,174	\$25,974,938.48	2,970	\$67,054,570.85	4,144	\$93,029,509.33
		Total:			17,401	\$350,271,859.17	7,022	\$148,670,404.98	24,423	\$498,942,264.15
2015	1	mPOWER Placer	313	\$9,007,272.29	878	\$44,537,362.74	361	\$10,422,668.14	1,239	\$54,960,030.88
	2	mPOWER Folsom	12	\$358,423.79	19	\$858,358.59	10	\$229,578.67	29	\$1,087,937.26
	3	Berkeley FIRST***	-	\$0.00	12	\$272,231.98	-	\$0.00	12	\$272,231.98
	4	CaliforniaFIRST	1,044	\$23,904,858.49	1,195	\$27,195,540.14	2,231	\$55,875,048.47	3,426	\$83,070,588.61
	5	Sonoma County	67	\$1,659,819.77	1,475	\$41,157,542.98	46	\$1,288,617.74	1,521	\$42,446,160.72
	6	WRCOG HERO	1,535	\$33,837,187.89	12,795	\$252,378,022.05	2,361	\$53,783,476.55	15,156	\$306,161,498.60
	7	SANBAG HERO	2,509	\$49,728,567.21	7,608	\$143,435,075.39	2,550	\$54,760,955.71	10,158	\$198,196,031.10
	8	California HERO	6,035	\$138,783,046.73	10,326	\$240,306,305.35	8,032	\$191,433,540.91	18,358	\$431,739,846.26
	9	AllianceNRG					1	\$25,474.99	1	\$25,474.99
	10	CaliforniaFIRST (LA)					282	\$8,663,915.65	282	\$8,663,915.65
	11	LA HERO					5,050	\$126,779,290.63	5,050	\$126,779,290.63
	12	Ygrene					2,282	\$50,669,809.81	2,282	\$50,669,809.81
		Total:	11,515	\$257,279,176.17	34,308	\$750,140,439.22	23,206	\$553,932,377.27	57,514	\$1,304,072,816.49
2016	1	mPOWER Placer	311	\$9,312,194.68	1,493	\$44,558,408.98	252	\$8,194,751.80	1,745	\$52,753,160.78
	2	mPOWER Folsom	26	\$713,934.71	54	\$732,306.69	9	\$187,784.35	63	\$920,091.04
	3	Berkeley FIRST***	-	\$0.00	11	\$246,745.00	-	\$0.00	11	\$246,745.00
	4	CaliforniaFIRST	3,531	\$90,107,437.45	6,957	\$169,216,761.62	3,907	\$110,192,499.48	10,864	\$279,409,261.10
	5	Sonoma County	51	\$1,776,171.84	1,378	\$38,507,299.21	43	\$1,023,845.68	1,421	\$39,531,144.89
	6	WRCOG HERO	2,222	\$46,649,263.50	15,624	\$320,840,795.46	2,393	\$49,380,509.74	18,017	\$370,221,305.20
	7	SANBAG HERO	2,289	\$46,363,907.06	11,518	\$227,139,077.08	2,584	\$51,629,199.72	14,102	\$278,768,276.80
	8	California HERO	8,533	\$183,279,942.82	25,306	\$574,336,722.18	10,899	\$232,821,239.40	36,205	\$807,157,961.58
	9	AllianceNRG	2	\$95,960.41	3	\$121,435.40	-	\$0.00	3	\$121,435.40
	10	CaliforniaFIRST (LA)	1,088	\$32,228,028.12	1,451	\$43,224,206.38	1,877	\$64,646,218.07	3,328	\$107,870,424.45
	11	LA HERO	6,529	\$166,552,162.84	10,032	\$252,287,718.07	5,721	\$150,665,091.33	15,753	\$402,952,809.40
	12	Ygrene	8,152	\$189,939,247.42	10,068	\$232,048,888.23	6,176	\$148,659,905.36	16,244	\$380,708,793.59
	13	PACEFunding	9	\$251,239.75	9	\$251,239.75	121	\$4,036,153.52	121	\$4,036,153.52
	14	CMFA PACE					47	\$2,533,503.48	47	\$2,533,503.48
		Total:	32,743	\$767,269,490.60	83,904	\$1,903,511,604.05	34,029	\$823,970,701.93	#####	\$2,727,482,305.98
2017	1	mPOWER Placer	184	\$5,631,524.68	1,683	\$51,611,437.71	183	\$5,498,466.65	1,866	\$57,109,904.36
	2	mPOWER Folsom	9	\$229,668.63	71	\$1,811,317.38	8	\$237,161.37	79	\$2,048,478.75
	3	Berkeley FIRST***	-	\$0.00	11	\$246,745.00	-	\$0.00	11	\$246,745.00
	4	CaliforniaFIRST	3,273	\$91,144,466.34	12,216	\$323,675,795.73	3,769	\$105,445,216.29	15,985	\$429,121,012.02
	5	Sonoma County	39	\$934,951.16	1,206	\$28,137,490.97	32	\$900,375.11	1,238	\$29,037,866.08
	6	WRCOG HERO	1,686	\$36,735,663.92	15,449	\$301,692,765.95	1,797	\$40,821,119.58	17,246	\$342,513,885.53
	7	SANBAG HERO	1,738	\$35,304,161.93	14,041	\$255,176,123.25	580	\$12,256,787.69	14,621	\$267,432,910.94
	8	California HERO	8,276	\$177,688,563.47	33,652	\$729,747,735.40	7,776	\$184,293,420.37	41,428	\$914,041,155.77
	9	AllianceNRG	69	\$2,260,800.21	72	\$2,478,196.22	32	\$1,122,030.42	104	\$3,600,226.64
	10	CaliforniaFIRST (LA)	1,574	\$54,207,538.45	4,485	\$148,223,916.66	1,190	\$39,148,949.43	5,675	\$187,372,866.09
	11	LA HERO	3,767	\$102,176,910.54	18,045	\$466,401,044.72	3,172	\$87,588,394.76	21,217	\$553,989,439.48
	12	Ygrene	4,745	\$114,651,498.88	19,490	\$460,975,116.00	4,787	\$135,120,402.68	24,277	\$596,095,518.68
	13	PACEFunding	196	\$5,916,311.47	326	\$10,203,704.70	350	\$10,220,269.92	676	\$20,423,974.62
	14	CMFA PACE	294	\$9,754,686.31	341	\$12,287,902.02	908	\$29,753,963.38	1,249	\$42,041,865.40
	15	CSCDA HERO					1,025	\$21,147,951.97	1,025	\$21,147,951.97
	16	Figtree PACE					100	\$2,661,327.11	100	\$2,661,327.11
	17	Spruce PACE					12	\$357,431.78	12	\$357,431.78
	18	mPower Pioneer					41	\$1,265,377.60	41	\$1,265,377.60
		Total:	25,850	\$636,636,745.99	121,088	\$2,792,669,291.71	25,762	\$677,838,646.11	#####	\$3,470,507,937.82

Appendix C: PACE Loss Reserve Program Enrollment Activity through 2022

Year	Program	New Financings January 1st – June 30th		Actual Total Outstanding Portfolio Through June 30th*		New Financings July 1st – December 31st		Estimated Total Enrolled Portfolio Through December 31st*	
2018	1 mPOWER Placer	40	\$1,083,211.83	1,595	\$49,266,208.03	9	\$321,581.40	1,604	\$49,587,789.43
	2 mPOWER Folsom***	1	\$31,293.53	61	\$1,676,458.06	-	\$0.00	61	\$1,676,458.06
	3 Berkeley FIRST***	-	\$0.00	10	\$211,323.67	-	\$0.00	10	\$211,323.67
	4 CaliforniaFIRST	2,116	\$60,101,409.02	16,136	\$420,767,571.18	926	\$26,514,095.46	17,062	\$447,281,666.64
	5 Sonoma County	41	\$1,300,393.73	1,122	\$24,955,602.09	18	\$692,772.85	1,140	\$25,648,374.94
	6 WRCOG HERO	805	\$18,555,186.85	15,560	\$280,708,255.21	396	\$8,890,520.62	15,956	\$289,598,775.83
	7 SANBAG HERO***	-	\$0.00	12,034	\$206,919,594.59	-	\$0.00	12,034	\$206,919,594.59
	8 California HERO	3,864	\$92,564,733.92	43,310	\$879,391,643.35	2,024	\$49,881,912.09	45,334	\$929,273,555.44
	9 AllianceNRG	421	\$15,486,341.48	518	\$18,856,515.69	108	\$4,646,042.91	626	\$23,502,558.60
	10 CaliforniaFIRST (LA)	590	\$18,963,009.03	5,481	\$172,957,644.74	291	\$10,608,663.64	5,772	\$183,566,308.38
	11 LA HERO	1,830	\$52,716,557.99	17,782	\$480,617,639.31	950	\$30,589,549.29	18,732	\$511,207,188.60
	12 Ygrene	2,397	\$65,173,725.85	26,639	\$617,259,147.60	1,421	\$39,481,516.78	28,060	\$656,740,664.38
	13 PACEFunding	1,099	\$32,049,028.41	1,742	\$51,494,724.00	2,115	\$67,166,446.18	3,857	\$118,661,170.18
	14 CMFA PACE	1,300	\$47,758,004.91	2,427	\$84,634,182.87	1,051	\$40,868,690.16	3,478	\$125,502,873.03
	15 CSCDA HERO	767	\$16,826,874.43	1,615	\$34,771,715.23	419	\$9,168,040.39	2,034	\$43,939,755.62
	16 Figtree PACE	58	\$1,752,611.39	153	\$4,293,597.48	2	\$91,879.36	155	\$4,385,476.84
	17 Spruce PACE**	35	\$1,242,742.32	43	\$1,509,546.87	-	\$0.00	43	\$1,509,546.87
	18 mPower Pioneer	111	\$3,781,109.31	169	\$5,668,622.32	123	\$3,722,437.19	292	\$9,391,059.51
	19 PACEFunding (WRCOG)					129	\$3,487,088.18	129	\$3,487,088.18
Total:		15,475	\$429,386,234.00	146,397	\$3,335,959,992.29	9,982	\$296,131,236.50	#####	\$3,632,091,228.79
2019	1 mPOWER Placer***	1	\$23,654.63	1,420	\$37,143,251.11	0	\$0.00	1,420	\$37,143,251.11
	2 mPOWER Folsom***	-	\$0.00	58	\$1,355,669.17	0	\$0.00	58	\$1,355,669.17
	3 Berkeley FIRST***	-	\$0.00	9	\$170,880.00	0	\$0.00	9	\$170,880.00
	4 CaliforniaFIRST	862	\$24,814,188.38	16,251	\$423,833,010.59	806	\$26,028,086.87	17,057	\$449,861,097.46
	5 Sonoma County	41	\$1,433,386.00	1,057	\$23,068,135.84	21	\$779,629.26	1,078	\$23,847,765.10
	6 WRCOG HERO	201	\$4,656,407.84	14,882	\$281,364,978.00	184	\$4,215,451.22	15,066	\$285,580,429.22
	7 SANBAG HERO***	-	\$0.00	10,398	\$182,467,696.00	0	\$0.00	10,398	\$182,467,696.00
	8 California HERO	1,288	\$31,518,479.19	40,723	\$846,003,725.00	785	\$19,507,489.24	41,508	\$865,511,214.24
	9 AllianceNRG**	15	\$494,626.75	637	\$22,532,855.85	0	\$0.00	637	\$22,532,855.85
	10 CaliforniaFIRST (LA)***	66	\$2,694,035.40	5,222	\$166,818,891.58	0	\$0.00	5,222	\$166,818,891.58
	11 LA HERO	689	\$25,621,044.84	18,269	\$459,895,948.00	468	\$16,645,859.27	18,737	\$476,541,807.27
	12 Ygrene	1,134	\$32,447,448.55	25,502	\$577,375,251.16	863	\$25,457,114.93	26,365	\$602,832,366.09
	13 PACEFunding	1,344	\$39,580,185.56	5,120	\$155,411,775.03	1,111	\$33,188,007.53	6,231	\$188,599,782.56
	14 CMFA PACE	659	\$23,735,544.01	3,887	\$134,751,580.96	314	\$10,959,785.45	4,201	\$145,711,366.41
	15 CSCDA HERO	226	\$5,696,061.58	2,067	\$45,147,559.00	195	\$5,838,274.64	2,262	\$50,985,833.64
	16 Figtree PACE**	-	\$0.00	142	\$4,122,968.90	0	\$0.00	142	\$4,122,968.90
	17 Spruce PACE**	-	\$0.00	34	\$1,214,206.42	0	\$0.00	34	\$1,214,206.42
	18 CaliforniaFIRST (WRCOG)	45	\$1,214,260.83	45	\$1,214,260.83	21	\$682,836.70	66	\$1,897,097.53
	19 mPower Pioneer	61	\$1,900,405.28	340	\$9,912,574.42	48	\$1,615,485.11	388	\$11,528,059.53
	20 PACEFunding (WRCOG)	78	\$2,073,104.69	196	\$5,348,938.87	151	\$3,766,281.52	347	\$9,115,220.39
	21 PACEFunding (LA)	257	\$8,475,408.10	257	\$8,475,408.10	574	\$20,306,276.53	831	\$28,781,684.63
Total:		6,967	\$206,378,241.63	146,516	\$3,387,629,564.83	5,541	\$168,990,578.27	152,057	\$3,556,620,143.10
2020	1 mPOWER Placer***	-	\$0.00	1,034	\$25,592,569.28	-	\$0.00	1,034	\$25,592,569.28
	2 mPOWER Folsom***	-	\$0.00	49	\$1,074,508.55	-	\$0.00	49	\$1,074,508.55
	3 Berkeley FIRST***	-	\$0.00	9	\$159,909.61	-	\$0.00	9	\$159,909.61
	4 CaliforniaFIRST	472	\$15,194,046.20	14,717	\$377,405,197.83	267	\$8,387,093.97	14,984	\$385,792,291.80
	5 Sonoma County	38	\$1,100,397.87	931	\$20,144,362.97	27	\$847,368.52	958	\$20,991,731.49
	6 WRCOG HERO	82	\$1,792,974.93	12,235	\$221,786,879.18	129	\$2,711,778.97	12,364	\$224,498,658.15
	7 SANBAG HERO***	-	\$0.00	8,591	\$143,740,842.80	-	\$0.00	8,591	\$143,740,842.80
	8 California HERO	497	\$12,623,001.18	34,594	\$678,621,087.46	547	\$13,319,207.96	35,141	\$691,940,295.42
	9 AllianceNRG**	-	\$0.00	637	\$22,532,855.85	-	\$0.00	637	\$22,532,855.85
	10 CaliforniaFIRST (LA)***	-	\$0.00	4,370	\$134,614,433.55	-	\$0.00	4,370	\$134,614,433.55
	11 LA HERO**	178	\$6,319,122.01	15,497	\$378,241,452.46	-	\$0.00	15,497	\$378,241,452.46
	12 Ygrene	804	\$21,872,098.34	22,984	\$509,214,011.75	994	\$30,527,654.48	23,978	\$539,741,666.23
	13 PACEFunding	1,409	\$43,169,550.99	6,819	\$207,940,047.06	2,137	\$79,433,537.13	8,956	\$287,373,584.19
	14 CMFA PACE**	-	\$0.00	3,920	\$134,621,946.07	-	\$0.00	3,920	\$134,621,946.07
	15 CSCDA HERO**	112	\$3,510,252.72	2,006	\$45,146,277.41	-	\$0.00	2,006	\$45,146,277.41
	16 Figtree PACE**	-	\$0.00	130	\$3,740,860.56	-	\$0.00	130	\$3,740,860.56
	17 Spruce PACE**	-	\$0.00	34	\$1,214,206.42	-	\$0.00	34	\$1,214,206.42
	18 CaliforniaFIRST (WRCOG)	25	\$762,841.92	79	\$2,318,222.65	8	\$301,622.69	87	\$2,619,845.34
	19 mPower Pioneer	31	\$1,126,492.07	324	\$9,674,665.89	20	\$643,675.30	344	\$10,318,341.19
	20 PACEFunding (WRCOG)	49	\$1,476,800.62	378	\$10,191,243.35	102	\$2,920,580.68	480	\$13,111,824.03
	21 PACEFunding (LA)	449	\$18,555,466.95	1,210	\$44,752,438.28	24	\$1,161,695.62	1,234	\$45,914,133.90
	22 Fortifi Financial CSCDA	647	\$24,000,854.73	647	\$24,000,854.73	744	\$27,875,025.68	1,391	\$51,875,880.41
Total:		4,793	\$151,503,900.53	131,195	\$2,996,728,873.71	4,999	\$168,129,241.00	136,194	\$3,164,858,114.71

Appendix C: PACE Loss Reserve Program Enrollment Activity through 2022

Year		Program	New Financings January 1st – June 30th		Actual Total Outstanding Portfolio Through June 30th*		New Financings July 1st – December 31st		Estimated Total Enrolled Portfolio Through December 31st*	
2021	1	mPOWER Placer***	-	\$0.00	679	\$16,011,815.42	-	\$0.00	679	\$16,011,815.42
	2	mPOWER Folsom***	-	\$0.00	40	\$869,125.72	-	\$0.00	40	\$869,125.72
	3	Berkeley FIRST***	-	\$0.00	9	\$148,198.40	-	\$0.00	9	\$148,198.40
	4	CaliforniaFIRST	215	\$7,664,371.05	12,111	\$301,838,913.54	176	\$6,267,939.27	12,287	\$308,106,852.81
	5	Sonoma County	47	\$1,359,139.26	786	\$17,592,390.75	36	\$1,070,622.24	822	\$18,663,012.99
	6	WRCOG HERO***	-	\$0.00	9,358	\$161,383,312.84	-	\$0.00	9,358	\$161,383,312.84
	7	SANBAG HERO***	-	\$0.00	6,602	\$106,760,000.04	-	\$0.00	6,602	\$106,760,000.04
	8	California HERO	37	\$1,320,660.82	26,735	\$504,438,444.19	-	\$0.00	26,735	\$504,438,444.19
	9	AllianceNRG**	-	\$0.00	637	\$22,532,855.85	-	\$0.00	637	\$22,532,855.85
	10	CaliforniaFIRST (LA)***	-	\$0.00	3,577	\$107,610,386.92	-	\$0.00	3,577	\$107,610,386.92
	11	LA HERO**	-	\$0.00	15,497	\$378,241,452.46	-	\$0.00	15,497	\$378,241,452.46
	12	Ygrene	1,278	\$42,799,781.68	21,376	\$466,504,326.39	910	\$27,212,919.50	22,286	\$493,717,245.89
	13	Home Run Financing****	1,348	\$52,594,124.13	8,881	\$296,315,671.94	1,116	\$46,194,572.11	9,997	\$342,510,244.05
	14	CMFA PACE**	-	\$0.00	3,920	\$134,621,946.07	-	\$0.00	3,920	\$134,621,946.07
	15	CSCDA HERO**	-	\$0.00	2,006	\$45,146,277.41	-	\$0.00	2,006	\$45,146,277.41
	16	Figtree PACE**	-	\$0.00	130	\$3,740,860.56	-	\$0.00	130	\$3,740,860.56
	17	Spruce PACE**	-	\$0.00	34	\$1,214,206.42	-	\$0.00	34	\$1,214,206.42
	18	CaliforniaFIRST (WRCOG)	7	\$189,348.86	74	\$2,128,329.39	2	\$110,361.99	76	\$2,238,691.38
	19	mPower Pioneer	16	\$838,145.31	236	\$7,199,930.98	14	\$459,133.10	250	\$7,659,064.08
	20	Home Run Financing**** (WRCOG)	37	\$1,207,058.49	474	\$12,932,432.12	2	\$68,594.25	476	\$13,001,026.37
	21	Home Run Financing**** (LA)**	1	\$104,602.23	949	\$36,779,252.70	-	\$0.00	949	\$36,779,252.70
	22	FortiFi Financial CSCDA	357	\$11,817,243.96	1,604	\$58,032,630.07	187	\$6,777,032.42	1,791	\$64,809,662.49
Total:			3,343	\$119,894,475.79	115,715	\$2,682,042,760.18	2,443	\$88,161,174.88	118,158	\$2,770,203,935.06
2022	1	mPOWER Placer***	-	\$0.00	515	\$11,449,087.61	-	\$0.00	515	\$11,449,087.61
	2	mPOWER Folsom***	-	\$0.00	29	\$509,430.25	-	\$0.00	29	\$509,430.25
	3	Berkeley FIRST***	-	\$0.00	8	\$123,011.80	-	\$0.00	8	\$123,011.80
	4	CaliforniaFIRST	213	\$7,979,677.47	9,740	\$237,276,524.78	400	\$16,705,471.76	10,140	\$253,981,996.54
	5	Sonoma County	45	\$2,039,394.69	717	\$16,562,104.82	40	\$1,300,837.29	757	\$17,862,942.11
	6	WRCOG HERO***	-	\$0.00	6,972	\$113,612,021.50	-	\$0.00	6,972	\$113,612,021.50
	7	SANBAG HERO***	-	\$0.00	4,894	\$76,237,837.03	-	\$0.00	4,894	\$76,237,837.03
	8	California HERO***	-	\$0.00	19,603	\$353,355,766.36	-	\$0.00	19,603	\$353,355,766.36
	9	AllianceNRG**	-	\$0.00	637	\$22,532,855.85	-	\$0.00	637	\$22,532,855.85
	10	CaliforniaFIRST (LA)***	-	\$0.00	2,872	\$82,096,482.73	-	\$0.00	2,872	\$82,096,482.73
	11	LA HERO**	-	\$0.00	15,497	\$378,241,452.46	-	\$0.00	15,497	\$378,241,452.46
	12	Ygrene	753	\$23,955,462.90	17,526	\$449,587,282.80	303	\$11,480,161.64	17,829	\$461,067,444.44
	13	Home Run Financing****	752	\$31,640,459.16	8,547	\$299,953,320.03	707	\$30,366,437.97	9,254	\$330,319,758.00
	14	CMFA PACE**	-	\$0.00	3,920	\$134,621,946.07	-	\$0.00	3,920	\$134,621,946.07
	15	CSCDA HERO**	-	\$0.00	2,006	\$45,146,277.41	-	\$0.00	2,006	\$45,146,277.41
	16	Figtree PACE**	-	\$0.00	130	\$3,740,860.56	-	\$0.00	130	\$3,740,860.56
	17	Spruce PACE**	-	\$0.00	34	\$1,214,206.42	-	\$0.00	34	\$1,214,206.42
	18	CaliforniaFIRST (WRCOG)***	-	\$0.00	53	\$1,479,635.73	-	\$0.00	53	\$1,479,635.73
	19	mPower Pioneer***	12	\$538,813.76	178	\$5,344,788.77	-	\$0.00	178	\$5,344,788.77
	20	Home Run Financing**** (WRCOG)	-	\$0.00	443	\$11,414,892.89	-	\$0.00	443	\$11,414,892.89
	21	Home Run Financing**** (LA)**	-	\$0.00	949	\$36,779,252.70	-	\$0.00	949	\$36,779,252.70
	22	FortiFi Financial CSCDA	194	\$8,177,102.42	1,502	\$54,187,351.99	173	\$7,301,054.18	1,675	\$61,488,406.17
Total:			1,969	\$74,330,910.40	96,772	\$2,335,466,390.56	1,623	\$67,153,962.84	98,395	\$2,402,620,353.40

* Total enrolled portfolio through December 31st is an estimate; PACE Programs report the actual outstanding portfolio value through June 30th each year.

** PACE Program is no longer actively enrolling PACE Financings and no longer reports their current outstanding portfolio.

*** PACE Program is no longer actively enrolling PACE Financings but still reports their outstanding portfolio.

**** (Formerly PACEFunding)