



California Alternative Energy and Advanced Transportation Financing Authority

Investing in communities and the green
economy

2023 Annual Report to the California State Legislature

March 2024

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 (STE) 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 the years 2022, 2023, and 2024.
- **California Hub for Energy Efficiency Financing (CHEEF) 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 the 2023 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, 2023.

This Annual Report contains information on the Authority's revenues and expenditures for fiscal year 2022-23 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 calendar years 2022, 2023, and 2024.

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
- Nanotechnology
- Biopharmaceuticals



RECYCLED FEEDSTOCK

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



LITHIUM EXTRACTION

- ZEVs and Energy Storage

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.

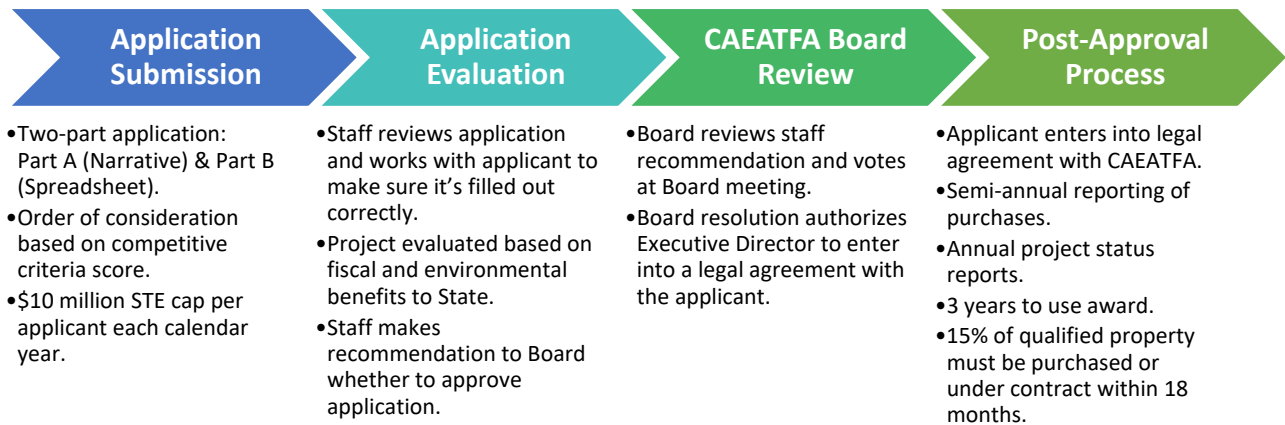
Program Design and Evaluation Methodology

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) a \$20 million STE small-project pool for projects requesting \$2 million or less in STE, (2) a \$65 million STE general pool (capped at \$10 million in STE), and (3) a \$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

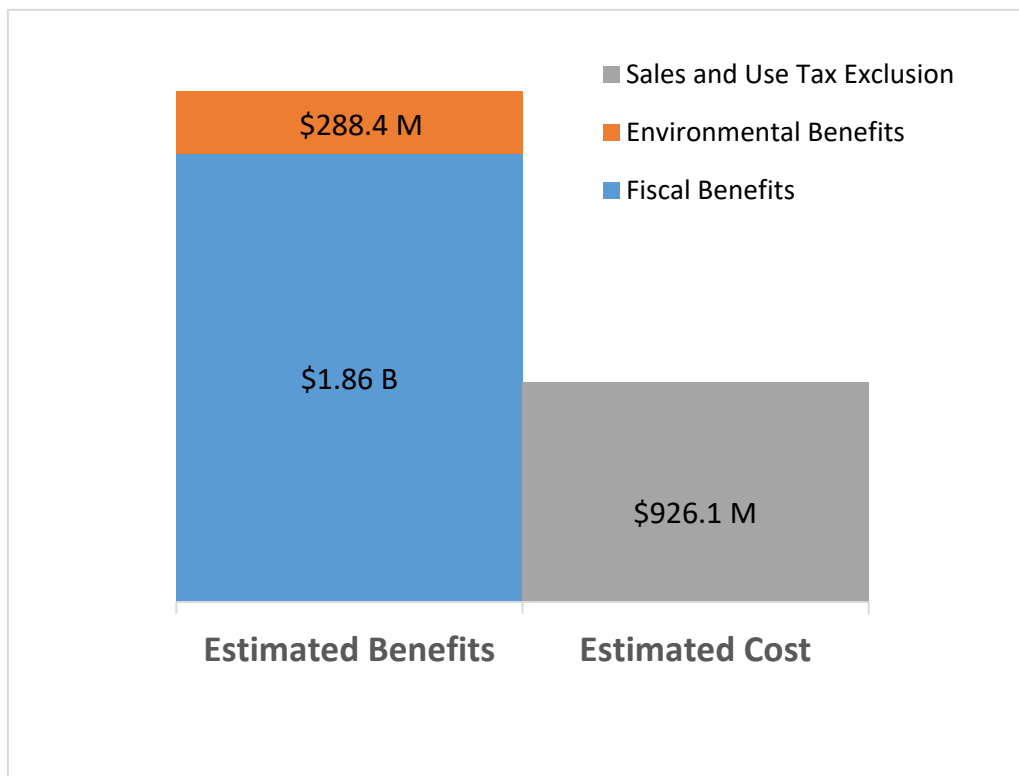
The methodology used to evaluate the *environmental benefits* differs based on the project type. The evaluation of Advanced Manufacturing projects focuses on the benefits resulting from the manufacturing process used to create a product, whereas evaluation of Alternative Source, Advanced Transportation, 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 \$1.22 billion as of December 2023.

FIGURE 2: ESTIMATED STE NET BENEFIT



Sales and Use Tax Exclusion (STE) Program for Manufacturers

Historical Program Activity

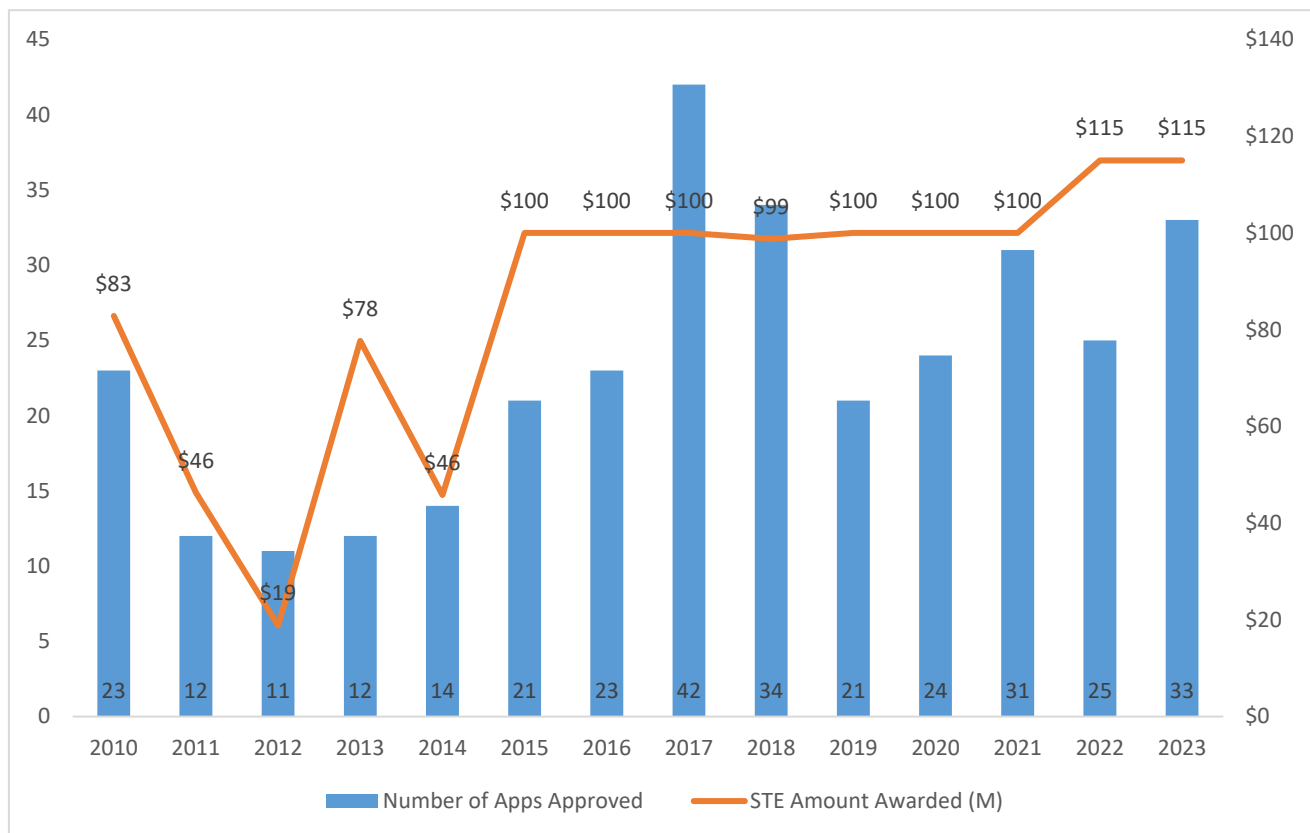
From the STE Program’s inception through December 31, 2023, CAEATFA approved a total of 336 project applications, of which 97 are active, 159 are complete, and 80 did not move forward or are now inactive.

The 256 active and complete projects were approved for a total of \$11 billion in anticipated qualified property purchases estimated to result in approximately \$926.1 million in STE. These projects are located across 36 counties and are estimated to result in the retention and creation of 114,832 jobs. Under the program’s evaluation process, 5,456 of these jobs are attributable to the STE Program. The projects are anticipated to produce an estimated \$288.4 million in environmental benefits and \$1.86 billion in fiscal benefits, resulting in approximately \$1.22 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.

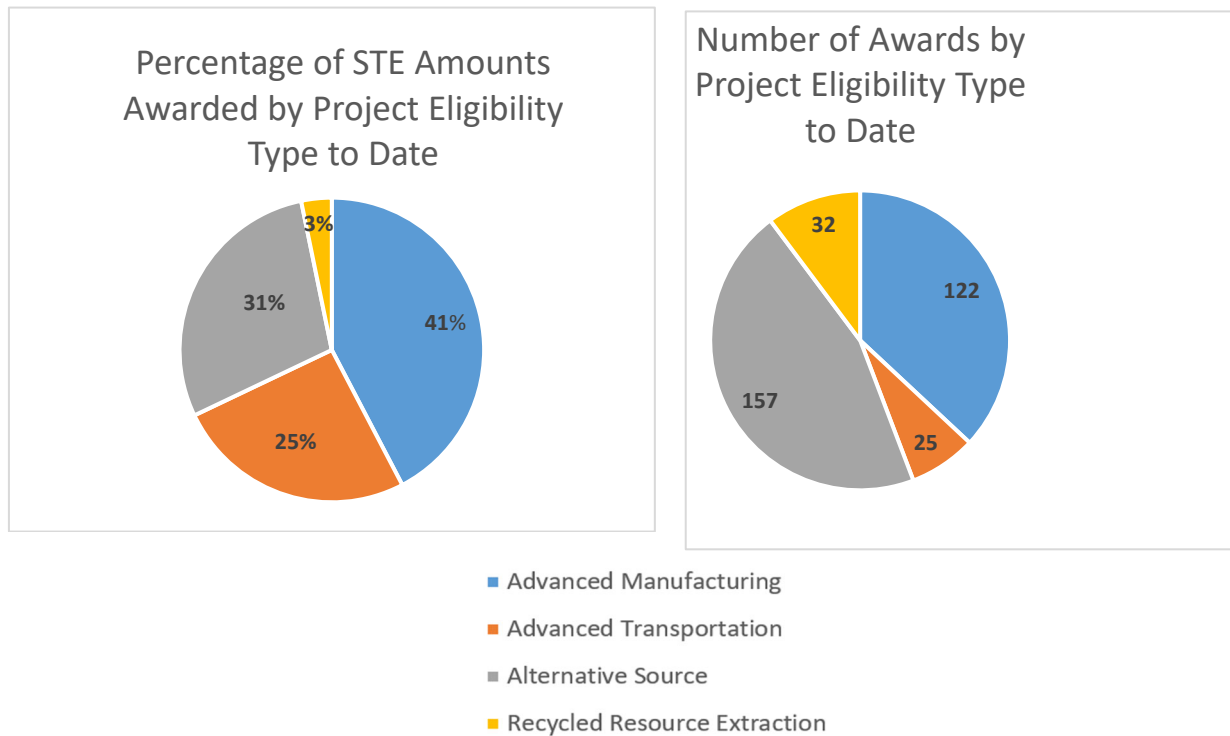
FIGURE 3: ANNUAL STE APPLICATIONS AND VALUE OF AWARDS



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 category.

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 2023 Activities

STE Applications Received

In 2023, the STE Program's annual allocation of \$115 million was fully awarded by the end of the year. CAEATFA received 44 new applications; of these, 33 were fully or partially approved, one application was deemed incomplete, five applications were withdrawn for various reasons, one application was combined with an approved application, and four applications were waitlisted and never considered. The projects had a combined value of approximately \$3.1 billion in anticipated qualified property purchases at the time of application submittal and were estimated to result in approximately \$252 million in STE.¹ Appendix B lists all 2023 applications received and the original amounts requested.

¹ The estimated STE amount is based on the average statewide sales tax rate at the time, which was 8.36%.

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. Changes² 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 under current statute, in order 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.³ 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 website⁴ 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 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

² Detailed in the [CAEATFA 2021 Annual Report to the California State Legislature](#)

³ 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)).

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

Sales and Use Tax Exclusion (STE) Program for Manufacturers

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 oversubscription of the STE Program general pool in 2023, applications within that pool were ranked based on the following competitive criteria:⁵

- (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)⁶

In the first 2023 application period, CAEATFA received 41 Applications requesting over \$260 million in STE. 26 of those 41 applications were presented and approved at the July 2023 Board meeting (one application was removed shortly before the Board meeting following an adjustment in ranking order) for a total of \$91.35 million in STE, exhausting the program's general pool. \$21.65 million in STE remained in the small, large and lithium extraction project pools.

Only applications for the small and lithium extraction project pools were accepted in the second 2023 STE application period from June 26 – July 10. Three applications were received for the small project pool and none for the lithium extraction pool. CAEATFA staff intended to bring seven applications before the Board for consideration in September 2023; however, one was withdrawn shortly before the Board meeting. All six applications (two second-round small project pool applications and four waitlisted first-round general pool applications) totaling \$14.7 million in STE were approved, leaving \$6.94 million in STE for 2023.

During the third application period from September 25 – October 9, only applications for the lithium extraction project pool were accepted, but no new applications were received. This meant any lithium extraction applicants that had received an award previously in the year were enabled to receive

⁵ California Code of Regulations Title 4, Division 13, Section 10032(a)(7)(B)

⁶ Qualifying projects in an Emerging Strategic Industry did not become a competitive criterion until December 2021.

Sales and Use Tax Exclusion (STE) Program for Manufacturers

additional STE. At the December 2023 Board meeting, two applications exhausted the remaining \$6.94 million annual STE cap: one waitlisted first-round general pool application and one lithium extraction pool application that was previously awarded in July.

STE Applications Approved

The Authority approved 33 projects in 2023 for a total dollar amount of \$1,375,598,086.12 in qualified property purchases, estimated to result in \$115 million in STE.

STE Program Regulations (California Code of Regulations Title 4, Division 13, Section 10032(a)(7)(A)) provide that applications that are received but not awarded due to the Statutory Cap will be placed on a waiting list for the rest of the calendar year. When the amount requested in the last application(s) considered in the calendar year exceeds the STE available, the remaining STE award may use up to \$2 million in STE from the following calendar year. Thus, \$2 million of 2023's \$115 million STE annual statutory allocation was awarded and reported in 2022 and is not included in the 2023 Approved Projects. Similarly, the last 2023 general pool application received \$2 million of its STE award from the 2024 annual allocation, and is included in the 2023 Approved Projects.

Project Locations and Anticipated Benefits

The 2023 approved projects are located in 20 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 2023 are anticipated to result in estimated combined environmental benefits valued at approximately \$54.9 million and fiscal benefits valued at approximately \$204.9 million over the lifetime of the projects. Together, these projected environmental and fiscal benefits will result in approximately \$144.8 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.

Sales and Use Tax Exclusion (STE) Program for Manufacturers

TABLE 1: STE APPROVED PROJECTS BY COUNTY IN 2023⁷

County ⁸	Number	Amount of Anticipated Qualified Property Purchases	Projected STE Amount	Estimated Environmental Benefit Value ⁹	Estimated Fiscal Benefit Value	Estimated Quantifiable Net Benefit Value	Total Jobs	Total Jobs Attributed to the STE
Alameda	1	\$30,382,973	\$2,540,017	\$0	\$1,914,806	-\$625,210	425	13
Butte	1	\$16,490,000	\$1,378,564	\$3,298,333	\$1,693,539	\$3,613,308	15	2
Contra Costa	4	\$164,374,539.88	\$13,741,712	\$7,293,069	\$24,807,421	\$18,358,778	355	46
Fresno	1	\$23,850,000	\$1,993,860	\$0	\$9,531,440	\$7,537,580	300	8
Imperial	2	\$418,659,565.32	\$34,999,940	\$12,700,092	\$62,159,756	\$39,859,908	850	105
Kern	1	\$16,189,464	\$1,353,439	\$704,162	\$2,729,829	\$2,080,552	73	9
Kings	2	\$9,389,667	\$784,976	\$270,495	\$1,085,989	\$571,508	70	8
Los Angeles	3	\$70,893,407.92	\$5,926,689	\$397,344	\$8,638,501	\$3,109,156	1,720	33
Madera	2	\$13,672,783	\$1,143,045	\$1,165,194	\$1,743,718	\$1,765,867	83	6
Mariposa	1	\$18,970,000	\$1,585,892	\$3,544,953	\$1,858,583	\$3,817,643	15	2
Merced	2	\$71,364,026	\$5,966,033	\$3,039,523	\$11,252,634	\$8,326,124	349	39
Monterey	1	\$5,212,500	\$435,765	\$109,196	\$656,482	\$329,912	72	1
Orange	1	\$17,949,389	\$1,500,569	\$0	\$2,631,420	\$1,130,851	244	16
San Bernardino	1	\$30,783,686	\$2,573,516	\$2,880,025	\$5,485,863	\$5,792,372	85	12
San Diego	3	\$226,744,118	\$18,955,808	\$6,134,038	\$22,236,687	\$9,414,916	982	98
San Joaquin	1	\$5,232,013	\$437,396	\$0	\$404,682	-\$32,714	67	23
Santa Clara	3	\$133,150,000	\$11,131,340	\$3,594,759	\$26,354,886	\$18,818,305	7,233	94
Stanislaus	1	\$17,366,750	\$1,451,860	\$903,173	\$4,505,428	\$3,956,740	29	2
Tulare	1	\$31,115,681	\$2,601,271	\$2,264,604	\$7,772,457	\$7,435,790	349	28
Ventura	1	\$53,807,523	\$4,498,309	\$6,581,039	\$7,406,912	\$9,489,642	41	4
Total	33	\$1,375,598,086.12	\$115,000,000	\$54,879,999	\$204,871,033	\$144,751,028	13,357	549

⁷ Projected STE amounts and estimated benefits may not add up precisely due to rounding.

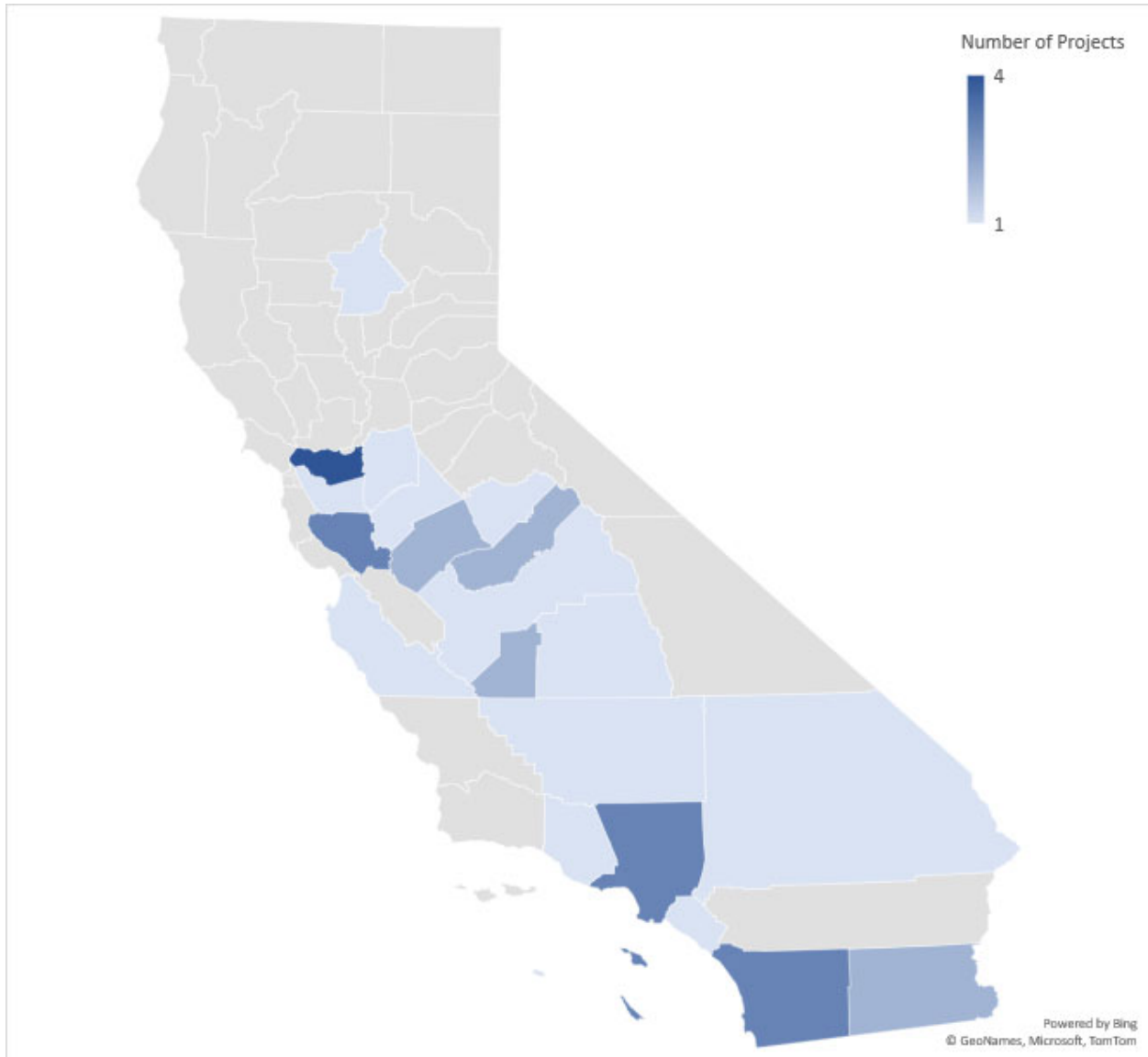
⁸ There are applicants with multiple project sites. For purposes of this table, the data was applied to the primary county.

⁹ 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 2023.

FIGURE 5: STE PROJECTS APPROVED IN 2023, 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 2023, four projects qualified under the Emerging Strategic Industries designation, totaling approximately \$535 million in qualified property for an estimated STE value of \$44.7 million (which includes the additional \$15 million lithium extraction allocation) across three different counties. This consists of one lithium recovery and processing project, two lithium battery related manufacturing projects, and one geothermal brine and 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 2030.¹⁰ 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. Improved access to attractive, low-cost financing helps remove the upfront cost barrier for Californians to undertake energy efficiency retrofits and leverages private capital to reduce the energy transition burden on public funds.

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.




¹⁰ 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:

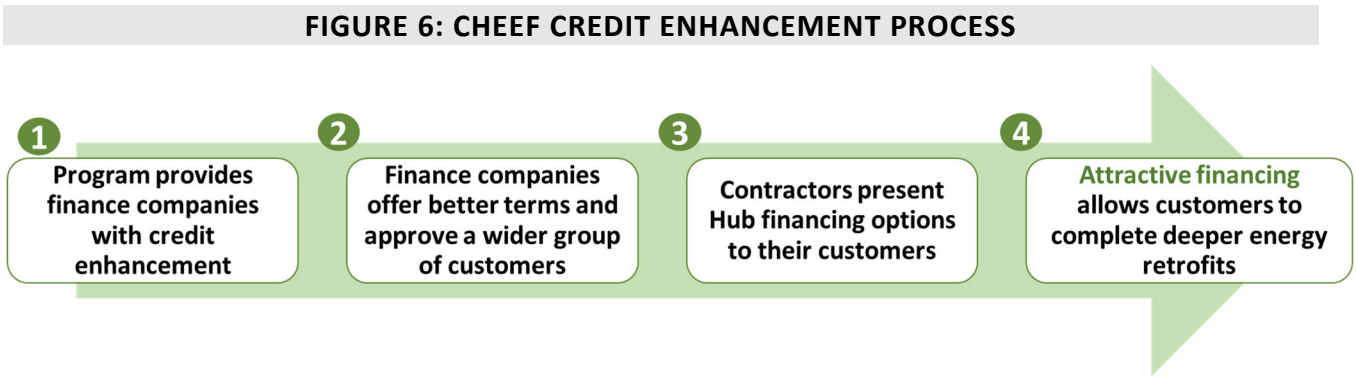
- **GoGreen Home Energy Financing** (formerly the Residential Energy Efficiency Loan Assistance Program, or REEL), which provides financing for energy efficiency upgrades in residential properties for owners and renters of single-family homes, townhomes, condominiums, and mobile and manufactured homes
- **GoGreen Business Energy Financing** (formerly the Small Business Energy Efficiency Financing Program, or SBF), which provides financing for energy efficiency upgrades in commercial businesses, nonprofits, and market-rate multifamily properties 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

<div style="text-align: center; margin-bottom: 10px;">  <p>GoGreen Home</p> </div> <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: 3.98%-10.00% • Standard loans and appliance microloans available 	<div style="text-align: center; margin-bottom: 10px;">  <p>GoGreen Business</p> </div> <p>Customers: Small businesses, nonprofits, and market-rate multifamily properties</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 	<div style="text-align: center; margin-bottom: 10px;">  <p>GoGreen Multifamily</p> </div> <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
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Interest rates cited for GoGreen Home are as of 3/2/24

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 dual-language (English and Spanish) 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 eligible • Financing not secured by the property





California Hub for Energy Efficiency Financing (CHEEF) Programs

Market Barrier	The CHEEF's Solution
Complex (and sometimes slow) rebate and incentive process	<ul style="list-style-type: none"> • Projects do not 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
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
Limited options for affordable energy upgrade financing	<ul style="list-style-type: none"> • Program addresses common barriers of private capital providers (who may be hesitant to enter into the clean energy financing space, or may have more restrictive underwriting requirements due to concerns related to the risks and uncertainties of lending for energy efficiency projects) by providing structure, vetting contractors and measures, and reducing loss risk.

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.

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

2023 marked a notable period of growth for the GoGreen Financing programs. GoGreen Home saw exceptional program activity as well as expansion into new markets, while GoGreen Business enrollments accelerated sharply. In both cases the programs benefited from key modifications made by CAEATFA in previous years.

Building on authorization from the CPUC to seek non-IOU ratepayer funding for the program (D. 21-08-006), CAEATFA signed an agreement with the City of Palo Alto Utilities (CPAU) to provide funding for GoGreen Home credit enhancements. While CPAU serves a modest geographic area, it is the first non-IOU utility to join the program and therefore represents a potential growth area for the program. (CAEATFA’s first agreement for non-IOU funding, in 2022, was with the TECH Clean California Initiative to support the financing of heat pump technologies and other electric efficiency measures for IOU gas customers who receive electricity from a publicly owned utility, or POU.)

Amid a year of accelerating activity for GoGreen Home and a continued low rate of charge-offs, CAEATFA took measures to maximize the funding available for credit enhancements by modifying the loan loss reserve contribution structure, with lender support. By reducing the contribution for lower-risk loans while continuing to offer robust contributions for higher-risk loans, staff projects the new structure, slated to take effect Jan. 1, 2024, will result in a lower average LLR contribution of 8% compared with the current average of 15%. This change, along with a new annual rebalancing methodology, will allow GoGreen Home to recycle and deploy credit enhancement dollars more efficiently and for more loans in the future, thereby stretching its impact.

In 2023, one GoGreen Home-enrolled credit union suspended participation in the program and one credit union joined; at year’s end borrowers could choose from eight lenders offering the standard GoGreen Home loan product. Additionally, Lewis & Clark Bank enrolled in the program and, with its channel partner Enervee, resumed offering financing for energy efficient appliances at purchase check-out in Enervee’s Eco Financing online marketplace.

California Hub for Energy Efficiency Financing (CHEEF) Programs

GoGreen Business enrollments doubled compared with last year thanks in large part to an interest rate buy-down (IRBD) promotion launched by CAEATFA staff in spring 2023 following program modifications made the previous year.

In August, CAEATFA welcomed Decision D.23-08-026 from the CPUC authorizing expansion of the programs to offer financing for comprehensive clean energy technologies such as EV charging and solar combined with battery storage. In the same decision the commissioners declined to reauthorize the Nonresidential program, which would have allowed CAEATFA to serve large commercial properties and the municipal, university, schools and hospitals (MUSH) sector with access to financing using the on-bill repayment (OBR) feature developed for GoGreen Business.

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. As loans are paid off, their credit enhancement contributions are "rebalanced" back to GoGreen Home for deployment on future loans.

From program inception through December 2023, GoGreen Home lenders received a credit enhancement of 11% of the claim eligible amount, or 20% if the borrower is considered underserved. (See previous section for a summary of changes to this structure set to take effect Jan. 1, 2024.) 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 (<\$5,000) is reported on page 21. The data in the section below only includes standard loans enrolled through one of GoGreen Home's credit union lenders.

In 2023, the GoGreen Home Program experienced unprecedented growth, enrolling more than \$44 million in loans, nearly half the all-time program total of \$93 million. This year's activity represented a 95% increase in the number of loans and a 116% increase in the dollar amount financed compared with 2022. Loans enrolled in GoGreen Home since program inception in 2016 totaled 4,923 by the end of 2023. For every \$1 of credit enhancement funds allocated, \$6.26 in private capital has been leveraged through GoGreen Home.

California Hub for Energy Efficiency Financing (CHEEF) Programs

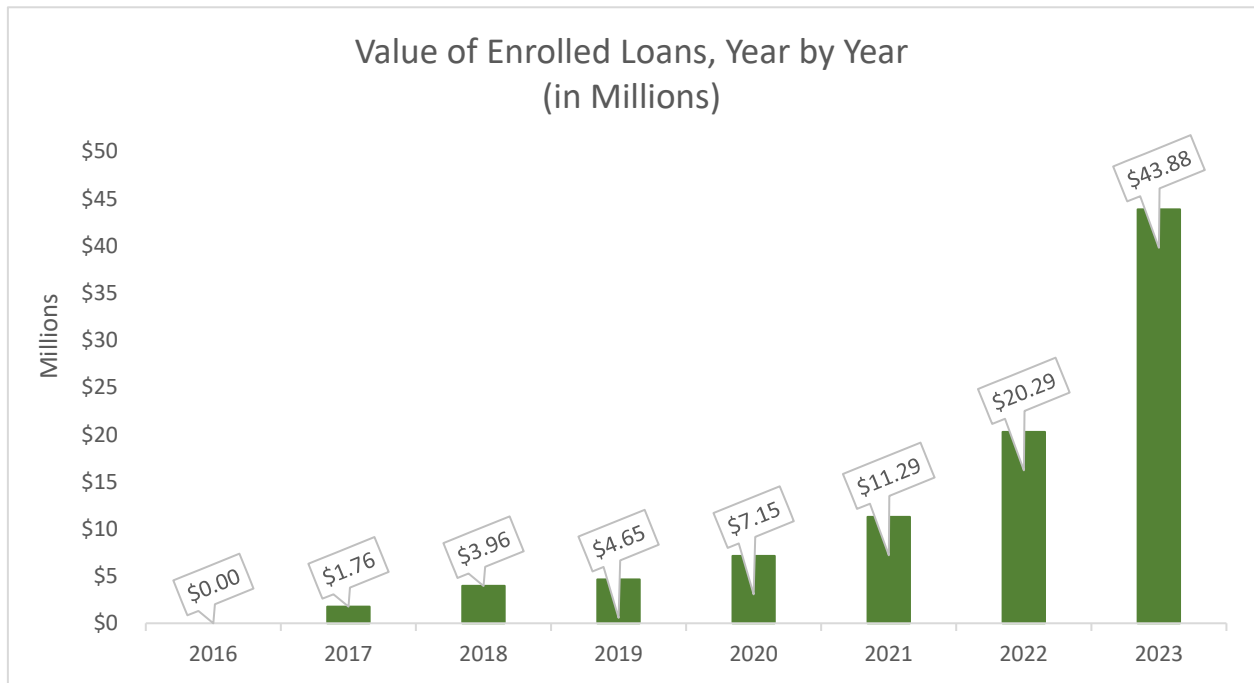
The most commonly installed energy efficiency measures in 2023 were, in order, HVAC equipment, cool roofs, windows, HVAC ductwork, and insulation. The number of decarbonization projects financed through GoGreen Home rose significantly, with 592 projects enrolled over the course of the year compared with 249 in 2022 (a 138% increase). The average size of a GoGreen Home loan in 2023 was \$20,670, 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.

As of year’s end, eight credit union lenders are offering financing through the program, and borrowers can choose from 850 participating contractors across the state to install their GoGreen Home project.

Over the course of 2023, 27 total loans were charged off, bringing to 65 the total number of charge-offs since program inception (1.32% of all loans enrolled). These loans have resulted in \$613,633 in net credit enhancement funds being expended to cover a share of the lenders’ losses.¹¹

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.

Over 60% (61% of total) loans enrolled and 59% of dollars financed in 2023 were made to upgrade properties in LMI census tracts. Of those loans:

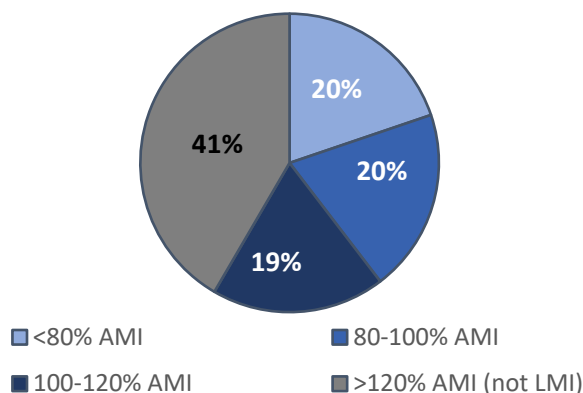
¹¹ Net credit enhancement funds expended is calculated as Claims Paid less Recoveries.

California Hub for Energy Efficiency Financing (CHEEF) Programs

- 19% of property upgrades were made in census tracts with an average income <80% of the Area Median Income (AMI);
- 23% 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.

One-tenth (10%) of loans made in 2023 were to upgrade properties in Disadvantaged Communities as measured by CalEnviroScreen¹². Since Program inception, 13% of GoGreen Home loans have been made to upgrade properties in Disadvantaged Communities per CalEnviroScreen score, and 58% 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. In 2023, TECH funds helped credit enhance 315 loans worth \$7,057,432; these included installation of 150 pieces of equipment that use heat pump technology. Of the 315 loans utilizing TECH funding, 245 loans totaling \$5,257,492 were credit-enhanced by TECH funds alone, meaning they could not have been financed through GoGreen Home otherwise. In 2023, noting a high number of cool roofs – which are not a decarbonization measure – being financed in POU territories, CAEATFA staff eliminated eligibility for these projects in POU territories in a bid to preserve funds for true decarbonization measures.

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

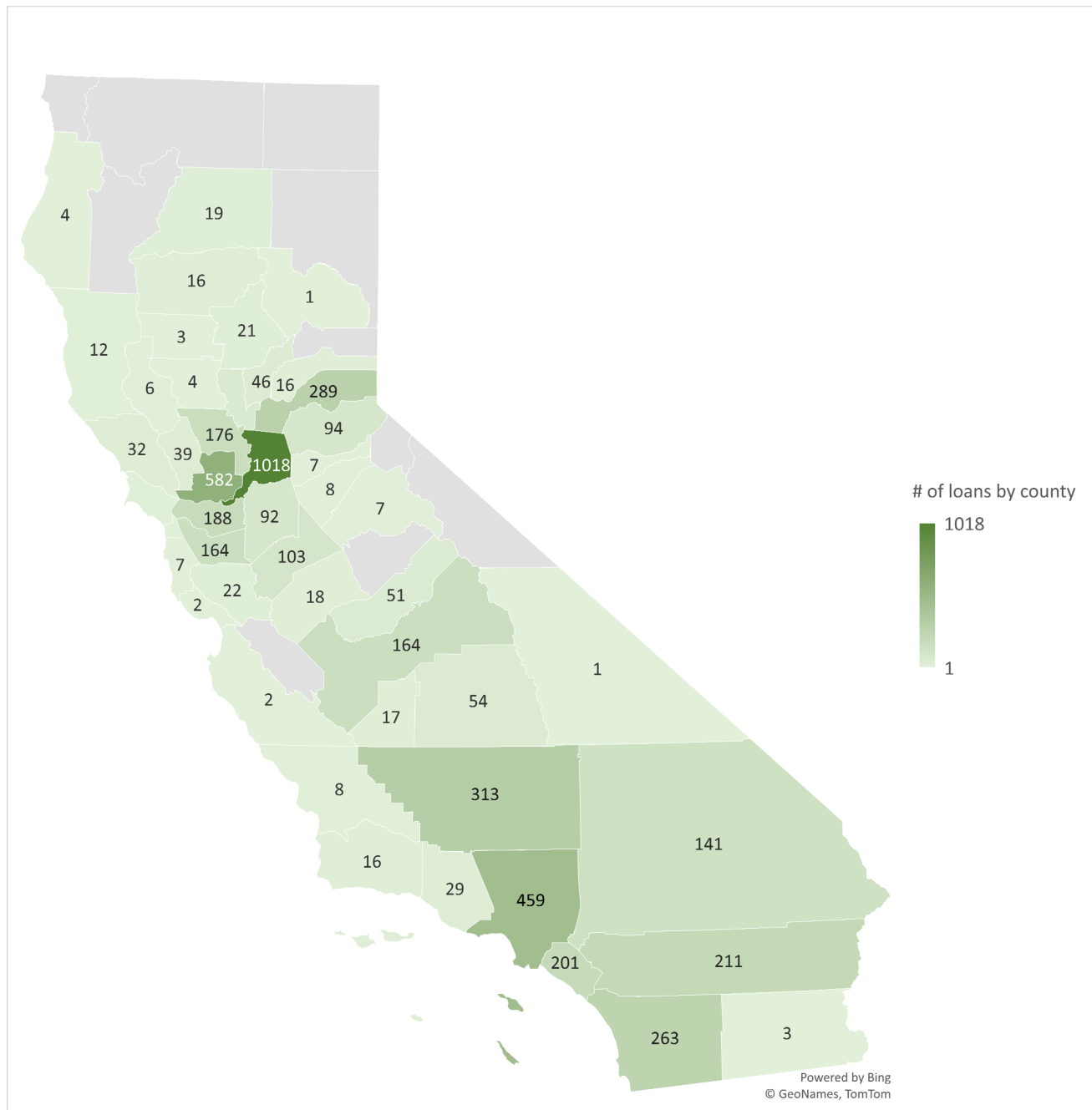
¹² (<https://oehha.ca.gov/calenviroscreen>) Figures in this report are for borrowers in the top quartile of pollution-burdened census tracts.

California Hub for Energy Efficiency Financing (CHEEF) Programs

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 2023.

FIGURE 9: GOGREEN HOME LOANS ENROLLED BY COUNTY



Microloans Now Available through GoGreen Home

Marketplace microloans bring GoGreen Home’s attractive financing to online point-of-purchase sales of energy efficient appliances on select utility marketplaces. Offered by appliance marketplace provider Enervee and backed by the GoGreen Home credit enhancement, Enervee’s Eco Financing

California Hub for Energy Efficiency Financing (CHEEF) Programs

product launched on the Southern California Gas Marketplace in August 2021 and was paused in June 2022 to allow Enervee to onboard a new lender.

In June 2023, following a yearlong hiatus, Enervee resumed microloan enrollments with a new lender, Lewis and Clark Bank, offering Eco Financing on the SoCalGas Marketplace. Later in the year Eco Financing became available to electricity customers of PG&E, San Diego Gas & Electric and Southern California Edison.

By year's end, the GoGreen Home credit enhancement had facilitated financing for 463 microloans; the average loan size was \$1,615 for a total of \$747,928. The total financed microloans since program inception in August 2021 is 959 microloans, with an average loan size of \$1,537 for a grand total of \$1,473,507. Of the microloans financed through the program, 154 have been charged off and 119 have been paid in full; 686 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 2024 will include:

- Incorporating the ability to finance comprehensive clean energy technologies, such as solar and battery storage, into GoGreen Home regulations, recruiting contractors, training lenders on program processes to offer these technologies, and informing consumers about their availability
- 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

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)

California Hub for Energy Efficiency Financing (CHEEF) Programs

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

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 that do not 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.

California Hub for Energy Efficiency Financing (CHEEF) Programs

- 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.

Program Activity in 2023

New financing activity for GoGreen Business remained modest in 2023 but grew sharply compared with previous years. Nineteen new projects — nearly double the previous year’s total — worth a combined financed amount of \$1,673,324 were enrolled in the program. The borrowers, representing a range of industries, included a grocery store, retail with storefront, office space, a bakery, an organic foods processor, laundromats and a church. The new enrollments brought the total number of financing agreements enrolled since program inception to 39 and the total amount financed to \$4,038,626.

Enrollments were aided by the launch of an interest rate buy-down (IRBD) promotion in April. Modeled after a pilot promotion undertaken in 2021 and 2022, the IRBD sets aside up to \$10,000 per project to facilitate lower interest rates through participating lenders; in some cases, rates are reduced to 0%. As staff hoped, the IRBD has galvanized program activity and activated a cohort of contractors who previously were not using the program: nearly half of the projects enrolled in 2023 took advantage of the IRBD. The IRBD is the result of extensive planning; in 2022 CAEATFA received authorization from the CPUC to spend up to \$1.35 million on IRBD promotions across all three programs through June 30, 2027. Staff expects to renew the GoGreen Business promotion in July 2024.

Staff continued to work with PG&E to launch On-Bill Repayment (OBR) functionality and now expects OBR to go live in this service area in 2024. OBR is currently operational in Southern California Gas, Southern California Edison and San Diego Gas & Electric service areas.

Eight participating finance companies offer financing through the program. One hundred and fifty contractors and project developers were enrolled in GoGreen Business at the end of 2023.

Next Steps

In addition to expanding GoGreen Business offerings to include EV charging, rooftop solar in combination with battery storage, and other comprehensive clean energy measures CAEATFA will continue working on outreach to finance companies, project developers and contractors in an effort to establish momentum for GoGreen Business. Efforts planned for 2024 include:

- Incorporating the ability to finance comprehensive clean energy technologies into GoGreen Business regulations, recruiting contractors and project developers, training finance companies on program processes to offer these technologies, and informing consumers about their availability

California Hub for Energy Efficiency Financing (CHEEF) Programs

- Implementation of OBR functionality in PG&E territory
- Launch of a microloan financing product for projects up to \$5,000 in Southern California
- Continued contractor recruitment and engagement efforts to bolster the program's contractor network

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

California Hub for Energy Efficiency Financing (CHEEF) Programs

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 2023, 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.

Simultaneously, staff began taking steps to fold the GoGreen Multifamily program into GoGreen Business in order to streamline regulations, processes and program tracking and to facilitate marketing to both market-rate and affordable properties. As an early step, staff established that three additional GoGreen Business finance companies are willing to finance affordable property upgrades, bringing to five the number of potential lenders for affordable properties.

Next Steps

In 2024 CAEATFA staff plans to fully incorporate affordable multifamily financing into the GoGreen Business regulations and programmatic offerings. Staff will also continue outreach to affordable multifamily stakeholders.

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. In August the CPUC issued D.23-08-026 declining to reauthorize the Nonresidential program.

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

California Hub for Energy Efficiency Financing (CHEEF) Programs

In 2024, CAEATFA staff will continue working with Pacific Gas & Electric to operationalize its OBR platform.

Outreach

Consumer outreach – In 2023, the new Statewide Marketing Implementer, Riester, launched a dual-language (English and Spanish) GoGreen Financing marketing campaign of a size and scope unprecedented in the program’s history. Using assets created by Studio Jeremyville, whose client roster includes Adidas, Disney and Lululemon, Riester established a whimsical, upbeat look and feel coupled with simplified messaging for a wide-ranging bilingual campaign featuring video, paid and organic social media, programmatic digital placement, and search. The campaign was anchored by an audio component, with bilingual advertisements airing on I Heart Media stations across the state and interviews with GoGreen Financing representatives airing in select markets. Riester also provided public relations support in the form of press releases and content provided for media outlets, and arranged a prerecorded GoGreen Financing television segment for a popular local morning show.

Just as importantly, Riester refreshed the GoGreenFinancing.com website with the new creative assets and a streamlined customer journey. 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 rose sharply in 2023 by the top-of-funnel techniques employed during the campaign, with some 744,000 visits to the site and more than 14,000 outbound clicks, including to lenders, who reported receiving 4,557 applications in 2023 compared with 2,338 in 2022.

Contractor Outreach – Outreach to new and already enrolled GoGreen Home and GoGreen Business contractors continued in 2023 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 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 2023, borrowers could choose from 850 GoGreen Home contractors and 150 GoGreen Business contractors and project developers.

IOU Customer Outreach – Using new dual-language (English and Spanish) videos and other creative assets provided by the Statewide Marketing Implementer, the IOUs engaged in several marketing campaigns through their regional channels, including organic and paid social media, newsletters, and digital advertising.

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 was 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, 2023, 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 (* denotes an active 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

Property Assessed Clean Energy (PACE) Loss Reserve Program

Enrollment Year	PACE Program (* denotes an active PACE Program)
2018	<ul style="list-style-type: none">• PACE Funding (WRCOG)
2019	<ul style="list-style-type: none">• PACE Funding (LA County)• CaliforniaFIRST (WRCOG)
2020	<ul style="list-style-type: none">• FortiFi Financial (CSCDA)*

Report on 2023 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 86,461 PACE financings with a total outstanding principal value of approximately \$2.2 billion.

In 2023, CAEATFA enrolled 2,373 new PACE financings with a total principal value of \$102,304,684.55.

A chart of all Program enrollment activity as of December 31, 2023, can be found in Appendix C.

Claims

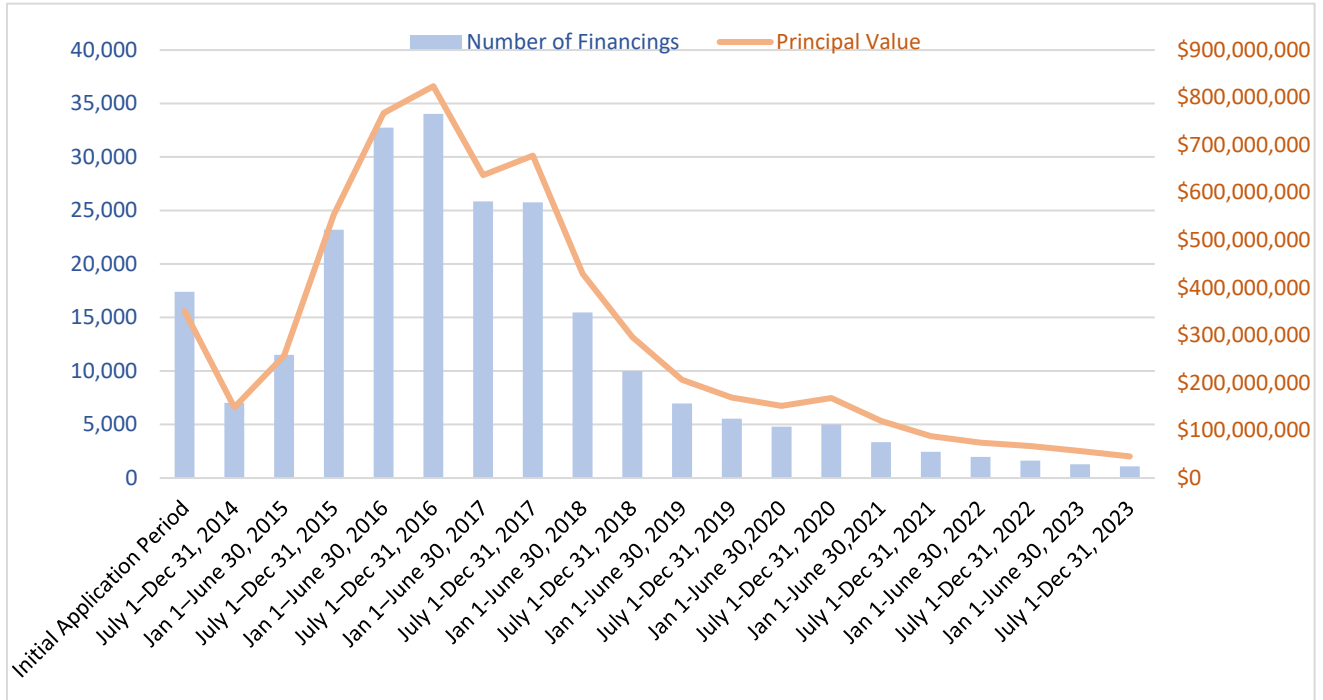
In 2021, CAEATFA received two claims from enrolled PACE programs for a total of \$11,585.31, which were paid to the first mortgage lenders pursuant to program regulations. There were no claims in 2022. In 2023, CAEATFA received and paid four claims for a total of \$392,024.49. The remaining Loss Reserve balance is \$9,596,390.20.

Property Assessed Clean Energy (PACE) Loss Reserve Program

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



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.

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 ¹³	Date Reported
mPOWER Placer	23,598,985 kWh saved annually 4,365.8 MTCO2 saved annually	June 30, 2023

¹³ 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 Financings¹³	Date Reported
mPOWER Folsom	556,453 kWh saved annually 102.9 MTCO2 saved annually	June 30, 2023
Berkeley FIRST	54,408 kWh annually	June 30, 2023
Sonoma County Energy Independence Program	27,150,562 kWh over lifetime 144,336 MTCO2 over lifetime 136,724 therms over lifetime	June 30, 2023
CaliforniaFIRST	69,962,083 kWh generated annually 32,639,345 kWh saved annually 2,378,688 therms saved annually 83,404,602 gal saved annually	June 30, 2023
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
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, 2023
Ygrene Works Program	63.79 MW generated over lifetime 3,301,865,234 kWh saved over lifetime 1,119,329 MTCO2 saved over lifetime 4,056,400,263 gal water saved over lifetime 40,225,119 ccf natural gas saved over lifetime	June 30, 2023
Home Run Financing CSCDA (formerly PACE Funding CSCDA)	29,068,998 kWh generated annually 1,849,766 kWh saved annually 204,060 therms saved annually 30,254,000 gal saved annually	June 30, 2023
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

Property Assessed Clean Energy (PACE) Loss Reserve Program

Program Name	Estimated Environmental Savings from Enrolled Financings¹³	Date Reported
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, 2023
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, 2023
FortiFi Financial (CSCDA)	535,905,324 kWh generated over lifetime 578,721,643 kWh saved over lifetime 115,710 MTCO2 saved over lifetime 588,132 therms saved annually 742,616,103 gal saved over lifetime	June 30, 2023

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 2023.

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 during 2023, amounting to a combined total¹⁴ of \$1,836,938 in bond debt as of December 31, 2023.

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 ¹⁵	12/15/2023	\$20,000,000	\$0
11/18/2010	Fallbrook Public Utility District Solar Project Series	QECB ¹⁶	11/18/2027	\$7,227,000	\$1,836,938

TOTAL: \$27,227,000 \$1,836,938

¹⁴ Caltrans Projects Series 2009 CREB final maturity date was December 15, 2023.

¹⁵ Clean Renewable Energy Bond

¹⁶ Qualified Energy Conservation Bond

REPORT OF AUTHORITY'S FINANCES

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

Revenues and Expenditures – FY 2022-23

The Authority's total revenues for fiscal year 2022-23 were \$2,410,377 and the total expenditures were \$4,686,000.

TABLE 9: REVENUES AND EXPENDITURES - FY 2022-23

Total Revenues ¹⁷ :	\$2,410,377
Expenditures:	
Salaries and Wages	\$1,820,000
Staff Benefits	\$1,002,000
Operating Expenses and Equipment	\$1,864,000
Total Expenditures ¹⁸	\$4,686,000

Projected Needs and Requirements – FY 2023-24; FY 2024-25

The Authority anticipates it has the financial needs and requirements identified in Table 10 for the 2023-24 and 2024-25 fiscal years.

TABLE 10: PROJECTED NEEDS AND REQUIREMENTS¹⁹ – FY 2023-24; FY 2024-25

	FY 2023-24	FY 2024-25
Total Salaries and Wages	\$3,579,000	\$3,583,000
Staff Benefits	\$1,243,000	\$1,253,000
Total Operating Expenses and Equipment	\$3,603,000	\$3,497,000
Total Projected Needs and Requirements	\$8,425,000	\$8,333,000

¹⁷ 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.

¹⁸ Total expenditures include expenditures associated with all of CAEATFA's programs, including the administration of the CHEEF.

¹⁹ The values in this Section are as reported in the [Governor's Proposed Budget for the 2024-25 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-SM004	2016	1/19/2016	rPlanet Earth, LLC	Vernon	Los Angeles	Advanced Manufacturing	Plastic Recycling	\$119,800,000.00	\$10,087,160.00	\$8,017,740.13	\$95,496,122.78	80%	N/A	\$34,955,481	\$24,868,321	625	59	Active
2	17-SM049	2017	6/20/2017	Circular Polymers LLC	Lincoln	Placer	Advanced Manufacturing	Advanced Carpet Recycling	\$7,548,500.00	\$635,584.00	\$375,420.76	\$4,471,982.72	59%	N/A	\$1,177,470	\$541,886	78	6	Active
3	17-SM052	2017	7/18/2017	Sanitation Districts of Los Angeles County	Whittier; Carson	Los Angeles	Alternative Source	Biomass Processing and Fuel Production	\$11,928,310.00	\$1,004,363.70	\$836,215.33	\$9,981,753.47	84%	\$95,175	\$2,099,961	\$1,190,772	41	4	Active
4	17-SM061	2017	11/14/2017	Ontario CNG Station, Inc.	Ontario	San Bernardino	Alternative Source	Renewable Hydrogen Production	\$2,000,000.00	\$168,400.00	\$153,833.40	\$1,827,000.00	91%	\$3,715	\$260,821	\$96,136	13	2	Active
5	17-SM062	2017	11/14/2017	Trademark Brewing, LLC	Long Beach	Los Angeles	Advanced Manufacturing	Beverage Production	\$1,854,741.00	\$156,169.19	\$90,848.55	\$1,086,132.28	59%	N/A	\$808,675	\$652,506	50	4	Active
6	18-SM002	2018	1/16/2018	IF CoPack, LLC, dba Initiative Foods	Sanger	Fresno	Advanced Manufacturing	Advanced Food Production	\$17,115,645.00	\$1,430,868.00	\$765,755.67	\$9,157,104.87	54%	N/A	\$3,266,279	\$1,835,411	113	11	Active
7	18-SM018	2018	6/19/2018	WET	Sun Valley	Los Angeles	Advanced Manufacturing	Water Feature Manufacturing	\$4,927,301.00	\$411,922.00	\$306,941.28	\$3,657,111.65	74%	N/A	\$873,330	\$461,408	280	5	Active
8	18-SM026	2018	10/16/2018	CalBioGas Kern LLC	Bakersfield	Kern	Alternative Source	Dairy Biogas Production	\$31,909,025.00	\$2,667,595.00	\$1,540,988.39	\$18,412,719.73	58%	\$359,810	\$6,333,623	\$4,025,838	100	8	Active
9	18-SM028	2018	10/16/2018	CalBioGas West Visalia LLC	Tulare	Tulare	Alternative Source	Dairy Biogas Production	\$22,172,277.00	\$1,853,602.00	\$1,009,196.81	\$12,058,254.44	54%	\$202,638	\$3,655,350	\$2,004,386	71	6	Active
10	19-SM006	2019	2/19/2019	Intuitive Surgical, Inc. and its Subsidiary, Intuitive Surgical Operations, Inc.	Sunnyvale	Santa Clara	Advanced Manufacturing	Advanced Robotic Surgical Systems and Tools	\$96,875,430.00	\$8,098,786.00	\$6,329,770.95	\$75,508,355.16	78%	N/A	\$13,591,326	\$5,492,540	1,272	33	Active
11	19-SM027	2019	6/18/2019	Joby Aero, Inc.	Marina	Monterey	Advanced Transportation	Electric Vertical Take-Off and Landing (eVTOL) Aircraft Manufacturing	\$73,473,675.00	\$6,142,399.00	\$4,753,751.83	\$56,309,538.51	77%	\$151,181	\$31,297,045	\$25,305,827	1,457	85	Active
12	19-SM030	2019	6/18/2019	Sioneer Stockton, LLC	Stockton	San Joaquin	Recycled Resource Extraction	Glass Recycling and Pozzolan Manufacturing	\$15,370,837.00	\$1,285,002.00	\$353,845.77	\$4,221,941.78	27%	\$231,501	\$1,672,361	\$618,859	28	4	Active
13	20-SM003	2020	1/21/2020	East Valley Water District	Highland	San Bernardino	Alternative Source	Biogas Capture and Production	\$60,328,000.00	\$5,043,421.00	\$4,212,393.05	\$50,103,733.38	83%	\$729,069	\$7,918,079	\$3,603,727	79	12	Active
14	20-SM005	2020	1/21/2020	Merced Pipeline LLC	Merced	Merced	Alternative Source	Dairy Biogas Production	\$31,922,542.00	\$2,668,725.00	\$2,374,522.67	\$28,221,259.96	88%	\$437,234	\$7,835,465	\$5,603,974	73	5	Active
15	20-SM006	2020	1/21/2020	Five Points Pipeline LLC	Riverdale	Fresno	Alternative Source	Dairy Biogas Production	\$15,017,114.00	\$1,255,431.00	\$1,084,128.09	\$12,885,222.88	86%	\$213,374	\$3,816,474	\$2,774,417	33	2	Active
16	20-SM009	2020	3/17/2020	GCE Holdings Acquisitions, LLC	Bakersfield	Kern	Alternative Source	Renewable Diesel Production	\$119,617,224.00	\$10,000,000.00	\$10,126,467.02	\$119,504,630.62	100%	\$3,361,461	\$17,223,213	\$10,584,674	161	12	Active
17	20-SM010	2020	3/17/2020	Tandem Diabetes Care, Inc.	San Diego	San Diego	Advanced Manufacturing	Insulin Pumps and Related Products Manufacturing	\$60,000,000.00	\$5,016,000.00	\$1,358,421.91	\$16,078,788.21	27%	N/A	\$5,767,662	\$751,662	676	34	Active
18	20-SM013	2020	3/17/2020	Zanker Road Resource Management, LLC	Gilroy	Santa Clara	Recycled Resource Extraction	Mixed Organics	\$24,395,182.00	\$2,039,437.00	\$0.00	\$0.00	0%	\$64,373	\$7,133,532	\$5,158,468	70	6	Active
19	20-SM015	2020	3/17/2020	Lockheed Martin Corporation	Palmdale	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$119,617,224.00	\$10,000,000.00	\$6,185,866.79	\$73,228,211.74	61%	N/A	\$20,464,377	\$10,464,377	2,830	80	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	
20	20-SM016	2020	3/17/2020	Inland Empire Utilities Agency	Chino	San Bernardino	Alternative Source	Wastewater and Food Waste Biogas Capture and Production	\$76,377,224.00	\$6,385,136.00	\$5,120,164.45	\$60,904,410.43	80%	\$127,703	\$9,416,157	\$3,158,724	323	57	Active
21	20-SM018	2020	3/17/2020	Hat Creek Bioenergy, LLC	Burney	Shasta	Alternative Source	Biomass Processing and Fuel Production	\$12,680,000.00	\$1,060,048.00	\$842,901.12	\$10,015,376.64	79%	\$897,448	\$2,061,725	\$1,899,124	15	2	Active
22	20-SM020	2020	3/17/2020	Bar 20 Dairy Biogas, LLC	Kerman	Fresno	Alternative Source	Dairy Biogas Production	\$9,573,170.00	\$800,317.00	\$532,267.88	\$6,304,004.86	66%	\$94,401	\$1,358,931	\$653,015	70	7	Active
23	20-SM022	2020	3/17/2020	CalBioGas South Tulare LLC	Tulare	Tulare	Alternative Source	Dairy Biogas Production	\$52,471,257.00	\$4,386,597.00	\$2,376,692.62	\$28,306,850.12	54%	\$585,588	\$13,489,899	\$9,688,890	243	20	Active
24	20-SM023	2020	3/17/2020	CalBioGas North Visalia LLC	Visalia	Tulare	Alternative Source	Dairy Biogas Production	\$37,529,013.00	\$3,137,425.00	\$1,580,326.47	\$18,801,557.54	50%	\$340,070	\$8,030,185	\$5,232,829	184	16	Active
25	20-SM024	2020	3/17/2020	CalBioGas Buttonwillow LLC	Buttonwillow	Kern	Alternative Source	Dairy Biogas Production	\$21,123,032.00	\$1,765,885.00	\$803,470.88	\$9,479,948.58	45%	\$191,126	\$4,508,054	\$2,933,294	110	9	Active
26	20-SM027	2020	3/17/2020	Intuitive Surgical, Inc. and its Subsidiary, Intuitive Surgical Operations, Inc.	Sunnyvale	Santa Clara	Advanced Manufacturing	Advanced Robotic Surgical Systems and Tools	\$82,500,000.00	\$6,897,000.00	\$3,728,771.29	\$44,066,440.37	53%	N/A	\$20,416,918	\$13,519,918	2,064	56	Active
27	21-SM003	2021	3/16/2021	Recology Sonoma Marin	Santa Rosa	Sonoma	Recycled Resource Extraction	Mixed Recycling	\$15,266,032.00	\$1,297,613.00	\$1,232,407.74	\$14,498,914.60	95%	\$140,202	\$1,514,673	\$357,263	77	9	Active
28	21-SM004	2021	3/16/2021	Blue Line Transfer, Inc.	South San Francisco	San Mateo	Recycled Resource Extraction	Mixed Recycling	\$5,500,000.00	\$467,500.00	\$419,468.82	\$4,952,217.51	90%	\$61,252	\$1,894,035	\$1,487,787	36	4	Active
29	21-SM008	2021	3/16/2021	Aemetis Biogas, LLC	Crows Landing	Stanislaus	Alternative Source	Dairy Biogas Production	\$13,561,890.00	\$1,152,761.00	\$789,330.95	\$9,300,728.99	69%	\$1,237,725	\$6,228,632	\$6,313,597	31	2	Active
30	21-SM009	2021	3/16/2021	MSBG Partners, LLC	Goleta	Santa Barbara	Alternative Source	Landfill Gas to Renewable Natural Gas Production	\$11,252,500.00	\$956,463.00	\$0.00	\$0.00	0%	\$736,177	\$2,189,741	\$1,969,455	12	1	Active
31	21-SM011	2021	3/16/2021	Rocket Lab USA, Inc.	Long Beach	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$6,443,921.00	\$547,733.00	\$157,345.08	\$1,851,118.54	29%	N/A	\$2,213,498	\$1,665,765	55	3	Active
32	21-SM013	2021	3/16/2021	Applied Materials, Inc.	Santa Clara; Sunnyvale	Santa Clara	Advanced Manufacturing	Semiconductor and Related Industries Fabrication Equipment Manufacturing	\$23,225,000.00	\$1,974,125.00	\$1,869,798.23	\$21,997,626.18	95%	N/A	\$6,657,625	\$4,683,500	3,599	22	Active
33	21-SM020	2021	3/16/2021	Ameresco Forward RNG, LLC	Manteca	San Joaquin	Alternative Source	Landfill Gas to Renewable Natural Gas Production	\$26,374,850.00	\$2,241,862.00	\$517,766.67	\$6,092,957.58	23%	\$3,084,347	\$6,041,020	\$6,883,505	31	3	Active
34	21-SM022	2021	3/16/2021	Ameresco Chiquita RNG, LLC	Castaic	Los Angeles	Alternative Source	Landfill Gas to Renewable Natural Gas Production	\$27,722,495.00	\$2,356,412.00	\$0.00	\$0.00	0%	\$3,244,711	\$6,300,673	\$7,188,972	31	3	Active
35	21-SM023	2021	3/16/2021	HZI Lancaster, LLC	Lancaster	Los Angeles	Alternative Source	Biogas Capture and Production	\$27,231,400.00	\$2,314,669.00	\$0.00	\$0.00	0%	\$1,678,109	\$5,215,414	\$4,578,854	63	6	Active
36	21-SM025	2021	3/16/2021	Applied Medical Resources Corporation	Rancho Santa Margarita	Orange	Advanced Manufacturing	Medical Device Manufacturing	\$150,547,889.00	\$12,796,571.00	\$10,326,588.35	\$121,704,443.65	81%	N/A	\$29,076,792	\$16,280,222	5,608	300	Active
37	21-SM026	2021	3/16/2021	Cepheid	Lodi; Sunnyvale; Newark	San Joaquin; Santa Clara; Alameda	Advanced Manufacturing	Medical Device Manufacturing	\$209,750,000.00	\$17,828,750.00	\$6,780,069.09	\$79,943,358.47	38%	N/A	\$20,528,309	\$2,699,559	3,435	182	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-SM027	2021	3/16/2021	Pacesetter, Inc	Sylmar	Los Angeles	Advanced Manufacturing	Medical Device Manufacturing	\$34,950,000.00	\$2,970,750.00	\$692,815.31	\$8,160,078.19	23%	N/A	\$2,656,610	-\$314,140	1,063	30	Active
39	21-SM028	2021	3/16/2021	Brightmark Vlot RNG LLC	Chowchilla	Madera	Alternative Source	Dairy Biogas Production	\$29,698,976.00	\$2,524,413.00	\$2,167,000.50	\$25,505,552.02	86%	\$1,496,092	\$6,589,610	\$5,561,289	96	9	Active
40	21-SM029	2021	3/16/2021	DexCom, Inc.	San Diego	San Diego	Advanced Manufacturing	Medical Device Manufacturing	\$69,450,000.00	\$5,903,250.00	\$1,159,059.10	\$13,635,989.41	20%	N/A	\$20,125,937	\$14,222,687	2,815	123	Active
41	21-SM033	2021	5/18/2021	Enovix Corporation	Fremont	Alameda	Advanced Manufacturing	Lithium Ion Batteries	\$49,075,888.00	\$4,171,450.00	\$3,703,253.82	\$43,602,542.93	89%	N/A	\$6,749,817	\$2,578,366	169	13	Active
42	22-SM001	2022	6/21/2022	Blue Mountain Electric Company LLC	Wilseyville	Calaveras	Alternative Source	Biomass Processing and Fuel Production	\$17,030,696.00	\$1,447,609.00	\$0.00	\$0.00	0%	\$2,938,804	\$1,719,760	\$3,210,955	38	6	Active
43	22-SM003	2022	6/21/2022	Best Express Foods, Inc.	Stockton	San Joaquin	Advanced Manufacturing	Advanced Food Production	\$6,795,730.00	\$577,637.00	\$250,879.87	\$2,955,398.50	43%	N/A	\$4,096,277	\$3,518,640	75	5	Active
44	22-SM010	2022	6/21/2022	QuantumScape Battery, Inc.	San Jose	Santa Clara	Advanced Manufacturing	Lithium Battery Cell Manufacturing	\$114,844,599.00	\$9,761,791.00	\$761,365.10	\$8,983,610.80	8%	N/A	\$59,767,963	\$50,006,172	610	596	Active
45	22-SM013	2022	8/16/2022	West Coast Waste Co., Inc.	Fresno	Fresno	Alternative Source	Biomass Processing and Fuel Production	\$72,555,098.32	\$6,167,183.00	\$329,709.03	\$3,907,231.16	5%	\$11,854,892	\$7,674,817	\$13,362,525	132	19	Active
46	22-SM014	2022	6/21/2022	Sugar Valley Energy, LLC	Brawley	Imperial	Advanced Manufacturing	Biomass Processing and Fuel Production	\$117,647,058.82	\$10,000,000.00	\$0.00	\$0.00	0%	N/A	\$35,469,579	\$25,469,579	421	39	Active
47	22-SM016	2022	12/13/2022	EnergySource Minerals LLC and its subsidiary, ESM ATLiS LLC	Calipatria	Imperial	Advanced Manufacturing	Lithium Recovery and Processing	\$176,740,588.24	\$15,000,000.00	\$0.00	\$0.00	0%	N/A	\$24,395,897	\$9,395,897	332	61	Active
48	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	\$188,422,290.00	\$16,015,895.00	\$0.00	\$0.00	0%	\$9,631,034	\$21,719,219	\$15,334,358	602	77	Active
49	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	\$21,434,530.00	\$1,821,935.00	\$314,069.35	\$3,742,766.42	17%	\$138,939	\$1,836,944	\$153,948	47	6	Active
50	22-SM021	2022	6/21/2022	Swift Solar, Inc.	San Carlos	San Mateo	Advanced Manufacturing	Solar Photovoltaic Manufacturing	\$8,490,000.00	\$721,650.00	\$38,833.52	\$457,922.21	5%	N/A	\$671,440	-\$50,210	72	6	Active
51	22-SM023	2022	6/21/2022	Aemetis Advanced Fuels Keyes, Inc.	Ceres	Stanislaus	Alternative Source	Ethanol Production	\$22,703,169.00	\$1,929,769.00	\$469,850.62	\$5,527,654.30	24%	\$2,539,767	\$12,866,848	\$13,476,845	36	1	Active
52	22-SM026	2022	6/21/2022	Heraeus Precious Metals North America LLC	Santa Fe Springs	Los Angeles	Advanced Manufacturing	Precious Metals Recycling	\$15,900,000.00	\$1,351,500.00	\$627,276.30	\$7,398,232.62	47%	N/A	\$2,363,186	\$1,011,686	194	7	Active
53	22-SM027	2022	6/21/2022	Mitra Future Technologies, Inc.	Mountain View	Santa Clara	Advanced Transportation	Iron-Based Cathode Production	\$5,484,877.00	\$466,215.00	\$90,970.98	\$1,078,291.90	20%	\$708,758	\$457,792	\$700,335	80	7	Active
54	22-SM028	2022	6/21/2022	Trojan Battery Company, LLC	Santa Fe Springs	Los Angeles	Advanced Manufacturing	Lithium-ion Battery Manufacturing	\$36,566,109.00	\$3,108,119.00	\$620,971.13	\$7,347,756.10	20%	N/A	\$14,315,313	\$11,207,193	509	23	Active
55	22-SM029	2022	6/21/2022	California Safe Soil, LLC	McClellan	Sacramento	Recycled Resource Extraction	Mixed Organics	\$23,089,719.00	\$1,962,626.00	\$37,283.33	\$445,972.79	2%	\$48,106	\$3,333,560	\$1,419,039	54	5	Active

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56	22-SM030	2022	6/21/2022	National Carbon Technologies California, LLC	Williams	Colusa	Alternative Source	Biocarbon Pellets Production	\$123,720,000.00	\$10,516,200.00	\$2,145,269.49	\$25,251,572.76	20%	\$16,365,146	\$8,953,287	\$14,802,234	307	37	Active
57	22-SM031	2022	6/21/2022	Phillips 66 Company	Rodeo	Contra Costa	Alternative Source	Renewable Diesel	\$195,834,944.70	\$16,645,970.00	\$12,627,324.38	\$149,140,419.47	76%	\$53,648,295	\$37,500,207	\$74,502,532	677	42	Active
58	22-SM032	2022	6/21/2022	Ampaire, Inc.	Hawthorne; Camarillo	Los Angeles; Ventura	Advanced Transportation	Aircraft Hybrid Electric Powertrain Production	\$29,889,143.00	\$2,540,577.00	\$11,312.25	\$134,357.24	0%	\$13,497,790	\$4,413,720	\$15,370,933	112	6	Active
59	22-SM035	2022	6/21/2022	Califia Farms, LLC	Bakersfield	Kern	Advanced Manufacturing	Plant-Based Dairy Free Beverage Manufacturing	\$23,500,000.00	\$1,997,500.00	\$538,464.66	\$6,348,445.84	27%	N/A	\$5,920,554	\$3,923,054	298	10	Active
60	22-SM036	2022	6/21/2022	Quidel Corporation	Carlsbad; San Diego	San Diego	Advanced Manufacturing	Medical Diagnostic Test Production	\$23,150,000.00	\$1,967,750.00	\$826,574.47	\$9,844,232.21	43%	N/A	\$7,036,749	\$5,068,999	1,411	42	Active
61	22-SM038	2022	6/21/2022	CASS, Inc.	Oakland	Alameda	Recycled Resource Extraction	Mixed Metals Recycling	\$23,750,000.00	\$2,018,750.00	\$251,940.05	\$2,983,015.77	13%	\$341,858	\$4,185,039	\$2,508,147	171	15	Active
62	22-SM039	2022	6/21/2022	Touchstone Pistachio Company, LLC	Terra Bella	Tulare	Advanced Manufacturing	Pistachio Processing and Production	\$23,400,000.00	\$1,989,000.00	\$854,751.62	\$10,070,594.79	43%	N/A	\$9,596,583	\$7,607,583	278	8	Active
63	22-SM044	2022	6/21/2022	Archer Aviation, Inc.	Palo Alto	Santa Clara	Advanced Transportation	Electric Vertical Takeoff and Landing Aircraft Production	\$44,360,877.00	\$3,770,675.00	\$2,130,265.02	\$25,337,547.11	57%	\$2,973,327	\$22,165,537	\$21,368,189	557	33	Active
64	22-SM051	2022	6/21/2022	Terray Therapeutics, Inc.	Monrovia	Los Angeles	Advanced Manufacturing	Biopharmaceutical Manufacturing	\$16,417,363.00	\$1,395,476.00	\$423,305.70	\$5,023,521.11	31%	N/A	\$8,137,460	\$6,741,984	108	5	Active
65	23-SM001	2023	7/18/2023	North Fork Community Power, LLC	North Fork	Madera	Alternative Source	Biomass Processing and Fuel Production	\$6,277,500.00	\$524,799	\$0.00	\$0.00	0%	\$659,056	\$394,638	\$528,895	46	2	Active
66	23-SM002	2023	9/19/2023	WM Renewable Energy, LLC	Simi Valley	Ventura	Alternative Source	Landfill Gas Capture and Production	\$53,807,523.00	\$4,498,309	\$0.00	\$0.00	0%	\$6,581,039	\$7,406,912	\$9,489,642	41	4	Active
67	23-SM003	2023	7/18/2023	CalBioGas Hilmar LLC	Himar	Merced	Alternative Source	Dairy Biogas	\$26,373,228.00	\$2,204,802	\$0.00	\$0.00	0%	\$1,299,562	\$4,677,066	\$3,771,826	179	18	Active
68	23-SM004	2023	7/18/2023	CalBioGas South Tulare III LLC	Tulare	Tulare	Alternative Source	Dairy Biogas	\$31,115,681.00	\$2,601,271	\$0.00	\$0.00	0%	\$2,264,604	\$7,772,457	\$7,435,790	349	28	Active
69	23-SM005	2023	7/18/2023	De Groot South Biogas LLC	Hanford	Kings	Alternative Source	Dairy Biogas	\$5,364,667.00	\$448,486	\$0.00	\$0.00	0%	\$179,083	\$467,126	\$197,723	36	5	Active
70	23-SM006	2023	7/18/2023	Southpoint Biogas LLC	Madera	Madera	Alternative Source	Dairy Biogas	\$7,395,283.00	\$618,246	\$0.00	\$0.00	0%	\$506,138	\$1,349,080	\$1,236,972	37	4	Active
71	23-SM007	2023	7/18/2023	CalBioGas PB LLC	Bakersfield	Kern	Alternative Source	Dairy Biogas	\$16,189,464.00	\$1,353,439	\$0.00	\$0.00	0%	\$704,162	\$2,729,829	\$2,080,552	73	9	Active
72	23-SM008	2023	7/18/2023	BHE Renewables, LLC and its subsidiaries, Magma Power Company, Elmore North Geothermal LLC and CalEnergy Operating Corporation	Calipatria	Imperial	Alternative Source	Geothermal Brine and Steam Production	\$239,233,728.00	\$19,999,940	\$0.00	\$0.00	0%	\$12,700,092	\$26,042,499	\$18,742,651	529	78	Active
73	23-SM009	2023	7/18/2023	Newlight Technologies, Inc.	Huntington Beach	Orange	Advanced Manufacturing	AirCarbon Manufacturing	\$17,949,389.00	\$1,500,569	\$0.00	\$0.00	0%	\$0	\$2,631,420	\$1,130,851	244	16	Active

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74	23-SM010	2023	12/12/2023	Northrop Grumman Systems Corporation	Palmdale, Manhattan Beach; Redondo Beach; Northridge; Sunnyvale; Woodland Hills	Los Angeles; Los Angeles; Los Angeles; Santa Clara; Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$47,184,041.92	\$3,944,586	\$0.00	\$0.00	0%	N/A	\$4,624,364	\$679,778	1,625	26	Active
75	23-SM012	2023	7/18/2023	Aptera Motors Corp.	Carlsbad; Vista	San Diego; San Diego	Advanced Transportation	Solar Electric Vehicle and Related Components Manufacturing	\$81,180,644.00	\$6,786,702	\$0.00	\$0.00	0%	\$1,815,971	\$6,934,479	\$1,963,748	609	48	Active
76	23-SM013	2023	7/18/2023	Aemetis Biogas, LLC	Turlock; Crows Landing	Stanislaus; Stanislaus	Alternative Source	Dairy Biogas	\$17,366,750.00	\$1,451,860	\$0.00	\$0.00	0%	\$903,173	\$4,505,428	\$3,956,740	29	2	Active
77	23-SM015	2023	7/18/2023	CalBioGas Gustine LLC	Gustine	Merced	Alternative Source	Dairy Biogas	\$44,990,798.00	\$3,761,231	\$0.00	\$0.00	0%	\$1,739,961	\$6,575,568	\$4,554,298	170	21	Active
78	23-SM017	2023	7/18/2023	CalBioGas Hanford LLC	Hanford	Kings	Alternative Source	Dairy Biogas	\$4,025,000.00	\$336,490	\$0.00	\$0.00	0%	\$91,412	\$618,863	\$373,785	34	3	Active
79	23-SM018	2023	7/18/2023	East County Advanced Water Purification Joint Powers Authority	Santee	San Diego	Alternative Source	Waste Water Treatment and Biogas Capture	\$105,101,474.00	\$8,786,483	\$0.00	\$0.00	0%	\$1,448,143	\$11,722,722	\$4,384,381	282	42	Active
80	23-SM019	2023	9/19/2023	Universal Waste Systems, Inc.	Santa Fe Springs, Los Angeles	Los Angeles; Los Angeles	Recycled Resource Extraction	Mixed Organics	\$7,881,900.00	\$658,927	\$0.00	\$0.00	0%	\$65,105	\$906,311	\$312,489	49	2	Active
81	23-SM021	2023	9/19/2023	Raven SR S1 LLC	Richmond	Contra Costa	Alternative Source	Renewable Hydrogen Production	\$29,824,330.00	\$2,493,314	\$0.00	\$0.00	0%	\$988,956	\$3,942,171	\$2,437,813	35	4	Active
82	23-SM023	2023	7/18/2023	Mariposa Bioenergy LLC	Mariposa	Mariposa	Alternative Source	Biomass Processing and Fuel Production	\$18,970,000.00	\$1,585,892	\$0.00	\$0.00	0%	\$3,544,953	\$1,858,583	\$3,817,643	15	2	Active
83	23-SM024	2023	7/18/2023	Biggs Bioenergy LLC	Biggs	Butte	Alternative Source	Biomass Processing and Fuel Production	\$16,490,000.00	\$1,378,564	\$0.00	\$0.00	0%	\$3,298,333	\$1,693,539	\$3,613,308	15	2	Active
84	23-SM026	2023	7/18/2023	Touchstone Pistachio Company, LLC	Cantua Creek, Terra Bella	Fresno; Tulare	Advanced Manufacturing	Pistachio Processing and Production	\$23,850,000.00	\$1,993,860	\$0.00	\$0.00	0%	\$0	\$9,531,440	\$7,537,580	300	8	Active
85	23-SM027	2023	9/19/2023	Biofuels San Bernardino Biogas, LLC	Rialto	San Bernardino	Alternative Source	Landfill Gas Capture and Production	\$30,783,686.00	\$2,573,516	\$0.00	\$0.00	0%	\$2,880,025	\$5,485,863	\$5,792,372	85	12	Active
86	23-SM028	2023	7/18/2023	Intuitive Surgical, Inc. and its subsidiary, Intuitive Surgical Operations, Inc.	Santa Clara, Sunnyvale	Santa Clara; Santa Clara	Advanced Manufacturing	Advanced Robotic Surgical Systems and Tools	\$23,400,000.00	\$1,956,240	\$0.00	\$0.00	0%	N/A	\$13,617,963	\$11,661,723	3392	40	Active
87	23-SM029	2023	7/18/2023	EUV Tech, Inc.	Martinez	Contra Costa	Advanced Manufacturing	Semiconductor Metrology Equipment Manufacturing	\$9,632,985.00	\$805,318	\$0.00	\$0.00	0%	N/A	\$2,048,800	\$1,243,482	100	5	Active
88	23-SM030	2023	7/18/2023	Heirloom Carbon Technologies, Inc.	Tracy	San Joaquin	Advanced Manufacturing	Sequestered Carbon Manufacturing	\$5,232,013.00	\$437,396	\$0.00	\$0.00	0%	\$0	\$404,682	-\$32,714	67	23	Active
89	23-SM031	2023	7/18/2023	HC (Contra Costa), LLC	Pittsburg	Contra Costa	Alternative Source	Renewable Hydrogen Production	\$119,617,224.88	\$10,000,000	\$0.00	\$0.00	0%	\$6,304,113	\$18,440,965	\$14,745,078	205	35	Active

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90	23-SM033	2023	7/18/2023	Applied Materials, Inc.	Santa Clara	Santa Clara	Advanced Manufacturing	Semiconductor and Related Industries Fabrication Equipment Manufacturing	\$23,750,000.00	\$1,985,500	\$0.00	\$0.00	0%	N/A	\$8,580,466	\$6,594,966	3,764	42	Active
91	23-SM034	2023	7/18/2023	Applied Materials, Inc.	Santa Clara; Sunnyvale	Santa Clara; Santa Clara	Advanced Transportation	Production of Lithium Anodes for Electric Vehicle Batteries	\$86,000,000.00	\$7,189,600	\$0.00	\$0.00	0%	\$3,594,759	\$4,156,457	\$561,616	77	12	Active
92	23-SM037	2023	7/18/2023	Enovix Corporation	Fremont	Alameda	Advanced Manufacturing	Lithium Ion Battery Manufacturing	\$30,382,973.00	\$2,540,017	\$0.00	\$0.00	0%	\$0	\$1,914,806	-\$625,210	425	13	Active
93	23-SM035	2023	7/18/2023	Hell's Kitchen LithiumCo 1 LLC	Calipatria	Imperial	Advanced Manufacturing	Lithium Recovery and Processing	\$179,425,837.32	\$15,000,000	\$0.00	\$0.00	0%	N/A	\$36,117,257	\$21,117,257	321	27	Active
94	23-SM036	2023	9/19/2023	Pratt & Whitney, a division of RTX Corporation	Carlsbad	San Diego	Advanced Transportation	Jet Engine Parts Manufacturing	\$40,462,000.00	\$3,382,623	\$0.00	\$0.00	0%	\$2,869,924	\$3,579,486	\$3,066,787	91	8	Active
95	23-SM038	2023	7/18/2023	Nanoshift LLC	Richmond	Contra Costa	Advanced Manufacturing	Semiconductor Manufacturing	\$5,300,000.00	\$443,080	\$0.00	\$0.00	0%	N/A	\$375,485	-\$67,595	15	2	Active
96	23-SM042	2023	9/19/2023	Anaergia Technologies, LLC	Marina	Monterey	Alternative Source	Biomass Processing and Fuel Production	\$5,212,500.00	\$435,765	\$0.00	\$0.00	0%	\$109,196	\$656,482	\$329,912	72	1	Active
97	23-SM044	2023	9/19/2023	Vernon Green Hydrogen	Vernon	Los Angeles	Alternative Source	Renewable Hydrogen Production	\$15,827,466.00	\$1,323,176	\$0.00	\$0.00	0%	\$332,239	\$3,107,826	\$2,116,889	46	5	Active
98	10-SM002	2010	11/17/2010	ABEC Bidart Stockdale, LLC	Bakersfield	Kern	Alternative Source	Biogas Capture and Production	\$1,131,584.00	\$102,974.14	\$90,622.29	\$1,118,793.65	99%	\$228,808	\$73,809	\$199,643	26	3	Complete
99	10-SM004	2010	11/17/2010	First Solar, Inc.	Santa Clara	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$37,700,000.00	\$3,430,700.00	\$3,409,567.04	\$37,692,991.15	100%	\$1,668,971	\$1,971,559	\$209,831	174	17	Complete
100	10-SM007	2010	11/17/2010	The Solaria Corporation	Fremont	Alameda	Alternative Source	Solar Photovoltaic Manufacturing	\$7,800,000.00	\$709,800.00	\$375,884.76	\$4,474,134.55	57%	\$834,403	\$1,564,665	\$1,689,268	180	17	Complete
101	10-SM012	2010	12/15/2010	SunPower Corporation	Milpitas	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$8,000,000.00	\$728,000.00	\$704,815.66	\$7,745,227.00	97%	\$903,595	\$1,877,730	\$2,053,325	94	11	Complete
102	10-SM013	2010	11/17/2010	NuvoSun Incorporated	Milpitas	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$20,000,000.00	\$1,820,000.00	\$1,736,127.77	\$19,996,322.73	100%	\$2,137,232	\$2,594,509	\$2,911,741	160	18	Complete
103	10-SM015	2010	11/17/2010	Bloom Energy Corporation	Sunnyvale	Santa Clara	Alternative Source	Solid Oxide Fuel Cell Systems Manufacturing	\$37,447,693.00	\$3,407,740.06	\$2,978,509.95	\$35,340,432.80	94%	\$562,054	\$11,144,189	\$8,298,503	1,004	83	Complete
104	10-SM020	2010	12/15/2010	Ameresco Butte County LLC	Paradise	Butte	Alternative Source	Landfill Gas Capture and Production	\$1,085,554.00	\$98,785.41	\$62,105.17	\$759,409.60	70%	\$71,701	\$185,955	\$158,870	12	1	Complete
105	10-SM022	2010	12/15/2010	Ameresco Forward LLC	Manteca	San Joaquin	Alternative Source	Landfill Gas Capture and Production	\$2,227,596.00	\$202,711.24	\$119,409.48	\$1,447,555.97	65%	\$37,823	\$277,169	\$112,281	11	1	Complete
106	10-SM023	2010	12/15/2010	Ameresco Johnson Canyon LLC	Gonzales	Monterey	Alternative Source	Landfill Gas Capture and Production	\$766,293.00	\$69,732.66	\$53,371.72	\$658,910.18	86%	\$33,124	\$168,912	\$132,303	12	1	Complete
107	10-SM024	2010	12/15/2010	Ameresco San Joaquin LLC	Linden	San Joaquin	Alternative Source	Landfill Gas Capture and Production	\$1,723,486.00	\$156,837.23	\$113,649.46	\$1,378,738.49	80%	\$99,894	\$419,234	\$362,292	12	1	Complete

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108	10-SM025	2010	12/15/2010	Ameresco Vasco Road LLC	Livermore	Alameda	Alternative Source	Landfill Gas Capture and Production	\$1,828,204.00	\$166,366.56	\$112,035.83	\$1,358,330.76	74%	\$66,258	\$333,415	\$233,306	11	1	Complete
109	10-SM026	2010	12/15/2010	BioFuels Point Loma, LLC	San Diego	San Diego	Alternative Source	Wastewater Treatment Biogas Capture and Production	\$6,236,024.00	\$567,478.18	\$449,161.59	\$5,512,427.97	88%	\$120,126	\$509,292	\$61,939	25	3	Complete
110	10-SM028	2010	12/15/2010	California Institute of Technology	Pasadena	Los Angeles	Alternative Source	R&D of Solar Fuel Generator Systems	\$13,400,000.00	\$1,219,400.00	\$996,693.54	\$11,899,375.73	89%	\$0	\$702,662	-\$516,738	133	15	Complete
111	11-SM001	2011	1/25/2011	Leyden Energy, Inc.	Fremont	Alameda	Advanced Transportation	Lithium Ion Battery Manufacturing	\$1,306,525.00	\$118,893.78	\$99,646.59	\$1,213,372.59	93%	\$21,400	\$944,754	\$847,260	26	2	Complete
112	11-SM003	2011	1/25/2011	Alameda-Contra Costa Transit District	Emeryville	Alameda	Alternative Source	Demonstration Hydrogen Fuel Production	\$5,387,950.00	\$490,303.45	\$362,320.05	\$4,473,087.00	83%	\$16,040	\$274,173	-\$200,090	6	1	Complete
113	11-SM006	2011	3/22/2011	Mt. Poso Cogeneration Company, LLC	Bakersfield	Kern	Alternative Source	Biomass Processing and Fuel Production	\$14,374,000.00	\$1,308,034.00	\$1,164,293.99	\$14,373,999.93	100%	\$197,027	\$3,470,273	\$2,359,266	97	11	Complete
114	11-SM009	2011	6/28/2011	DTE Stockton, LLC	Stockton	San Joaquin	Alternative Source	Biomass Processing and Fuel Production	\$10,120,000.00	\$920,920.00	\$823,637.85	\$10,119,999.91	100%	\$2,221,793	\$4,297,636	\$5,598,509	62	7	Complete
115	11-SM010	2011	7/26/2011	SCS Energy	Fresno	Fresno	Alternative Source	Biogas Capture and Production	\$3,155,300.00	\$255,579.30	\$247,020.17	\$3,049,631.77	97%	\$40,230	\$271,233	\$55,884	9	1	Complete
116	11-SM016	2011	12/13/2011	Tesla, Inc.	Fremont; Hawthorne; Palo Alto; Menlo Park	Alameda; Los Angeles; Santa Clara; San Mateo	Advanced Transportation	Electric Vehicle Manufacturing	\$292,000,000.00	\$23,652,000.00	\$24,546,044.83	\$291,889,530.09	100%	\$2,386,636	\$35,023,610	\$13,758,246	1,237	108	Complete
117	11-SM019	2011	11/15/2011	Zero Waste Energy Development Company, LLC	San Jose	Santa Clara	Alternative Source	Biogas Capture and Production	\$17,156,875.00	\$1,389,706.88	\$942,179.29	\$11,273,784.04	66%	\$1,355,423	\$2,233,575	\$2,199,291	174	17	Complete
118	12-SM003	2012	3/20/2012	Stion Corporation	San Jose	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$6,417,810.00	\$519,842.61	\$490,541.59	\$6,056,069.00	94%	\$277,896	\$253,546	\$11,600	28	3	Complete
119	12-SM004	2012	5/15/2012	Soitec Solar Industries LLC	San Diego	San Diego	Alternative Source	Concentrated Photovoltaic Manufacturing	\$104,381,342.00	\$8,454,888.70	\$7,351,986.72	\$90,047,264.86	86%	\$3,706,841	\$10,302,813	\$5,554,765	399	44	Complete
120	12-SM006	2012	5/15/2012	John Galt Biogas Inc.	Galt	Sacramento	Alternative Source	Biogas Capture and Production	\$1,025,769.00	\$83,087.00	\$61,712.13	\$735,018.76	72%	\$112,933	\$128,931	\$158,777	6	1	Complete
121	12-SM007	2012	5/15/2012	Reflexite Soitec Optical Technology LLC	San Diego	San Diego	Alternative Source	Concentrated Photovoltaic Manufacturing	\$24,500,000.00	\$1,984,500.00	\$2,005,024.12	\$24,200,004.00	99%	\$357,750	\$1,704,725	\$77,975	114	8	Complete
122	12-SM008	2012	6/19/2012	North Star Biofuels LLC	Watsonville	Santa Cruz	Alternative Source	Biodiesel Production	\$4,115,500.00	\$333,356.00	\$343,220.36	\$4,115,500.00	100%	\$84,522	\$2,616,810	\$2,367,976	30	1	Complete
123	12-SM012	2012	11/13/2012	Zero Waste Energy, LLC	Marina	Monterey	Alternative Source	Biogas Capture and Production	\$1,187,000.00	\$96,147.00	\$94,295.29	\$1,126,586.53	95%	\$18,139	\$95,062	\$17,054	5	1	Complete
124	12-SM013	2012	11/13/2012	Oberon Fuels, Inc.	Brawley	Imperial	Alternative Source	Biogas Capture & Bio DME Production	\$13,500,000.00	\$1,093,500.00	\$379,523.56	\$4,510,779.81	33%	\$423,866	\$679,196	\$9,561	17	3	Complete
125	13-SM001	2013	1/15/2013	CleanWorld	Davis	Yolo	Alternative Source	Biomass Processing and Fuel Production	\$5,851,298.00	\$489,753.64	\$459,933.57	\$5,462,393.90	93%	\$106,588	\$506,088	\$122,923	24	3	Complete
126	13-SM002	2013	3/19/2013	Buster Biofuels, LLC	Escondido	San Diego	Alternative Source	Biodiesel Production	\$1,905,343.00	\$159,477.21	\$160,429.88	\$1,905,343.00	100%	\$103,496	\$786,032	\$730,051	32	2	Complete
127	13-SM007	2013	6/18/2013	ABEC Bidart-Old River, LLC	Bakersfield	Kern	Alternative Source	Biogas Capture and Production	\$6,254,045.00	\$523,463.57	\$328,667.46	\$3,926,731.88	63%	\$351,613	\$523,038	\$351,188	28	2	Complete

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128	13-SM009	2013	8/20/2013	North State Rendering Co Inc.	Oroville	Butte	Alternative Source	Biomass Processing and Fuel Production	\$7,355,324.00	\$615,640.62	\$619,318.28	\$7,355,324.00	100%	\$305,075	\$422,917	\$112,351	12	2	Complete
129	13-SM010	2013	9/17/2013	Central Valley Ag Power, LLC	Oakdale	Stanislaus	Alternative Source	Biomass Processing and Fuel Production	\$3,481,313.00	\$291,385.90	\$293,077.07	\$3,480,725.29	100%	\$38,218	\$394,801	\$141,634	23	2	Complete
130	13-SM011	2013	10/15/2013	Blue Line Transfer, Inc.	South San Francisco	San Mateo	Alternative Source	Biomass Processing and Fuel Production	\$4,976,469.00	\$416,530.46	\$326,787.61	\$3,881,088.00	78%	\$43,980	\$423,841	\$51,291	20	3	Complete
131	13-SM013	2013	11/19/2013	Crimson Renewable Energy, LP	Bakersfield	Kern	Alternative Source	Biomass Processing and Fuel Production	\$14,065,000.00	\$1,177,240.50	\$1,181,210.40	\$14,064,998.80	100%	\$136,306	\$2,737,899	\$1,696,964	38	2	Complete
132	13-SM015	2013	12/17/2013	Tesla, Inc.	Fremont; Palo Alto; Hawthorne	Alameda; Santa Clara; Los Angeles	Advanced Transportation	Electric Vehicle Manufacturing	\$415,000,000.00	\$34,735,500.00	\$34,929,531.72	\$414,840,044.17	100%	\$4,847,406	\$54,306,869	\$24,418,775	2,050	115	Complete
133	14-SM001	2014	2/18/2014	Enovix Corporation	Fremont	Alameda	Advanced Manufacturing	Lithium Ion Battery Manufacturing	\$16,234,215.00	\$1,358,804.00	\$1,359,068.13	\$16,234,214.94	100%	N/A	\$1,920,567	\$561,763	78	6	Complete
134	14-SM004	2014	5/20/2014	Pixley Biogas, LLC	Pixley	Tulare	Alternative Source	Biogas Capture and Production	\$3,363,238.00	\$283,184.64	\$283,107.62	\$3,362,323.25	100%	\$287,308	\$321,007	\$325,130	9	2	Complete
135	14-SM005	2014	5/20/2014	MSB Investors, LLC	Santa Barbara	Santa Barbara	Alternative Source	Biogas Capture and Production	\$17,696,003.00	\$1,490,003.45	\$1,244,107.45	\$14,860,760.88	84%	\$319,442	\$1,392,985	\$222,423	75	5	Complete
136	14-SM007	2014	5/20/2014	E&J Gallo Winery	Livingston	Merced	Alternative Source	Biogas Capture and Production	\$17,592,381.00	\$1,481,278.48	\$1,249,865.38	\$14,846,238.99	84%	\$363,691	\$1,142,019	\$24,432	45	7	Complete
137	14-SM008	2014	6/17/2014	Niagara Bottling, LLC	San Bernardino	San Bernardino	Advanced Manufacturing	Water Bottling Facility	\$30,000,000.00	\$2,526,000.00	\$2,525,683.30	\$29,996,238.73	100%	N/A	\$7,988,338	\$5,462,338	86	6	Complete
138	14-SM011	2014	9/16/2014	Rialto Bioenergy Facility, LLC	Bloomington	San Bernardino	Alternative Source	Biogas Capture and Production	\$14,722,168.00	\$1,239,607.00	\$1,230,772.54	\$14,722,159.62	100%	\$765,232	\$1,662,628	\$1,188,254	35	3	Complete
139	14-SM012	2014	9/16/2014	Anaheim Energy, LLC	Anaheim	Orange	Alternative Source	Biogas Capture and Production	\$19,143,601.00	\$1,611,891.00	\$1,601,065.90	\$19,143,565.88	100%	\$568,979	\$1,938,411	\$895,499	40	5	Complete
140	14-SM022	2014	12/16/2014	Bowerman Power LFG, LLC	Irvine	Orange	Alternative Source	Landfill Gas Capture and Production	\$7,030,000.00	\$591,926.00	\$520,311.06	\$6,179,466.25	88%	\$273,723	\$1,091,792	\$773,589	30	3	Complete
141	14-SM023	2015	1/20/2015	WM Renewable Energy, LLC	Novato	Marin	Alternative Source	Biogas Capture and Production	\$2,004,360.00	\$168,767.00	\$168,071.79	\$1,996,101.98	100%	\$71,130	\$347,143	\$249,507	19	1	Complete
142	15-SM003	2015	5/19/2015	Weber Metals, Inc.	Paramount	Los Angeles	Advanced Manufacturing	Metal Forging	\$167,661,606.00	\$14,117,107.00	\$11,339,860.17	\$135,006,352.13	81%	N/A	\$35,048,735	\$20,931,628	192	18	Complete
143	15-SM003.	2015	2/17/2015	Silevo, Inc.	Fremont	Alameda	Alternative Source	Solar Photovoltaic Manufacturing	\$106,551,184.00	\$8,971,610.00	\$6,347,130.20	\$75,381,593.84	71%	\$3,402,597	\$9,175,513	\$3,606,500	319	33	Complete
144	15-SM005	2015	6/16/2015	U.S. Corrugated of Los Angeles, Inc.	Santa Fe Springs	Los Angeles	Advanced Manufacturing	Corrugated Packaging Manufacturing	\$23,969,087.00	\$2,018,197.00	\$2,018,197.13	\$23,969,087.00	100%	N/A	\$7,825,890	\$5,807,693	160	13	Complete
145	15-SM006	2015	6/16/2015	Efficient Drivetrains, Inc.	Milpitas	Santa Clara	Advanced Transportation	Electric Vehicle Drivetrain Manufacturing	\$5,008,800.00	\$421,741.00	\$315,331.06	\$3,768,912.56	75%	\$1,434,548	\$970,990	\$1,983,797	57	4	Complete
146	15-SM006.	2015	4/21/2015	California Renewable Power, LLC	Perris	Riverside	Alternative Source	Biogas Capture and Production	\$13,079,755.00	\$1,101,315.00	\$1,101,315.37	\$13,079,755.00	100%	\$137,797	\$1,839,848	\$876,329	48	4	Complete
147	15-SM007	2015	6/16/2015	The Monadnock Company	Industry	Los Angeles	Advanced Manufacturing	Specialty Aerospace Fastener Manufacturing	\$6,475,000.00	\$545,195.00	\$465,419.43	\$5,540,581.48	86%	N/A	\$1,847,167	\$1,301,972	299	10	Complete

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148	15-SM008	2015	7/21/2015	Hi Shear Corporation	Torrance	Los Angeles	Advanced Manufacturing	Specialty Aerospace Fastener Manufacturing	\$39,385,000.00	\$3,316,217.00	\$3,199,995.70	\$38,077,811.36	97%	N/A	\$3,432,623	\$116,406	1,117	43	Complete
149	15-SM009	2015	7/21/2015	Las Gallinas Valley Sanitary District	San Rafael	Marin	Alternative Source	Biogas Capture and Production	\$788,757.00	\$66,413.00	\$66,413.34	\$788,757.00	100%	\$10,707	\$44,765	-\$10,941	7	0	Complete
150	15-SM010	2015	10/20/2015	Karma Automotive LLC	Moreno Valley	Riverside	Advanced Manufacturing	Plug-In Hybrid Vehicle Manufacturing	\$38,194,860.00	\$3,216,007.00	\$3,216,007.21	\$38,194,860.00	100%	N/A	\$4,025,187	\$809,179	205	16	Complete
151	15-SM011	2015	8/18/2015	Orbital ATK, Inc.	Northridge	Los Angeles	Advanced Manufacturing	Defense and Aerospace Manufacturing	\$16,275,154.00	\$1,370,368.00	\$1,365,628.93	\$16,275,149.36	100%	N/A	\$3,648,303	\$2,277,935	320	10	Complete
152	15-SM012	2015	9/15/2015	Rolls-Royce High Temperature Composites, Inc.	Huntington Beach	Orange	Advanced Manufacturing	Composites Manufacturing	\$8,728,000.00	\$734,898.00	\$702,915.99	\$8,348,170.95	96%	N/A	\$788,866	\$53,969	105	6	Complete
153	15-SM013	2015	12/15/2015	ABEC #2 LLC	Buttonwillow	Kern	Alternative Source	Biogas Capture and Production	\$5,990,614.00	\$504,409.70	\$419,041.77	\$4,976,743.13	83%	\$180,513	\$618,883	\$294,986	14	0	Complete
154	15-SM014	2015	10/20/2015	Space Exploration Technologies Corp.	Hawthorne	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$360,169,639.00	\$30,326,284.00	\$30,187,114.09	\$359,033,143.99	100%	N/A	\$40,537,040	\$10,210,756	4,200	183	Complete
155	15-SM015	2015	10/20/2015	Madera Renewable Energy, LLC	Madera	Madera	Alternative Source	Biogas Capture and Production	\$1,999,507.00	\$168,358.00	\$168,244.30	\$1,999,507.00	100%	\$418,611	\$201,229	\$451,481	7	1	Complete
156	15-SM016	2015	10/20/2015	Hanford Renewable Energy, LLC	Hanford	Kings	Alternative Source	Biogas Capture and Production	\$3,748,012.00	\$315,583.00	\$311,895.01	\$3,708,524.73	99%	\$974,447	\$435,837	\$1,094,701	9	1	Complete
157	15-SM017	2015	11/17/2015	Space Systems/Loral LLC	Palo Alto	Santa Clara	Advanced Manufacturing	Aerospace Manufacturing	\$5,586,000.00	\$470,341.00	\$203,707.48	\$2,419,328.70	43%	N/A	\$812,787	\$342,446	354	3	Complete
158	15-SM020	2015	12/15/2015	Millennium Space Systems, Inc.	El Segundo	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$4,284,672.00	\$360,769.00	\$211,172.75	\$2,515,334.34	59%	N/A	\$1,389,088	\$1,028,319	55	4	Complete
159	16-SM002	2016	2/16/2016	The Gill Corporation and Its Subsidiary, Castle Industries	El Monte; Ontario	Los Angeles; San Bernardino	Advanced Manufacturing	Aerospace Manufacturing	\$8,472,000.00	\$713,342.00	\$271,935.85	\$3,231,275.08	38%	N/A	\$2,371,545	\$1,658,203	608	36	Complete
160	16-SM003	2016	1/19/2016	Kite Pharma, Inc.	El Segundo	Los Angeles	Advanced Manufacturing	Biopharmaceutical Manufacturing	\$13,763,050.00	\$1,158,849.00	\$1,158,554.17	\$13,763,036.51	100%	N/A	\$5,393,473	\$4,234,624	305	18	Complete
161	16-SM005	2016	1/19/2016	Escondido Bioenergy Facility, LLC	Escondido	San Diego	Alternative Source	Biogas Capture and Production	\$1,900,000.00	\$159,980.00	\$49,901.34	\$596,906.00	31%	\$28,355	\$344,260	\$212,635	11	1	Complete
162	16-SM006	2016	1/19/2016	California Safe Soil	McClellan	Sacramento	Advanced Manufacturing	Soil Amendments Production	\$3,750,000.00	\$315,750.00	\$268,842.91	\$3,188,253.23	85%	N/A	\$1,623,748	\$1,307,998	22	2	Complete
163	16-SM008	2016	10/18/2016	Waste Management of Alameda County	San Leandro	Alameda	Recycled Resource Extraction	Mixed Recycling	\$77,272,550.00	\$6,506,348.71	\$3,141,565.24	\$37,394,411.66	48%	\$141,898	\$8,381,777	\$2,017,327	144	20	Complete
164	16-SM009	2016	10/18/2016	Waste Management Recycling and Disposal Services of California, Inc.	Sun Valley	Los Angeles	Recycled Resource Extraction	Mixed Organics	\$3,500,000.00	\$294,700.00	\$287,607.48	\$3,416,591.71	98%	\$8,008	\$568,386	\$281,694	37	1	Complete
165	16-SM011	2016	10/18/2016	SANCO Services, LP	Escondido	San Diego	Recycled Resource Extraction	Mixed Recycling	\$24,190,000.00	\$2,036,798.00	\$1,440,630.87	\$17,116,898.19	71%	\$91,615	\$3,306,064	\$1,360,881	112	12	Complete
166	16-SM013	2016	10/18/2016	Recology San Francisco	San Francisco	San Francisco	Recycled Resource Extraction	Mixed Recycling	\$7,917,170.23	\$666,625.73	\$654,666.79	\$7,775,140.00	98%	\$16,789	\$701,902	\$52,065	127	8	Complete
167	16-SM014	2016	10/18/2016	Monterey Regional Waste Management District	Marina	Monterey	Recycled Resource Extraction	Mixed Recycling	\$11,401,677.00	\$960,021.20	\$960,021.20	\$11,401,677.00	100%	\$44,567	\$1,310,429	\$394,975	35	4	Complete

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168	16-SM017	2016	10/18/2016	Mid-Valley Disposal	Fresno	Fresno	Recycled Resource Extraction	Mixed Recycling	\$6,821,909.00	\$574,404.74	\$511,312.29	\$6,116,175.70	90%	\$29,922	\$592,293	\$47,811	54	5	Complete
169	16-SM018	2016	10/18/2016	Mid-Valley Disposal	Kerman	Fresno	Recycled Resource Extraction	Mixed Organics	\$3,739,543.00	\$314,869.52	\$313,047.45	\$3,739,543.00	100%	\$12,990	\$275,785	-\$26,094	24	3	Complete
170	16-SM021	2016	11/15/2016	GreenWaste Recovery, Inc.	San Jose	Santa Clara	Recycled Resource Extraction	Mixed Recycling and Organics	\$4,458,683.00	\$375,421.11	\$375,421.11	\$4,458,683.00	100%	\$9,786	\$910,539	\$544,904	26	2	Complete
171	16-SM031	2016	12/13/2016	Eslinger Biodiesel Inc.	Fresno	Fresno	Alternative Source	Biomass Processing and Fuel Production	\$8,394,385.00	\$706,807.22	\$706,273.50	\$8,394,385.00	100%	\$570,932	\$2,291,152	\$2,155,277	34	2	Complete
172	16-SM033	2016	12/13/2016	ABEC #3 LLC dba Lake View Farms Dairy Biogas	Bakersfield	Kern	Alternative Source	Biogas Capture and Production	\$2,401,884.00	\$202,238.63	\$202,238.63	\$2,401,884.00	100%	\$33,640	\$311,256	\$142,657	25	3	Complete
173	16-SM034	2016	12/13/2016	ABEC #4 LLC dba CE&S Dairy Biogas	Bakersfield	Kern	Alternative Source	Biogas Capture and Production	\$2,701,502.00	\$227,467.00	\$227,466.47	\$2,701,502.00	100%	\$57,815	\$506,804	\$337,152	24	4	Complete
174	16-SM036	2016	12/13/2016	Tesla, Inc.	Fremont; Hawthorne; Palo Alto; Menlo Park; Lathrop	Alameda; Los Angeles; Santa Clara; San Mateo; San Joaquin	Advanced Transportation	Electric Vehicle Manufacturing	\$560,917,080.00	\$47,229,218.14	\$47,229,218.14	\$560,917,080.00	100%	\$7,883,861	\$46,343,056	\$6,997,699	1,585	80	Complete
175	16-SM037	2016	12/13/2016	Gilead Sciences, Inc.	La Verne	Los Angeles	Advanced Manufacturing	Biopharmaceutical Manufacturing	\$51,645,674.00	\$4,348,565.75	\$4,281,186.70	\$50,884,271.93	99%	N/A	\$3,908,387	-\$440,179	746	48	Complete
176	17-SM002	2017	1/17/2017	Atara Biotherapeutics, Inc.	Thousand Oaks	Ventura	Advanced Manufacturing	Biopharmaceutical Manufacturing	\$16,285,217.00	\$1,371,215.00	\$1,300,154.32	\$15,430,506.34	95%	N/A	\$8,830,079	\$7,458,864	103	6	Complete
177	17-SM003	2017	1/17/2017	Tesla, Inc.	Fremont	Alameda	Advanced Transportation	Electric Vehicle Manufacturing	\$287,322,328.00	\$24,192,540.02	\$24,113,805.22	\$287,322,316.11	100%	\$2,796,551	\$20,997,523	-\$398,467	1,011	43	Complete
178	17-SM006	2017	6/20/2017	CR&R Incorporated	Lakeside; Perris	Riverside	Alternative Source	Biomass Processing and Fuel Production	\$11,610,900.00	\$977,637.78	\$956,299.81	\$11,375,918.00	98%	\$187,531	\$888,838	\$98,731	47	6	Complete
179	17-SM007	2017	2/21/2017	BYD Coach & Bus LLC	Lancaster	Los Angeles	Advanced Transportation	Electric Bus Manufacturing	\$3,189,014.00	\$268,515.00	\$257,064.53	\$3,066,013.53	96%	\$1,728,198	\$11,841,232	\$13,300,915	1,279	33	Complete
180	17-SM009	2017	4/18/2017	Best Express Foods, Inc.	Stockton	San Joaquin	Advanced Manufacturing	Advanced Food Production	\$3,502,976.00	\$294,951.00	\$293,996.81	\$3,502,753.00	100%	N/A	\$1,185,647	\$890,697	78	4	Complete
181	17-SM011	2017	2/21/2017	HZIU Kompogas SLO inc.	San Luis Obispo	San Luis Obispo	Alternative Source	Biomass Processing and Fuel Production	\$7,104,020.00	\$598,158.00	\$587,193.43	\$7,023,772.27	99%	\$38,784	\$529,337	-\$30,037	33	5	Complete
182	17-SM013	2017	9/19/2017	PolyPeptide Laboratories, Inc.	Torrance	Los Angeles	Advanced Manufacturing	Peptide Pharmaceutical Manufacturing	\$12,750,000.00	\$1,073,550.00	\$1,067,112.58	\$12,749,833.20	100%	N/A	\$1,026,253	-\$47,297	240	7	Complete
183	17-SM018	2017	3/21/2017	Calgren Dairy Fuels, LLC	Pixley	Tulare	Alternative Source	Biomass Processing and Fuel Production	\$20,373,200.00	\$1,715,423.00	\$1,690,988.28	\$20,227,132.55	99%	\$1,627,153	\$2,424,238	\$2,335,968	68	12	Complete
184	17-SM019	2017	4/18/2017	ChargePoint Inc.	Campbell	Santa Clara	Advanced Manufacturing	Electric Vehicle Charging Station Production	\$1,660,000.00	\$139,772.00	\$137,073.47	\$1,638,600.14	99%	N/A	\$341,105	\$201,333	35	3	Complete
185	17-SM021	2017	6/20/2017	Advance International Inc.	Livermore	Alameda	Advanced Manufacturing	Advanced Food Production	\$2,283,000.00	\$192,228.60	\$190,840.71	\$2,282,783.65	100%	N/A	\$884,553	\$692,324	98	6	Complete
186	17-SM022	2017	5/16/2017	SJV Biodiesel, LLC	Pixley	Tulare	Alternative Source	Biodiesel Production	\$6,680,600.00	\$562,506.52	\$560,241.38	\$6,680,072.38	100%	\$287,262	\$2,711,381	\$2,436,136	20	2	Complete
187	17-SM042	2017	6/20/2017	Aranda Tooling, Inc.	Chino	San Bernardino	Advanced Manufacturing	Tooling and Metal Stamping	\$10,035,231.00	\$844,966.00	\$778,850.45	\$9,257,741.00	92%	N/A	\$6,607,393	\$5,762,427	180	11	Complete

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188	17-SM043	2017	5/16/2017	Boehringer Ingelheim Fremont, Inc.	Fremont	Alameda	Advanced Manufacturing	Biopharmaceutical Manufacturing	\$214,040,484.00	\$18,022,209.00	\$17,994,083.36	\$214,040,484.00	100%	N/A	\$58,787,003	\$40,764,795	747	14	Complete
189	17-SM045	2017	6/20/2017	U.S. Corrugated of Los Angeles, Inc.	Cerritos	Los Angeles	Advanced Manufacturing	Corrugated Packaging Manufacturing	\$5,834,792.00	\$491,289.00	\$488,981.93	\$5,834,792.00	100%	N/A	\$2,325,511	\$1,834,222	95	9	Complete
190	17-SM047	2017	6/20/2017	Crimson Renewable Energy, LP	Bakersfield	Kern	Alternative Source	Biodiesel Production	\$21,833,100.00	\$1,838,347.02	\$1,716,089.22	\$20,499,343.18	94%	\$641,781	\$7,253,563	\$6,056,996	62	6	Complete
191	17-SM053	2017	7/18/2017	Recology San Francisco	San Francisco	San Francisco	Recycled Resource Extraction	Mixed Recycling	\$3,633,145.00	\$305,911.00	\$259,121.01	\$3,091,815.34	85%	\$6,194	\$359,894	\$60,177	119	3	Complete
192	17-SM054	2017	8/15/2017	AMRO Fabricating Corporation	South El Monte	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$5,120,000.00	\$431,104.00	\$411,372.64	\$4,920,725.49	96%	N/A	\$611,847	\$180,743	92	7	Complete
193	17-SM055	2017	9/19/2017	National Steel and Shipbuilding Company	San Diego	San Diego	Advanced Manufacturing	Thin Steel Plate Manufacturing	\$40,500,000.00	\$3,410,100.00	\$2,853,484.61	\$34,131,478.25	84%	N/A	\$8,549,758	\$5,139,658	5,220	72	Complete
194	17-SM056	2017	12/19/2017	TBC - The Boring Company	Hawthorne	Los Angeles	Advanced Manufacturing	Specialized Concrete Ring Manufacturing	\$3,160,000.00	\$266,072.00	\$264,176.00	\$3,160,000.00	100%	N/A	\$2,385,590	\$2,119,518	24	1	Complete
195	17-SM057	2017	9/19/2017	Lollicup USA, Inc.	Chino	San Bernardino	Advanced Manufacturing	Food Grade Recycled Packaging Manufacturing	\$10,345,200.00	\$871,065.84	\$548,540.35	\$6,550,804.18	63%	N/A	\$4,455,345	\$3,584,279	396	9	Complete
196	17-SM058	2017	10/17/2017	SunLine Transit Agency	Thousand Palms	Riverside	Alternative Source	Renewable Hydrogen Production	\$7,000,000.00	\$589,400.00	\$585,206.00	\$7,000,000.00	100%	\$23,821	\$720,765	\$155,186	4	1	Complete
197	17-SM059	2017	10/17/2017	CalPlant I, LLC	Willows	Glenn	Advanced Manufacturing	Medium Density Fiberboard Production	\$92,278,983.00	\$7,769,890.37	\$7,714,522.98	\$92,278,983.00	100%	N/A	\$15,697,094	\$7,927,204	412	31	Complete
198	17-SM060	2017	10/17/2017	QuantumScape Corporation	San Jose	Santa Clara	Advanced Manufacturing	Electric Vehicle Battery Manufacturing	\$18,243,000.00	\$1,536,060.60	\$1,525,072.01	\$18,242,488.20	100%	N/A	\$1,213,783	-\$322,277	135	12	Complete
199	17-SM063	2017	11/14/2017	CR&R Incorporated	Stanton	Orange	Recycled Resource Extraction	Mixed Organics	\$8,389,685.00	\$706,411.48	\$577,623.59	\$6,909,373.20	82%	\$43,087	\$1,514,068	\$850,743	34	2	Complete
200	17-SM065	2017	12/19/2017	Sila Nanotechnologies, Inc.	Alameda	Alameda	Advanced Manufacturing	Silicon Anode Powder Manufacturing	\$11,018,845.00	\$927,787.00	\$912,254.20	\$10,912,131.60	99%	N/A	\$916,086	-\$11,701	123	10	Complete
201	18-SM001	2018	1/16/2018	Mid-Valley Recycling, LLC	Kerman	Fresno	Recycled Resource Extraction	Mixed Organics	\$1,970,000.00	\$164,692.00	\$165,721.24	\$1,970,000.00	100%	\$16,507	\$144,811	-\$3,374	12	2	Complete
202	18-SM003	2018	2/20/2018	Best Express Foods, Inc.	Stockton	San Joaquin	Advanced Manufacturing	Advanced Food Production	\$4,293,330.00	\$358,922.00	\$358,903.67	\$4,293,106.00	100%	N/A	\$1,766,397	\$1,407,475	35	2	Complete
203	18-SM004	2018	3/20/2018	Tesla, Inc.	Fremont	Alameda	Advanced Transportation	Electric Vehicle Manufacturing	\$239,234,449.00	\$20,000,000.00	\$19,999,999.93	\$239,234,448.40	100%	\$2,581,524	\$19,018,169	\$1,599,693	842	36	Complete
204	18-SM006	2018	4/17/2018	Siva Power, Inc.	Santa Clara	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$6,746,508.00	\$564,008.00	\$564,004.56	\$6,746,466.08	100%	\$339,550	\$729,070	\$504,612	62	6	Complete
205	18-SM007	2018	3/20/2018	Sierra Institute for Community and Environment	Quincy	Plumas	Alternative Source	Biomass Processing and Fuel Production	\$516,286.00	\$43,162.00	\$41,121.87	\$491,888.37	95%	\$4,940	\$31,347	-\$6,874	8	2	Complete
206	18-SM008	2018	4/17/2018	Faraday&Future Inc.	Hanford; Compton; Gardena	Kings; Los Angeles; Los Angeles	Advanced Transportation	Electric Vehicle Manufacturing	\$239,234,449.00	\$20,000,000.00	\$20,032,707.02	\$238,980,980.30	100%	\$1,008,206	\$38,031,362	\$19,039,568	1,244	85	Complete
207	18-SM009	2018	5/15/2018	Tahoe Asphalt, Inc.	South Lake Tahoe	El Dorado	Recycled Resource Extraction	Asphalt Recycling	\$511,000.00	\$42,720.00	\$42,719.60	\$511,000.00	100%	\$3,484	\$85,695	\$46,549	2	1	Complete

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208	18-SM011	2018	5/15/2018	Peninsula Plastics Recycling, Inc.	Turlock	Stanislaus	Recycled Resource Extraction	Plastic and Mixed Recycling	\$3,800,000.00	\$317,680.00	\$317,561.59	\$3,798,583.65	100%	\$7,488	\$1,692,646	\$1,382,454	16	2	Complete
209	18-SM013	2018	5/15/2018	GreenWaste Recovery, Inc.	San Jose	Santa Clara	Recycled Resource Extraction	Mixed Recycling and Organics	\$11,999,548.00	\$1,003,162.00	\$786,499.03	\$9,407,883.08	78%	\$46,114	\$2,430,654	\$1,473,605	86	5	Complete
210	18-SM014	2018	12/18/2018	FirstElement Fuel Inc.	Oakland	Alameda	Advanced Manufacturing	Fuel Grade Hydrogen Production	\$2,050,000.00	\$171,380.00	\$171,380.00	\$2,050,000.00	100%	N/A	\$429,910	\$258,530	23	2	Complete
211	18-SM015	2018	6/19/2018	Space Exploration Technologies Corp.	Hawthorne; Los Angeles; Irvine	Los Angeles; Los Angeles; Orange	Advanced Manufacturing	Aerospace Manufacturing	\$142,708,000.00	\$11,930,389.00	\$11,857,947.14	\$141,605,297.83	99%	N/A	\$15,139,753	\$3,209,365	7,023	118	Complete
212	18-SM016	2018	6/19/2018	Zanker Road Resource Management, Ltd.	San Jose	Santa Clara	Recycled Resource Extraction	Mixed Recycling	\$11,132,857.00	\$930,707.00	\$919,886.63	\$11,003,428.57	99%	\$154,295	\$1,438,809	\$662,398	57	5	Complete
213	18-SM019	2018	8/21/2018	Eurostampa California, LLC	Napa	Napa	Advanced Manufacturing	Advanced Packaging Label Production	\$2,852,000.00	\$238,427.00	\$238,578.14	\$2,852,000.00	100%	N/A	\$433,975	\$195,548	58	3	Complete
214	18-SM021	2018	8/21/2018	The Almond Company	Madera; Chowchilla	Madera	Advanced Manufacturing	Advanced Food Production	\$3,750,000.00	\$313,500.00	\$266,793.34	\$3,182,742.02	85%	N/A	\$1,448,619	\$1,135,119	25	2	Complete
215	18-SM025	2018	10/16/2018	EDCO Disposal Corporation	Lemon Grove	San Diego	Recycled Resource Extraction	Mixed Recycling	\$3,750,505.00	\$313,542.00	\$313,542.00	\$3,750,500.00	100%	\$18,776	\$700,109	\$405,343	24	1	Complete
216	18-SM027	2018	10/16/2018	CalBioGas Hanford LLC	Hanford	Kings	Alternative Source	Dairy Biogas Production	\$20,422,826.00	\$1,707,348.00	\$1,711,506.15	\$20,422,826.00	100%	\$208,263	\$3,690,904	\$2,191,818	67	6	Complete
217	18-SM029	2018	11/13/2018	MSB Investors, LLC	Santa Barbara	Santa Barbara	Recycled Resource Extraction	Mixed Recycling	\$44,661,209.00	\$3,733,677.00	\$1,422,296.26	\$16,996,604.00	38%	\$115,040	\$3,630,121	\$11,484	74	10	Complete
218	18-SM030	2018	11/13/2018	Clerprem USA Corp.	Sacramento	Sacramento	Advanced Manufacturing	Passenger Seating System Manufacturing	\$876,493.00	\$73,275.00	\$73,252.87	\$876,230.46	100%	N/A	\$231,095	\$157,820	10	1	Complete
219	18-SM031	2018	11/13/2018	Niagara Bottling, LLC	Rialto	San Bernardino	Advanced Manufacturing	Water Bottling	\$70,220,748.00	\$5,870,455.00	\$5,214,887.85	\$62,379,041.22	89%	N/A	\$6,595,424	\$724,970	189	14	Complete
220	18-SM032	2018	11/13/2018	Vivotein, LLC	Ontario	San Bernardino	Advanced Manufacturing	Animal Feed and Organic Fertilizer	\$7,895,770.00	\$660,086.00	\$129,822.08	\$1,552,018.55	20%	N/A	\$564,872	-\$95,214	36	5	Complete
221	18-SM034	2018	11/13/2018	Star Manu LLC	San Diego	San Diego	Advanced Manufacturing	Health and Beauty Products	\$2,821,986.00	\$235,918.00	\$207,179.74	\$2,478,226.64	88%	N/A	\$534,834	\$298,916	65	3	Complete
222	19-SM003	2019	2/19/2019	Watonga RNG 1, LLC	San Diego	San Diego	Alternative Source	Biogas Capture and Production	\$5,500,000.00	\$459,800.00	\$449,917.85	\$5,377,931.50	98%	\$80,989	\$1,000,104	\$621,293	0	0	Complete
223	19-SM004	2019	2/19/2019	Sanitation Districts of Los Angeles County	Whittier	Los Angeles	Recycled Resource Extraction	Mixed Recycling	\$15,212,303.00	\$1,271,749.00	\$1,008,382.06	\$12,040,668.02	79%	\$39,199	\$2,747,895	\$1,515,345	65	4	Complete
224	19-SM005	2019	2/19/2019	CR&R Incorporated	Perris; Lakeview	Riverside	Recycled Resource Extraction	Mixed Paper and Mixed Organics	\$5,130,235.00	\$428,888.00	\$239,926.72	\$2,869,936.85	56%	\$99,915	\$334,778	\$5,805	54	2	Complete
225	19-SM007	2019	3/19/2019	Graham Packaging PET Tehcnologies, Inc.	Modesto	Stanislaus	Advanced Manufacturing	Plastic Bottle Manufacturing	\$10,347,274.00	\$865,032.00	\$864,922.80	\$10,345,966.55	100%	N/A	\$3,727,188	\$2,862,156	17	1	Complete
226	19-SM008	2019	4/16/2019	Tesla, Inc.	Fremont	Alameda	Advanced Transportation	Electric Vehicle Manufacturing	\$81,906,653.00	\$6,847,396.00	\$6,847,387.88	\$81,906,553.64	100%	\$924,621	\$6,382,653	\$460,584	288	10	Complete
227	19-SM009	2019	4/16/2019	Northrop Grumman Systems Corporation	Palmdale	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$211,964,787.00	\$17,720,256.00	\$17,734,411.34	\$211,964,787.00	100%	N/A	\$26,906,447	\$9,186,191	4,886	232	Complete

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228	19-SM011	2019	5/21/2019	Quantitative BioSciences, Inc	Modesto	Stanislaus	Alternative Source	Biogas Capture and Production	\$875,511.00	\$73,193.00	\$72,566.25	\$868,017.37	99%	\$17,580	\$93,692	\$38,079	2	0	Complete
229	19-SM012	2019	5/21/2019	SANCO Services, L.P.	Escondido	San Diego	Alternative Source	Biogas Capture and Production	\$15,216,783.00	\$1,272,131.00	\$1,259,668.41	\$15,037,783.00	99%	\$192,942	\$2,749,888	\$1,670,707	127	12	Complete
230	19-SM028	2019	6/18/2019	Touchstone Pistachio Company, LLC	Cantua Creek	Fresno	Advanced Manufacturing	Pistachio Processing and Production	\$79,196,100.00	\$6,620,794.00	\$6,642,097.28	\$79,159,969.81	100%	N/A	\$15,571,185	\$8,950,391	192	14	Complete
231	19-SM029	2019	6/18/2019	Edwards Lifesciences LLC	Irvine	Orange	Advanced Manufacturing	Cardiovascular Technology Manufacturing	\$239,234,449.00	\$20,000,000.00	\$20,204,906.95	\$239,234,448.61	100%	N/A	\$20,979,059	\$979,059	1,064	48	Complete
232	19-SM031	2019	6/18/2019	Entekra, LLC	Modesto	Stanislaus	Advanced Manufacturing	Pre-Engineered Structural Shell Production	\$20,750,000.00	\$1,734,700.00	\$1,067,541.21	\$12,764,279.41	62%	N/A	\$13,737,134	\$12,002,434	268	17	Complete
233	19-SM033	2019	7/16/2019	Allogene Therapeutics, Inc.	Newark	Alameda	Advanced Manufacturing	Biopharmaceutical Manufacturing	\$36,351,130.00	\$3,038,954.00	\$2,197,319.55	\$26,170,107.47	72%	N/A	\$6,892,248	\$3,853,294	206	12	Complete
234	19-SM034	2019	7/16/2019	Lakeside Pipeline LLC	Hanford	Kings	Alternative Source	Dairy Biogas Production	\$16,508,315.00	\$1,380,095.00	\$1,037,798.29	\$12,362,918.21	75%	\$451,076	\$7,864,837	\$6,935,818	31	2	Complete
235	20-SM001	2020	1/21/2020	Best Express Foods, Inc.	Stockton	San Joaquin	Advanced Manufacturing	Advanced Food Production	\$5,568,292.00	\$465,509.00	\$470,748.57	\$5,568,233.00	100%	N/A	\$2,711,411	\$2,245,902	61	4	Complete
236	20-SM007	2020	1/21/2020	Aemetis Biogas LLC	Ceres	Stanislaus	Alternative Source	Dairy Biogas Production	\$8,772,605.00	\$733,390.00	\$736,748.37	\$8,772,594.14	100%	\$86,121	\$2,157,797	\$1,510,529	29	2	Complete
237	20-SM008	2020	3/17/2020	Applied Materials, Inc.	Santa Clara; Sunnyvale	Santa Clara	Advanced Manufacturing	Semiconductor and Related Industries Fabrication Equipment Manufacturing	\$118,692,224.00	\$9,922,670.00	\$10,073,647.91	\$118,692,146.93	100%	N/A	\$20,897,003	\$10,974,333	3,199	67	Complete
238	20-SM014	2020	3/17/2020	Lam Research Corporation	Fremont; Livermore	Alameda	Advanced Manufacturing	Semiconductor Fabrication Equipment Manufacturing	\$119,617,224.00	\$10,000,000.00	\$10,071,138.00	\$119,617,223.04	100%	N/A	\$23,229,619	\$13,229,619	2,685	68	Complete
239	20-SM017	2020	3/17/2020	ACC Renewable Resources, LLC	Williams	Colusa	Alternative Source	Biomass Processing and Fuel Production	\$12,680,000.00	\$1,060,048.00	\$1,075,613.03	\$12,680,000.00	100%	\$897,448	\$2,045,500	\$1,882,900	15	2	Complete
240	20-SM025	2020	3/17/2020	Tesla, Inc.	Fremont	Alameda	Advanced Transportation	Electric Vehicle Manufacturing	\$119,617,224.00	\$10,000,000.00	\$10,050,754.68	\$119,607,839.37	100%	\$5,346,992	\$49,321,388	\$44,668,380	3,224	57	Complete
241	20-SM026	2020	3/17/2020	Hadco Metal Trading Co., LLC	Bakersfield	Kern	Advanced Manufacturing	Metal Products Manufacturing	\$9,400,000.00	\$785,840.00	\$786,354.26	\$9,387,468.55	100%	N/A	\$868,564	\$82,724	64	5	Complete
242	21-SM001	2021	3/16/2021	Garaventa Enterprises, Inc.	Pittsburg	Contra Costa	Recycled Resource Extraction	Mixed Recycling	\$11,600,000.00	\$986,000.00	\$974,443.40	\$11,464,040.00	99%	\$311,144	\$2,304,863	\$1,630,007	120	10	Complete
243	21-SM002	2021	3/16/2021	EDCO Disposal Corporation	Lemon Grove	San Diego	Recycled Resource Extraction	Mixed Recycling	\$14,659,474.00	\$1,246,055.00	\$1,193,331.14	\$14,274,295.91	97%	\$303,927	\$2,113,570	\$1,171,442	104	9	Complete
244	21-SM010	2021	3/16/2021	QuantumScape Corporation	San Jose	Santa Clara	Advanced Manufacturing	Electric Vehicle Battery Manufacturing	\$19,999,333.00	\$1,699,943.00	\$1,699,943.31	\$19,999,333.00	100%	N/A	\$2,040,086	\$340,143	474	39	Complete
245	21-SM012	2021	3/16/2021	Lam Research Corporation	Fremont; Livermore	Alameda	Advanced Manufacturing	Semiconductor Fabrication Equipment Manufacturing	\$22,900,000.00	\$1,946,500.00	\$1,946,499.97	\$22,899,999.59	100%	N/A	\$6,790,103	\$4,843,603	2,909	24	Complete
246	21-SM016	2021	3/16/2021	Paradigm Packaging West, LLC	Rancho Cucamonga	San Bernardino	Advanced Manufacturing	Medical Device and Component Manufacturing	\$23,528,330.00	\$1,999,908.00	\$1,999,908.05	\$23,528,330.00	100%	N/A	\$2,623,298	\$623,690	357	21	Complete

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247	21-SM017	2021	3/16/2021	Circulus Holdings, PBLLC	Modesto	Stanislaus	Advanced Manufacturing	Plastics Recycling	\$17,747,169.00	\$1,508,509.00	\$1,490,434.03	\$17,534,518.00	99%	N/A	\$3,522,497	\$2,013,988	53	5	Complete
248	21-SM018	2021	3/16/2021	MP Materials Corp.	San Bernardino	San Bernardino	Advanced Manufacturing	Rare Earth Materials Production	\$23,527,500.00	\$1,999,838.00	\$1,999,837.50	\$23,527,500.00	100%	N/A	\$4,996,721	\$2,996,883	670	8	Complete
249	21-SM019	2021	3/16/2021	Rialto Bioenergy Facility, LLC	Bloomington	San Bernardino	Alternative Source	Biogas Capture and Production	\$38,259,725.00	\$3,252,077.00	\$3,250,180.95	\$38,237,423.02	100%	\$4,876,767	\$5,647,833	\$7,272,523	19	3	Complete
250	21-SM021	2021	3/16/2021	Ameresco Keller Canyon RNG, LLC	Pittsburg	Contra Costa	Alternative Source	Landfill Gas to Renewable Natural Gas Production	\$27,722,495.00	\$2,356,412.00	\$2,356,296.98	\$27,721,140.92	100%	\$3,231,711	\$6,286,445	\$7,161,744	31	3	Complete
251	21-SM024	2021	3/16/2021	Tesoro Refining & Marketing Company, LLC	Martinez	Contra Costa	Alternative Source	Renewable Diesel and Propane Production	\$127,223,954.00	\$10,814,036.00	\$10,814,036.09	\$127,223,954.00	100%	\$22,217,044	\$54,645,815	\$66,048,823	745	16	Complete
252	21-SM030	2021	5/18/2021	RNG Moovers, LLC	Chowchilla; Madera; Pixley	Madera; Tulare	Alternative Source	Dairy Biogas	\$29,475,049.00	\$2,505,379.00	\$2,505,379.17	\$29,475,049.00	100%	\$1,322,255	\$5,965,660	\$4,782,536	60	5	Complete
253	21-SM032	2021	5/18/2021	CertainTeed, LLC	Chowchilla	Madera	Advanced Manufacturing	Residential Insulation Manufacturing	\$22,300,000.00	\$1,895,500.00	\$1,854,787.19	\$21,821,025.68	98%	N/A	\$3,721,318	\$1,825,818	227	4	Complete
254	22-SM006	2022	6/21/2022	Paradigm Packaging West, LLC	Rancho Cucamonga	San Bernardino	Advanced Manufacturing	Medical Device and Component Manufacturing	\$8,354,110.00	\$710,099.00	\$0.00	\$0.00	0%	N/A	\$861,039	\$150,939	321	31	Complete
255	22-SM041	2022	6/21/2022	Lam Research Corporation	Fremont; Livermore	Alameda	Advanced Manufacturing	Semiconductor Fabrication Equipment Manufacturing	\$23,500,000.00	\$1,997,500.00	\$1,995,988.76	\$23,499,788.19	100%	N/A	\$14,353,254	\$12,355,754	3,461	45	Complete
256	15-SM024	2015/2016	12/15/2015	Tesla, Inc.	Fremont; Hawthorne; Palo Alto; Menlo Park; Lathrop	Alameda; Los Angeles; Santa Clara; San Mateo; San Joaquin	Advanced Transportation	Electric Vehicle Manufacturing	\$463,625,000.00	\$39,037,225.00	\$39,037,007.74	\$463,622,419.75	100%	\$4,766,289	\$61,843,129	\$27,572,193	1,439	41	Complete
257	10-SM001	2010	11/17/2010	Bowerman Power LFG, LLC	Irvine	Orange	Alternative Source	Landfill Gas Capture and Production	\$9,240,000.00	\$840,840.00	\$0.00	\$0.00	0%	\$398,492	\$1,008,052	\$565,704	30	3	Inactive
258	10-SM003	2010	11/17/2010	ABEC Bidart Old River, LLC	Bakersfield	Kern	Alternative Source	Biogas Capture and Production	\$4,738,000.00	\$431,158.00	\$0.00	\$0.00	0%	\$3,080,806	\$438,844	\$3,088,491	50	6	Inactive
259	10-SM005	2010	11/17/2010	Gallo Cattle Company	Atwater	Merced	Alternative Source	Biogas Capture and Production	\$1,245,000.00	\$113,295.00	\$0.00	\$0.00	0%	\$791,959	\$130,374	\$809,038	30	3	Inactive
260	10-SM006	2010	11/17/2010	Solyndra LLC	Fremont	Alameda	Alternative Source	Solar Photovoltaic Manufacturing	\$381,776,000.00	\$34,741,616.00	\$25,127,322.31	\$277,309,757.00	73%	\$22,202,363	\$20,765,274	\$8,226,021	2,084	225	Inactive
261	10-SM009	2010	11/17/2010	Nanosolar Inc.	San Jose	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$140,187,900.00	\$12,757,098.90	\$4,306,411.56	\$53,035,063.31	38%	\$10,527,415	\$6,992,728	\$4,763,045	410	36	Inactive
262	10-SM010	2010	12/15/2010	Simbol, Inc.	Calipatria; Niland; Brawley	Imperial	Advanced Transportation	Lithium and Battery Material Manufacturing	\$42,484,174.00	\$3,866,059.83	\$164,277.79	\$1,938,796.34	5%	\$558,363	\$9,552,414	\$6,244,717	212	23	Inactive
263	10-SM011	2010	11/17/2010	Stion Corporation	San Jose	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$105,473,402.00	\$9,598,079.58	\$0.00	\$0.00	0%	\$3,512,324	\$6,207,404	\$121,648	493	47	Inactive
264	10-SM014	2010	11/17/2010	Calisolar Inc.	Sunnyvale	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$39,000,000.00	\$3,549,000.00	\$0.00	\$0.00	0%	\$1,971,609	\$1,975,797	\$398,407	273	13	Inactive
265	10-SM016	2010	12/15/2010	Quantum Fuel Systems Technologies Worldwide, Inc.	Irvine	Orange	Alternative Source	Solar Photovoltaic Manufacturing	\$8,945,858.00	\$814,073.08	\$0.00	\$0.00	0%	\$508,282	\$5,895,571	\$5,589,780	94	11	Inactive

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266	10-SM018	2010	12/15/2010	Green Vehicles, Inc.	Salinas	Monterey	Advanced Transportation	Electric Vehicle Manufacturing	\$3,708,050.00	\$337,432.55	\$0.00	\$0.00	0%	\$65,608	\$3,018,494	\$2,746,669	126	14	Inactive
267	10-SM019	2010	12/15/2010	Soliant Energy, Inc.	Monrovia	Los Angeles	Alternative Source	Solar Photovoltaic Manufacturing	\$9,966,500.00	\$906,951.50	\$0.00	\$0.00	0%	\$1,142,989	\$1,709,894	\$1,945,932	38	5	Inactive
268	10-SM021	2010	12/15/2010	Ameresco Crazy Horse LLC	Salinas	Monterey	Alternative Source	Landfill Gas Capture and Production	\$1,558,460.00	\$141,819.86	\$0.00	\$0.00	0%	\$103,093	\$432,228	\$393,501	12	1	Inactive
269	10-SM027	2010	12/15/2010	Alta Devices, Inc.	Sunnyvale	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$40,845,000.00	\$3,716,895.00	\$1,108,615.88	\$13,653,537.60	33%	\$561,404	\$5,025,666	\$1,870,175	322	37	Inactive
270	11-SM002	2011	1/25/2011	MiaSolé	Sunnyvale	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$26,092,000.00	\$2,374,372.00	\$881,599.23	\$10,883,941.14	42%	\$3,246,664	\$1,363,913	\$2,236,206	56	3	Inactive
271	11-SM005	2011	6/28/2011	Recology East Bay	Oakland	Alameda	Alternative Source	Biomass Processing and Fuel Production	\$3,703,090.00	\$336,981.19	\$0.00	\$0.00	0%	\$111,243	\$506,852	\$281,113	46	5	Inactive
272	11-SM007	2011	5/18/2011	Amonix, Inc.	Seal Beach	Orange	Alternative Source	Solar Photovoltaic Manufacturing	\$2,278,900.00	\$207,379.90	\$0.00	\$0.00	0%	\$244,895	\$557,789	\$595,304	153	2	Inactive
273	11-SM012	2011	8/29/2011	CE Obsidian Energy, LLC	Imperial	Imperial	Alternative Source	Geothermal Brine Extraction	\$174,453,978.00	\$14,130,772.22	\$0.00	\$0.00	0%	\$7,487,143	\$11,697,269	\$5,053,640	381	39	Inactive
274	11-SM014	2011	8/29/2011	SoloPower Inc.	San Jose	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$8,411,240.00	\$681,310.44	\$494,483.62	\$6,104,736.00	73%	\$419,024	\$575,484	\$313,197	40	1	Inactive
275	11-SM015	2011	8/29/2011	Amonix, Inc.	Seal Beach; Milpitas	Orange; Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$7,879,667.00	\$638,253.03	\$0.00	\$0.00	0%	\$740,148	\$2,884,021	\$2,985,916	200	12	Inactive
276	12-SM001	2012	2/21/2012	Soraa, Inc.	Fremont	Alameda	Alternative Source	Energy Efficient LED Lighting Manufacturing	\$57,002,457.00	\$4,617,199.02	\$1,708,595.60	\$20,380,383.49	36%	\$30,775,968	\$2,368,664	\$28,527,434	180	14	Inactive
277	12-SM009	2012	10/16/2012	ABEC New Hope LLC	Galt	Sacramento	Alternative Source	Biogas Capture and Production	\$2,633,359.00	\$213,302.08	\$84,096.31	\$1,004,734.92	38%	\$41,150	\$208,573	\$36,421	22	3	Inactive
278	12-SM010	2012	10/16/2012	Electric Vehicles International, LLC	Stockton	San Joaquin	Advanced Transportation	Electric Vehicle Manufacturing	\$5,744,962.00	\$465,341.92	\$256,835.53	\$3,170,809.00	55%	\$83,283	\$906,571	\$524,512	114	8	Inactive
279	12-SM011	2012	10/16/2012	Clean World Partners LLC	Sacramento	Sacramento	Alternative Source	Biomass Processing and Fuel Production	\$11,796,759.00	\$955,537.48	\$0.00	\$0.00	0%	\$204,651	\$977,083	\$226,196	24	3	Inactive
280	13-SM004	2013	4/16/2013	EJ Harrison and Sons Rentals, Inc.	Oxnard	Ventura	Alternative Source	Biogas Capture and Production	\$1,212,095.00	\$101,452.35	\$0.00	\$0.00	0%	\$19,311	\$108,487	\$26,345	6	1	Inactive
281	13-SM005	2013	4/16/2013	Vitriflex, Inc.	Milpitas	Santa Clara	Alternative Source	Solar Photovoltaic Component Manufacturing	\$16,330,000.00	\$1,366,821.00	\$372,404.20	\$4,422,852.69	27%	\$1,256,397	\$886,066	\$775,642	47	4	Inactive
282	13-SM012	2013	12/17/2013	Sugar Valley Energy, LLC	Brawley	Imperial	Advanced Manufacturing	Biomass Processing and Fuel Production	\$444,811,275.00	\$37,230,703.72	\$0.00	\$0.00	0%	N/A	\$51,344,220	\$14,113,516	650	84	Inactive
283	13-SM014	2013	12/17/2013	Boxer Industries, Inc.	Redwood City	San Mateo	Advanced Manufacturing	Carbon Black Production	\$6,553,000.00	\$548,486.10	\$429,578.15	\$5,101,878.25	78%	N/A	\$539,522	-\$8,964	12	1	Inactive
284	14-SM002	2014	3/18/2014	CleanWorld	San Bernardino	San Bernardino	Alternative Source	Biomass Processing and Fuel Production	\$6,698,715.00	\$564,031.80	\$0.00	\$0.00	0%	\$163,485	\$858,211	\$457,665	26	3	Inactive
285	14-SM006	2014	5/20/2014	Recology Bioenergy	Vacaville	Solano	Alternative Source	Biogas Capture and Production	\$25,967,035.00	\$2,186,424.35	\$0.00	\$0.00	0%	\$271,168	\$2,747,503	\$832,247	57	8	Inactive

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286	14-SM009	2014	8/19/2014	nanoPrecision Products, Inc.	El Segundo; Camarillo	Los Angeles; Ventura	Advanced Manufacturing	Optical Ferrule Manufacturing	\$7,963,972.00	\$670,566.00	\$425,181.15	\$5,049,657.37	63%	N/A	\$840,081	\$169,514	50	4	Inactive
287	14-SM010	2014	8/19/2014	AltAir Paramount, LLC	Paramount	Los Angeles	Alternative Source	Renewable Diesel Production	\$16,325,984.00	\$1,374,648.00	\$1,056,185.71	\$12,543,773.24	77%	\$287,233	\$6,023,164	\$4,935,750	141	3	Inactive
288	14-SM013	2014	9/16/2014	Lockheed Martin Corporation	Palmdale; Helendale	Los Angeles; San Bernardino	Advanced Manufacturing	Aerospace Manufacturing	\$345,296,354.00	\$29,073,953.00	\$0.00	\$0.00	0%	N/A	\$38,053,138	\$8,979,185	1,213	91	Inactive
289	14-SM014	2014	8/19/2014	Mendota Bioenergy, LLC	Mendota	Fresno	Alternative Source	Biogas Capture and Production	\$2,200,000.00	\$185,240.00	\$10,045.06	\$119,300.00	5%	\$28,671	\$596,885	\$440,316	28	3	Inactive
290	14-SM019	2014	10/21/2014	Solexel, Inc.	Milpitas	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$20,500,000.00	\$1,726,100.00	\$1,726,100.00	\$20,500,000.00	100%	\$475,809	\$1,261,678	\$11,387	128	12	Inactive
291	14-SM021	2015	1/20/2015	Pacific Ethanol Madera, LLC	Madera	Madera	Advanced Manufacturing	Corn Oil Production	\$4,763,500.00	\$401,087.00	\$271,374.71	\$3,222,977.51	68%	N/A	\$988,793	\$587,707	3	0	Inactive
292	14-SM024	2015	3/17/2015	Haas Automation, Inc.	Oxnard	Ventura	Advanced Manufacturing	CNC Machine Manufacturing	\$81,426,200.00	\$6,856,086.00	\$0.00	\$0.00	0%	N/A	\$38,174,218	\$31,318,132	1,235	51	Inactive
293	15-SM004	2015	6/16/2015	T2Energy, LLC	Vista	San Diego	Advanced Manufacturing	Omega Oil Production	\$4,737,500.00	\$398,898.00	\$0.00	\$0.00	0%	N/A	\$1,881,353	\$1,482,455	48	3	Inactive
294	15-SM005	2015	4/21/2015	GKN Aerospace Chem-Tronics, Inc.	Santa Ana	Orange	Advanced Manufacturing	Aerospace Manufacturing	\$118,687,529.00	\$9,993,490.00	\$1,918,895.15	\$22,789,728.65	19%	N/A	\$8,483,497	-\$1,509,993	231	13	Inactive
295	16-SM001	2016	1/19/2016	Atieva USA Inc	Menlo Park; Tracy; Sacramento	San Mateo; San Joaquin; Sacramento	Advanced Transportation	Electric Vehicle Manufacturing	\$530,750,000.00	\$44,689,150.00	\$0.00	\$0.00	0%	\$5,593,675	\$137,469,584	\$98,374,109	1,547	98	Inactive
296	16-SM015	2016	10/18/2016	CRM Co., LLC.	Stockton	San Joaquin	Recycled Resource Extraction	Crumb Tire Rubber	\$3,400,000.00	\$286,280.00	\$0.00	\$0.00	0%	\$5,872	\$1,015,541	\$735,133	32	2	Inactive
297	16-SM019	2016	10/18/2016	MSB Investors, LLC	Santa Barbara	Santa Barbara	Recycled Resource Extraction	Mixed Recycling	\$32,403,272.00	\$2,728,355.50	\$0.00	\$0.00	0%	\$80,208	\$2,985,127	\$336,980	75	11	Inactive
298	16-SM022	2016	10/18/2016	EDCO Disposal Corporation	San Diego	San Diego	Recycled Resource Extraction	Mixed Recycling	\$10,000,000.00	\$842,000.00	\$0.00	\$0.00	0%	\$47,049	\$961,493	\$166,542	45	5	Inactive
299	16-SM023	2016	10/18/2016	EDCO Transport Services	Signal Hill	Los Angeles	Recycled Resource Extraction	Mixed Recycling	\$10,500,000.00	\$884,100.00	\$0.00	\$0.00	0%	\$48,397	\$1,094,340	\$258,637	37	5	Inactive
300	16-SM026	2016	12/13/2016	XT Green, Inc.	Corona	Riverside	Advanced Manufacturing	Advanced Carpet Recycling	\$8,970,500.00	\$755,316.00	\$186,237.83	\$2,216,005.00	25%	N/A	\$2,260,835	\$1,505,519	84	15	Inactive
301	17-SM001	2017	1/17/2017	North Fork Community Power	North Fork	Madera	Alternative Source	Biomass Processing and Fuel Production	\$6,819,733.00	\$574,222.00	\$447,466.94	\$5,296,597.00	78%	\$276,774	\$940,730	\$643,283	24	3	Inactive
302	17-SM008	2017	9/19/2017	Aemerge RedPak Services Southern California, LLC	Hesperia	San Bernardino	Advanced Manufacturing	Medical Waste Recycling	\$37,000,676.00	\$3,115,456.92	\$576,519.84	\$6,863,147.63	19%	N/A	\$3,399,447	\$283,990	55	9	Inactive
303	17-SM010	2017	8/15/2017	Verdeco Recycling, Inc.	South Gate	Los Angeles	Advanced Manufacturing	Recycled Food Packaging Manufacturing	\$4,940,350.00	\$415,977.00	\$0.00	\$0.00	0%	N/A	\$1,699,834	\$1,283,856	8	1	Inactive
304	17-SM012	2017	1/17/2017	TAP Power LLC	Arcata	Humboldt	Alternative Source	Biomass Processing and Fuel Production	\$9,213,514.00	\$775,778.00	\$0.00	\$0.00	0%	\$340,641	\$1,120,388	\$685,251	33	4	Inactive
305	17-SM016	2017	3/21/2017	Colony Energy Partners- Tulare, LLC	Tulare	Tulare	Alternative Source	Biomass Processing and Fuel Production	\$20,800,000.00	\$1,751,360.00	\$0.00	\$0.00	0%	\$581,721	\$2,675,765	\$1,506,126	49	7	Inactive

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306	17-SM017	2017	3/21/2017	FoodService Partners, LLC	Richmond	Contra Costa	Advanced Manufacturing	Advanced Food Production	\$8,500,000.00	\$715,700.00	\$0.00	\$0.00	0%	N/A	\$6,165,933	\$5,450,233	240	15	Inactive
307	17-SM020	2017	4/18/2017	CALAMCO NH3 LLC	Taft	Kern	Advanced Manufacturing	Fertilizer Production	\$107,607,827.00	\$9,060,579.00	\$0.00	\$0.00	0%	N/A	\$16,925,300	\$7,864,721	84	11	Inactive
308	17-SM023	2017	6/20/2017	Organic Energy Solutions, LLC	San Bernardino	San Bernardino	Alternative Source	Biomass Processing and Fuel Production	\$24,440,000.00	\$2,057,848.00	\$1,909,275.11	\$22,830,142.80	93%	\$602,601	\$1,552,332	\$97,085	106	17	Inactive
309	17-SM044	2017	6/20/2017	Sunergy California LLC	McClellan	Sacramento	Alternative Source	Solar Photovoltaic Manufacturing	\$7,823,286.00	\$658,720.68	\$378,700.22	\$4,526,931.17	58%	\$2,877,987	\$3,761,032	\$5,980,298	195	12	Inactive
310	17-SM046	2017	7/18/2017	Pacific Ethanol Stockton, LLC	Stockton	San Joaquin	Alternative Source	Biogas Capture and Production	\$5,932,500.00	\$499,516.50	\$0.00	\$0.00	0%	\$273,362	\$693,533	\$467,378	31	5	Inactive
311	17-SM048	2017	6/20/2017	Tracy Renewable Energy, LLC	Tracy	San Joaquin	Alternative Source	Ethanol Production	\$52,246,456.00	\$4,399,151.60	\$0.00	\$0.00	0%	\$1,620,925	\$15,913,811	\$13,135,585	97	10	Inactive
312	17-SM050	2017	6/20/2017	eco.logic brands, inc.	Manteca	San Joaquin	Advanced Manufacturing	Recycled Paper Bottles Manufacturing	\$6,944,000.00	\$584,685.00	\$585,738.72	\$6,944,000.69	100%	N/A	\$757,657	\$172,972	66	5	Inactive
313	17-SM051	2017	6/20/2017	Schlosser Forge Company	Rancho Cucamonga	San Bernardino	Advanced Manufacturing	Aero Engine Ring Forging	\$53,568,357.00	\$4,510,455.66	\$0.00	\$0.00	0%	N/A	\$4,530,814	\$20,359	263	17	Inactive
314	17-SM064	2017	12/19/2017	WIE-AGRON Bioenergy, LLC	Watsonville	Santa Cruz	Alternative Source	Biodiesel Production	\$3,500,000.00	\$294,700.00	\$171,129.67	\$2,047,005.61	58%	\$116,974	\$909,611	\$731,885	18	1	Inactive
315	18-SM005	2018	3/20/2018	Thermal Technology, LLC	Santa Rosa	Sonoma	Advanced Manufacturing	Additive Manufacturing	\$8,726,448.00	\$729,531.00	\$0.00	\$0.00	0%	N/A	\$799,519	\$69,988	21	2	Inactive
316	18-SM010	2018	5/15/2018	GB CNC Services, LLC	Fountain Valley	Orange	Advanced Manufacturing	Turned Part Manufacturing	\$7,680,000.00	\$642,048.00	\$23,441.17	\$280,396.80	4%	N/A	\$1,164,200	\$522,152	37	2	Inactive
317	18-SM012	2018	6/19/2018	Chanje Energy, Inc.	Hawthorne	Los Angeles	Advanced Transportation	Electric Vehicle Manufacturing	\$22,329,400.00	\$1,866,738.00	\$0.00	\$0.00	0%	\$15,578,624	\$71,861,266	\$85,573,152	260	15	Inactive
318	18-SM020	2018	8/21/2018	WIE-AGRON Bioenergy, LLC	Watsonville	Santa Cruz	Alternative Source	Biodiesel Production	\$7,685,000.00	\$642,466.00	\$0.00	\$0.00	0%	\$73,544	\$1,216,403	\$647,480	45	7	Inactive
319	18-SM023	2018	9/18/2018	Katerra Construction LLC	Tracy	San Joaquin	Advanced Manufacturing	Multifamily Unit Building Component Manufacturing	\$71,608,261.00	\$5,986,451.00	\$4,231,673.60	\$50,611,919.78	71%	N/A	\$15,745,595	\$9,759,144	680	50	Inactive
320	18-SM033	2018	11/13/2018	Nate's Fine Foods LLC	Roseville	Placer	Advanced Manufacturing	Advanced Food Production	\$5,886,000.00	\$492,070.00	\$37,793.52	\$452,075.52	8%	N/A	\$1,312,727	\$820,658	79	5	Inactive
321	18-SM035	2018	12/18/2018	UTCAS, LLC	Bakersfield	Kern	Advanced Manufacturing	Rail Transportation Manufacturing	\$3,174,400.00	\$265,380.00	\$109,114.90	\$1,305,202.10	41%	N/A	\$599,624	\$334,244	41	3	Inactive
322	18-SM037	2018	12/18/2018	Aemetis Advanced Products Keyes, Inc.	Riverbank	Stanislaus	Alternative Source	Biomass Processing and Fuel Production	\$153,076,838.00	\$12,797,224.00	\$207,328.00	\$2,480,000.00	2%	\$1,371,022	\$17,565,901	\$6,139,699	622	72	Inactive
323	18-SM038	2018	12/18/2018	Drink, Inc.	Richmond	Contra Costa	Advanced Manufacturing	Beverage Bottling Manufacturing	\$3,636,029.00	\$303,972.00	\$90,125.90	\$1,078,061.00	30%	N/A	\$1,897,358	\$1,593,386	62	4	Inactive
324	19-SM001	2019	2/19/2019	Biogas Energy, Inc.	Roseville	Placer	Alternative Source	Biomass Processing and Fuel Production	\$3,867,000.00	\$323,281.00	\$276,242.49	\$3,301,019.00	85%	\$75,504	\$359,170	\$111,392	8	1	Inactive
325	19-SM002	2019	6/18/2019	Verdeco Recycling, Inc.	South Gate	Los Angeles	Advanced Manufacturing	Recycled Food Packaging Manufacturing	\$13,118,950.00	\$1,096,744.00	\$395,927.34	\$4,735,973.00	36%	N/A	\$4,906,568	\$3,809,824	22	3	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	
326	19-SM025	2019	5/21/2019	Fortis Solution Group West, LLC	Napa	Napa	Advanced Manufacturing	Advanced Packaging Label Production	\$7,045,460.00	\$589,000.00	\$359,016.14	\$4,294,451.46	61%	N/A	\$1,071,413	\$482,413	59	4	Inactive
327	19-SM026	2019	5/21/2019	Taft Ammonia Company, LLC	Taft	Kern	Advanced Manufacturing	Fertilizer Production	\$239,234,449.00	\$20,000,000.00	\$0.00	\$0.00	0%	N/A	\$41,686,059	\$21,686,059	120	17	Inactive
328	20-SM004	2020	1/21/2020	AltAir Paramount, LLC	Paramount	Los Angeles	Alternative Source	Renewable Diesel Production	\$119,617,224.00	\$10,000,000.00	\$0.00	\$0.00	0%	\$5,644,576	\$69,745,006	\$65,389,582	532	28	Inactive
329	20-SM021	2020	3/17/2020	Southpoint Biogas LLC	Madera	Madera	Alternative Source	Dairy Biogas Production	\$8,432,257.00	\$704,937.00	\$0.00	\$0.00	0%	\$87,376	\$1,196,391	\$578,830	70	7	Inactive
330	21-SM005	2021	3/16/2021	ENV-TWO, LLC	Hanford	Kings	Alternative Source	Dairy Biogas Production	\$7,983,153.00	\$678,568.00	\$12,178.15	\$143,272.39	2%	\$143,388	\$761,158	\$225,978	47	5	Inactive
331	21-SM006	2021	3/16/2021	ENV-FOUR, LLC	Hanford	Kings	Alternative Source	Dairy Biogas Production	\$8,216,553.00	\$698,407.00	\$2,702.60	\$31,795.33	0%	\$163,244	\$849,582	\$314,419	47	5	Inactive
332	21-SM007	2021	3/16/2021	ENV-THREE, LLC	Corcoran	Kings	Alternative Source	Dairy Biogas Production	\$8,784,628.00	\$746,693.00	\$12,750.00	\$150,000.00	2%	\$169,593	\$887,199	\$310,098	47	6	Inactive
333	21-SM014	2021	3/16/2021	Green Impact Manufacturing, LLC	Vernon	Los Angeles	Advanced Manufacturing	Plastic Recycling and Thermoform Product Manufacturing	\$16,008,067.00	\$1,360,686.00	\$0.00	\$0.00	0%	N/A	\$5,246,166	\$3,885,481	32	2	Inactive
334	21-SM015	2021	3/16/2021	Fortress North America, LLC	Rocklin	Placer	Advanced Manufacturing	Fire Retardant Manufacturing	\$5,094,248.00	\$433,011.00	\$0.00	\$0.00	0%	N/A	\$3,203,763	\$2,770,752	35	2	Inactive
335	19-SM032	2019	7/16/2019	South Bayside Waste Management Authority	San Carlos	San Mateo	Alternative Source	Organics and Municipal Solid Waste	\$11,260,000.00	\$941,336.00	\$87,675.24	\$1,048,746.89	9%	\$69,820	\$1,932,190	\$1,060,674	22	2	Inactive
336	20-SM012	2020	3/17/2020	Virgin Orbit, LLC	Long Beach	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$18,001,109.00	\$1,504,893.00	\$669,584.11	\$7,907,746.45	44%	N/A	\$5,301,512	\$3,796,619	707	16	Inactive
336							Totals:		\$14,902,363,251.43	\$1,257,654,509	\$690,082,722.41	\$8,182,466,086.34	55%	\$415,561,664	\$2,554,581,097	\$1,712,489,353	130,781	6,762	

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, 8.5% in October 2020, 8.36% in October 2022, and 8.44% in December 2023.

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, 8.5% in October 2020, and 8.36% in October 2022.

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 2023**



Appendix B: Sales and Use Tax Exclusion Applications Received for Consideration in 2023

	Applicant Name	Project Location	Eligibility Pathway	Qualified Property Amount	Estimated STE Amount	Status
1	North Fork Community Power LLC	Northfork, Madera County	Alternative Source	\$6,277,500.00	\$524,799	Approved July 2023
2	DeGroot South Biogas LLC	Hanford, Kings County	Alternative Source	\$15,669,119.00	\$1,309,938	Approved July 2023
3	CalBioGas PB LLC	Bakersfield, Kern County	Alternative Source	\$17,887,753.00	\$1,495,416	Approved July 2023
4	CalBioGas Hanford LLC	Hanford, Kings County	Alternative Source	\$4,025,000.00	\$336,490	Approved July 2023
5	Universal Waste Systems, Inc.	Los Angeles, Los Angeles County	Recycling	\$8,000,000.00	\$668,800	Approved July 2023
6	Universal Waste Systems, Inc. - Santa Fe Springs	Santa Fe Springs, Los Angeles County	Recycling	\$3,000,000.00	\$250,800	Combined Application with Universal Waste Systems, Inc.
7	Southpoint Biogas LLC	Madera, Madera County	Alternative Source	\$10,180,551.00	\$851,094	Approved July 2023
8	Mariposa Bioenergy LLC	Mariposa, Mariposa County	Alternative Source	\$18,970,000.00	\$1,585,892	Approved July 2023
9	Aemetis Biogas, LLC	Turlock, Stanislaus County	Alternative Source	\$17,366,750.00	\$1,451,860	Approved July 2023
10	Biggs Bioenergy LLC	Biggs, Butte County	Alternative Source	\$16,490,000.00	\$1,378,564	Approved July 2023
11	Touchstone Pistachio Company, LLC	Fresno, Fresno County	Advanced Manufacturing	\$23,850,000.00	\$1,993,860	Approved July 2023
12	Nanoshift LLC.	Richmond, Contra Costa County	Advanced Manufacturing	\$5,300,000.00	\$443,080	Approved July 2023
13	Applied Materials, Inc.	Santa Clara, Santa Clara	Advanced Manufacturing	\$23,750,000.00	\$1,985,500	Approved July 2023
14	Intuitive Surgical, Inc. and its Subsidiary, Intuitive Surgical Operations, Inc.	Sunnyvale, Santa Clara County	Advanced Manufacturing	\$23,400,000.00	\$1,956,240	Approved July 2023
15	Heirloom Carbon Technologies, Inc.	Tracy, San Joaquin County	Advanced Manufacturing	\$5,232,013.00	\$437,396	Approved July 2023

Appendix B: Sales and Use Tax Exclusion Applications Received for Consideration in 2023

	Applicant Name	Project Location	Eligibility Pathway	Qualified Property Amount	Estimated STE Amount	Status
16	Newlight Technologies, Inc.	Huntington Beach, Orange County	Advanced Manufacturing	\$17,949,389.00	\$1,500,569	Approved July 2023
17	EUV Tech, Inc.	Martinez, Contra Costa County	Advanced Manufacturing	\$9,632,985.00	\$805,318	Approved July 2023
18	BHE Renewables, LLC and its subsidiaries Magma Power Company, Elmore North Geothermal LLC and CalEnergy Operating Corp.	Calipatria, Imperial County	Alternative Source	\$479,859,455.00	\$40,116,250	Approved July 2023
19	Applied Materials, Inc. (AT)	Santa Clara, Santa Clara	Advanced Transportation	\$86,000,000.00	\$7,189,600	Approved July 2023
20	CalBioGas Hilmar LLC	Hilmar, Merced County	Alternative Source	\$27,913,228.00	\$2,333,546	Approved July 2023
21	CalBioGas South Tulare III LLC	Tulare, Tulare County	Alternative Source	\$31,203,982.00	\$2,608,653	Approved July 2023
22	Aptera Motors Corp.	Carlsbad, San Diego County	Advanced Transportation	\$81,180,644.00	\$6,786,702	Approved July 2023
23	HC (Contra Costa), LLC	Pittsburg, Contra Costa County	Alternative Source	\$119,617,224.00	\$10,000,000	Approved July 2023
24	CalBioGas Gustine LLC	Bakersfield, Kern County	Alternative Source	\$47,190,798.00	\$3,945,151	Approved July 2023
25	Enovix Corporation	Fremont, Alameda County	Advanced Manufacturing	\$32,041,608.00	\$2,678,678	Approved July 2023
26	East County Advanced Water Purification Joint Powers Authority	Santee, San Diego County	Alternative Source	\$105,101,474.00	\$8,786,483	Approved July 2023
27	Hell's Kitchen LithiumCo 1 LLC (HKL1)	Calipatria, Imperial County	Advanced Manufacturing	\$239,234,449.76	\$20,000,000	Approved July 2023
28	Anaergia Technologies, LLC	Marina, Monterey County	Alternative Source	\$5,212,500.00	\$435,765.00	Approved September 2023
29	Raven SR S1 LLC	Richmond, Contra Costa County	Alternative Source	\$29,824,330.00	\$2,493,314	Approved September 2023

Appendix B: Sales and Use Tax Exclusion Applications Received for Consideration in 2023

	Applicant Name	Project Location	Eligibility Pathway	Qualified Property Amount	Estimated STE Amount	Status
30	Pratt & Whitney, a division of RTX Corporation	Carlsbad, San Diego County	Advanced Transportation	\$41,262,000.00	\$3,449,503	Approved September 2023
31	Vernon Green Hydrogen	Vernon, Los Angeles	Alternative Source	\$17,313,666.00	\$1,447,422.48	Approved September 2023
32	Biofuels San Bernadino BioGas, LLC	Rialto, San Bernardino County	Alternative Source	\$40,195,160.00	\$3,360,315	Approved September 2023
33	WM Renewable Energy, L.L.C.	Simi Valley, Ventura County	Alternative Source	\$53,807,523.00	\$4,498,309	Approved September 2023
34	Northrop Grumman Systems Corporation	Palmdale, Los Angeles County	Advanced Manufacturing	\$297,501,045.00	\$24,871,087	Approved December 2023
35	Shafter Hydrogen Hub LLC	Shafter, Kern County	Advanced Manufacturing	\$239,234,450.00	\$20,000,000	Was waitlisted, no funding became available during year. Waitlist expired at end of year
36	Boehringer Ingelheim Fremont, Inc.	Fremont, Alameda County	Advanced Manufacturing	\$100,000,000.00	\$8,360,000	Was waitlisted, no funding became available during year. Waitlist expired at end of year
37	Niagara Bottling, LLC	Stockton, San Joaquin County	Advanced Manufacturing	\$277,349,337.00	\$23,186,405	Was waitlisted, no funding became available during year. Waitlist expired at end of year
38	FUJIFILM Diosynth Biotechnologies California Inc.	Thousand Oaks, Ventura County	Advanced Manufacturing	\$93,600,769.00	\$7,825,024	Was waitlisted, no funding became available during year. Waitlist expired at end of year
39	Terabase Energy, Inc.	Davis, Yolo County	Advanced Manufacturing	\$23,830,000.00	\$1,992,188.00	Incomplete

Appendix B: Sales and Use Tax Exclusion Applications Received for Consideration in 2023

	Applicant Name	Project Location	Eligibility Pathway	Qualified Property Amount	Estimated STE Amount	Status
40	Space Exploration Technologies Corp	Hawthorne, Los Angeles County	Advanced Manufacturing	\$119,617,224.00	\$10,000,000	Withdrew
41	CalBioGas Escalon LLC	Bakersfield, Kern County	Alternative Source	\$45,218,420.00	\$3,780,259.91	Withdrew
42	Hell's Kitchen PowerCo 1 LLC (HKP1)	Calipatria, Imperial County	Alternative Source	\$239,234,449.76	\$20,000,000	Withdrew
43	FUJIFILM Irvine Scientific, Inc.	Santa Ana, Orange County	Advanced Manufacturing	\$36,033,153.00	\$3,012,372	Withdrew
44	Origin Materials Operating, Inc.	West Sacramento, Yolo County	Advanced Manufacturing	\$430,881.00	\$36,021.65	Withdrew

**APPENDIX C:
PACE LOSS RESERVE PROGRAM
ENROLLMENT ACTIVITY THROUGH 2023**



Appendix C: PACE Loss Reserve Program Enrollment Activity through 2023

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	117,933	\$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	146,850	\$3,470,507,937.82	

Appendix C: PACE Loss Reserve Program Enrollment Activity through 2023

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	156,379	\$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 2023

Year	Program	New Financings		Actual Total		New Financings		Estimated Total	
		January 1st – June 30th		Outstanding Portfolio		July 1st – December 31st		Enrolled Portfolio	
				Through June 30th*				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

Appendix C: PACE Loss Reserve Program Enrollment Activity through 2023

Year	Program	New Financings		Actual Total		New Financings		Estimated Total	
		January 1st – June 30th		Outstanding Portfolio		July 1st – December 31st		Enrolled Portfolio	
				Through June 30th*				Through December 31st*	
2023	1 mPOWER Placer***	-	\$0.00	456	\$9,475,745.65	-	\$0.00	456	\$9,475,745.65
	2 mPOWER Folsom***	-	\$0.00	29	\$480,808.84	-	\$0.00	29	\$480,808.84
	3 Berkeley FIRST***	-	\$0.00	7	\$95,099.53	-	\$0.00	7	\$95,099.53
	4 CaliforniaFIRST	392	\$18,163,826.64	9,474	\$238,621,542.76	250	\$11,614,485.66	9,724	\$250,236,028.42
	5 Sonoma County	67	\$2,823,594.18	794	\$19,045,161.25	48	\$1,804,774.66	842	\$20,849,935.91
	6 WRCOG HERO***	-	\$0.00	5,959	\$92,074,536.89	-	\$0.00	5,959	\$92,074,536.89
	7 SANBAG HERO***	-	\$0.00	4,166	\$62,192,951.73	-	\$0.00	4,166	\$62,192,951.73
	8 California HERO***	-	\$0.00	16,683	\$292,715,828.73	-	\$0.00	16,683	\$292,715,828.73
	9 AllianceNRG**	-	\$0.00	637	\$22,532,855.85	-	\$0.00	637	\$22,532,855.85
	10 CaliforniaFIRST (LA)***	-	\$0.00	2,574	\$71,679,686.56	-	\$0.00	2,574	\$71,679,686.56
	11 LA HERO**	-	\$0.00	15,497	\$378,241,452.46	-	\$0.00	15,497	\$378,241,452.46
	12 Ygrene	6	\$115,446.30	10,322	\$285,855,923.00	2	\$30,759.33	10,324	\$285,886,682.33
	13 Home Run Financing ****	641	\$27,331,250.84	9,414	\$348,032,553.31	533	\$22,236,624.27	9,947	\$370,269,177.58
	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	48	\$1,318,632.27	-	\$0.00	48	\$1,318,632.27
	19 mPower Pioneer***	-	\$0.00	162	\$4,680,678.94	-	\$0.00	162	\$4,680,678.94
	20 Home Run Financing (WRCOG)***	-	\$0.00	366	\$9,029,234.32	-	\$0.00	366	\$9,029,234.32
	21 Home Run Financing (LA)**	-	\$0.00	949	\$36,779,252.70	-	\$0.00	949	\$36,779,252.70
	22 FortiFi Financial CSCDA	181	\$8,336,084.26	1,748	\$65,263,981.36	253	\$9,847,838.41	2,001	\$75,111,819.77
Total:		1,287	\$56,770,202.22	85,375	\$2,122,839,216.61	1,086	\$45,534,482.33	86,461	\$2,168,373,698.94

* The total enrolled portfolio through December 31st is an estimate because the numbers do not take into account any payments made since July 1st.
 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