



California Department of  
Community Services & Development

# LOW-INCOME WEATHERIZATION PROGRAM

Supplemental Report



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## Preface

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This report is being produced pursuant to a Supplemental Report of the 2017-18 Budget Act (Item 4700-101-0001), which reads:

Beginning July 2017, the Department of Community Services and Development shall provide quarterly briefings to the Legislature and key stakeholders on the status of current and future procurement processes for the Low-Income Weatherization Program (LIWP).

For implementation of any current contracts, including LIWP Phase II, the updates shall include, but not be limited to,

- (a) a summary of the contract agreements,
- (b) expenditure reports,
- (c) the number and specific geographic location of residents served,
- (d) other outcome information to demonstrate performance and effectiveness under the contracts,
- (e) an explanation of any administrative or programmatic challenges that the department or local organizations have faced in implementing the regional administrator model, and
- (f) details around the number of locally based organizations working with the regional administrators.

For any future procurement processes, the updates shall include, but not be limited to

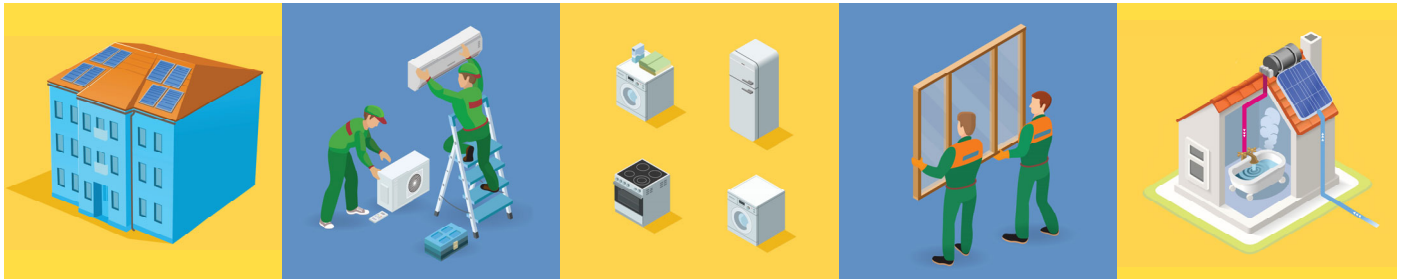
- (a) information and justification of any changes to the procurement process and
- (b) details on how stakeholders have been engaged in any upcoming changes to the procurement process.

Updates shall also include information on how LIWP funding from prior years has been spent (including identifying barriers to spending the full allocation).

Written materials prepared by the department documenting and tracking the information requested in this language over time is expected at each of the quarterly briefings.



California's Low-Income Weatherization Program provides low-income households with:



**Rooftop Solar PV**

**Energy Efficient Heating & Air Conditioning**

**Energy Efficient Appliances & Lighting**

**Window Replacement**

**Solar Water Heaters & More**

California's Low-Income Weatherization Program (LIWP) provides low-income households with solar photovoltaic (PV) systems and energy efficiency upgrades at no cost to residents.

Administered by the California Department of Community Services and Development (CSD), LIWP is designed with the primary goal of reducing greenhouse gas (GHG) emissions by saving energy and generating clean renewable power. But just as importantly, the program reduces residential energy expenses for low-income households, strengthening their economic security.

LIWP is the only program of its kind in California that focuses exclusively on serving low-income households with solar and energy efficiency upgrades at no cost. By doing so, the program plays an important role in ensuring that all Californians have the opportunity to benefit from California's Climate Investments and services.

LIWP funds energy efficiency upgrades and solar for low-income single-family homes and multi-family affordable housing. These upgrades improve the livability of housing and contribute to the health of communities through improved air quality. They also help lower operating costs for affordable housing administrators, helping to preserve valuable below-market housing for low-income families.

LIWP also helps cushion the impact of climate change on vulnerable communities, making it more affordable for low-income households to keep their homes cool and comfortable at a lower cost – such as through energy efficient air conditioning or improved insulation – and protect children and seniors from the health impacts of higher temperatures. And, as many low-income Californians are already struggling to make ends meet – and spending a higher proportion of their income on housing than ever before – LIWP can help by lowering utility bills and freeing up limited disposable income for other critical expenses.

CSD has been appropriated \$212 million for LIWP from the Greenhouse Gas Reduction Fund since Fiscal Year (FY) 2014/15. LIWP is part of California Climate Investments, a statewide initiative that puts billions of Cap-and-Trade dollars to work reducing GHG emissions, strengthening the economy and improving public health and the environment.

## LIWP currently funds the following program components:

### **Farmworker Housing Component: Single-Family Energy Efficiency & Solar PV**

*Allocation: \$10.7 million    Expenditures: \$1.8 million*

The \$10.7 million LIWP Farmworker Housing Component focuses on the direct installation of energy efficiency measures and solar PV systems for single-family farmworker households. The program is currently providing services across 12 counties with the highest farmworker populations. La Cooperativa Campesina de California was named the administer of the Farmworker Housing Component following a competitive procurement. Services commenced in August 2019.

### **Multi-Family Energy Efficiency & Renewables**

*Allocation: \$63.9 million    Expenditures: \$28.7 million*

LIWP Multi-Family provides technical assistance and incentives for the installation of energy efficiency measures and solar PV in low-income multi-family dwellings serving priority populations. Multi-family farmworker housing is also specifically targeted for services. From FY 2014/15 to FY 2019/20, the Multi-Family component has been allocated \$63.9 million under LIWP.

### **Community Solar Pilot**

*Allocation: \$4.4 million    Expenditures: \$500,000*

The new \$4.4 million LIWP Community Solar Pilot is designed to expand access to renewable energy for low-income households that do not have the ability to participate in existing solar PV programs. These are the first community solar projects in California dedicated to serving low-income households. Two projects are scheduled to be completed by 2021:

- GRID Alternatives/Santa Rosa Band of Cahuilla Indians, Riverside County - \$2.05 million
- GRID Alternatives/City of Richmond, Contra Costa County - \$2.38 million

## Suspended program components:

### **Single-Family Energy Efficiency & Solar PV**

*Allocation: \$57.6 million    Expenditures: \$57.6 million*

The LIWP Single-Family Energy Efficiency & Solar PV Regional Administrator Component concluded in April 2019. A regionally administered program that installed no-cost energy efficiency measures, solar water heating, and solar PV in disadvantaged communities statewide, this component served 6,756 households, including 1,486 that received no cost solar PV systems. This program component has sunset pending future funding.

### **Statewide Single-Family Solar PV**

*Allocation: \$51 million    Expenditures: \$51 million*

The LIWP Single-Family Solar PV Program Component concluded in 2018. This component provided 3,160 low-income households in disadvantaged communities statewide with no-cost solar PV systems. This program component has sunset pending future funding.

**Department of Community Services and Development  
Low-Income Weatherization Program (LIWP) Supplemental Report**

**LIWP Fiscal Year 2014/15 Appropriation [as of 06/30/2019]**

**Total Allocations:** \$70.3 million<sup>1</sup>

**Total Expenditures:** \$70.3 million

<b>Program Component</b>	<b>Single-Family Energy Efficiency</b>	<b>Single-Family Solar Photovoltaics</b>	<b>Multi-Family Energy Efficiency &amp; Renewables</b>
<b>Allocations</b>	\$12.4 million	\$40 million	\$17.9 million
<b>Expenditures</b>	\$12.4 million	\$40 million	\$17.9 million
<b>Balance</b>	\$0	\$0	\$0
<b>Contract(s)</b> <i>See Attachment A</i>	Multiple Agencies	<ul style="list-style-type: none"> <li>• GRID Alternatives</li> <li>• Fresno Economic Opportunities Commission</li> </ul>	Association for Energy Affordability
<b>Contract Terms</b>	01/2015 to 12/2017	01/2015 to 06/2018	12/2015 to 06/2021
<b>Households Served</b>	8,968	2,530	4,492

**Program Details**

**Single-Family Energy Efficiency**

**Status:** This phase of the Low-Income Weatherization Program (LIWP) has sunset. LIWP Single-Family Energy Efficiency services are currently limited to the LIWP Farmworker Housing Component within a 12-county service area. Details about the Farmworker Housing Component can be found in the FY 2017/18 Appropriation section of this report (page 9).

**Description:** Funded no-cost energy efficiency measures for single-family and small multi-family low-income homes that included (among other measures) insulation, replacing windows, repair/replacement of water heaters and heating, ventilation and air conditioning systems, and solar water heaters. The program reduces greenhouse gas (GHG) emissions through lower energy demand and reduces energy costs for low-income residents. Eligibility for services was 60 percent of State Median Income and services were limited to disadvantaged communities.

**Households Served:** 8,968 low-income households located in disadvantaged communities statewide received no cost energy efficiency services under this program component. For the locations of households served under LIWP and other project level details, visit the California Climate Investments Project Map at <https://webmaps.arb.ca.gov/ccimap/>.

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<sup>1</sup> Amount reflects total local assistance funding.

## Department of Community Services and Development Low-Income Weatherization Program (LIWP) Supplemental Report

**Contracts:** The California Department of Community Services and Development (CSD) originally allocated Single-Family Energy Efficiency funding to agencies in CSD's network of local energy service providers serving designated disadvantaged communities. After receiving reappropriation authority in the FY 2017/18 State Budget, CSD allocated \$482,410 in remaining FY 2014/15 LIWP Single-Family Energy Efficiency funds to nine providers that requested additional funding. Of that total, approximately \$200,000 was not expended by the end of the contract period and was reallocated to the Single-Family Solar PV Pilot coordinated by the Fresno Economic Opportunities Commission (Fresno EOC). See Attachment A for contract details.

### **Single-Family Solar PV**

**Status:** This phase of LIWP has sunset. Single-family solar photovoltaic (PV) services were also delivered as a standalone program component under the FY 2015/16 Appropriation and as part of the Single-Family Energy Efficiency & Solar PV Regional Administrator Component. Single-family solar PV services are currently limited to the Farmworker Housing Component within a 12-county service area. Details about the Farmworker Housing Component can be found in the FY 2017/18 Appropriation section of this report (page 10).

**Description:** Funded solar PV installations for low-income single-family dwellings in disadvantaged communities at no cost to residents. The program was administered through a single provider administering services on a statewide basis, and a solar PV pilot. These projects reduce residential energy demand, GHG, and air pollutant emissions associated with conventional energy generation. The low-income residents of disadvantaged communities that participated in this program benefit from lower energy costs. Communities can also benefit from improved air quality and public health. Eligibility for services was 80 percent of county Area Median Income or 60 percent of State Median Income, whichever was higher.

**Households Served:** 2,530 low-income households located in disadvantaged communities statewide have received no cost solar PV systems under this program component. For the locations of households served under LIWP and other project level details, visit the California Climate Investments Project Map at <https://webmaps.arb.ca.gov/ccimap/>.

**Contracts:** GRID Alternatives was selected to serve as the statewide Single-Family Solar PV provider following a competitive procurement. GRID received approximately \$27.3 million of the FY 2014/15 LIWP allocation for this purpose and fully expended. Fresno EOC coordinated a Solar PV Pilot through a consortium of nine agencies from within CSD's network of local energy service providers. After receiving reappropriation authority in the FY 2017/18 State Budget, CSD allocated approximately \$2 million in remaining FY 2014/15 LIWP single-family energy efficiency funds to augment Solar PV Pilot funding. Fresno EOC received approximately \$12.7 million in total of the FY 2014/15 LIWP allocation and fully expended. See Attachment A for contract details.

**Department of Community Services and Development  
Low-Income Weatherization Program (LIWP) Supplemental Report**

**Multi-Family Energy Efficiency & Renewables**

**Status:** On-going with subsequent years' funding.

**Description:** Funded technical assistance and financial incentives for the installation of energy-efficiency measures and solar PV in low-income multi-family dwellings occupied by priority populations. To qualify for services, 66 percent of a property's units must be occupied by households within incomes at or below 80 percent of county Area Median Income. These projects reduce residential energy demand and GHG emissions. The low-income residents that participate in this program can benefit from lower energy costs. The program also helps preserve affordable housing by reducing owner operating costs.

**Households Served:** Under the FY 2014/15 Appropriation, 42 properties consisting of 4,492 households received improvements that included energy efficiency retrofits and solar PV systems. For the locations of households served under LIWP and other project level details, visit the California Climate Investments Project Map at <https://webmaps.arb.ca.gov/ccimap/>.

**Contracts:** The Association for Energy Affordability (AEA) was selected to serve as the statewide administrator of the LIWP Multi-Family following a competitive procurement. AEA conducts energy audits and modeling to identify energy efficiency measures and renewables for installation in qualifying multi-family buildings, with assistance and incentive payments to property owners towards agreed-upon scopes of work. AEA received \$17.9 million of the FY 2014/15 allocation and fully expended. See Attachment A for contract details.



**Department of Community Services and Development  
Low-Income Weatherization Program (LIWP) Supplemental Report**

**LIWP Fiscal Year 2015/16 Appropriation [as of 06/30/2019]**

**Total Allocation:** \$74.7 million<sup>2</sup>

**Total Expenditure:** \$74.7 million

<b>Program Component</b>	<b>Single-Family Energy Efficiency &amp; Solar PV</b>	<b>Single-Family Solar PV</b>	<b>Multi-Family Energy Efficiency &amp; Renewables</b>
<b>Allocations</b>	\$57.6 million	\$10.9 million	\$6.1 million
<b>Expenditures</b>	\$57.6 million	\$10.9 million	\$6.1 million
<b>Balance</b>	\$0	\$0	\$0
<b>Contract(s)</b> <i>See Attachment A</i>	Four Regional Administrators over five regions	GRID Alternatives	Association for Energy Affordability
<b>Term</b>	2015/16 to 04/2019	08/2016 to 06/2018	12/2015 to 06/2021
<b>Households Served<sup>3</sup></b>	Total: 6,756 Solar PV: 1,486	630	346 (Phase 1 Project) 1,755 (Phase 2 Project)

**Program Details**

**Single-Family Energy Efficiency & Solar PV**

**Status:** The Single-Family Energy Efficiency & Solar PV Regional Administrator component has sunset. With the conclusion of this program component, LIWP is no longer providing single-family energy efficiency and solar PV services at a statewide scale. Resumption of statewide services is dependent on future funding. Single-family energy efficiency and solar PV services are currently limited to the Farmworker Housing Component within a 12-county service area. Details about the Farmworker Housing Component can be found in the FY 2017/18 Appropriation section of this report (page 9).

**Description:** Funded the installation of energy efficiency measures, solar water heating, and solar PV in low-income single-family dwellings in disadvantaged communities at no cost to residents across five designated service regions. The program was designed to effectively integrate energy efficiency and solar PV services and was administered on a regional basis to address challenges posed by the wide distribution of disadvantaged communities, varying climatic conditions from area to area, funding availability, and varying production costs. These projects reduce residential energy demand, GHG, and air pollutant emissions associated with conventional energy generation. The low-income residents of disadvantaged communities that participated in this program benefit from lower energy costs. Communities can also benefit from improved air quality and public health.

<sup>2</sup> Amount reflects total local assistance funding.

<sup>3</sup> Households reported served under Phase 1 includes only projects that solely benefitted from FY 2015/16 funds. Households reported as Phase 2 also received funding from the FY 2014/15 Appropriation for prior project phases.

## Department of Community Services and Development Low-Income Weatherization Program (LIWP) Supplemental Report

Eligibility for services was 80 percent of county Area Median Income or 60 percent of State Median Income, whichever was higher.

**Households Served:** Through the conclusion of services in April 2019, the LIWP FY 2015/16 Single-Family component completed projects for 6,756 households in the five regions served. This included 1,486 households that received no-cost solar PV systems. For the locations of households served under LIWP and other project level details, visit the California Climate Investments Project Map at <https://webmaps.arb.ca.gov/ccimap/>.

**Contracts:** Four Regional Administrators were selected to deliver services across five regions under the LIWP Single-Family Energy Efficiency and Solar PV Regional Administrator component following a competitive procurement. This component has concluded and the FY 2015/16 appropriation is fully expended. See Attachment A for Regional Administrator contract details.

**Programmatic Challenges:** Launch of the LIWP FY 2015/16 Single-Family component was delayed following protests to the competitive bid process identifying Regional Administrator awardees. Due to this delay, contracts were not finalized with the Regional Administrators until June 2017. When factoring in ramp-up time for the Regional Administrators to become fully operational, this left less than 12 months for contracts totaling \$57.6 million to be fully expended. CSD received reappropriation authority for any unexpended LIWP funding from FY 2015/16 in the FY 2018/19 State Budget. This program component concluded in April 2019. See Attachment A for Regional Administrator contract details.

**Community Partners:** LIWP Regional Administrators partnered with over 80 local community organizations to deliver services. A complete listing can be found in Attachment B.

### **Single-Family Solar PV**

**Status:** This phase of LIWP has sunset. Single-family solar PV services are currently limited to the Farmworker Housing Component within a 12-county service area. Details about the Farmworker Housing Component can be found in the FY 2017/18 Appropriation section of this report (page 10).

**Description:** Funded solar PV installations for low-income single-family dwellings in disadvantaged communities at no cost to residents. The program was administered through a single provider, GRID Alternatives, who administered services on a statewide basis. These projects reduce residential energy demand, GHG, and air pollutant emissions associated with conventional energy generation. The low-income residents of disadvantaged communities that participated in this program benefit from lower energy costs. Communities can also benefit from improved air quality and public health. Eligibility for services was 80 percent of county Area Median Income or 60 percent of State Median Income, whichever was higher.

**Households Served:** 630 low-income households located in disadvantaged communities statewide received no cost solar PV systems under the FY 2015/16 allocation. For the locations of households served under LIWP and other project level details, visit the California Climate Investments Project Map at <https://webmaps.arb.ca.gov/ccimap/>.

## Department of Community Services and Development Low-Income Weatherization Program (LIWP) Supplemental Report

**Contracts:** GRID Alternatives was selected to serve as the statewide Single-Family Solar PV provider following a competitive procurement. GRID received approximately \$10.9 million of the FY 2015/16 LIWP allocation for this purpose and fully expended. See Attachment A for contract details.

### **Multi-Family Energy Efficiency & Renewables**

**Status:** Ongoing with subsequent years funding.

**Description:** A detailed description of the Multi-Family Energy Efficiency & Renewables program component is provided in the prior section.

**Households Served:** Under the FY 2015/16 Appropriation, three new properties consisting of 346 households received improvements that include energy efficiency retrofits and solar PV systems. Another 16 multi-family properties consisting of 1,755 units that received phase one services funded out of the FY 2014/15 Appropriation also received funding from the FY 2015/16 Appropriation for additional project phases. For the locations of households served under LIWP and other project level details, visit the California Climate Investments Project Map at <https://webmaps.arb.ca.gov/ccimap/>.

**Contracts:** AEA continues to serve as the statewide administrator of the LIWP Multi-Family program component. AEA conducts energy audits and modeling to identify energy efficiency measures and renewables for installation in qualifying multi-family buildings, with assistance and incentive payments to property owners towards agreed-upon scopes of work. AEA received \$6.1 million of the FY 2015/16 allocation and has fully expended. See Attachment A for contract details.

**Department of Community Services and Development  
Low-Income Weatherization Program (LIWP) Supplemental Report**

**LIWP Fiscal Year 2016/17 Appropriation [as of 06/30/2019]**

**Total Allocation:** \$19 million<sup>4</sup>

<b>Program Component</b>	<b>Multi-Family Energy Efficiency &amp; Renewables</b>
<b>Allocations</b>	\$19 million
<b>Expenditures</b>	\$5.9 million <sup>5</sup>
<b>Balance</b>	\$13.1 million
<b>Contract</b>	Association for Energy Affordability
<b>Contract Term</b>	12/2015 to 06/2021
<b>Households Served<sup>6</sup></b>	1,241 (Phase 1 Project) <sup>7</sup> 630 (Phase 2 Project)

**Program Details**

**Multi-Family Energy Efficiency & Renewables**

**Status:** Ongoing.

**Description:** A detailed description of the Multi-Family Energy Efficiency & Renewables program component is provided in prior sections.

**Households Served:** Under the FY 2016/17 allocation, nine new properties consisting of 1,241 households received improvements that include energy efficiency retrofits and solar PV systems. Another three multi-family properties consisting of 630 units that received services funded out of prior fiscal year appropriations also received funding from the FY 2016/17 Appropriation for additional project phases. For the locations of households served under LIWP and other project level details, visit the California Climate Investments Project Map at <https://webmaps.arb.ca.gov/ccimap/>.

**Contracts:** AEA serves as the statewide administrator of the LIWP Multi-Family program component. AEA conducts energy audits and modeling to identify energy efficiency measures and renewables for installation in qualifying multi-family buildings, with assistance and incentive payments to property owners towards agreed-upon scopes of work. AEA received \$19 million of the FY 2016/17 allocation. See Attachment A for contract details.

**Programmatic Challenges:** The LIWP Multi-Family program component is oversubscribed and there continues to be strong market interest in the program's offerings. LIWP Multi-Family funds large capital outlay projects that can span multiple phases and be dependent on the timing of other

<sup>4</sup> Amount reflects total local assistance funding.

<sup>5</sup> Includes advances.

<sup>6</sup> As of September 30, 2019.

<sup>7</sup> Households reported served under Phase 1 includes only projects that solely benefitted from FY 2016/17 funds. Households reported as Phase 2 also received funding from prior FY appropriations for earlier project phases.

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Low-Income Weatherization Program (LIWP) Supplemental Report**

funding streams, including low-income housing tax credit resyndications. As a result, multi-family project phases can often take between six to 24 months following property enrollment before being completed. Since expenditures are not recorded until project phases are fully completed, expenditures do not wholly reflect current program activity. AEA anticipates expending its FY 2016/17 allocation within the expenditure period for this appropriation.

**Department of Community Services and Development  
Low-Income Weatherization Program (LIWP) Supplemental Report**

**LIWP Fiscal Year 2017/18 Appropriation [as of 06/30/2019]**

**Total Allocation: \$17.1 Million<sup>8</sup>**

<b>Program Component</b>	<b>Community Solar Pilot</b>	<b>Farmworker Housing Component: Single-Family Energy Efficiency &amp; Solar PV</b>	<b>Multi-Family Energy Efficiency &amp; Renewables</b>
<b>Allocations</b>	\$4.4 million	\$5.7 million	\$5 million (Farmworker Housing) \$2.1 million (Other)
<b>Expenditures<sup>9</sup></b>	\$500,000	\$1.8 million	\$0
<b>Balance</b>	\$3.9 million	\$3.9 million	\$7.1 million
<b>Contract(s)</b>	GRID Alternatives	La Cooperativa Campesina de California	Association for Energy Affordability
<b>Contract Terms</b>	N/A	N/A	12/2015 to 06/2021

**Program Details**

A total of \$18 million was appropriated through the FY 2017 Budget Act from the Greenhouse Gas Reduction Fund to CSD for the continuation of LIWP (Assembly Bill (AB) 109, Chapter 249, Statutes of 2017). These funds are specified to be used for low-income multi-family, solar, and farmworker weatherization programs. The 2018 Budget Act (Senate Bill (SB) 856, Chapter 30, Statutes of 2018) appropriated another \$10 million to LIWP and specified that at least \$2 million be used to provide low-income weatherization services for farmworker housing, with the balance for low-income solar and multi-family weatherization programs

As a result of these appropriations directing LIWP services for farmworker households, CSD has dedicated a total of \$10.7 million for energy efficiency and solar PV services to farmworker households through 2020. This includes \$10.7 million for single-family farmworker households under the LIWP Farmworker Housing Component, and \$5 million under the LIWP Multi-Family program component for rental properties that serve farmworkers.

Data from the California Department of Housing and Community Development and the United States Census suggests that in California there are approximately 422,000 farmworkers, with 69 percent residing in single-family dwellings and 31 percent residing in multi-family dwellings. Funding both energy efficiency and solar PV services for multi-family and single-family farmworker housing will ensure investments are made for all farmworker housing types.

CSD also committed \$4.4 million of the FY 2017/18 Appropriation for a Community Solar Pilot to expand LIWP solar PV services.

<sup>8</sup> Amount reflects total local assistance funding.

<sup>9</sup> Includes advances.

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Additionally, Senate Bill (SB) 89 (Chapter 24, Statutes of 2017) required CSD to develop new program processes and solicitations as part of its contract procurements for any future LIWP appropriations for single-family energy efficiency and renewable energy services. CSD has followed these requirements to develop the program design and procurement for the LIWP Farmworker Housing Component: Single-Family Energy Efficiency & Solar PV.

### **Community Solar Pilot**

**Status:** In progress.

**Description:** The LIWP Community Solar Pilot is designed to expand access to renewable energy for low-income households, including those that do not have the ability to install solar PV on their residence. Households that stand to benefit from community solar and associated reductions in energy costs are those that cannot currently participate in existing low-income solar PV program offerings – either due to lack of home ownership, inadequate roofing for solar PV, or other factors. CSD awarded a total of \$4.4 million in November 2018 to two community solar projects located in Contra Costa and Riverside Counties. These community solar projects are scheduled to be operational and delivering benefits in the first quarter of 2021.

**Contracts:** CSD announced awards to two Community Solar Pilot projects in November 2018 following a competitive procurement. GRID Alternatives Inland Empire was awarded \$2.05 million to install a 994-kilowatt (kW) ground mounted solar array in Riverside County in partnership with the Santa Rosa Band of Cahuilla Indians and the Anza Electric Cooperative, Inc. The community solar system will be sited on Santa Rosa Tribal lands in Riverside County, an area designated as a low-income community, and will benefit approximately 38 homes on tribal land and 150-250 other low-income households served by Anza Electric. The project is expected to produce more than 42,000,000 kilowatt hours (kWh) of energy over the next 30 years and provide up to \$5.4 million in savings to participants over the life of the project.

GRID Alternatives Bay Area was awarded \$2.38 million to install a 989-kW solar array in Contra Costa County in partnership with the City of Richmond. The community solar system will be sited at the Port of Richmond and demonstrate how solar can play a key role in decarbonizing California's ports. The project will benefit 155 low-income households in designated disadvantaged communities in Richmond. Approximately 80 to 95 percent of subscribers are anticipated to be residents of affordable housing properties near the Port of Richmond that are not good candidates for rooftop solar; and who will receive direct financial benefits equal to approximately 75 percent of typical renter electricity costs. The remaining five to 20 percent of subscribers will be local renters and homeowners that are not able to benefit from existing low-income solar programs. The community solar project is expected to generate approximately \$81,000 per year in revenue over 20 years for distribution to local low-income households.

**Stakeholder Engagement:** Prior to soliciting applications for the Community Solar Pilot in a competitive Notice of Funding Availability, CSD held numerous stakeholder engagement opportunities, commencing in January 2017 when the department hosted a Community Solar Pilot kick-off workshop. CSD continued to engage with stakeholders in the run-up to the final release of

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the Notice of Funding Availability (NOFA) in August 2018. During this process, CSD extended its procurement timeline in response to stakeholder feedback that the timeline was too compressed to complete local planning processes prior to the NOFA release. A complete schedule of stakeholder engagements can be found in the following table.

Date	Community Solar Pilot Stakeholder Engagement
<b>2017</b>	
January	<ul style="list-style-type: none"> <li>• Community Solar Pilot kick-off workshop</li> </ul>
July	<ul style="list-style-type: none"> <li>• Legislative Staff Briefing</li> <li>• Request for Information released</li> </ul>
August	<ul style="list-style-type: none"> <li>• Request for Information responses received</li> </ul>
November	<ul style="list-style-type: none"> <li>• Workshops in Sacramento, Fresno, and Los Angeles</li> <li>• Workshop survey released to participants</li> </ul>
December	<ul style="list-style-type: none"> <li>• Post-workshop survey responses received</li> </ul>
<b>2018</b>	
February	<ul style="list-style-type: none"> <li>• Legislative Staff Briefing</li> </ul>
May	<ul style="list-style-type: none"> <li>• Draft Program Design released to stakeholders for feedback</li> <li>• Webinar on Draft Program Design</li> </ul>
June	<ul style="list-style-type: none"> <li>• Draft Program Design comments received</li> <li>• Stakeholder Workshop in Fresno</li> <li>• Draft Program Guidelines released for comment</li> <li>• Notice of Funding Availability released for comment</li> </ul>
July	<ul style="list-style-type: none"> <li>• Stakeholder Workshops in Los Angeles and Sacramento</li> <li>• Public Hearing on Draft Program Guidelines</li> </ul>
August	<ul style="list-style-type: none"> <li>• Final Program Guidelines released</li> <li>• Final Notice of Funding Availability released</li> <li>• Bidders Conference held</li> <li>• Webinar on Best Practices in Solar Development and Oversight held</li> </ul>
November	<ul style="list-style-type: none"> <li>• Intent to Award Announced</li> </ul>

### **Farmworker Housing Component: Single-Family Energy Efficiency & Solar PV Program**

**Status:** In progress.

**Description:** A new program model was required for a single-family Farmworker Housing Component that focused on the direct installation of energy efficiency measures and solar PV systems in farmworker housing of one to four units. CSD undertook an almost 12 month program design and procurement cycle that included significant stakeholder engagement before releasing a competitive Request for Proposal to identify a Farmworker Housing Component Administrator in February 2019. Services administered by La Cooperativa Campesina de California under the single-family Farmworker Housing Component were launched in August 2019. The program is currently providing services across 12 counties with the highest farmworker populations (Fresno, Madera, Merced, Monterey, San Joaquin, Stanislaus, Imperial, Kern, Riverside, Santa Barbara, Tulare, and Ventura counties).

**Contracts:** La Cooperativa Campesina de California (La Cooperativa) was selected in April 2019 as the administrator of the Farmworker Housing Component following a competitive procurement. La Cooperativa has been awarded a total of \$10.7 million for the Farmworker Housing Component



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from the FY 2017/18 and 2018/19 Appropriations. At current funding levels, this program component is scheduled to conclude in December 2020.

**Stakeholder Engagement:** In 2018, CSD conducted numerous stakeholder engagement opportunities for the Farmworker Housing Component to solicit feedback on the structure of the program design and procurement. These started in March 2018 with the release of a Request for Information, and followed with workshops in Fresno in June and Sacramento in July. The June 2018 Fresno event also served as an Information Session on Solar PV Consumer Protections in partnership with the Office of Assemblymember Joaquin Arambula to share resources and increase awareness on how to protect consumers from unscrupulous solar PV contractors.

After receiving additional funding targeted for farmworker households in the FY 2018/19 State Budget, CSD held two additional workshops in Fresno and Bakersfield in October 2018, and another in Salinas in November 2018, to solicit feedback on a modified program design and procurement structure that expanded the number of counties that would be served under the program. CSD continued to solicit stakeholder feedback prior to, and after, the release of the Draft Request for Proposal (RFP).

Date	Single-Family Farmworker Stakeholder Engagement
<b>2018</b>	
March	<ul style="list-style-type: none"> <li>• Request for Information (RFI) inviting stakeholders to contribute information to assist the development of the program</li> </ul>
April	<ul style="list-style-type: none"> <li>• Request for Information responses received</li> <li>• Legislative Briefing on LIWP</li> </ul>
June	<ul style="list-style-type: none"> <li>• Draft Program Guidelines released for comment</li> <li>• Fresno Public Workshop, Program Design Presentation</li> <li>• Solar PV Consumer Protections Information Session</li> </ul>
July	<ul style="list-style-type: none"> <li>• Sacramento Workshop and Public Hearing on Draft Program Guidelines</li> </ul>
October	<ul style="list-style-type: none"> <li>• Fresno Public Workshop, Program Design and Technical Assistance Assessment</li> <li>• Bakersfield Public Workshop, Program Design and Technical Assistance Assessment</li> </ul>
November	<ul style="list-style-type: none"> <li>• Salinas Public Workshop, Program Design Revisions and Continued Engagement</li> <li>• Legislative Briefing on LIWP</li> </ul>
December	<ul style="list-style-type: none"> <li>• Update on Program Design and Stakeholder Feedback</li> </ul>
<b>2019</b>	
January	<ul style="list-style-type: none"> <li>• Overview of the Draft RFP</li> <li>• Draft RFP Comment Period</li> <li>• Technical Assistance Surveys</li> <li>• Online RFP Applicant Matchmaking Platform</li> </ul>
February	<ul style="list-style-type: none"> <li>• RFP Release</li> </ul>
April	<ul style="list-style-type: none"> <li>• Intent to Award Announced</li> </ul>

**Community Partners:** La Cooperativa has partnered with nine organizations to deliver services. A complete listing can be found in Attachment B.

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**Multi-Family Energy Efficiency & Renewables**

**Status:** Ongoing.

**Description:** A detailed description of the Multi-Family Energy Efficiency & Renewables program component is provided in prior sections.

**Contracts:** AEA continues to serve as the statewide administrator of the LIWP Multi-Family program component. AEA received \$7.1 million of the FY 2017/18 Appropriation. Of the \$7.1 million allocation to the Multi-Family program, an estimated \$2.8 million of the total allocation, or 40 percent, will go towards renewable energy/solar PV. Five million of this total has been set-aside for multi-family farmworker properties. These funds are committed. Six multi-family farmworker projects are currently underway, with six additional properties in the reservation process.

**Programmatic Challenges:** The LIWP Multi-Family program component is oversubscribed and there continues to be strong market interest in the program's offerings. LIWP Multi-Family funds large capital outlay projects that can span multiple phases and be dependent on the timing of other funding streams, including low-income housing tax credit resyndications. As a result, multi-family project phases can often take between six to 24 months following property enrollment before being completed. Since expenditures are not recorded until project phases are fully completed, expenditures do not wholly reflect current program activity. AEA anticipates fully expending its FY 2017/18 allocation within the expenditure period for this appropriation.

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**LIWP Fiscal Year 2018/19 Appropriation**

**Total Allocation:** \$9.5 Million<sup>10</sup>

<b>Program Component</b>	<b>Farmworker Housing Component: Single-Family Energy Efficiency &amp; Solar PV</b>	<b>Multi-Family Energy Efficiency &amp; Renewables</b>
<b>Allocations</b>	\$5 million (Awardee) \$200,000 (Technical Assistance)	\$4.3 million
<b>Expenditures</b>	\$200,000 (Technical Assistance)	\$0
<b>Balance</b>	\$5.2 million	\$4.3 million
<b>Contract(s)</b>	<ul style="list-style-type: none"> <li>• La Cooperativa Campesina de California</li> <li>• Mission Consulting</li> </ul>	Association for Energy Affordability
<b>Contract Terms</b>	N/A	12/2015 to 06/2021

**Program Details**

A total of \$10 million was appropriated through the 2018 Budget Act from the Greenhouse Gas Reduction Fund to CSD for the continuation of LIWP (SB 856, Chapter 30, Statutes of 2018). The budget language specifies that at least \$2 million be used to provide low-income weatherization services for farmworker housing, and the balance for low-income solar and multi-family weatherization programs.

**Farmworker Housing Component: Single-Family Energy Efficiency & Solar PV**

**Status:** In progress.

**Description:** A detailed description and other information about the single-family Farmworker Housing Component is provided in the prior section on the LIWP FY 2017/18 Appropriation.

**Contracts:** La Cooperativa was selected in April 2019 as the administrator of the Farmworker Housing Component following a competitive RFP. La Cooperativa has been awarded a total of \$10.7 million for the Farmworker Housing Component from the FY 2017/18 and 2018/19 Appropriations. At current funding levels, this program component is scheduled to conclude in December 2020. Mission Consulting provided technical assistance to prospective applicants during the Farmworker Housing Component RFP and consulted on community engagement and procurement design.

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<sup>10</sup> Amount reflects total local assistance funding.

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**Multi-Family Energy Efficiency & Renewables**

**Status:** Ongoing.

**Description:** A detailed description of the Multi-Family Energy Efficiency & Renewables program component is provided in prior sections.

**Contracts:** AEA serves as the statewide administrator of the LIWP Multi-Family program. AEA received \$4.3 million of the FY 2018/19 Appropriation.

**Programmatic Challenges:** The LIWP Multi-Family program component is oversubscribed and there continues to be strong market interest in the program's offerings. LIWP Multi-Family funds large capital outlay projects that can span multiple phases and be dependent on the timing of other funding streams, including low-income housing tax credit resyndications. As a result, multi-family project phases can often take between six to 24 months following property enrollment before being completed. Since expenditures are not recorded until projects are fully completed, expenditures do not wholly reflect current program activity. AEA anticipates fully expending its FY 2018/19 allocation within the expenditure period for this appropriation.

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**LIWP Fiscal Year 2019/20 Appropriation**

**Total Allocation:** \$9.5 Million<sup>11</sup>

<b>Program Component</b>	<b>Multi-Family Energy Efficiency &amp; Renewables</b>
<b>Allocations</b>	\$9.5 million (GGRF) \$4.9 million (ESA)
<b>Expenditures</b>	\$0
<b>Balance</b>	\$9.5 million
<b>Contract(s)</b>	Association for Energy Affordability
<b>Contract Terms</b>	12/2015 to 06/2021

**Program Details**

The 2019 Budget Act (AB 74, Chapter 23, Statutes of 2019) appropriated \$10 million from the Greenhouse Gas Reduction Fund to CSD for low-income solar and multi-family weatherization. \$9.5 million has been allocated towards solar PV and weatherization under the LIWP Multi-Family program component.

**Multi-Family Energy Efficiency & Renewables**

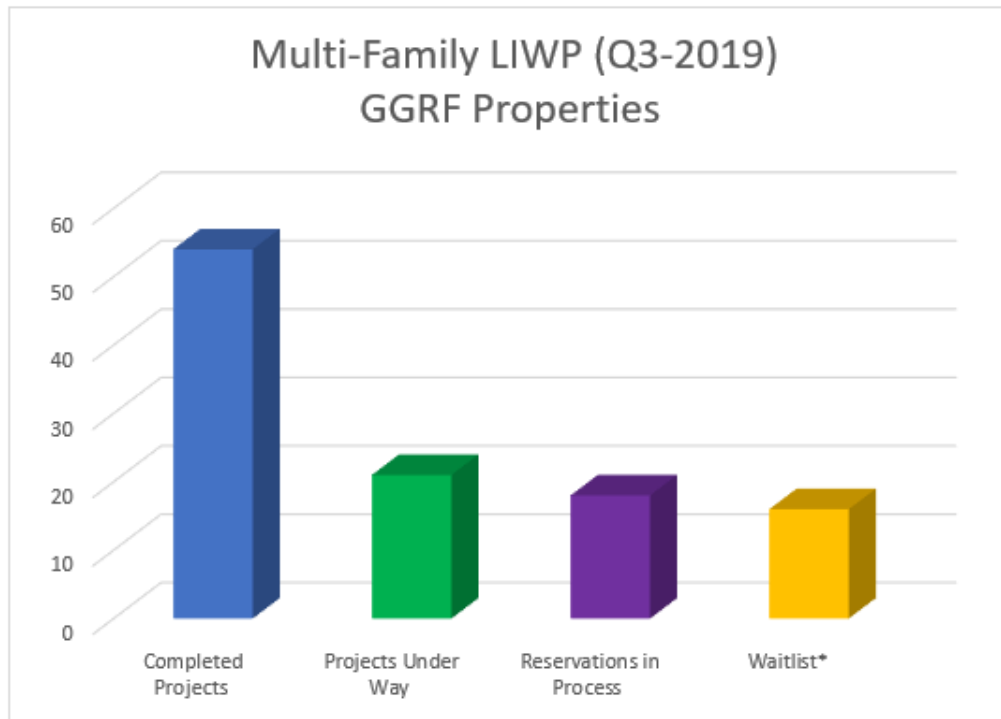
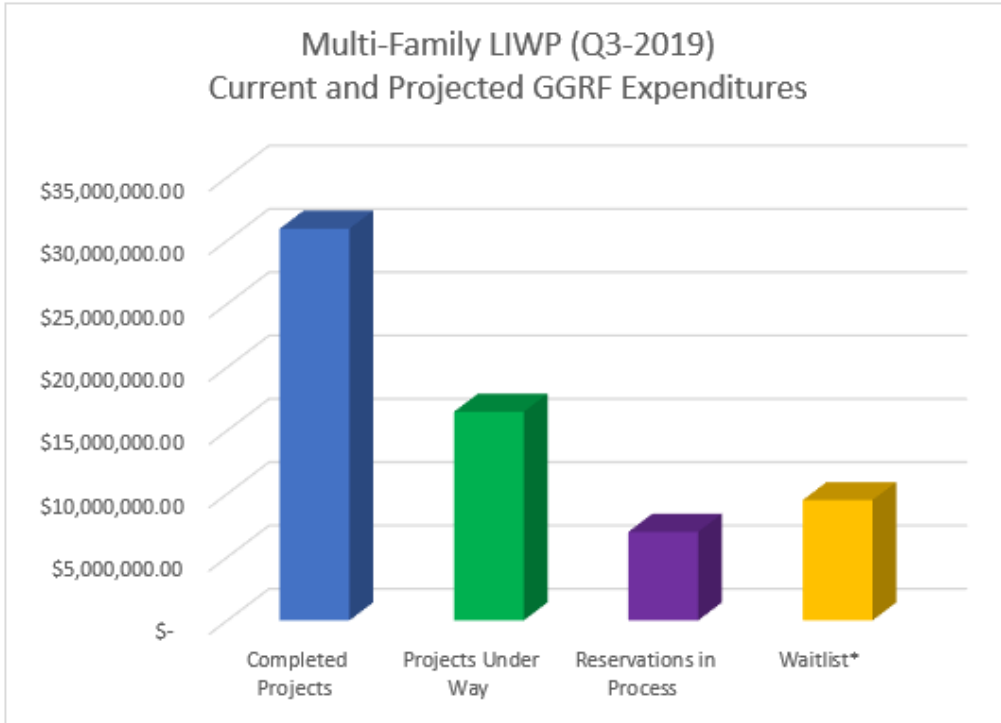
**Status:** Ongoing. LIWP Multi-Family funds large capital outlay projects that can span multiple phases and be dependent on the timing of other funding streams, including low-income housing tax credit resyndications. As a result, multi-family project phases can often take between six to 24 months following property enrollment before being completed. Since expenditures are not recorded until projects are fully completed, expenditures do not wholly reflect current program activity.

The following tables illustrate the status of projects under the LIWP Multi-Family program component as of November 2019.

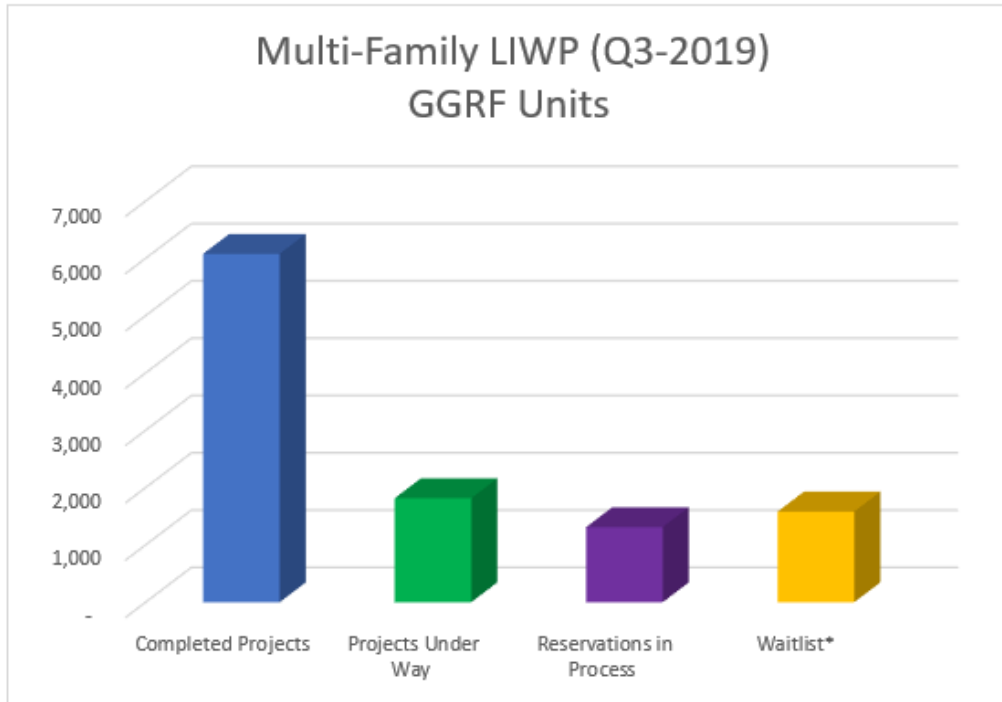
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<sup>11</sup> Amount reflects total local assistance funding.

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\*For uncompleted projects, expenditures and the number of properties and units served are projected based on waitlisted properties and historic expenditure averages.

**Description:** A detailed description of the Multi-Family Energy Efficiency & Renewables program component is provided in prior sections.

**Contracts:** AEA continues to serve as the statewide administrator of the LIWP Multi-Family program component. AEA is receiving \$9.5 million of the FY 2019/20 Appropriation from the Greenhouse Gas Reduction Fund. In addition, over \$4.9 million in leveraged funds from the Energy Savings Assistance Program (ESA) are available for targeted investments for in-unit energy efficiency measures under LIWP Multi-Family. ESA is regulated by the California Public Utilities Commission and is funded by Investor Owned Utilities with ratepayer dollars to provide weatherization services to low-income households. Leveraging ESA funds with LIWP Multi-Family can help maximize energy savings and increase the number of households served under the program. CSD continues to explore other co-funding opportunities with utilities and other state entities to leverage the success of the LIWP Multi-Family program component.

**Attachment A: LIWP Contracts**

Subprogram	Funding Recipient	Counties Served	Contract Start	Contract End	Projected Expenditures by Contract
Single-Family Energy Efficiency	Spectrum Community Services, Inc.	Alameda	1/2015	6/2016	\$92,594
Single-Family Energy Efficiency	Community Action Agency of Butte County, Inc.	Butte	1/2015	12/2017	\$85,695
Single-Family Energy Efficiency	Contra Costa County Employment and Human Services Department	Contra Costa	1/2015	12/2017	\$289,935
Single-Family Energy Efficiency	Fresno Economic Opportunities Commission	Fresno	1/2015	12/2017	\$1,272,139
Single-Family Energy Efficiency	Campesino Unidos, Inc.	Imperial	1/2015	12/2017	\$482,029
Single-Family Energy Efficiency	Community Action Partnership of Kern	Kern	1/2015	9/2017	\$678,817
Single-Family Energy Efficiency	Kings Community Action Organization, Inc.	Kings	1/2015	12/2017	\$248,966
Single-Family Energy Efficiency	North Coast Energy Services, Inc.	Yolo	1/2015	9/2017	\$75,882
Single-Family Energy Efficiency	Maravilla Foundation	Los Angeles	1/2015	12/2017	\$505,032
Single-Family Energy Efficiency	Pacific Asian Consortium in Employment	Los Angeles	1/2015	9/2017	\$400,031
Single-Family Energy Efficiency	Long Beach Community Action Partnership	Los Angeles	1/2015	9/2017	\$1,138,556
Single-Family Energy Efficiency	Community Action Partnership of Madera County	Madera	1/2015	9/2017	\$245,894
Single-Family Energy Efficiency	Merced County Community Action Agency	Merced	1/2015	9/2017	\$304,344
Single-Family Energy Efficiency	Community Action Partnership of Orange County	Orange	1/2015	9/2017	\$529,008
Single-Family Energy Efficiency	Community Action Partnership of Riverside County	Riverside	1/2015	9/2017	\$759,459
Single-Family Energy Efficiency	Community Resource Project, Inc.	Sacramento, Yuba	1/2015	9/2017	\$1,367,191
Single-Family Energy Efficiency	Community Action Partnership of Orange County (San Bernardino)	San Bernardino	7/2015	6/2016	\$294,757
Single-Family Energy Efficiency	Metropolitan Area Advisory Committee	San Diego	1/2015	9/2017	\$766,322
Single-Family Energy Efficiency	Economic Opportunities Council of San Francisco	San Francisco	1/2015	9/2017	\$286,749
Single-Family Energy Efficiency	San Joaquin County Aging and Community Services Department	San Joaquin	1/2015	12/2017	\$747,870
Single-Family Energy Efficiency	Community Action Commission of Santa Barbara County	Santa Barbara	1/2015	12/2017	\$72,928
Single-Family Energy Efficiency	Sacred Heart Community Service	Santa Clara	1/2015	9/2017	\$65,074
Single-Family Energy Efficiency	Central Coast Energy Services, Inc.	Monterey, San Mateo, Santa Cruz	1/2015	12/2016	\$126,378
Single-Family Energy Efficiency	Self Help Home Improvement Project, Inc.	Tehama	1/2015	5/2016	\$3,198
Single-Family Energy Efficiency	Central Valley Opportunity Center, Inc.	Stanislaus	1/2015	12/2017	\$793,538
Single-Family Energy Efficiency	Community Services & Employment Training, Inc.	Tulare	1/2015	9/2017	\$563,026
Single-Family Energy Efficiency	Community Action of Ventura County, Inc.	Ventura	1/2015	12/2016	\$2,716
Single-Family Energy Efficiency	Association of California Community and Energy Services	Disadvantaged Communities (DACs) Statewide	10/2015	3/2017	\$33,338
Single-Family Energy Efficiency	Community Action Partnership of San Bernardino County	San Bernardino	6/2016	5/2017	\$173,689
Single-Family Solar PV	GRID Alternatives	DACs Statewide	1/2015	6/2018	\$38,275,849
Single-Family Solar PV	Fresno EOC	Fresno, Kern, Los Angeles, Madera, Merced, Orange, Sacramento, Stanislaus, Tulare, Yuba	1/2015	6/2018	\$12,681,433
Large Multi-Family Energy Efficiency and Solar PV	Association for Energy Affordability	Statewide	12/2015	6/2021	\$54,400,000
Single-Family Energy Efficiency and Solar PV	Community Resource Project, Inc.	Butte, Sacramento, Solano, Tehama, Yolo, Yuba	6/2017	12/2018	\$5,187,581
Single-Family Energy Efficiency and Solar PV	Build It Green	Alameda, Contra Costa, Monterey, San Francisco, San Mateo, Santa Clara, Santa Cruz	6/2017	12/2018	\$5,663,863
Single-Family Energy Efficiency and Solar PV	Community Action Partnership of Orange County	Fresno, Kern, Kings, Madera, Merced, San Joaquin, Stanislaus, Tulare	6/2017	12/2018	\$13,373,190
Single-Family Energy Efficiency and Solar PV	Build It Green	Los Angeles, Santa Barbara, Ventura	6/2017	3/2019	\$21,139,666
Single-Family Energy Efficiency and Solar PV	La Cooperativa Campesina de California	Imperial, Orange, Riverside, San Bernardino, San Diego	6/2017	12/2018	\$12,212,941
Community Solar Pilot	GRID Alternatives Bay Area	Contra Costa	4/2019	6/2021	\$2,382,282
Community Solar Pilot	GRID Alternatives Inland Empire	Riverside	4/2019	6/2021	\$2,049,778
Farmworker Housing Component	La Cooperativa Campesina de California	Fresno, Madera, Merced, Monterey, San Joaquin, Stanislaus	6/2019	12/2020	\$5,274,608
Farmworker Housing Component	La Cooperativa Campesina de California	Imperial, Kern, Riverside, Santa Barbara, Tulare, Ventura	6/2019	12/2020	\$5,380,608
Farmworker Housing Component	Mission Consulting	Statewide Technical Assistance	8/2018	5/2019	\$173,510



## Attachment B: Partners - LIWP Single Family Energy Efficiency and Solar PV Regional Administrator Component - FY 2015/16

Region 1 (Northern California)	Region 2 (Bay Area)	Region 3 (Central Valley)	Region 4 (Los Angeles)	Region 5 (Southern California)
Community Action Agency of Butte County	Community Energy Services Corporation	GRID Alternatives	Solar City	JHC, Inc.
GRID Alternatives	Community Housing Opportunities Coalition (CHOC)	Richard Heath & Associates (RHA)	GRID Alternatives	Tri-State
A/G Electric	El Concilio of San Mateo County	Fresno Economic Opportunities Commission	Association for Energy Affordability (AEA)	Oakridge - (JHC/Tri-State Subs)
AC Girl Heating and Air	GRID Alternatives	Community Action Partnership of Kern	American Insulation	Highlands Energy
Acme Glass	Interfaith Power & Light^	Kings Community Action Organization, Inc.	Interfaith Power & Light	Sunworks
Alternative Energy technologies, LLC	Rising Sun Energy	Merced County Community Action Agency	Quality Conservation Services	MAROMA Energy
Bishop Plumbing	Solar City	Winegard Energy	Reliable Energy Management	Energy Save
Butte Glass	Association for Energy Affordability (AEA)	California Climate Control	Synergy / Energy Efficiency Companies	Heal
Capital City Solar Electric	Quality Conservation Services	Cal-Ram	FCI Management	GRID Alternatives
Capital Glass	Richmond Neighborhood Housing Services, Inc.	Collins Air	Neighborhood Council Sustainability Alliance NCSA	VICS
Dependable Sheet Metal	Staples Energy	Highlands Energy Services	American Eco Services	
Endeavor Homes	Synergy / Energy Efficiency Companies	Ike's Appliance	Proteus	
Feather River Aire		Jim's A/C	Enso	
Highlands Diversified Inc		Modern Air Mechanical	Evolution(Enovative)	
Mayaco Marketing & Internet		Pacific Breeze Air Systems Inc.	SoCal Remodeling	
Miller Glass Inc Chico/ Paradise		Staples and Associates, Inc.	Fire Restoration Services	
Quick's Glass Service		Sundowner Insulation, Inc	Halsell Builders	
Sea Heating and Air Conditioning		Synergy	Maroma	
SONCO Heating and Air		Ventura TV		
Southgate Glass		American Insulation		
Stanfill Homes and Construction		Reliable Energy, Inc.		
Steve Torres (tower EC)		Community Services Employment Training		
Streamline Plumbing		Central Valley Opportunity Center.		
Valley Solar				
Winegard Energy				
Wolfe's Electric Inc				

## Partners - Farmworker Housing Component - FY 2017/18 and FY 2018/19

Proteus	Central Valley Opportunity Center (CVOC)	Highlands Energy	PRM Consulting	John Harrison Contracting
MAROMA Energy Services	Sunworks	Reliable Energy		