

THE PARTNERSHIP'S SUSTAINABLE HOUSING TEAM

Decarbonization Program Resources

Decarbonization Resources

New Construction & Existing Buildings

The California Housing Partnership's Sustainable Housing Team ensures that the needs of low-income renters and affordable housing providers are prioritized during the transition to building decarbonization.















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CASE STUDY

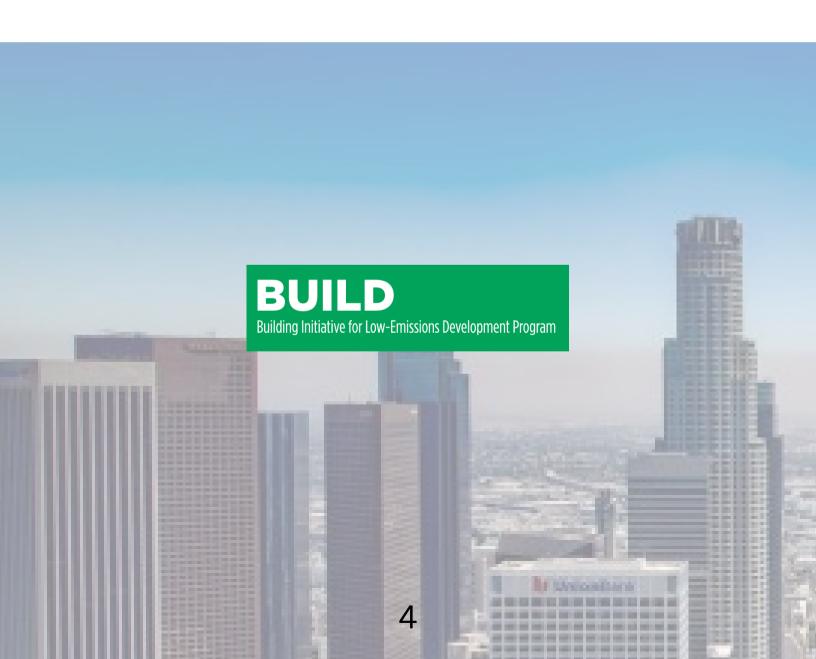
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CONTACT INFORMATION



Decarbonization Resources

New Construction





The Building Initiative for Low-Emissions
Development (BUILD)
Program is a residential building decarbonization program that provides incentives and technical assistance to support the adoption of advanced building design and all-electric technologies in new, low-income all-electric homes and multifamily buildings.

300 FREE HOURS

of technical assistance for design, development, and construction

\$2,000,000

program cap per applicant \$3,300

per unit for multifamily average greenhouse gas incentive

\$5,500

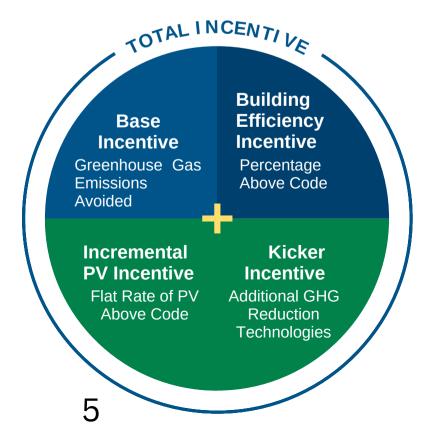
per home for single family average greenhouse gas incentive

New Adopter Design Award

BUILD provides eligible applicants constructing their first all-electric, low-income multifamily building (10+ units) with up to \$100,000 design award to defray direct design costs.

Incentives

BUILD provides robust incentives consisting of four components:



FOR QUESTIONS, EMAIL BUILD AT:

BUILD@energy.ca.gov

FOR MORE INFORMATION, VISIT:

BUILD Program Webpage

www.energy.ca.gov/programs-and-topics/ programs/building-initiative-low-emissionsdevelopment-program

Why Participate in BUILD?

- •Receive up to \$2,000,000 in incentives to reduce construction costs
- Reduce long-term utility costs for both you and your residents or home buyers
- •Eliminate costs for gas infrastructure
- •BUILD incentives can be layered with other programs

Free Technical Assistance Services

- Free design and construction review by industry-leading all-electric designers and consultants.
- •Support throughout all development phases from building, planning, design through permitting, bid, construction, & commissioning.
- •Program participation support, including assistance with BUILD Incentive Application.

BUILD TECHNICALASSISTANCE TEAM







Who is Eligible?

Building owners or developers of low-income housing with:

- •Five years' development experience
- •At least one completed low-income project

What Projects are Eligible?

- •Single and multifamily low-income residential housing with varying income restrictions depending on project location and type of housing
- •All-electric and no hookups to the gas distribution grid
- •Demonstrate modeled resident utility cost savings
- •Project located in one of four gas service territories: Southern California Gas, Pacific Gas & Electric, San Diego Gas & Electric, and Southwest Gas Corporation

What Residential Buildings are Eligible?

- Newly constructed buildings
- Existing buildings repurposed for housing
- •Building additions or renovations where 50% or more of the exterior weight bearing walls are removed or demolished



To apply for incentives, submit a complete BUILD Incentive Reservation Application package

To request Technical Assistance (TA), submit a Technical Assistance Application

To view full details on program requirements and eligibility, review the BUILD Program Guidelines

BUILD is administered by the California Energy Commission in collaboration with the California Public Utilities Commission. It is authorized by Senate Bill 1477 (2018, Stern) and funded by the four California gas corporations apportioned according to each gas





Design Greener. Build Smarter.

LADWP Zero By Design encourages developers to build more sustainably by providing financial incentives for commercial and high-rise multifamily new construction projects which exceed Title 24 or industry standards.

- · Receive owner incentives to help offset the added costs of building more efficiently.
- Design Teams may also be eligible for incentives by attaining aggressive energy savings goals.
- In addition, applicants receive complimentary design assistance and review to aid them in realizing their projects' maximum efficiency potential.

New Prescriptive Measures

LADWP Zero By Design Express provides incentives for the purchase and installation of high efficiency new equipment. Utilizing deemed savings calculations, Express expedites your application processing to get you paid faster.

Eligible Measures and Incentive Rates

Measure Name	Measure Application	Incentive Rate
Water Cooled Chiller	Centrifugal w/ Conventional Variable Speed	\$0.30/kWh
Water Cooled Chiller	Drive Variable Speed Screw	\$0.30/kWh
Variable Speed Drive for a Central Plant	Condenser Water Pump	\$0.30/kWh
System Air Cooled Chiller	Air Cooled Constant Speed Screw Chiller	\$0.30/kWh
Cogged V-Belt for HVAC Fan	Fan Motor	\$0.30/kWh

7

Whole Building Performance

By viewing building performance as a whole, developers explore building systems integration and connectivity to develop innovative and effective efficiency solutions which help reduce operating costs and increase occupant comfort. In order to participate, Design Teams must submit an energy model. Projects must also exceed Title 24 requirements by more than 10% to qualify.

Incentive Categories and Levels

End Use* Incentive Categories	Incentive Levels \$/kWh
Appliance and Plug Loads	\$0.15
Building Envelope	\$0.40
Commercial Refrigeration	\$0.40
Food Service	\$0.20
HVAC – Cooling	\$0.40
HVAC – Heating	\$0.40
HVAC — Heat Pump	\$0.40
Lighting – Indoor	\$0.20
Lighting - Outdoor	\$0.30
Process	\$0.20
Service & Domestic Hot Water	\$0.30



^{*}Any End Use categories indicating negative energy savings and incentives will be deducted from the project's total energy savings and incentive amount. Please refer to the LADWP ZBD Workbook for more details.

How to Apply

For detailed instructions on how to apply and to download the program application forms, please visit www.ladwp.com/ladwpzbd.

For More Information

- · Visit: www.ladwp.com/ladwpzbd
- · Email: ladwpzbd@ladwp.com
- · Call: (213) 367-8755

Please note: This program shall at all times be subject to change or termination without notice.

DISCLAIMER: By applying for an LADWP rebate and/or program, personal information provided may be subject to public disclosure by requesting parties, pursuant to the California Public Records Act.





Decarbonization Resources Existing Buildings











The California Low Income Weatherization Program (LIWP), funded by the California Department of Community Services and Development, supports property owners and their residents to lower utility costs, save energy and reduce greenhouse gas emissions in large multifamily properties.

PROGRAM OFFERINGS AND INCENTIVES

Through the Association for Energy Affordability (AEA) and their team, the program offers financial incentives, free property assessments, work scope development, contractor procurement, construction management assistance, and quality control. LIWP incentives can cover a significant portion of energy efficiency and solar installation costs.

The Program works with property owners to identify upgrade opportunities in the following categories:



Energy Efficiency



Solar Photovoltaics



Building Electrification

PROPERTY ELIGIBILITY

Participating properties must meet the following requirements:

- Existing multifamily building in California with at least 20 units on the property
- Deed-restricted affordable housing or funding commitment from a housing agency
- Meet affordability requirement of at least 66% of households at or below 80% of Area Median Income
- Install energy improvements that equate to at least 15% modeled energy savings above existing conditions
- Complete construction by Q2 2025

5 SIMPLE STEPS TO PARTICIPATE

(1)

Complete an interest form or contact us

(2)

Receive free technical support

(3)

Reserve financial incentives

(4)

Install property upgrades

(5)

Claim financial incentives

CONTACT US FOR MORE INFORMATION:

NON PROFIT PROPERTIES CONTACT: Blanca De La Cruz, 213-785-5732, nonprofit@liwp-mf.org FOR PROFIT PROPERTIES CONTACT: Sophia Hartkopf, 916-844-1099, forprofit@liwp-mf.org

http://camultifamilyenergyefficiency.org/











Comprehensive Affordable Multifamily Retrofits Program

The Los Angeles Department of Water and Power's Comprehensive Affordable Multifamily Retrofits (CAMR) program assists L.A.'s low income, multifamily property owners by conducting free property assessments to identify efficiency opportunities to help owners and their residents to save energy and reduce costs. In addition, property owners receive assistance with work scope development and the contractor procurement process.

Property owners can receive financial incentives for reducing greenhouse gas emissions in both common areas and inside tenants' units.

Number of Units	For energy efficiency measures that reduce owner-paid energy costs	For energy efficiency measures that reduce tenant-paid energy costs
5-64	\$5,400/MTCO2e	\$6,750/MTCO2e
65+	\$6,200/MTCO2e	\$7,750/MTCO2e

^{*}MTCO2e = Metric Ton of Carbon Dioxide equivalent

ELIGIBILITY REQUIREMENTS

Participating properties must:

- Consist of five (5) or more units
- Meet affordability requirement of at least 66% of households at or below 80% of Area Median Income and be located in a Disadvantaged Community (DAC)
- Properties located outside of a DAC may be eligible to participate with proof of rent regulatory agreement or provision of public assistance program documentation
- Install energy improvements that equate to at least 5% in electrical energy savings

In addition, project contractors must meet prevailing wage, skilled and trained workforce, and licensing requirements, as applicable.

Property owners who are able to achieve more than 5% in electrical energy savings may also be eligible to receive incentives for the installation of solar photovoltaic systems.

5 SIMPLE STEPS TO PARTICIPATE

- 1. Complete an interest form or contact us
- 2. Receive free technical support
- 3. Reserve financial incentives
- 4. Comply with all program requirements
- 5. Claim financial incentives

CONTACT US

- www.ladwpcamr.com
- (213) 367-CAMR (2267)
- CAMRinfo@aea.us.org

Please note: Funding is limited and rebates are not guaranteed. This program is subject to change or termination without notice.

Solar on **Multifamily Affordable Housing**

How property owners can get started with SOMAH



SOMAH program overview

The Solar on Multifamily Affordable Housing (SOMAH) program provides financial incentives for installing photovoltaic (PV) energy systems on multifamily affordable housing. The program will deliver clean power and credits on energy bills to hundreds of thousands of California's affordable housing residents.

Program offerings

- ✓ Incentives to substantially offset the cost of solar PV systems for affordable housing
- ✓ Comprehensive no-cost technical assistance throughout the project lifecycle

Application process

Two different tracks are available to SOMAH applicants:

TRACK A

Optional technical assistance intended for property owners who would like help to assess the solar potential at their property

TRACK B

Intended for property owners assistance and are already working with an eligible contractor for their project

who do not require technical

Learn more and apply at CalSOMAH.org/owners

contact@calsomah.org

SOMAH is administered by the SOMAH Program Administrator under the auspices of the California Public Utilities Commission. © 2019 California Public Utilities Commission. All rights reserved.

Eligibility requirements

- Property must have a qualified affordable housing regulatory agreement, and have five or more rental units.
- ✓ 80% of property residents must have income at or below 60% of the area median income OR property is located in a CalEnviroScreen disadvantaged community.
- Property must have individually-metered units eligible for Virtual Net Energy Metering (VNEM).
- Property must be an existing building with a certificate of occupancy.
- Property is in PG&E, SDG&E, SCE, Liberty Utilities Company or PacifiCorp service area.



Are You In Southern California Gas Territory?

The Association for Energy Affordability (AEA) leads TECH's efforts in the multifamily sector, with an emphasis on affordable housing. The pilot opportunities are ways for multifamily stakeholders to receive technical assistance and incentives for heat pump related upgrades. Pilot recruitment currently is focused on properties/portfolios located in Southern California Gas territory with a preference for properties/portfolios serving low-income households.

Multifamily Pilot Opportunities

Portfolio-level Electrification Roadmap

Participating owners will receive technical assistance to guide the electrification of their entire portfolio over time. They will also receive equipment incentives and deep technical assistance for one project. Participants must share portfolio data and dedicate staff time to engaging with the TECH team.

Property-level Electrification Readiness Plan

Participating owners will receive technical assistance for a property-level plan that uses an upgrade-at-change-out approach for adopting in-unit heat pumps for water heating and HVAC. They can receive enhanced equipment incentives, including electrical infrastructure upgrades. Preference will be given to existing in-unit gas water heating and HVAC properties. Participants must dedicate staff time to engage with the TECH team and agree to allow property use for on-site field training time.

Addressing Funding Gaps for Low-Income Housing

This pilot will reduce gaps in existing funding for a limited number of properties serving low-income households in situations with limited or no electrification funding.

Central Heat Pump Water Heating

This Pilot provides pre-and post-installation technical support and system monitoring for central heat pump water heater conversions.

Interested in any of the pilots? Contact the TECH team today by submitting an interest form or emailing TECHMF@aea.us.org













KEY SERVICES

- Personalized incentive program map
- Program introductions
- EBEWE Benchmarking resources
- ✓ Audit & RCx resources
- Financing support
- Service provider directories



For EBEWE Benchmarking & Audit and RCX visit our website.

WWW.RETROFIT.LA

RETROFIT.LA DEMONSTRATION PROJECT COHORT

A project to program model that will provide real learnings in real time.

We are developing:

- A diverse portfolio of comprehensive affordable multifamily retrofits
- Multifamily retrofit playbook
- Financial model to show:
 - Health ROI
 - Economics of comprehensive retrofits
 - Subsidy required to meet economic & policy goals
- Feedback loop to policy-makers

PROPERTY TYPES

Affordable multifamily

 Deed-restricted & naturally occurring (NOAH)

Small & medium businesses

 Rebuilding the engine of LA's economy



Interested in joining the cohort? Email:

INFO@LA-BBC.COM











Green Homes: West LA

Take advantage of **FREE** guidance and resources to provide a healthier and more sustainable environment for residents, while also saving money on utilities!

Our **Green Homes: West LA** program was developed to help apartment building owners identify the highest impact water and energy efficiency improvements for their properties to reduce greenhouse gas emissions while empowering tenants and local residents to make their homes more sustainable, affordable, and healthier.

The 10 selected multi-family properties will receive:



No-cost benchmarking support through Energy Star Portfolio Manager



Workshops in English and Spanish (hosted online or in-person) covering how sustainable practices can increase occupant health while helping to reduce utility costs



Educational resources for tenants, including a toolkit and a personal emissions calculator



Direct enrollment assistance for relevant LADWP programs and rebates



Guidance through a menu of efficiency & electrification options to facilitate building retrofits

Click here to enroll your property today to participate in the selection process!

*Eligible properties must be located in Los Angeles City Council District 5 and have a minimum of 20 units.

For more information please contact us at info@usgbc-la.org





Green Homes: West LA is supported in part through the Los Angeles Department of Water and Power (LADWP) Community Partnership Outreach Grants program.

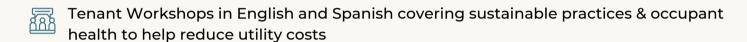


GREEN AFFORDABLE HOUSING PROGRAM

Take advantage of FREE guidance and resources to provide a healthier and more sustainable environment for residents, while also saving money on energy, water, and waste!

Our Green Affordable Housing Program (GAHP) was developed to deliver community resources for reducing energy and water use as well as greenhouse gas emissions in multifamily properties located in low-income communities in the Eastern San Fernando Valley.

The 20 selected multi-family properties will receive:



- Enrollment assistance with LADWP programs and rebates
- Guidance through a menu of efficiency & electrification options to facilitate building retrofits
- Installation of community EV charging stations
- Installation of free or highly subsidized heat pump space and water heating technology to lower energy costs and reduce greenhouse gas emissions
- Subsidized installation of innovative new green building technology to reduce utility costs
- Air and water quality monitoring provided at no-cost

Scan the QR code and enroll your property today to participate in the selection process!

* Eligible properties must be located in the East San Fernando Valley within the zip codes listed in the form and have a minimum of 20 units.



For more information please contact us at info@usgbc-la.org









The Green Affordable Housing Program (GAHP) is supported in part through the funding of the Los Angeles Department of Water and Power (LADWP) Community Emission Reduction Grants



Green Affordable
Housing Program (GAHP)

We're on a mission to deliver no-to-low cost community resources for lowering energy and water costs while reducing greenhouse gas emissions and creating a more affordable, comfortable, and healthier environment for you and your tenants.

USGBC-LA's GAHP was developed to support all Angelenos in having healthy, efficient, and resilient places to live, work, and play. This program delivers green community resources to disadvantaged communities and historically underserved neighborhoods that are energy-inefficient or burdened with pollution sources that are hazardous to communities' health.



What you will get through this program:



Community EV Charging Station



Heat pump space & water heating technology



Innovative green building technology from our Net Zero Accelerator



Enrollment assistance with LADWP programs & rebates



Air quality monitoring & water testing



Tenant workshops covering utility savings & occupant health

Understand what is included in the program and how you and your tenants can benefit from it:

Program Offerings	Funding	Benefits
		Menu provides various efficiency & electrification options to reduce project costs:
Interactive Menu of Efficiency & Electrification		Info on resources to reduce energy costs Review options from full electrification to smaller electrical upgrades to prepare for future regulations
Building Evaluation		Identify potential projects & their viability for your specific property
Development of Building Specific Plan		Sustainability advisor will produce a report for each property highlighting upgrade opportunities with project costs & cost savings over time
Tenant Engagement Workshops		Educational sessions provide tenants an overview of sustainability, building health, & community resilience to lower their own utility costs
Air quality monitoring & water testing		Installation of indoor air quality sensors to highlight air & water quality issues for owners to address before tenants can express discomfort to the city
Community EV Charging Station	SUBSIDIZED up to \$11,000	Provides space for electric vehicles attracting prospective tenants. Also included: taxes & shipping, 5-year complete operations & maintenance support package.
Heat Pump Technology - HVAC	SUBSIDIZED up to \$12,500 for HVAC	Provides both heating and cooling at rates four times more efficient than traditional air and water
Heat Pump Water Heater	up to \$4,000 for HPWH	conditioning
NZA Building Technology Pilots	SUBSIDIZED up to \$5,000	Innovative technologies, YellowTin and Dynamhex provided at no-cost to further identify ways to reduce energy use by 30%+ at no cost
Energy &		No-cost benchmarking assistance for

Energy & Water Benchmarking Assistance



No-cost benchmarking assistance for buildings complying with EBEWE ordinances

Program Process





Building Evaluation

2



Building Specific Plan 3



Project Approval





Tenant Engagement 5



Site Work







Our Program Partners:

























Case Studies



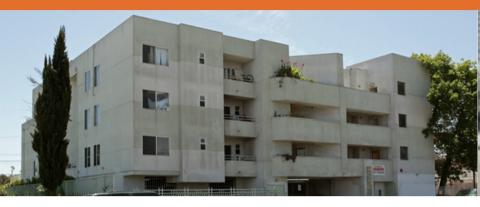


CALIFORNIA LOW INCOME WEATHERIZATION PROGRAM

FOR MULTIFAMILY PROPERTIES



2020 Case Study: FLORENCE AVENUE VILLAS





LIWP works to leverage incentive programs and deliver deeper savings for residents and property owner at Florence Avenue Villas

Los Angeles, CA | 20 2-BR and 3-BR units | Built in 1994

In 2018, Century Housing utilized the Low-Income Weatherization Program (LIWP) for Multifamily to complete an extensive energy efficiency retrofit at Florence Avenue Villas aimed at significantly reducing energy use and greenhouse gas emissions while also working to lower energy bill costs for residents. Florence Avenue Villas is located in a disadvantaged community (DAC) and serves low-income families. As part of its no-cost comprehensive technical assistance, the LIWP team worked with Century Housing staff and the Los Angeles Better Buildings Challenge to develop a comprehensive scope that leveraged multiple funding sources to go above and beyond the standard level of upgrades to significantly reduce energy use and deliver meaningful benefits to both owner and residents.

CO-LEVERAGED PROGRAM RESOURCES

Approximately \$110,505 of funding from the California Solar Initiative (CSI) Thermal Program, Los Angeles Department of Water and Power (LADWP), SoCalGas, and the Solar Investment Tax Credit (ITC) were co-leveraged with LIWP.

Total Project Cost	\$578,639
CSI Solar Thermal Rebate	\$44,404
SoCalGas/LADWP Rebates	\$19,200
Federal ITC	\$46,901
LIWP Incentive	\$117,533
Owner Portion	\$350,692

SCOPE OF WORK

- Envelope upgrades cool roof & dual-pane windows
- High efficiency heat pumps & duct sealing
- Solar thermal system for domestic hot water (DHW)
- DHW pipe installation & low-flow fixtures
- Comprehensive LED lighting
- ENERGY STAR refrigerators

GHG SAVINGS & EQUIVALENCIES



29% Reduced metric tons CO2



22 Acres of U.S. forest



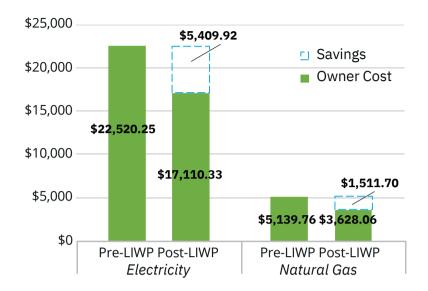
45,128 Average vehicle miles saved

"The LIWP technical assistance provided by AEA was both user friendly and high- ly cost-effective. LIWP created a win-win for this affordable housing project."

-Oscar Alvarado, Century Housing

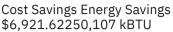
YEAR 1 REALIZED UTILITY SAVINGS (ACTUAL)

Benchmarking results for one year show significant reductions in GHG emissions, high energy savings, and overall cost savings.





29%



ELECTRICITYkWh

Pre-LIWP134,296 Post-LIWP95,958 **Electricity Savings38,338 Savings Percentage29%**

NATURAL GASTherms

Pre-LIWP4,184 Post-LIWP2,991 **Gas Savings1,193 Savings Percentage29%**

VNEM as a means of expanding clean energy benefits & improving solar equity in the City of Los Angeles

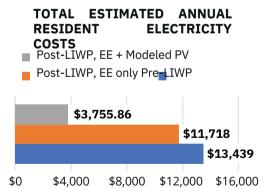
The existing scope of work included several resident-benefitting measures including dual-pane windows, a cool roof to improve summertime comfort, in-unit LED lighting, high-efficiency ducted heat pumps, a duct sealing system, and upgraded ENERGY STAR refrigerators. While the Florence Avenue Villas retrofit is a clean energy success story, even greater benefits to residents could have been realized through the installation of a solar photovoltaic (PV) system. However, the Los Angeles Department of Water and Power (LADWP) does not yet offer virtual net energy metering (VNEM), a mechanism to allocate solar credits between tenant units and common area loads. Without VNEM or an alternative mechanism, Century Housing and others cannot further reduce their residents' energy cost burden and improve solar access and equity in the LADWP service area.

In a scenario where LADWP makes available VNEM or an alternative mechanism, the modeled savings for a solar PV system at Florence Avenue Villas could result in an additional annual energy cost savings of \$7,900 for the 20 households at the property, with 70% of solar production allocated to residents and 30% allocated to the common area -- which would result in energy usage offsets of 68% for residents and 75% for owners. For this reason, LIWP supports the implementation of an LADWP VNEM policy.

SCENARIO: VNEM MODELED SAVINGS

To illustrate this untapped potential, this VNEM scenario showcases modeled tenant solar benefits for Florence Avenue Villas:

67,000 kWh Equivalent Annual Energy Savings \$7,900 Equivalent Cost Savings for Tenants



Photos courtesy of Century Housing

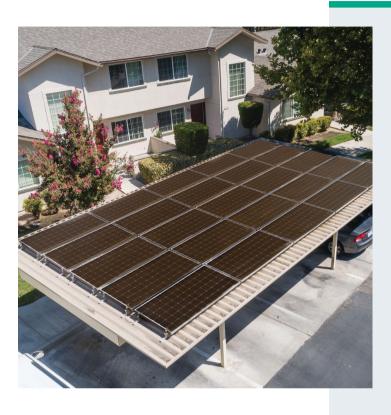
"LIWP allows us to make energy saving upgrades to our buildings that we otherwise could not afford to do. These upgrades improve our residents' lives by lowering their monthly utility cost, and by allowing them to enjoy use of newer, more efficient appliances and household fixtures."



SUCCESS STORY

Financial Benefits of Solar Power Achieved at Sand Creek Community





PROPERTY INFO

Sand Creek Apartments
Owned by Self-Help Enterprises

CARPORTS INCLUDED

Yes

LOCATION

Orosi, Calif., in the Central Valley

UTILITY TERRITORY

PG&E

YEAR BUILT

Opened in 2006

UNITS

60

RESIDENT PROFILE

Multigenerational

JOB TRAINEES

Two including one tenant

INCENTIVE

\$267,690

ESTIMATED SAVINGS PER UNIT

\$50 per month

SYSTEM SIZE

128-kW CEC-AC

Background

A key aspect of the SOMAH Program is addressing the disproportionate energy burden that Californians living in low-income and environmental justice communities face. For the multigenerational families of Sand Creek Apartments, a 60-unit multifamily affordable housing community located in Orosi, Calif., this has often resulted in the increasing financial strain of more income going to energy bills.

To counteract this issue, **Self-Help Enterprises (SHE)** and Sunrun partnered in April 2020 to install solar energy at the Sand Creek community via the SOMAH Program. The intention was to deliver long-term sustainable energy solutions and economic relief to residents.



"The solar comes in and it provides direct benefits to residents, by helping to lower energy costs and at the same time brings buy-in to energy conservation."

- Patrick Isherwood, Asset Management Program Director, Self-Help Enterprises







SOMAH Experience

During the months prior to the installation, the Sand Creek community prepared for the solar energy system through tenant education focusing on the benefits of solar, energy conservation tips, the installation process and paid job training opportunities.

While opportunities are limited, all residents of a participating SOMAH property are automatically eligible to take part in SOMAH's paid job training program including being a part of the solar installation where they live. This reflects SOMAH's commitment to workforce development and further emphasizes the importance of empowering communities to have a proactive role in transforming their environment. Two job trainees assisted in the Sand Creek installation, including one resident and a trainee from a local job training organization in the Central Valley.

Conclusion

In August 2021, a ribbon-cutting ceremony was held celebrating the successful installation and permission to operate the 128-kW CEC-AC solar energy system. For residents, this will provide an estimated savings of \$50 per month on their energy bills. SOMAH's third-party evaluator estimates that bill credits from SOMAH's solar energy installations typically offset residents' utility bills up to 90%.

Lesly Bucio, a resident of Sand Creek reflects that although she initially was unsure of what having solar would mean for her and her family, she is now very excited to have it.

"I am a single mother with two children. I work in a warehouse packing peaches seasonally. I feel a lot better having solar and knowing the electric bill will be affordable."

- Lesly Bucio, Sand Creek resident

In addition to improving financial security for families, the environmental benefits are also something residents value about having solar panels.

"My family and I think it's great to go green, help the environment, and get the savings," said Christian Vasquez, who has been living at Sand Creek for about five years with his family.



Contact Us!



Blanca De La CruzSustainable Housing Program Director bdelacruz@chpc.net





Rachael Diaz
Sustainable Housing Program Manager
rdiaz@chpc.net





Ian Sharples
Sustainable Housing Program Manager isharples@chpc.net





Angel Rodriguez
Sustainable Housing Program Associate
arodriguez@chpc.net

LADWP CAMR

https://ladwpcamr.com/ CAMRinfo@aea.us.org (833)827-2267

LADWP Zero By Design

www.ladwp.com/ladwpzbd ladwpzbd@ladwp.com (213)367-8755

LABBC - Retrofit LA

www.retrofit.la info@LA-BBC.com

TECH

https://techcleanca.com/ TECH.info@energy-solution.com

USGBC-LA

https://usgbc-la.org/programs/ info@usgbc-la.org (213)689-9707