



2023

# ANNUAL REPORT

# STAGING THE SOLAR COMEBACK

If we play our cards right in 2024, the California distributed solar and storage industry could set the stage for one of the greatest comebacks in clean energy history.

Accomplishing this feat for the sake of consumers and for clean air will take tremendous effort. But try as they might to keep us down – and they will keep trying in 2024 - if we work together, we can accomplish great things.

The pages of this annual report speak to triumphs amidst the trials and tribulations of the worst year for California solar in four decades. While CALSSA fought hard and repeatedly defeated the solar tax while also advancing on issues like streamlined permitting, interconnection delays, NEM transition rules, and virtual power plants, the overriding story of 2023 was the cratering of the rooftop market brought about by a reckless policy decision – the so-called NEM 3 that went into effect in April 2023.

Due to the lack of a glidepath, intensified by high interest rates and other macro-economic headwinds, California's distributed solar and storage market saw an 80% decline in YOY sales beginning in May and lasting through December. No amount of NEM 2 backlog could shelter companies from that dramatic of a downturn and so the industry shed an estimated 17,000 jobs. Many good companies left the state for other markets deemed more stable and supportive than California or worse, they went bankrupt.

It would be easy to give up on California. The forces against distributed solar and storage are powerful and the political dynamics dysfunctional, at best. But giving up simply isn't an option, nor is it the right thing to do.

Our industry exists because consumers want choice. They want solutions that work for their everyday lives. They want progress and a better future for themselves and their families. And collectively we bring these solutions to the mainstream: a better way to power a lightbulb, to heat water, to move around on four wheels.

With the support of our membership, CALSSA will keep fighting for this vision in every decision-making forum that matters. From continuing to fight for fair and rational ratemaking at the California Public Utilities Commission, to pushing visionary and ambitious legislation within the State Capitol, to ongoing efforts to cut red tape at the local level, CALSSA is going to keep fighting for you and for consumers' rights to generate their own energy from the sun and to share it with their community.

Thank you for being a part of CALSSA. They can't keep a good idea down for long. Together, we'll come back stronger and better than before. Let's go solar!

Onward and upward,



**Bernadette Del Chiaro**  
Executive Director

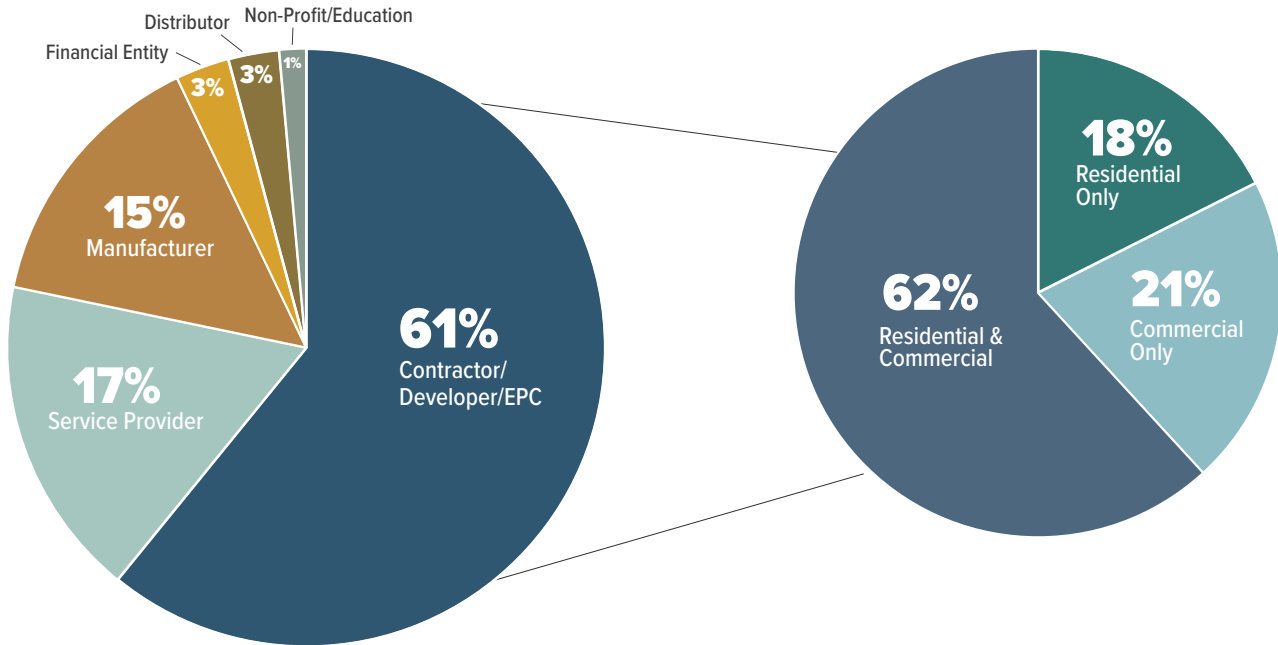


**Ed Murray**  
Board President

# THANK YOU PRESIDENT'S CIRCLE



# OUR MEMBERS



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 180 Solar Power  
 42 Renewables LLC  
 A-1 Contractors  
 A-C Electric Company  
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 A1 Nova Energy, Inc.  
 A1 Sun, Inc.  
 AC&R Service Inc  
 ACIP Energy  
 ACR Solar International Corp  
 Action Energy  
 Addy Electric  
 ADT Solar  
 Advanced Conservation Systems, Inc.  
 Aerocompact Inc.  
 Aeterna Energy, LLC  
 Ageto Energy  
 Agillitech  
 Aguillon Enterprises LLC  
 Aicon Solar  
 Alacrity Energy LLC  
 Albion Power Company, Inc.  
 Alchemy Solar Distribution  
 ALIVE Solar & Roofing  
 All Save Energy  
 All Valley Solar Inc.  
 Allied Energy  
 Allterra Solar  
 Allume  
 AlphaStruxure  
 Altair Solar Inc  
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 Alternative Energy Systems (AES Solar)  
 AltSys Solar Inc.  
 Altus Power  
 Amazing Energy Partners, Inc.  
 Ambrose Solar  
 Ameresco

American Microgrid Solutions  
 American Solar Advantage  
 American Solar Corporation  
 Amerisun  
 AmGreen Solar & Electric, Inc.  
 AMN Solar  
 Amped Solutions, Inc.  
 AMPWRX  
 Anco Design Build  
 Antenna Group  
 Apex Natural Renewable Generation, LLC  
 APG Solar  
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 Applied Systems Engineering Inc  
 Aquatherm Industries, Inc.  
 ARAM Solar  
 Arcadia Solar, LLC  
 Arka Energy  
 Arrow Energy Solar Systems  
 Arvo Solar  
 Ascent OS  
 Ask Tom Cotter  
 Assisi Energy Inc.  
 Associated Community Solar Sciences Corporation  
 AssuredPartners  
 Atmos Financial  
 Aucto Inc  
 Aurora Solar Inc.  
 Austin Industries/Solar hot water heating  
 AWS Electrical & Solar Inc.  
 Axis Solar Design  
 Aztec Solar Inc  
 B & B Solar Inc  
 Babio  
 Barrier Solar Inc.  
 BayWa r.e. Solar Systems LLC  
 Beach Cities Solar Consulting LLC  
 Beeson Solar Electric

Bella Hem Solar, Inc.  
 Berger Solar Electric, LLC  
 Best of Battery LLC  
 Better Earth  
 BidList, Inc.  
 Bill Conley Power Tier 3 Mentor  
 Blu Banyan  
 Blue Avenue Renewables  
 Blue Horizon Energy  
 Blue Planet Water & Power Co  
 Blue Sky Utility LLC  
 Bluetti  
 Boden Energy Solutions LLC  
 Bodhi  
 Booth Construction  
 BOS Developments  
 Boviet Solar  
 BPI  
 Bravo Energy Technology Inc  
 Briggs & Stratton  
 Brighten Solar Co  
 BrightOak  
 Brooks Engineering  
 BSW Roofing, Solar and Air  
 BTA Solar  
 Burge Construction  
 Burnham Energy Inc.  
 BVI Solar  
 BYD Energy  
 Byers Solar  
 CA Solar Group  
 Caiman Engineering Inc.  
 CAL Contractor Services Inc  
 Cal Paso Solar Electric  
 Cal-Sun Construction, LLC  
 CalCom Energy  
 California Clean Energy LLC  
 California Energy Connection Inc  
 California Solar Electric Cooperative Corporation  
 California Solar Electric Systems, Inc.  
 California Solar Innovators dba CalSolar

CalSolar, Inc.  
CalState Solar - Residential  
Capital City Solar  
Castone Roofing and Construction, Inc.  
Catalyze  
Centrica Business Solutions  
Century Roof & Solar  
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Chico Solar Works  
Chint Power Systems  
Christine Lee Group, Inc  
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Clayco Electric, Inc  
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CleanView Capital  
Climatec, LLC  
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Coast Energy  
Cobalt Power Systems, Inc.  
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CollectiveSun  
Complete Solaria  
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Darfon America Corp.  
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Duracell Power Center  
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Electricare Inc  
Electriq Power  
Electrum  
Element Electric Inc  
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EMCOR Service Mesa Energy, Inc.  
Empower Energies  
Empower Solar, Inc  
ENACT Systems Inc  
EnelX  
Enerflo  
Energy Construction Services  
Energy Design Works  
Energy Loan Network  
Energy Toolbase  
EnergyBin  
EnergySage  
ENGIE North America  
Enphase Energy Inc.  
EnPower Star LLC  
EP Cube - Canadian Solar  
Episcopal Renewable Energy  
EPX Group  
Estriatus Law  
Eternus Energy  
EVA Green Power  
Exro Technologies Inc.  
EZ Solar  
FAFCO  
Final Phase Energy  
Firebrand Safety Systems, Inc.  
Firefly Energy  
First Edison  
First Response Solar  
Flip Energy, Inc.  
Folsom Labs  
ForeFront Power  
Fortress Power  
Fortune Energy Distribution  
FranklinWH Energy Storage Inc.  
Freedom Forever  
Freedom Solar Energy, Inc.  
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Fronius USA  
FUSION POWER DESIGN  
GAF Energy  
Generac Power Systems  
Geneverse Energy Inc.  
GigaWatt, Inc.  
Ginlong Technologies Co., Ltd  
Glow Energy  
Gogetit  
Gold Electric, Inc.  
Golden Bear Solar, Inc.  
Golden Energy  
GoodLeap, LLC.  
GoodWe  
GoSolarPros  
Got Watts Electric Solar & HVAC  
Gr8 Energy  
Great Circle Solar Management Corp  
Green Conception, Inc.  
Green Convergence  
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Green Resources LLC  
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Greenlief Energy  
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Green Capital Portfolio Company  
GreenStruxure  
Greentech Renewables  
GreenWell Energy Inc  
Greenwired  
GRID Alternatives  
Gridwealth  
Growatt USA Inc.  
Guasti Solar  
Halvorsen Solar Service  
Hammond Climate Solutions Foundation  
Harmony Air Inc  
Harrison Electric & Solar  
Haven Energy  
Haven-Electric, Inc  
HDM Renewable Finance  
Heritage Construction Services Inc  
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Infinium Solar, Inc.  
Innovative Clean Energy LLC  
Integra Insurance Services, Inc.  
IronRidge, Inc.  
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JDS Power, Inc.  
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JinkoSolar (U.S.) Inc.  
JKB Energy  
Johnson Controls  
Jonas Energy Solutions  
JP Electric & Solar  
JTG/Muir  
Jua Capital LLC  
K & D Electric, Inc.  
K2 Clean Energy Capital, LLC  
K2 Systems  
Kahn Solar  
Kenwood Energy  
Keyes & Fox LLP  
KG Solar Solutions  
Killua Energy  
King Energy  
Kitu Systems, Inc.  
Kodiak Solar  
Kramer PV Associates, Inc  
Laketricity  
Layered Conceptz  
Lenzi Incorporated  
Lets Get Solar  
LG Electronics U.S.A. Inc.  
LG Energy Solution  
Lifestyle Solar, Inc.  
Limitless Energy  
Lit Electric  
Living Green Solar  
Localsolar.io  
LONGi Solar  
Loveland Innovations  
Lumian Foundation  
Lumin  
Luminalt Energy Corporation  
Lumina  
Lunar Energy  
Lyra Solar  
M Bar C Construction, Inc.  
M2 Multimedia, Inc.  
Mac Solar, LLC  
MagecPower  
Magic Sun Solar Inc.  
Marquee Staffing  
Martin Webb Consulting  
Matadors Community Credit Union  
Matthew V. Brady  
Maxeon Solar Technologies  
Mayfield Renewables  
MBC Renewables  
MBL Energy  
McCalmont Engineering  
McKinley Barnes  
McKinstry  
Measure The Sun  
MEI Renewables

# 2023

## PROGRAM HIGHLIGHTS

### **Net Metering**

Net metering dominated the policy landscape a fourth year in a row with the single-meter decision, aka “NEM 3”, going into effect in April. Managing the transition to NEM-3 took an enormous amount of effort. Solar providers submitted a year’s worth of projects to the utilities in the first three months of 2023 before the NEM-2 termination date. Many of those applications needed to be revised, and CALSSA assisted in keeping projects alive. In the end, the vast majority of applications were allowed to continue even when corrections or amendments were required. The utilities’ efforts to catch up with application review after the surge was severely lacking and required constant prodding by CALSSA.

Further, while the NEM-3 decision for single-meter properties came in December 2022, the actual tariff language wasn’t approved until December 2023. CALSSA scrutinized the implementing language that was submitted by the utilities and filed protests on dozens of items. The CPUC favored our recommendations on some important issues related to system size calculations, trigger dates, and data availability, but sided with the utilities on other issues.

Throughout 2023 we had to re-litigate all of the issues around net metering for the decision on net billing for multi-meter properties. Despite intense efforts by CALSSA, the CPUC ended up destroying NEM-Aggregation and VNEM for commercial accounts. We generated widespread media coverage in our favor, thousands of comments to the CPUC, and letters from hundreds of school districts, renter groups, multifamily property developers, small businesses, and farming associations. This

public input resulted in recovering behind-the-meter netting for residential VNEM accounts, which maintains opportunities for a subset of multifamily properties, but was otherwise ignored.

Negotiations with the utilities over how to expand capacity at existing NEM properties lasted throughout the second half of 2023. In the end, this work will result in significant opportunities for solar installations, but we had to jump through many hoops to achieve it.

To complement our direct advocacy work, CALSSA also held a series of six webinars to explain net billing to our members. Recordings of those webinars are still available for members to watch, as are multiple fact sheets and tables of complex export rates.

### **Residential Fixed Charge**

In response to language regarding a residential fixed charge that was snuck into the budget in 2022, the utilities and others submitted outrageous proposals in April 2023, with flat charges as high as \$189 per month. The proposals were effectively an income tax collected by the utilities.

Revisions to those proposals later in the year reduced many of the numbers, but even a charge of \$30 per month is not reasonable. Analysis commissioned by CALSSA showed these charges would not achieve the objective of avoiding an increase in utility costs for customers who convert to home electrification, and that changes to TOU rate structure would accomplish that goal more effectively. CALSSA spoke with many reporters about this issue, and the coverage was resounding in its criticism of the effort. We educated legislators about the trouble at the CPUC and built a



CALSSA's Solar & Storage Lobby Day at the Capitol, June 6, 2023

diverse coalition of statewide and community organizations opposed to a high fixed charge. We will continue to work on this important issue.

### **Prevailing Wage**

It was a frustrating year for labor requirements because we knew most commercial projects would be subject to prevailing wage due to AB 2143 but month after month the relevant state agencies failed to produce guidance on important details, including which projects would be covered in the initial rollout. CALSSA pressed hard for the trigger to be submittal of a complete interconnection application by December 31, 2023. The CPUC accepted our recommendation, but not until the last minute. We have also had many conversations with the Division of Industrial Relations, which has chosen to leave enforcement questions open-ended.

### **Storage Incentives**

Much of our advocacy with SGIP in 2023 was focused on the new infusion of funding into the program. The state budget contains \$280 million for storage incentives for low-income residential customers that was supposed to be available July 1. Month after month, we pushed the CPUC to implement the funding and worked through their questions about program details. Debates about incentive levels, customer eligibility, and the application process circled multiple times. After more than a year of deliberation the CPUC finally made decisions and got the program ready to launch.

CALSSA also worked with several Community Choice Aggregators to develop plans for new storage incentive programs. We expect our work in 2023 to result in CCA programs becoming available in 2024.

### **Permitting**

Especially in light of NEM-3, CALSSA continues to work to lower soft costs by advocating for online automated permitting for standard residential solar and storage, by working through obstacles with jurisdictions that make it difficult to obtain permits, and by ensuring that jurisdictions do not charge excessive permit fees.

In 2022, CALSSA passed SB 379, which mandates that cities with a population of more than 50,000 people implement an online automated permitting platform for residential solar and storage by September 30, 2023. In 2023, we built partnerships with the Solar Rights Alliance and others on outreach for jurisdictions to comply with the new law. By the end of the first deadline, we were able to move 150 jurisdictions to either adopt or make meaningful progress towards adopting SolarAPP+, Symbium, or a jurisdiction's own custom software solution. By the end of the year, more than 75% of California's population lived in cities or counties that had achieved automated permitting or were in the implementation process.

On permit fees, a cap on fee levels that was established by earlier legislation sponsored by CALSSA was nearing expiration. In 2023, we passed another bill that extends the cap

for nine more years for commercial and residential solar and storage.

### **Codes and Standards**

Changes to building codes and fire codes are long-term efforts, but if we don't engage it could result in devastating restrictions. Debates about where batteries can be safely installed have raged in recent years. We worked with the state Fire Marshall to clarify rules around heat detectors and vehicle impact barriers for batteries in garages. Additionally, through the code making process we increased the total kWh limit for energy storage on a residential property from 280 kWh to 600 kWh.

CALSSA has hired a codes consultant to advance proposals to remove the double review of battery energy storage systems by both building and fire departments. We have also prepared proposals for the International Residential Code to solidify the standards and testing required to reduce spacing restrictions between battery units and to allow stacked units. This would further reduce the inconsistencies in permitting energy storage systems between different building and fire departments.

This year saw yet another change to inverter standards, with the transition from UL 1741-SA to 1741-SB. CALSSA had been helping to manage this change for two years. When the transition date was set to happen right before the NEM transition date and the utilities and CEC were not sufficiently prepared, we were able to get another delay of four months.

### **Virtual Power Plants**

The biggest development in grid services in 2023 was the expansion of the Demand Side Grid Support program. This CEC program currently pays participants \$81-\$108 per year per kW of enrolled capacity for 2-4 hours of dispatch in the top-need hours when events are called. Previously, the program was not available for most behind-the-meter batteries. Through persistent engagement at CEC, we overhauled those rules and created a functional pilot for behind-the-meter battery VPPs. We expect increased participation by battery fleet operators.

CALSSA also engaged in discussions at the CPUC about other grid services programs. The utilities must be forced to treat customer-sited resources as grid assets that can help them avoid excessive spending on transmission and distribution. Optional participation pathways should be created for customers that are willing to respond to programs

and price signals. It will take time before the market infrastructure is developed enough for this to be a widespread opportunity, but will be important in the long run.

### **Interconnection**

The work of assisting with projects that are handled unfairly by utility interconnection departments is unending. CALSSA can't help on every project, but we do our best to escalate cases of mismanagement and have successfully resolved countless disputes. Much of our work on interconnection this year crossed over with NEM-2 grandfathering issues. Process improvements and clarifications were needed for submitting applications for new construction sites, justifying system size, making modifications to pending applications, replacing old systems, and much more. Negotiations on acceptable configurations for adding to grandfathered NEM systems also crossed over between net metering and interconnection work. In addition, we continued to work on inverter functionality, which should lead to opportunities to install larger systems in areas with limited grid hosting capacity.

### **Contractor Licensing**

For years, CALSSA has been fighting the CSLB's efforts to restrict C-46 contractors from installing energy storage systems. In 2023, the CSLB finally began the regulatory process on this matter, releasing proposed regulations in the summer to prohibit solar contractors from doing maintenance work or repairs on all solar and storage systems regardless of system size, including those they installed themselves. The regulations would prohibit a solar contractor from adding a battery to a solar system that has already been built. The CSLB also proposed that solar contractors be prohibited from installing a battery greater than 80 kWh.

In the summer, CALSSA mobilized dozens of contractors to speak and submit written testimony at a public hearing held at the CSLB at our request. In addition, we alerted the Solar Rights Alliance, which notified their membership and rallied hundreds of solar users to defend their ability to work with their solar contractor of choice and protect their solar investments. Finally, we submitted letters outlining a potential compromise and putting the CSLB on notice that the regulations, as proposed, would cause severe harm to small businesses in California and would have a major impact on the environment, triggering the need for a full CEQA analysis. The CSLB is still reviewing all the com-



ments they received, and changes have not been made.

### Solar Water Heating

CALSSA worked with CEC to develop an update to Title 24 mandating that newly installed pool heating be either solar thermal or a heat pump. This applies to residential pools and many commercial pools. The requirement will be formally proposed and considered in 2024.

A new SoCalGas incentive program for residential systems became available, and we have been pushing to expand this to multifamily.

At the federal level, CALSSA is helping to coordinate advocacy to press the Treasury Department to clarify that solar water heating will continue to be eligible for the Investment Tax Credit after 2024. A poorly worded section in the Inflation Reduction Act makes this ambiguous.

### New Construction Mandate

With the change from virtual net metering to virtual net billing, CEC is considering blanket exemptions from the requirement to install solar on new construction for multifamily properties and shopping centers. CALSSA is working to make sure the mandate is maintained for any building type with acceptable cost effectiveness. We also helped secure a program for storage incentives for new residential construction.

### Consumer Protection

The Commission made significant changes to their Public Watch List, which has consisted of residential contractors that were alleged to have violated consumer protection rules during the utilities' semi-annual spot audits, most often related to the administration of the Consumer Guide. Contractors were notified of their inclusion after the list had already been published, meaning contractors were afforded no due process even though their inclusion was sometimes due to utility error. Other contractors were included on the list because of simple clerical errors.

CALSSA pushed back hard and achieved a new decision that will create a new uniform checklist for determining inclusion on the Watch List. If an application is found to be non-compliant, the contractor will have an opportunity to remedy the application. Only if they are unable to do so will the contractor be placed on the Public Watch List. Time spent on the published list will be reduced from six months

to three months as well.

### Recycling

Two bills on solar module recycling advanced in the 2023 legislative session – one for stricter enforcement of recycling requirements and the other to ease the rules for recycling in California and shipping to other states. In the end, legislators wanted to pass the enforcement bill without making the safe handling rules more reasonable. CALSSA convinced the relevant committees not to do one without the other, and the bills will be taken up again in 2024.

### Legislative Watchdog

CALSSA sponsored or took positions on dozens of bills in the 2023 legislative session. This includes bills on interconnection timelines, permit fees, recycling, SOMAH, budget allocations, incentives for solar on carports, SGIP, the new construction solar mandate, grid services, and state energy planning. We also fought against bills that would have rolled back solar building codes, taxed solar panels on consumer's roofs, and harmed the multi-family housing solar market. Whether playing offense or defense, the solar and storage industry must be in the room when legislators debate policies relevant to our market. CALSSA provides that service throughout California's 9-month long legislative season.

More than 300 solar workers showed up at the State Capitol in June for CALSSA's annual Lobby Day, an essential part of what it takes to protect distributed solar and storage in California. We held more than 100 meetings and were a visible presence, putting faces to the jobs that are on the line.



CALSSA members from the East Bay meet with Assembly member Mia Bonta during CALSSA's 2023 Lobby Day

Our fact sheets and webinars are available on our website at [www.calssa.org/members-only](http://www.calssa.org/members-only). Be sure to use these resources to stay informed.

# OUR TEAM



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Executive Director



**Brad Heavner**  
Policy Director



**Elise De Grande**  
Operations Director



**Josh Buswell-Charkow**  
Deputy Director



**Kate Unger**  
Senior Policy Advisor



**Kevin Luo**  
Interconnection Advisor



**Dara Yung**  
Permitting Director



**Justin McCarthy**  
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**Meghan Vincent-Jones**  
Marketing Director



**Leo Wallach**  
Public Relations  
RALLY



**Kim Stone**  
Lobbyist  
Stone Advocacy



**Donald Simon**  
Legal Counsel  
Stratagem LLP

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# 2023 CALSSA EVENTS

## Chapter Events

CALSSA's Chapter Events bring together professionals from across the storage, PV, and thermal value chain to network, share best practices, and learn about the latest industry developments. In 2023, CALSSA held 21 chapter events in the Bay Area, Central Valley, Los Angeles, North Bay, Sacramento and San Diego regions. We also held bonus events in Chico, Corona and Ventura. These events typically saw 40-100 people in attendance.

## Lobby Day

Our Solar & Storage Lobby Day returned in 2023 for the first time since 2019 and was a huge success with 300 participants. This event brought hundreds of solar businesses and workers across the state to meet face-to-face with lawmakers. 2023's event also featured a booth fair so attendees could learn from various manufacturers and software companies about their offerings in between legislator meetings.

## Webinars

CALSSA organized ten webinars in 2023 on the policy and regulatory landscape of the California market, covering topics such as the NBT transition, the changes to VNEM/NEMA, AB 2143 and much more. These events were consistently well attended, with attendance sometimes exceeding 1,000 participants.

## Annual Dinner

The CALSSA Annual Dinner also returned for the first time since 2019. The evening is one of our association's premier networking events, and this year did not disappoint. The sold-out event was our most successful fundraiser, bringing in more than \$300,000 for CALSSA. We also awarded our "Member of the Year" to Greentech Renewables' Jake Marshall.

CALSSA thanks all the sponsors who helped to make these events possible.



Zvi Lando (far right), CEO of SolarEdge, and his team pose for a photo from their sponsored table at the Annual Dinner.

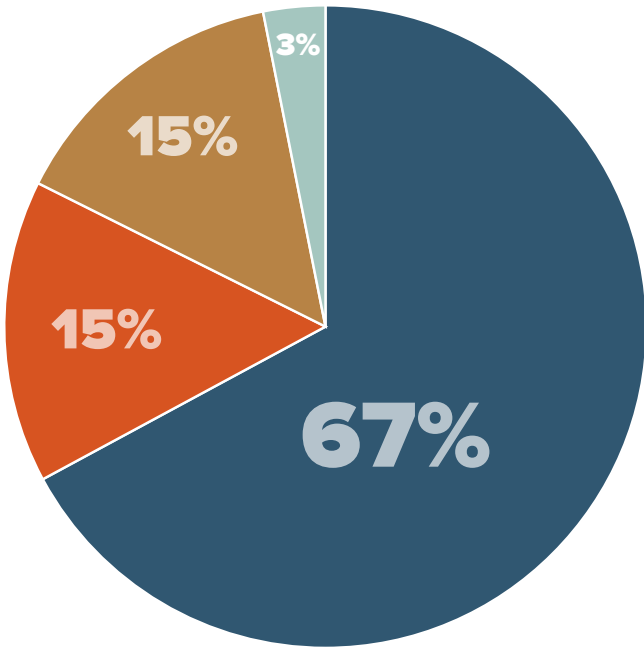


CALSSA members enjoy happy hour and listen to speakers at a LA Chapter Event.

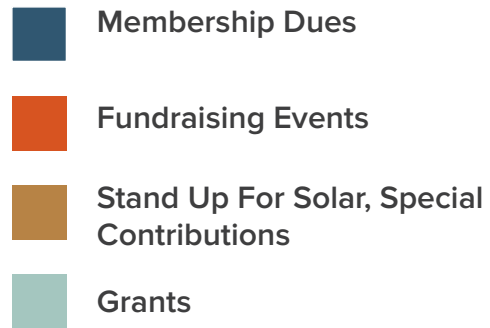


Jake Marshall, of Greentech Renewables, received CALSSA's Member of the Year Award at the 2023 Annual Dinner.

# RESOURCES & EDUCATION

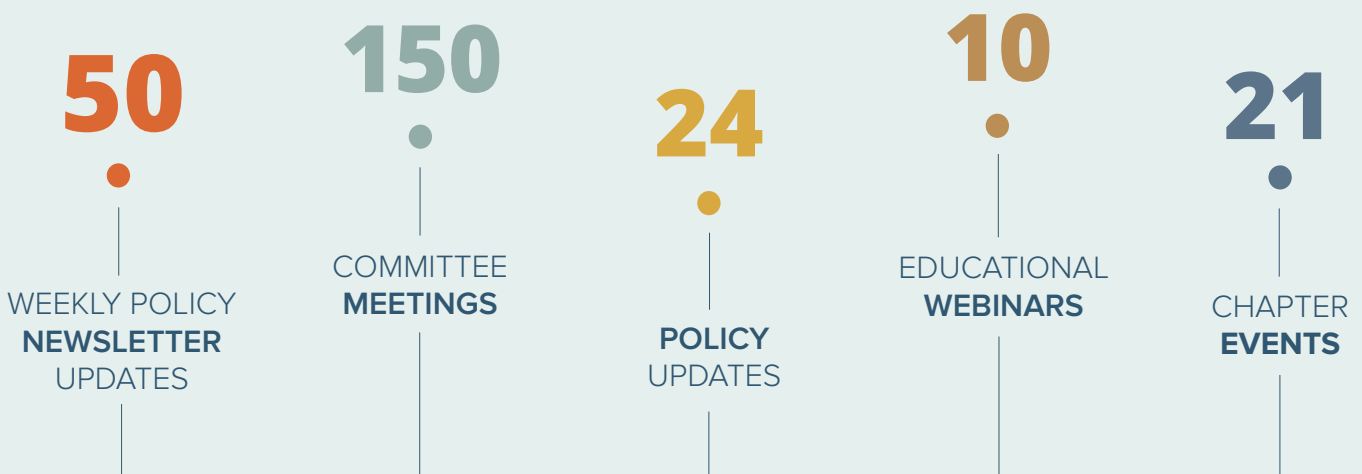


## 2023 REVENUE SOURCES



## MEMBER EDUCATION

Member companies stayed ahead of the competition in 2023 by getting timely, detailed, and reliable information to navigate the tumultuous California market. In 2023, CALSSA members benefited from:



# 2023 MEMBERS (con't)

Mel Bradley Electric  
Mendocino Solar Service  
Mentis Corp  
Meyer Burger  
Michael & Sun Solar Inc  
Mid Valley Power  
Mid-State Solar  
Milestone Risk Management  
Milton Hare Consulting  
Mission Solar Electric  
Mission Solar Energy  
Mitra EV, Inc.  
MMPV Design, Inc.  
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Mosaic  
Motive Energy Storage Systems, Inc  
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My Solar Solutions  
Mynt Systems  
NABCEP  
Nabu Energy LLC  
National Energy Installers  
Nationwide Sun  
Natron Resources  
NeoVolta  
New Day Solar  
New Leaf Electric  
NewGen Energy  
NewWorld Energy  
Nexamp, Inc.  
Next Energy  
Next Phase Electric  
Nextracker  
Nobell Energy Solutions, LLC  
Nor Cal Solar  
NorCal Solar Services  
Noria Energy  
North Bay Solar Services  
North Coast Solar (Energy Equity)  
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Northern Pacific Power Systems  
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NuLife Power  
nVent  
O'Connell Solar Consulting  
O&M Solar Services, LLC  
Occidental Power Solar & Cogen  
Ohm Analytics  
OhmConnect  
Omni Energy Solutions, Inc.  
Omidian  
Onswitch, Inc.  
OpenEGrid  
OpenSolar  
Option One Solar  
Optony  
Opulent Power Solutions  
OurGeneration LLC  
OutBack Power  
Pacific Energy Company  
Pacifico Power LLC  
Palmetto  
Palomar Solar Ltd

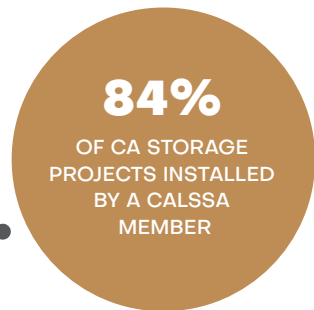
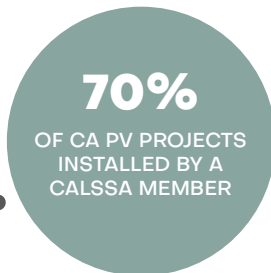
Panasonic Corporation of North America  
ParagonSun  
Pathion  
Pause Grid  
Pav-Solar  
Peak Demand Inc  
Peak Power USA  
PearlX  
Pegasus Solar, Inc.  
Pell Solar  
Perl Street  
Perpetual Power  
PerryBuilt Construction Inc  
Phoenix Energy Solutions  
Photon Brothers  
Pickett Solar  
Pivot Energy  
Planet Plan Sets LLC  
Planet Solar Inc  
POCO Solar Energy Inc.  
Point Guard Energy  
POSH  
Power On Solar  
Power-Structures LLC  
PowerFlex EDF Renewables  
Powers Engineering  
PowerTree  
Powur  
Premo Roofing & Solar  
Prime Home Solutions, Inc.  
Project Development Solutions  
Prologis, Inc.  
Promise Energy, Inc.  
ProSolar (Professional Solar Products)  
Pure Power Engineering  
Pure Power Solutions  
PV-Cables, Inc.  
PVComplete Inc.  
PWR Logix Solar  
PYCEM, INC.  
PYTES (USA) Energy Inc.  
Q CELLS  
Quattro Solar, Inc.  
QuickBOLT  
R.T. Maher Construction  
R3 Solar  
Radiant Solar Technology, Inc.  
Raneri and Long Roofing & Solar  
Raymond Peng Construction  
RCA Electric  
RCES-Powur  
RE-volv  
REC Americas LLC  
Redaptive  
Rehab Solar Construction  
Reimagine Power  
Rem Electric  
Renewa  
Renewable America  
Renewable Construction Services Inc.  
Renewable Energy Partners, Inc  
Renewable Gateway  
Renewable Sales & Power  
Renewable Solar, Inc.  
Renogy  
Renova Energy Corporation  
Renvu Solar Equipment Distribution  
REPOWER OC  
Repower Yolo  
RePurpose Energy

REV Energy Ventures  
Revel Energy  
Rexel USA  
Rheem Manufacturing Company  
RIC Energy  
Rigo Solar Solutions LLC  
Rise Energy  
Robert's Solar  
Rockstars Solar  
Rod Bergen P.E.  
Ron Dorris Electric & Solar  
Roof Tech Inc.  
Rosendin Electric  
Royal Aire  
RoyPow USA  
RSR Solar (Powur Partner)  
RST Cleantech USA  
Run on Sun  
S-5I  
Sage Energy Consulting  
San Diego County Solar  
San Diego Solar Inc.  
Sandbar Solar  
Santa Cruz Solar  
Sattler Solar Inc.  
Savant Systems Inc.  
Save a Lot Solar  
Sawmill Solar Electric  
Sbrega Electric  
SC-RISE, CE-CERT, SVC  
Scale Microgrids  
Scanify, Inc.  
Schneider Electric  
Scudder Solar Electrical Energy Systems  
Scurfield Solar & Heating  
Sea Bright Solar Inc.  
SEG Sustainable Energy Group  
Select Solar Professionals  
Semper Solaris  
SepiSolar, Inc.  
Sespe Power Solutions  
SGIP Consultant Group Inc  
Shade Power LLC  
Shaw Energy Consulting LLC  
Shorebreak Energy Developers  
Shute, Mihaly & Weinberger, LLP  
SIC USA LLC  
Sierra Pacific Home & Comfort  
Sierra Roofing and Solar  
Silfab Solar  
Simmitri  
Simply Solar  
Simply Solar LLC  
Sinotec Solar  
Six Rivers Solar  
Sky Power Solar  
Skyline Smart Energy  
SkyLink Solar Inc.  
SLO Sun Energy  
SMA America, LLC.  
Smart Solar Design Construction, LLC  
Socomec  
Sol R US Electrical Engineering  
Sol Rebel  
Sol-Ark  
Sol-Up  
Solagistics  
Solahart Industries Pty Ltd  
Solar Bill Review  
Solar Carports Direct

Solar Connection Construction  
 Solar Data Pros, Inc.  
 Solar Electric Technology  
 Solar Energy Builders  
 Solar Energy Consultants, LLC  
 Solar Forward  
 Solar Gain West  
 Solar Insure, Inc.  
 Solar Landscape LLC  
 Solar Maintenance Pros  
 Solar Motion  
 Solar Office Solutions  
 Solar Optimum  
 Solar Price Discovery Inc  
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 Solar Symphony  
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 Solar Tech International  
 Solar Technologies  
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 Solar Works  
 Solar4America  
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 SolarCraft  
 SOLARCYCLE  
 Solare Energy, Inc.  
 Solare Power  
 SolarEdge Technologies  
 SolarFusion Group Inc  
 SolarGem Electrical  
 SolarGnosis  
 SolarHut, LLC  
 Solaris Energy  
 SolarKal  
 SolarMax Technology  
 Solarponics, Inc  
 SolarPorts Development  
 SolarReviews.com  
 SolarSesame  
 SolarShoppers  
 Solarviva  
 solarXperts  
 Solcha  
 Soligent  
 Sollrvin LLC  
 Solis Energy  
 Sollow  
 SolMicroGrid  
 Solo  
 Solteq Solar Tile Roof  
 Soltiles  
 Sonepar  
 Sonnen Inc.  
 Source Solar, Inc.  
 Span.IO  
 Spectrum Energy Development, Inc  
 Spreck Energy  
 Sprig Electric  
 Stable Solar, Inc.  
 Stada Energy  
 Standard Solar  
 Staten Solar  
 Station A, Inc.  
 Stellar Solar  
 Stem, Inc.  
 Stratagem LLP

Strategic Solar Recycling  
 Summit Technology Group, Inc.  
 Sun At Work Electric Inc  
 Sun First Solar  
 Sun Light & Power  
 Sun Pacific Solar Electric, Inc  
 Sun Solar Electric  
 Sun Up Electric Inc.  
 Sunbank Solar, Inc.  
 Sunbrook Solar Power & Electrical Systems  
 Sunco Solar Electric Inc.  
 SunEarth, Inc.  
 Sunfox Solar  
 Sungage Financial, Inc.  
 Sungenia Solar Solutions  
 Sungenix Energy Solutions  
 SunGreen Systems Inc.  
 Sunlight Solar Inc  
 SunMade Energy  
 SunModo Corp.  
 Sunnera  
 Sunnova Energy Corporation  
 SunPower by esaSolar  
 SunPower by Quality Home Services  
 SunPower By Sun Solar  
 SunPower Corporation  
 Sunrise 805  
 Sunriver Solar  
 Sunrun  
 SunSolar U.S. Inc.  
 SunSpark Technology Inc  
 Suntegrity Solar  
 Sunterra Solar Inc  
 Sunthurst Energy, LLC  
 Suntrek Industries, Inc.  
 Sunwealth Power Inc.  
 SunWork Renewable Energy Projects  
 Sunworks, Inc.  
 Sustainable Technologies  
 Sustineo  
 Sutro Power  
 Sutton Enterprises  
 Swell Energy  
 SWG Energy Inc  
 Symbium Corp.  
 Symmetric Energy LLC  
 Synergy Home Improvement  
 Synergy Power  
 Synergy Solar & Electrical Systems Inc.  
 Tamarack Solar Products  
 Tangerine+  
 Taylor Energy Systems, Inc.  
 TENCO SOLAR, Inc.  
 Termicol  
 TerraCurrent  
 TerraVerde Energy, LLC  
 Tesla  
 The Climate Center  
 The Big Deal Solar Inc.  
 The Energy Coalition  
 The Helios Group  
 the r&d lab  
 The Solar Contractor  
 ThinkWire Energy Services

Tier1 Power  
 Tigo Energy  
 Titanium Solar LLC  
 TJA Clean Energy, LLC  
 Torus  
 Total Energies  
 Transform Energy  
 Transform Power  
 Treepublic  
 Triad Power Solutions LLC  
 True Power Solar  
 TruSource Energy  
 Ty the Solar Guy  
 UMA Solar Inc.  
 Unique Solar  
 UNIRAC, Inc.  
 United Sun Energy  
 UnThink Solar  
 Upstart Energy  
 US Green Energy Technologies Inc.  
 US Solar Distributing Inc  
 UtilityAPI  
 Valley Solar Solutions  
 Valta Energy, LLC  
 Vasco Solar Energy  
 Vector Green Power, LLC  
 Ventura Energy LLC  
 Verdera Partners, Inc.  
 Villara Building Systems  
 Vital Energy  
 Vivid Solar  
 VSUN SOLAR USA INC  
 Walter Mortensen Insurance/INSURICA  
 We Recycle Solar  
 Weber Energy Group  
 Wenger Ventures  
 WESCO Distribution  
 Westcoast Solar Energy  
 Westech Systems LLC  
 Western Sun Systems, Inc.  
 Westhaven Solar  
 White Pine Renewables  
 Wicks Roofing  
 Wing Solar & Wood Energy, Inc.  
 Wired Into the Future Inc.  
 Wunder Capital  
 Xero Solar  
 Yaskawa - Solectria Solar  
 Yotta Energy  
 Your Energy Solutions  
 Your Solar Energy Pro  
 Your SolarMate  
 Zendure  
 Zenith Solar LLC  
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