

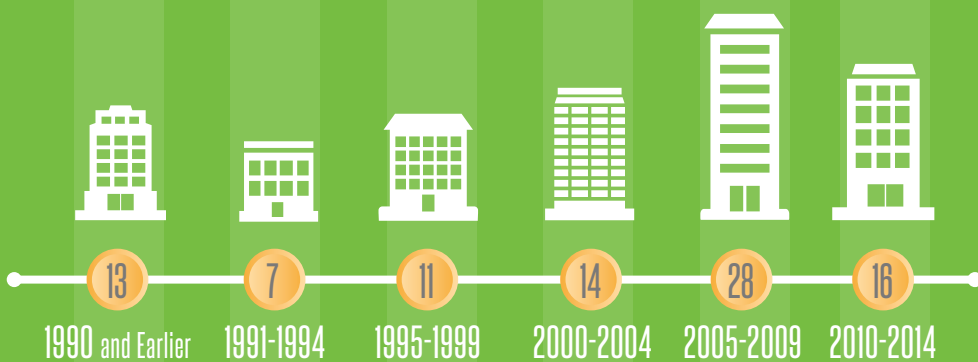
Industry Snapshot

Based on our new survey, the clean tech cluster in our region is still booming. In the past year, the core of this sector added 850 jobs (for a new total of 4,150 jobs) and \$340 million in revenue (a new total of \$2.54 billion). This amounts to a growth of 15% in revenue and 22% in jobs. In these surveys, we track a core group of businesses that are either manufacturing clean tech goods or providing services based on proprietary IP. We do not track the many more jobs in companies that for example

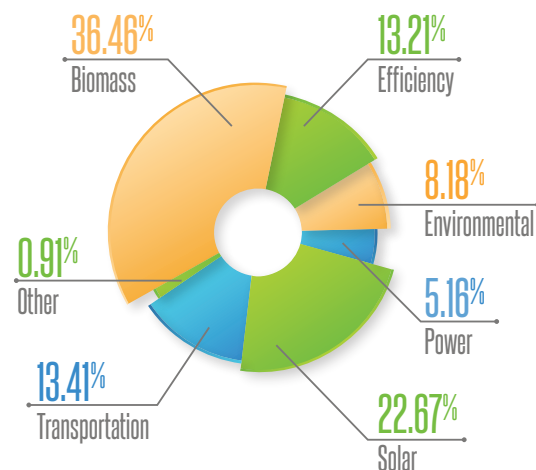
do solar installations, or do efficiency upgrades. Others have noted that using a broader definition, the clean tech sector here accounts for over 14,000 jobs. SARTA's goal has been to help the core clean tech sector grow to 10,000 jobs and \$5 billion in revenue. In our first survey in 2004, we identified only 650 jobs in this sector. In this past decade, the sector then has grown six-fold—a huge leap forward and a measure of the substantial momentum carrying the industry forward here.

CleanStart Company Stats

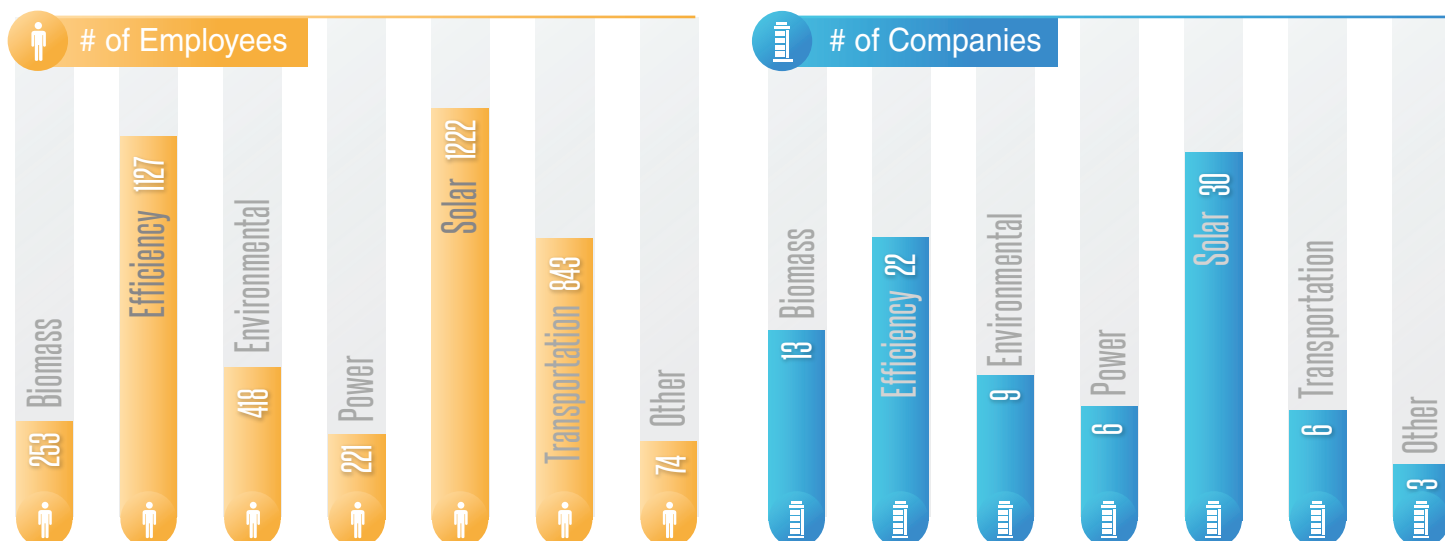
Companies by Year Established



Annual Revenue



Profiles of CleanTech Companies



Awards & Accolades



2014

**Innovator
of the Year**



Dr. Ruihong Zhang

Dr. Ruihong Zhang is a professor of biological and agricultural engineering at University of California Davis who developed technology to build anaerobic biorefineries. That technology is being commercialized by Sacramento-based CleanWorld, where Zhang is chief technical adviser. The technology turns organic waste and waste food into electricity and natural gas and also soil amendments.

CleanStart Overview

CleanStart Launches Electric Vehicle Video Series

In April, CleanStart launched our new series of electric vehicle (EV) videos designed to promote EVs to both consumers and sales specialists. The videos, produced in partnership with the Sacramento Municipal Utility District (SMUD), include two short 30 second videos promoting how fun EVs are to drive and the lower maintenance of EVs. In addition, we include an interview segment with current EV owners and a video series targeted to car dealership sales staff. SARTA collaborated with the Sacramento EV Association to create the videos and learned a lot from current EV owners about why they love their EVs, including the vehicle torque, how fun they are to drive, and fuel savings. You can view the Electric Vehicle Training videos under the resources tab on our sarta.org website.

CleanStart Program Hosts Networking Series

The CleanStart program is having a great start to our year! We brought CleanTech to Nevada City in March for an evening of networking in the Sierras. Featured presenters included local entrepreneurs and clean tech leaders including Michael Carroll, CEO of Helios Altas, Brandon Davis, Sales Manager of California Solar Electric Company, and Dr Richard Philpott, CEO of Burst Energies. Participants enjoyed wine and hors d'oeuvres while networking at the beautiful Nevada City Winery where the event was held. We will continue our CleanTech mixer this summer, with a final installment in the fall.



**PitchFest 2014
Winner**



The Clean Tech winner of Pitchfest 2014 was Sunfolding, a company developing a solar tracking system for photovoltaic arrays. Pitchfest is a competition that took place as part of SARTA's TechCon Sacramento 2014. Rather than using gears, levers, motors and actuators to orient solar panels to face the sun throughout the day, Sunfolding uses compressed air and plastic containers to orient the arrays. It is less expensive and reduces maintenance costs. The runner up for Clean Tech PitchFest was Solar Roof Dynamics. Solar Roof Dynamics partners with roofing contractors to integrate solar into their business operations allowing them to offer customers an integrated roof and solar system.

Who We Are

sarta

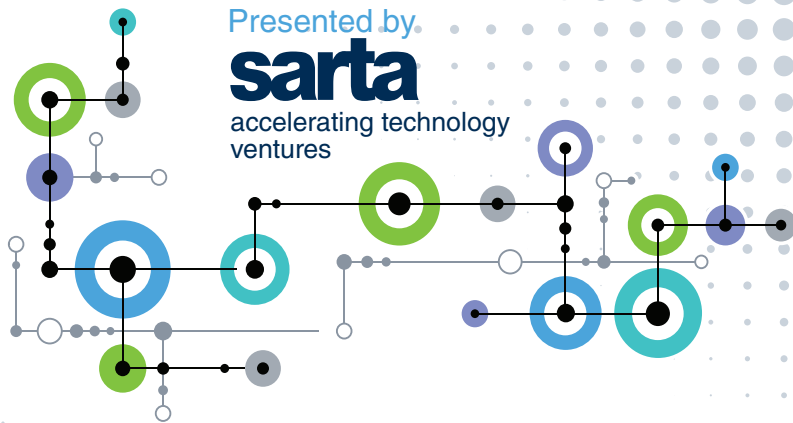
SARTA is the leading non-profit organization accelerating the growth of technology companies in the Sacramento region. We connect and engage the regional tech ecosystem of leaders, entrepreneurs, investors, service providers, community organizations, and educational institutions. www.sarta.org

CleanStart

SARTA's CleanStart Program, founded in 2004, is designed to stimulate the development and success of early stage clean technology companies and to build a regional clean tech cluster through education, collaboration, and partnering. Board Member Gary Simon is the Chair of the Program.
Program Director: Amber Harris amber@sarta.org



SARTA plays an important role of cooperation and ways to bet



What's Happening in the Region



8minutenergy Renewables

LLC (Folsom) The solar company recently signed a 25 year contract involving Midway III Solar Farm that is set to begin this year. The project will create electricity for more than ten thousand homes in southern California when completed.

California Sunlight (Sacramento)

California Sunlight (Sacramento) Founder and CEO Bing Gu has developed a solar balloon cooker that concentrates the sun's rays. The cooker creates enough heat to cook food and purify water. The balloon is collapsible and portable allowing it to be used for camping, backpacking and in remote areas that need clean water and cleaner ways to cook. California Sunlight was one of finalist companies that pitched to investors at the Entrepreneur Showcase at Velocity Venture Capital.

Pacific Ethanol (Roseville) Pacific Ethanol, Inc. is on track for achieving earnings of \$20 million for 2014. This is an increase over a loss of \$2 million from the prior year. Pacific Ethanol makes and markets low-carbon renewable fuels, choosing to locate its plants close to its customers to reduce costs and differentiate itself in the marketplace.



sarta 2015

TECHEDGE

Celebrating the Sacramento Region Tech Industry

The Sacramento Tech community celebrated with style at TechEdge 2015. CleanStart's Succeeding in Sacramento speaker was Anders Rehnvall, Founder and CEO of ezeSystem, Inc. The TechEdge keynote speaker, Mark Mastrov is the Founder of 24 Hour Fitness. Mastrov

also serves as Chairman and Founder of the Mastrov group led by Vivek Ranadive. The Mastrov group recently purchased the Sacramento Kings in an exciting move to keep the team local to the Sacramento region. Explore more SARTA events by going to sarta.org and clicking on "events".

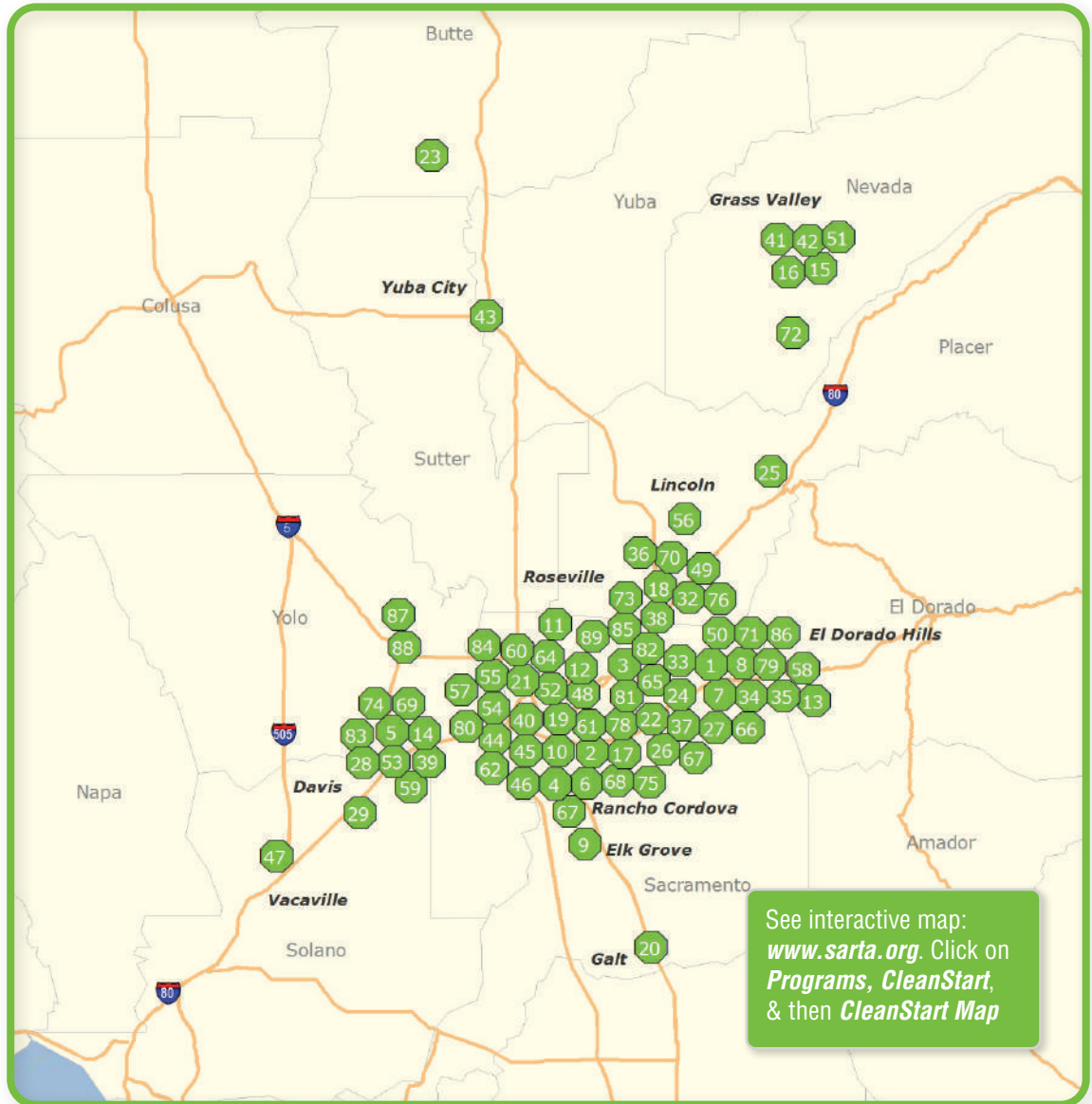
Propel Fuels (Sacramento) Propel Fuels recently announced that it was moving back to Sacramento. Propel was founded in Seattle in 2004, relocated to Sacramento in 2008, and had left in 2010 to move again to Redwood City. Propel, a renewable fuels retailer, is making the return to Sacramento in part due to more affordable housing. They hope to employ 16 in 2015 and have a staff of 30 by the end of 2016.

*in providing a forum for cleantech business leaders to meet and find areas
er grow Sacramento into becoming the low-carbon capital of the world.*

– Mike Hart, President & CEO, Sierra Energy



- 1 8minute Energy Renewables, LLC
- 2 8 minutes solar
- 3 ACR Solar International
- 4 Acuity Brands
- 5 Advanced Energy Products
- 6 Airco Mechanical, Inc.
- 7 Altery Systems
- 8 Ambercycle
- 9 Atlantis Energy Systems, Inc.
- 10 Bagatelos Architectural Glass Systems, Inc.
- 11 Battery M.D., Inc.
- 12 Beutler Corporation
- 13 Bloo Solar
- 14 Blue Oak Energy
- 15 Burst Laboratories
- 16 California Solar Electric Company
- 17 California Sunlight
- 18 Capital City Solar
- 19 Capital Energy Solutions
- 20 Cardinal Glass
- 21 Cha Corporation
- 22 Clean Energy Systems, Inc.
- 23 Clean Flame
- 24 CleanWorld
- 25 Clipper Creek
- 26 Cybo Energy
- 27 D3 LED
- 28 Davis Energy Group
- 29 Efficient Drivetrains, Inc.
- 30 Electric Vehicles International
- 31 Enable Energy
- 32 Energy Exemplar
- 33 Envirocycle USA
- 34 Eurofins Air Toxins, Inc.
- 35 eze System, Inc.
- 36 Frontier Wind
- 37 Glide Cruisers, USA
- 38 Granite Bay Energy Group, Inc.
- 39 GreenBotics
- 40 Greenleaf Power LLC
- 41 Green Planet Power Solutions
- 42 Green Smart
- 43 Greentraks
- 44 Greyrock Energy, Inc.
- 45 GridSense Inc.
- 46 Henwood Associates, Inc.
- 47 Integrated Comfort
- 48 Jerico Energy
- 49 JLM Energy Inc.
- 50 Johnson Controls Inc.
- 51 Kaco New Energy, Inc.
- 52 Lucent Optics
- 53 Marrone Bio Innovations, Inc.
- 54 Meca Solar
- 55 Micromidas
- 56 Mobius Technologies, Inc.
- 57 Mounting Systems-US
- 58 NLine Energy
- 59 Novozymes Inc.



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| 60 Optic Lanes | 70 SMA America | 80 Synterra Energy |
| 61 Organic Energy Corporation | 71 Smart Grid Billing | 81 System 3 Inc. |
| 62 Pacific Ethanol, Inc. | 72 SMART Light Systems | 82 T3 Office Recycling Solutions |
| 63 Pacific Power Renewables, Inc. | 73 SolarCity | 83 Talbott Solar & Radiant Homes |
| 64 Package One, Inc. | 74 Solar Roof Dynamics | 84 Technikon Inc. |
| 65 Peak Demand Automation | 75 Soligent | 85 TNT Lighting and Solar |
| 66 RCS Technology | 76 SPI | 86 Trimark |
| 67 REC Solar | 77 Springboard Biodiesel LLC | 87 West Biofuels LLC |
| 68 Siemens Mobility | 78 Swinerton Renewable Energy | 88 Woodland Biomass |
| 69 Sierra Energy | 79 SynapSense Corporation | 89 ZETA Communities |

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