



**California Dairy
Sustainability
Summit**

**November 27–28, 2018
Sacramento Convention Center**

Hosted by



Look for the Seal
California Milk Advisory Board

Event Program

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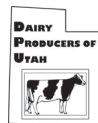


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Welcome



Welcome to the inaugural California Dairy Sustainability Summit. California dairy farmers have a long history of raising the bar for environmentally friendly farming practices. For decades, the California dairy industry has worked collaboratively with state officials and researchers, while making considerable investments in strategies, technologies, and programs to boost sustainability. We continue to support our state's progressive policies to protect our climate, water, air, and land. Our farmers continue to produce more milk, using fewer resources, creating a world-leading model of sustainable farming.

At this inaugural event, we will celebrate all we have achieved so far, recognizing partnerships with researchers, state agencies, innovative companies, and non-governmental organizations. We will continue to strengthen these relationships, while building new ones as we further expand the scope of our work as environmental stewards. We recognize that our dairy farmers continue to face many challenges, so we must remain diligent in finding solutions that offer economic and environmental benefits with the goal of sustaining our family farms for the long term.

For dairy farmers, sustainability means identifying solutions that provide multiple economic and environmental benefits. It means making decisions today by considering how those choices will serve consumers, animals, the environment, and their families and communities well into the future. Sustainability means planning ahead to ensure we are able to pass our farms down to the next generation. Despite challenging market conditions, our farmers continue to adopt new technologies, striving to improve our economic efficiency and environmental performance, and further reducing the environmental "hoofprint" of delicious, nutritious, and affordable dairy foods that people love.

California is our nation's top-producing agricultural state, thanks in part to also being the nation's largest producer of dairy products. Our industry is a vital part of the Golden State's 21st Century economy and the global food system. Our family farms are preserving important values of hard work, ethics, diligence, and community. Dairy farming is not just an occupation; it's a way of life. While we work hard to keep our family farms in business, we are also serving as world leaders in developing sustainable farming practices.

We have invited leaders from across the nation and globe to participate as we continue to advance. We must find solutions that will work here in California. However, we also realize that if these models can't be implemented sustainably here and across the globe, they will have little value in protecting our planet.

We are glad you have decided to be a part of the California Dairy Sustainability Summit. This is an exciting and important moment for the dairy industry. What we achieve in these two days is only a stepping stone in our continuing journey. We must all work collaboratively to help sustain our family farms, while leaving a legacy for the next generation, further securing dairy's role in a sustainable global food system.

Sincerely,

Charles "Chuck" Ahlem

2017 World Dairy Expo Dairyman of the Year

Chairman, Dairy Cares

Board Member, California Dairy Research Foundation

Board Member, Dairy Council of California



Look for the Seal
California Milk Advisory Board



Collaboration • Climate Investments • Cleaner Air



arb.ca.gov/cc/dairy/dairy.htm

Summit Program

Day 1		Dairy's Role in Advancing California's Sustainability Objectives
9:00 AM - 10:00 AM	Opening Session	<p>California dairy farmers are true pioneers—using innovation and cutting-edge research to redefine dairy farming for the world.</p> <ul style="list-style-type: none"> Karen Ross, Secretary of the California Department of Food and Agriculture Frank Mitloehner, PhD, Professor and Air Quality Specialist, UC Davis Department of Animal Science
10:00 AM - 11:00 AM	Panel 1 - Consumption with a Conscience: The New Playing Field for Food Brands	<p>Dive into dairy consumption trends and retail markets, including a discussion on increased consumer interest in the environmental impacts of food choices—from farm to table.</p> <p>Moderator: John Talbot, Chief Executive Officer, California Milk Advisory Board</p> <ul style="list-style-type: none"> Linda Eatherton, Partner, Managing Director, Global Food & Beverage, Ketchum Bob Langert, President, Mainstreaming Sustainability Editor at Large, GreenBiz Group, Retired McDonald's VP of Sustainability David Ahelm, Chief Executive Officer, Hilmar Cheese Company Alex Palczek, Director of Marketing – Shopper COE, Nestlé
11:00 AM - 11:10 AM	Refreshment and Networking Break	Recharge and network during a brief coffee, tea and water break.
11:10 AM - 12:10 PM	Panel 2 - Dairy's Role in a Healthy and Sustainable Diet	<p>Explore nutrition in the context of sustainable food production, green eating (including the concept of plant-based eating), and the appropriate balance between the nutrition needs of people and the stewardship of our planet's resources.</p> <p>Moderator: Tammy Anderson-Wise, Chief Executive Officer, Dairy Council of California</p> <ul style="list-style-type: none"> Katie Brown, EdD, RDN, Senior Vice President Sustainable Nutrition, National Dairy Council Cindy Schweitzer, PhD, Principal, Schweitzer Consulting LLC Marianne Smith Edge, MS, RDN, LD, FADA, FAND, Founder and Principal, The AgriNutrition Edge Lynn Giacomini Stray, Co-Owner, Point Reyes Farmstead Cheese Co.
12:10 PM	Lunch	Enjoy a buffet lunch and time to network with dairy sustainability leaders.
1:00 PM - 1:30 PM	Dairy 2.0 - The Journey From Sustainable to Relevant	<p>Linda Eatherton, Partner, Managing Director, Global Food & Beverage, Ketchum</p>
1:30 AM - 2:30 PM	Panel 3 - Planet-Smart Dairy: California Leading the World	<p>California dairy farmers are world leaders in sustainable farming practices. Discover how dairy farmers are partnering to enhance water supply/quality, improve air quality, and protect our climate, while continually working to ensure the best possible animal care.</p> <p>Moderator: Michael Boccadoro, Executive Director, Dairy Cares</p> <ul style="list-style-type: none"> Frank Mitloehner, PhD, Professor and Air Quality Specialist, UC Davis Department of Animal Science Annette Jones, DVM, Director and State Veterinarian, California Department of Food and Agriculture Tyler Bennett, President, Bennett Environmental, Inc. & Bennett Water Systems Steve Maddox Sr., Managing Partner, Maddox Dairy Sahar Kamali, Director, Business Development, Clean Energy Renewables
2:30 PM - 2:40 PM	Refreshment and Networking Break	Recharge and network during a brief coffee, tea and water break.

Taking Action on Climate Change:

Dairy farms are doing their part. Here's how CDFA can help.

Dairy Digesters.



CDFA's Dairy Digester Research and Development Program provides financial assistance for the installation of dairy digesters in California to reduce greenhouse gas emissions.

Manure Management Alternatives.



CDFA's Alternative Manure Management Program provides financial assistance for the implementation of non-digester manure management practices in California, which will result in reduced emissions.

Healthy Soils.



CDFA's Healthy Soils Program provides financial assistance for implementation of conservation management practices that improve soil health, sequester carbon and reduce greenhouse gas emissions. By also funding demonstration projects, the program showcases California farmers' and ranchers' implementation of healthy soils practices.

Water Use Efficiency.



CDFA's State Water Efficiency and Enhancement Program (SWEEP) provides financial assistance in the form of grants to implement irrigation systems that reduce greenhouse gases and save water on California ag operations.

www.cdfa.ca.gov/oei for details on all of these incentives.



CALIFORNIA DEPARTMENT OF
FOOD & AGRICULTURE

CDFA's Office of Environmental Farming & Innovation (OEFI)

Our mission is to serve California by supporting agricultural production and incentivizing practices resulting in a net benefit for the environment through innovation, efficient management and science.



Summit Program

Day 1		Dairy's Role in Advancing California's Sustainability Objectives
2:40 PM - 3:45 PM	Panel 4 - Encouraging Sustainable Food Production: A Workable Regulatory Approach	<p>Using past achievements as a guide, panelists will discuss the appropriate role of regulatory versus voluntary, incentive-based actions to improve sustainability. Looking ahead, regulatory and dairy industry leaders will strategize about how to ensure the sustainability of California's dairy farms, while advancing environmental protections.</p> <p>Moderator: Richard Matteis, Administrator, California Farm Bureau Federation</p> <ul style="list-style-type: none"> Jenny Lester Moffitt, Undersecretary, California Department of Food and Agriculture Ashley Boren, Executive Director, Sustainable Conservation Samir Sheikh, Executive Director, San Joaquin Valley Air Pollution Control District Richard Corey, Executive Officer, California Air Resources Board Patrick Pulupa, Executive Officer, Central Valley Regional Water Quality Control Board
3:45 PM - 4:00 PM	Purpose Led, Performance Driven - Sustainability	David Blakemore , President, Animal Nutrition & Health, DSM
4:00 PM - 6:00 PM	Expo Hall Opening Reception	Join us for refreshments, including Real California Cheese. Network with dairy farmers and industry leaders. Connect with technology and service suppliers that can help the dairy industry continue to address environmental challenges with cost-effective solutions.
Day 2		Strategies and Tools to Advance Sustainability, Improve Efficiency, and Reduce Costs
8:00 AM - 9:00 AM	Expo Hall Breakfast	Start your morning with some tasty treats and a walk around expo hall while networking with dairy farmers and industry leaders.
8:30 AM - 8:45 AM	Welcome Remarks	<ul style="list-style-type: none"> Felicia Marcus, Chair, State Water Resources Control Board
8:45 AM - 9:15 AM	Opening Session - Achieving True Sustainability: Perspectives from the Major Dairy Cooperatives	<ul style="list-style-type: none"> Matt Carstens, Senior Vice President, Land O'Lakes, Inc. Rob Vandenheuvel, Vice President of Industry and Member Relations, California Dairies Inc. Francis Pacheco, Vice President of Membership and Public Affairs, Dairy Farmers of America
9:30 AM - 10:20 AM	Breakout Sessions	<p>The Next Generation of Digesters: Electricity, Transportation Fuel, and Beyond</p> <p>Find out how development companies, state agencies, dairy farmers, and utilities are working collaboratively to voluntarily meet the state's manure methane reduction target, while boosting economic sustainability, and helping achieve California's increasingly ambitious clean energy goals.</p> <p>Moderator: Cliff Gladstein, President, Gladstein, Neandross & Associates</p> <ul style="list-style-type: none"> Neil Black, President, California Bioenergy Daryl Maas, Founder and Chief Executive Officer, Maas Energy Works Kevin Dobson, Vice President, Business Development, DTE Biomass Energy Tyler Henn, Vice President & General Manager, Clean Energy Renewables <hr/> <p>Automation on the Farm: Robotic Systems and Increasing Efficiency</p> <p>Two California dairy farmers, a nutritionist, and a veterinarian will share their experience implementing robotic milking systems and how these investments are benefiting animal well-being and farm economics.</p> <p>Moderator: William Ray, Vice President/ Senior Relationship Manager, Yosemite Farm Credit</p> <ul style="list-style-type: none"> Jonathon Postma, Managing Partner, Pete Postma and Sons Dairy, GP Halley Fobes, Consulting Veterinarian, Lander Veterinary Clinic Rick Jones, Partner, Jones Family Farm Steve Riesenbeck, Consultant, Dairy Works

The Air District is a proud sponsor of the
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Through our Methane Strategy and Climate Tech Finance Program we strive to:

- Reduce methane emissions with no net GHG increase
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- Provide financial incentives for technology adoption
- Research reduction potential of manure management practices
- Support robust local infrastructure & resilient supply chains
- Ensure healthy regional & neighborhood air quality

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Summit Program

Day 2
Strategies and Tools to Advance Sustainability, Improve Efficiency, and Reduce Costs
9:30 AM - 10:20 AM
Breakout Sessions (continued)

Money from manure? How do we get there?

A diverse panel of experts from the private sector, NGOs, and the research community will discuss opportunities to transform surplus manure into environmental and economic benefits.

Moderator: **J.P. Cativiela**, Regulatory Director, Dairy Cares, Executive Director, CVDRMP

- **Mark Stoermann**, Chief Operating Officer, Newtrient LLC
- **Ryan Flaherty**, Director of Business Partnerships, Sustainable Conservation
- **Denise Mullinax**, Interim Director, California Dairy Research Foundation, Assistant Director, CDQAP
- **Ruihong Zhang**, PhD, Professor, UC Davis Department of Biological and Agricultural Engineering

10:30 AM - 11:20 AM
Breakout Sessions
Take Control of Your Energy Destiny: Manage Rising Costs through Efficiency and Renewable Energy

Representatives from major utilities and renewable technology providers will highlight opportunities for dairy farmers to combat rising energy costs through energy efficiency and on-site energy technologies.

Moderator: **Michael Boccadoro**, Executive Director, Dairy Cares & Agricultural Energy Consumers Association

- **Justin Witte**, Senior, Customer Relationship Manager, AG/Food Processing, Pacific Gas & Electric Company
- **Traeger Cotten**, Field Engineer, Southern California Edison
- **Dean Swanson**, Director, Business Development, Sunworks Solar Power

Water-Smart Dairy: Strategies to Survive Increasing Water Scarcity

A diverse panel of experts will discuss what's being done to address water scarcity challenges, including the development and expansion of drip irrigation to increase water-use efficiency and improve yields.

Moderator: **Ryan Flaherty**, Director of Business Partnerships, Sustainable Conservation

- **Tyler Bennett**, President, Bennett Environmental Inc. & Bennett Water Systems Inc.
- **John Cardoza**, Project Manager, Sustainable Conservation
- **Geoffrey Vanden Heuvel**, Director of Regulatory and Economic Affairs, Milk Producers Council

Feed Additives: Can they Reduce Methane and Improve Your Bottom Line?

Panelists will discuss research efforts, feed additives, and other ways to reduce enteric emissions, and how these efforts might impact feed efficiency, milk production, and animal health.

Moderator: **Michael FitzGibbon**, Research Division's Climate, Atmospheric Science, & Economic Studies Branch Chief, California Air Resources Board

- **Ermias Kebreab, PhD**, Professor and Sesnon Endowed Chair, Sustainable Animal Agriculture Department of Animal Science, UC Davis
- **Thomas Hafner**, Chief Executive Officer, Mootral
- **Todd Armstrong**, Head, North American Ruminant Operations and Strategy, DSM

11:30 AM - 12:10 PM
Breakout Sessions
Managing Employment Trends, Retention, and Costs

Learn about dairy labor trends, challenges, and opportunities, and hear from dairy farmers as they discuss hiring, training, and retaining employees and providing valuable career opportunities.

Moderator: **Anja Raudabaugh**, Chief Executive Officer, Western United Dairywomen

- **Frank Cardoza**, Consultant, Dairy Works, Farm Manager, Phillip Verwey Farms
- **Aaron Wickstrom**, Managing Partner, Wickstrom Dairies L.P. and Valsigna Farms
- **Landon Fernandes**, General Manager, Fernjo Farms

Increasing Nutrient Use Efficiency for Survival and Profit

Dairy producers and experts will talk about practical, innovative solutions for gaining more value from manure applications, improving water and nutrient distribution, and streamlining recordkeeping for daily decision making.

Moderator: **Deanne Meyer, PhD**, Livestock Waste Management Specialist, Department of Animal Science, UC Davis & UC ANR

- **Bob Hutmacher, PhD**, UC Cooperative Extension Specialist and Center Director, West Side Research and Extension Center
- **Blake Alexandre**, Owner, Alexandre Family Farm
- **Michelle Tacherra**, Environmental Manager, Morning Star Dairy, Inc.
- **Simon Vander Woude**, Owner, Vander Woude Dairy



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Summit Program

Day 2
Strategies and Tools to Advance Sustainability, Improve Efficiency, and Reduce Costs
11:30 AM - 12:10 PM
Breakout Sessions (continued)

Genetic Opportunities: Setting Your Strategy for Long-Term Success

Dairy farmers will discuss tools and strategies for continuing to advance environmental and economic sustainability through genetic progress—further increasing milk production and improving animal health.

Moderator: **Stanley Henderson, PhD**, Professor Emeritus, Cal Poly, San Luis Obispo

- **Brian Fiscalini**, Chief Executive Officer, Fiscalini Farms and Cheese Company
- **Frank Denis**, Herd Manager, Charles Ahlem Ranch
- **Wayne Glaeser**, Member Owner, Glaz-Way Enterprises, LLC

12:10 PM - 1:40 PM
Lunch in the Expo Hall

Enjoy a buffet lunch and time to network with dairy sustainability leaders.

1:40 PM - 2:30 PM
Breakout Sessions
Water Quality: What's Coming Next, and How to Prepare for the Challenges and Opportunities

Legal, regulatory, and technical experts will discuss what California dairies can expect with the changes in water quality regulations coming next year, as well as potential strategies to help navigate the challenges and opportunities that lie ahead.

Moderator: **Justin Gioletti**, Vice President, Robert Gioletti & Sons Dairy

- **Doug Patteson**, Confined Animal Facilities Program Manager, Central Valley Regional Water Quality Control Board
- **J.P. Cativiela**, Executive Director, CVDRMP, Regulatory Director, Dairy Cares
- **Theresa "Tess" Dunham**, Managing Shareholder, Somach Simmons & Dunn
- **Till Angermann**, Hydrogeologist and Technical Program Manager, Central Valley Dairy Representative Monitoring Program

Funding Incentives to Boost Economic and Environmental Sustainability

Learn about significant funding incentives available from regional, state, and federal agencies and how these can help dairy farmers invest in environmental and economic sustainability projects on their farms.

Moderator: **Paul Sousa**, Director of Environmental Services and Regulatory Affairs, Western United Dairymen

- **Amrith Gunasekara, PhD**, Science Advisor, California Department of Food and Agriculture
- **Kevin Abernathy**, General Manager, Milk Producers Council
- **Todd DeYoung**, Manager, Strategies and Incentives, San Joaquin Valley Air Pollution Control District

Optimizing Cow Health and Comfort: Emerging Technologies and Strategies

Panelists will discuss milestones to date, and new developments both within and beyond the FARM program, including the use of cow monitoring devices, tools for employee training, and other strategies to further improve animal health and comfort.

Moderator: **Michael Payne, DVM, PhD**, Program Director, California Dairy Quality Assurance Program, Dairy Program Coordinator, Western Institute of Food Safety & Security (WIFSS)

- **Frank Cardoza**, Consultant, Dairy Works, Farm Manager, Phillip Verwey Farms
- **Dr. Robert Hagevoort**, Associate Professor & Extension Dairy Specialist, New Mexico State University
- **Nicole Ayache**, Director, FARM Environmental Stewardship and Workforce Development, National Milk Producers Federation

2:40 PM - 3:00 PM
Closing Remarks

Marcus Benedetti, Chairman and CEO, Clover Sonoma

3:00 PM - 5:00 PM
Expo Hall Reception

Join us for refreshments and networking with dairy farmers and industry leaders. Connect with technology and service suppliers that can help the dairy industry continue to address environmental challenges with cost-effective solutions.



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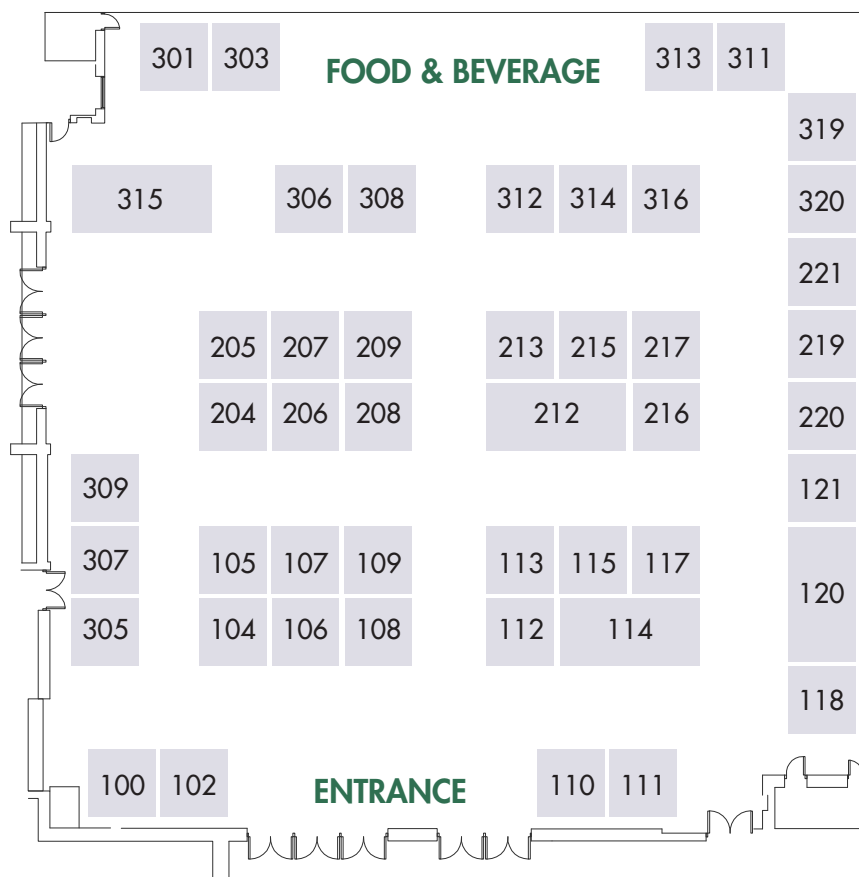


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Exhibitor Listing & Map



Expo Hall Hours

Tuesday, November 27

Expo Hall Grand Opening Reception
4:00 pm - 6:00 pm

Wednesday, November 28

Expo Hall Open
8:00 am - 5:00 pm

Breakfast

8:00 am - 9:00 am

Lunch

12:10 pm - 1:40 pm

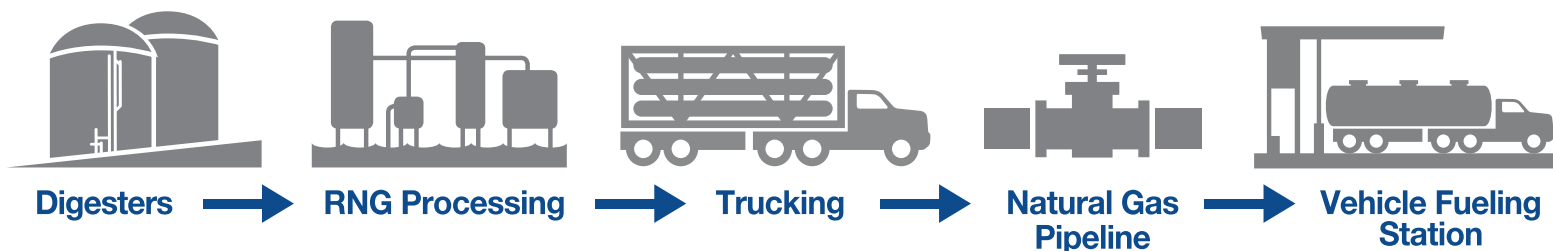
Reception

3:00 pm - 5:00 pm

COMPANY	BOOTH #	COMPANY	BOOTH #	COMPANY	BOOTH #
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Sponsor & Exhibitor Descriptions



4Creeks

4Creeks, Inc. is at the forefront of providing start-to-finish engineering solutions for Dairy Digesters in California. Throughout our design process, we work with our clients to ensure dairy operations benefit from the design of the digester, and that it works seamlessly with current and future dairy management. Our team of qualified engineers and construction managers offer a range of services including Feasibility Analysis, permitting and grant preparation, Site/Pond Design Engineering and Project Management.



Air Liquide

The world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with approximately 68,000 employees and serves more than 3 million customers and patients. Oxygen, nitrogen and hydrogen have been at the core of the company's activities since its creation in 1902. Air Liquide's ambition is to be the leader in its industry, delivering long-term performance and acting responsibly.



Alforex Seeds

Alforex Seeds focuses on developing and delivering alfalfa and forage solutions that help commercial hay growers and dairymen maximize the profitability of their forage acres and livestock enterprises. Through its affiliation with Corteva Agriscience and Dow Dupont, Alforex Seeds offers customers access to world-class seeds, technologies and solutions. Learn more at www.alforexseeds.com.



American Farmland Trust

American Farmland Trust (AFT) is the largest national organization dedicated to saving the land that sustains us by protecting farmland, promoting sound farming practices, and keeping farmers on the land. The organization works from "kitchen tables to Congress"—tailoring solutions that are effective for farmers and communities and can be magnified to have greater impact. AFT's focus in California includes scaling up the adoption of climate-smart agricultural practices, supporting existing and new generation farmers and landowners with resources and training, and state and local advocacy for smart-growth policies that promote farmland protection.



Audubon California

For over 20 years Audubon California has provided technical assistance and expertise to farmers who are interested in enhancing on-farm habitat to benefit birds, wildlife, and overall farm health. Through various programs, both private and public, we have engaged with hundreds of farmers throughout the Central Valley to implement best management practices to meet these goals.



Bay Area Air Quality Management District

The Bay Area Air Quality Management District is tasked with regulating stationary sources of air pollution in the nine counties that surround San Francisco Bay: Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, southwestern Solano, and southern Sonoma counties. The Air District aims to create a healthy breathing environment for every Bay Area resident while protecting and improving public health, air quality, and the global climate.



Bennett Environmental

Bennett Environmental turns wastewater liabilities into sustainable assets using proven Israeli technology that is fast, efficient, and small in footprint. We create renewable natural gas or electricity, helping to achieve GHG reduction goals and can deploy scalable and modular solutions at the same time to harmlessly reduce nitrogen by up to 95%. With Bennett Water Systems, we conserve and re-use water to increase irrigation and nutrient use efficiency, along with yields and profits.



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California Department of Food & Agriculture

The California Department of Food and Agriculture (CDFA) serves the citizens of California by promoting and protecting a safe, healthy food supply, and enhancing local and global agricultural trade, through efficient management, innovation and sound science, with a commitment to environmental stewardship. CDFA is responsible for implementing the Dairy Digester Research and Development Program (DDRDP) and the Alternative Manure Management Program (AMMP). DDRDP provides financial assistance for the installation of dairy digesters in California. AMMP provides financial assistance for the implementation of non-digester manure management practices on California dairy and livestock operations. Both programs are designed to reduce methane greenhouse gas emissions.



California State Water Resources Control Board

The State Water Resources Control Board and Regional Water Quality Control Boards (collectively Water Boards) preserve, enhance, and restore the quality of California's water resources and drinking water for the protection of the environment, public health, and all beneficial uses, and to ensure proper water resource allocation and efficient use, for the benefit of present and future generations. The Water Boards work with representatives from the California Department of Food and Agriculture, CalRecycle, Air Resources Board, and other sister agencies to ensure a coordinated approach to protecting human health and the environment. The Water Boards efforts support the state's Healthy Soils Initiative with a streamlined permitting process to encourage the growth and development of composting operations to ensure sufficient compost is available.



Clover Sonoma

Third-generation family owned and operated, Clover Sonoma is recognized as a leader at the forefront of the dairy industry. The Petaluma-based company in Northern California's beautiful Sonoma County was the first dairy in the United States to become American Humane Certified, and hold its partnership of family-owned dairy farms to a higher standard by developing its own unique Clover Promise of Excellence. Clover Sonoma is proud to bring clean and delicious dairy products direct from its farms to consumers. Now a Certified B Corporation®, the company uses its business as a power to do good, and its passionate support of animal welfare, sustainable business practices, and local community have always been hallmarks of the business.



DTE Biomass Energy

DTE Biomass Energy has extensive experience converting biogas into renewable natural gas for use as a transportation fuel. DTE currently owns and/or operates 23 biogas projects across the United States. Our team can provide capital, engineering, and operations expertise to help farms maximize profitability while minimizing their environmental footprint.



Farm Credit

Farm Credit consists of a group of cooperatively-owned lending institutions providing agriculture and rural America with a dependable source of credit. We specialize in financing farmers, ranchers, farmer-owned cooperatives, rural utilities and agribusinesses. Farm Credit offers a broad range of loan products and financial services, including long-term real estate loans, operating lines of credit, equipment and facility loans, cash management and appraisal and leasing services...everything a "growing" business needs.

WATER RESOURCE EXPERTS



- ▲ Groundwater Sustainability Planning
- ▲ Water Master Plans & Urban Water Management
- ▲ Basin & Watershed Monitoring
- ▲ Groundwater/Surface Water Interaction & Modeling
- ▲ Water System Engineering
- ▲ Well & Pump Station Design
- ▲ Water Treatment & Distribution System Design
- ▲ Groundwater Recharge / ASR
- ▲ Land Subsidence Monitoring & Evaluation
- ▲ Salt & Nitrate Management Planning
- ▲ Regional Nutrient Monitoring & Management
- ▲ CEQA Technical Support



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FIGURE



Figure 8 Environmental

Manure management for dairy farms presents one of the most exciting opportunities available today. Leaving manure management in the antiquated treatment methods of yesterday is dangerous while at the same time wasteful for the financial health of your dairy. We can significantly improve the bottom line of your dairy while removing pollutants that are monitored by government agencies, and creating potential profit flows by recovering lucrative nutrients or reusing easily recyclable wastewater.



Greenberg Glusker Fields Claman & Machtinger LLP

With nearly 100 attorneys, Greenberg Glusker remains the largest single-office, full-service law firm in California. While based in Century City, our reach from L.A.'s Westside spans the entire United States and the globe. Our structure and business strategy allow us to meet our clients' needs in a competitive and cost-efficient manner, with first-tier legal services, in-depth industry knowledge, and fewer client conflicts than in a multi-office, national firm.



Hilmar Cheese Company

At Hilmar Cheese Company we improve lives around the world by being a leading producer of wholesome dairy products that contribute to the success of all stakeholders. Committed to innovation and sustainability, Hilmar Cheese Company, and our division, Hilmar Ingredients, serves customers in more than 50 countries. State-of-the art production facilities in California and Texas convert an abundance of high-quality milk into a variety of nutritious cheeses, whey protein, lactose, and milk powders.



Innovative Ag Services, LLC (IAS)

Innovative Ag Services, LLC (IAS) is based in the heart of the Central San Joaquin Valley. We are the leader in providing environmental compliance services to the dairy industry. IAS provides the highest value of professional services to the agriculture industry with uncompromising integrity.



J.D. Heiskell

J.D. Heiskell & Company is a 132 year-old grain and commodity trading business that also operates livestock feed manufacturing facilities in eleven states and exports grains and commodities to Mexico, the Pacific Rim, and the Far East. Since the year 2000, our enterprise has evolved from a small feed company with one manufacturing facility in Tulare, CA to one of the nation's premier providers of feed, grain, and commodity inputs.



Layfield Group

The Layfield Group is a vertically-integrated manufacturing, distribution and installations company. We provide tailored solutions that give our customers peace of mind, protect our communities, the environment and our families.

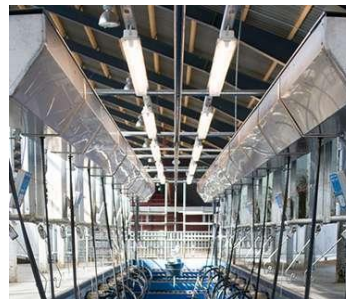


PG&E

Pacific Gas & Electric has a long history, over 100 years, of working together with farmers and ranchers building a better California. PG&E is proud to be a partner and participate in this year's California Dairy Sustainability Summit. PG&E recognizes the critical importance of agriculture both in feeding the world and sustaining our economy. All of us at PG&E are committed to serving the needs of agriculture with safe, reliable, affordable, and clean energy.

Dairy Programs

Whether you are building a bio-digester, retrofitting old equipment, or implementing demand response capabilities, PG&E's energy management solutions can be customized to meet the unique needs of your project. Increasing energy efficiency will help to maximize your solar generation output and optimize your dairy operation.



Products and Services

Program	Description	Contact
Biomethane Interconnection	We are committed to interconnecting biomethane projects in a way that is both safe and supportive of the state's climate goals. PG&E promotes the use of biomethane in three ways: fueling vehicles, generating power, and bolstering the natural gas supply in our pipeline network.	biomethane@pge.com Visit pge.com/biomethane to learn more.
Sustainable Solutions Turnkey	Want one project, PG&E can help you identify and implement energy efficiency, demand response, water conservation, on site generation and or digesters with our turnkey solution.	www.pge.com/ag 1-877-311-FARM (3276)
Energy Efficiency:	We have energy efficiency equipment rebates for the following: Agricultural ventilation fans, LED lighting, refrigeration upgrades, pipe insulation, and VFD's for dairy fans. Variable Frequency Drives for pumps and boosters. Pump repairs incentives for large and small pumps.	www.pge.com/ag 1-877-311-FARM (3276)
Energy Management Resources:	Through several business arrangements with third parties, PG&E offers a variety of subscription software-as-a-service (SaaS) products focused on energy efficiency and/or water management. With customized alerts and water and energy reporting, our service allows customers to quickly respond to changes in energy usage, adjust and optimize equipment in the field, and reduce operational expense due to energy costs while introducing additional opportunities for energy efficiency and demand response.	www.wexusapp.com/pge www.powwowenergy.com clamas-babbini@tangentenergy.com
Demand Response/Auto DR	Demand Response programs provide opportunities for customers to save or earn money by reducing energy usage when called upon. Participation also helps balance the electric grid without producing emissions. When you enroll in select Demand Response programs, you'll also be eligible for equipment rebates and added incentives through Automated Demand Response.	pge.com/demandresponse

Sponsor & Exhibitor Descriptions



Propane Education & Research Council (PERC)

The Propane Education & Research Council (PERC) is a check-off program established, operated, & funded by the propane industry. PERC has long invested in new vehicle & technology development with OEMs, nationwide, to expand the adoption of propane autogas among both public & private fleets. As a leading alternative fuel, PERC recognizes the important role propane autogas plays in the clean transportation movement. Abundant, affordable, & American-made, propane autogas' low total cost-of-ownership is a key advantage that helps fleets meet their economic & environmental goals.



Sacramento Municipal Utilities District

As the nation's sixth-largest community-owned electric service provider, SMUD has been providing low-cost, reliable electricity for over 70 years to Sacramento County (and small adjoining portions of Placer and Yolo Counties). SMUD is a recognized industry leader and award winner for its innovative energy efficiency programs, renewable power technologies, and for its sustainable solutions for a healthier environment.



San Joaquin Valley Air Pollution Control District

The San Joaquin Valley Air Pollution Control District is a public health agency, serving the central San Joaquin Valley of California, whose mission is to improve the health and quality of life for all Valley residents through efficient, effective and entrepreneurial air quality management strategies. We work to ensure that our mission is accomplished through commonsense, feasible measures that are based on sound science.



SKV Scientific

Vetericyn and SKV Scientific are brands from Innovacyn, Inc, offering innovative products for production livestock. These offerings focus on earth-centric solutions that combats problems arising in confined population densities, including dairies. From infectious disease control, to waste water & lagoon management, Innovacyn offers products that are affordable, safe for all stakeholders, and highly effective.



SOP - Save Our Planet

Save Our Planet creates solutions that promote sustainability for intensive dairy operations by improving the microbial activities across the life cycle of milk production. SOP's products for soil, animals, and manure increase the efficiency of dairy farms, while improving milk quality and reducing environmental impacts: Less synthetic fertilizer, improved feed efficiency, fewer veterinary interventions, lower energy use in lagoons, and reduced GHG, odor and ammonia emissions. With SOP, dairies can save money while Saving Our Planet.



Southern California Edison

Southern California Edison (SCE) is one of the largest electric utilities in the United States and a longtime leader in renewable energy and energy efficiency. With headquarters in Rosemead, Calif., SCE serves approximately 15 million people in a 50,000 square-mile area of central, coastal and Southern California. SCE has provided electric service in the region for more than 130 years.



INNOVATION | RNG

RENEWABLE NATURAL GAS

Together, SoCalGas® and California's dairy farmers can help the state reach its environmental goals. We can capture and convert the manure from California's dairies into clean, renewable natural gas (RNG) to fuel our homes, businesses and vehicles. We're proud to sponsor the California Dairy Sustainability Summit and the ongoing efforts of dairy farmers to promote sustainable environmental practices.



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Sponsor & Exhibitor Descriptions



Sunworks Inc.

Sunworks, Inc. (NASDAQ: SUNW) is a premier provider of high performance solar power systems. We are committed to quality business practices that exceed industry standards and uphold our ideals of ethics and safety. Sunworks continues to grow its presence, expanding nationally with regional and local offices. We strive to consistently deliver high quality, performance oriented solutions for customers in a wide range of industries including agricultural, commercial and industrial, federal, public works, and residential.



Trident Processes

Trident Processes is one of the leading providers of sludge dewatering solutions and livestock wastewater management systems. We develop custom solutions and turnkey systems and focus on the municipal, industrial and agriculture sectors. Whether starting from the beginning developing an innovative overall solution or developing a solution that will work better within an already existing process, Trident has helped many customers and is regarded as one of the leading resources for biosolids dewatering and nutrient recovery solutions.



United States Department of Agriculture (USDA)

The United States Department of Agriculture (USDA) vision is to provide economic opportunity through innovation, helping rural America to thrive; to promote agriculture production that better nourishes Americans while also helping feed others throughout the world; and to preserve our Nation's natural resources through conservation, restored forests, improved watersheds, and healthy private working lands.



Valley Agricultural Software

VAS is the total dairy management package! DairyComp, a proven tool, will do the job faster and with more sophistication than any other method. Pocket CowCard and EID processes large numbers of cows quickly and accurately. FeedComp will earn you money by increasing efficiency and decreasing waste. ParlorComp aids in production management while monitoring performance of milkers. The VAS Platform provides a dashboard and data access to all these programs (feed, cow, parlor) into a single platform—providing actionable intelligence that allows today's dairy farmer to make decisions when it will have the greatest impact on production: now.



Wraith Scarlett & Randolph Insurance

Wraith Scarlett & Randolph Insurance services provides a wide range of services to cover your insurance needs. From agriculture and crop risk management to residential, commercial and life insurance coverages. Our team is dedicated to taking care of our customers.



Zenith Agribusiness Solutions

Zenith is the premier specialist in workers' compensation nationally, and a leader in property and casualty insurance for the California agriculture industry. We combine depth of expertise with a forward-thinking approach to achieve the highest level of service and outcomes for our clients. We believe insurance is a long-term investment in your employees and the success of your business. We're passionate about helping our customers support their employees with safe workplaces, and when injuries occur, helping injured employees get the medical care they need and return to work.



ZeroNox

Headquartered in Porterville, California, Zero Nox, Inc. is an emerging leader in the green energy industry. With its proprietary drive train technology and battery management system, Zero Nox, Inc. has partnered with German forklift company Linde to provide the most advanced and efficient electric forklift in the industry. Come by our booth to see how, through California's Carb Credits and other clean energy initiatives, you can be the proud owner of a new top-of-the-line electric forklift that will be good both for the environment and on your bottom line.

IT MATTERS WHERE YOUR MILK COMES FROM



Crafted in Cowlifornia, the best place on earth to be a cow where the sweet fields of grass meet the salty sea. For over 100 years we've been perfecting the art of clean, tasty, conscious dairy, because we believe that the choices we make together with our 29 family-owned farms lead to a better glass of milk and a better future for all of our families. [Learn more at CloverSonoma.com](http://CloverSonoma.com)





The 2018 California Dairy Sustainability Summit is co-hosted by Dairy Cares, the Dairy Council of California, the California Milk Advisory Board, the California Dairy Quality Assurance Program, and the California Dairy Research Foundation. Event Partners include the California Cattlemen's Association, California Farm Bureau Federation, California Dairy Campaign, California Dairies, Inc., Dairy Farmers of America - Western Area, Dairy Institute of California, Hilmar Cheese Company, Land O' Lakes, Milk Producers Council, Producer's Dairy, Sustainable Conservation, Western States Dairy Producers Association, and Western United Dairymen. The Summit is organized by **Gladstein, Neandross & Associates** (gladstein.org), a leading US-based consulting firm specializing in market development for alternative fuels, vehicles, and equipment.



Dairy Cares (DairyCares.com) is a statewide coalition with a mission to ensure the long-term sustainability of California's dairy farm families through strong environmental stewardship and responsible animal care. Members include California's farmer-owned milk cooperatives, privately-owned milk processors, and trade associations.



For twenty years, the award-winning **California Dairy Quality Assurance Program (CDQAP)** (CDRF.org/cdqap) has worked as a partnership between the dairy industry, academia, and others to provide science-based education and third-party certifications, promoting the health of consumers, the environment, and the health and welfare of dairy animals.



The **California Dairy Research Foundation (CDRF)** (CDRF.org) is an independent non-profit organization that leads and delivers research and science-based programs towards a more innovative and sustainable California industry.



Funded by California's dairy farm families and local milk processors, **Dairy Council of California** (HealthyEating.org) empowers stakeholders, including educators, health professionals and communities, to elevate the health of children and families through the pursuit of lifelong healthy eating habits.



Look for the Seal
California Milk Advisory Board

The **California Milk Advisory Board (CMAB)** (RealCaliforniaMilk.com), an instrumentality of the California Department of Food and Agriculture, is funded by the state's more than 1,300 dairy families. With a mission to increase demand for products made with Real California Milk, the CMAB promotes California's sustainable dairy products in the state, across the U.S. and around the world.



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California Dairy
Sustainability
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