



Rethink

# METHANE

removing the fossil from the fuel

FEBRUARY 26-27, 2019 | SACRAMENTO, CA

Sacramento Convention Center

## SYMPOSIUM PROGRAM 2019



### High in Benefits, Low in Emissions.



GHG/SLCP Reduction



Sustainable Waste Management



Vehicle Emission Reduction



Economic/Job Development



Wildfire Prevention



Renewable Energy Storage

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# WELCOME

## LETTER FROM THE ORGANIZER

I am very pleased to welcome you to the 5th Annual Rethink Methane Symposium. Since 2015, GNA has organized this seminar to increase awareness and educate California policymakers on how renewable gas can help the state meet its environmental protection, climate mitigation, energy diversity, and sustainable development goals, as well as what Sacramento can do to help harness this important and essential energy resource.

Rethink Methane is made possible by the generous support of our sponsors, who not only provide the financial resources that enable our program, but also their time, energy and ideas to help us prepare a fresh and action-oriented discussion. Each of our sponsors deserve and receive our gratitude, but it is especially important to mention Wayne Natri (South Coast Air Quality Management District), Jack Broadbent (Bay Area Air Quality Management District), George Minter (Southern California Gas Company), and David Lewis (Pacific Gas & Electric). These leaders believe that harnessing the state's organic waste is key to reducing the impact of human activity on the climate and also recognize the benefit that substituting renewable gas would have in reducing the ongoing adverse impacts of continued diesel use on our communities. Additionally, these organizations have supported Rethink Methane since its inception in 2015, and for this we can't thank them enough.



For each of the last five years, and with the help of our sponsors and endorsing organizations, we have gathered pioneers of the renewable gas industry to share with policymakers how California, by harnessing the state's abundant organic resources, taking advantage of our leadership in agricultural innovation, and utilizing existing energy infrastructure to develop the capacity to store boundless volumes of surplus renewable power, could not only meet the state's carbon reduction, air quality improvement and energy diversity goals but can also build a dynamic and prosperous renewable gas industry. The benefits of a robust and thriving renewable gas business in California will be the retention of industries that have served as the foundation of the state's economy for generations, the formation of new businesses that complement the state's natural advantages, and the development a truly sustainable society in which nothing is wasted.

Since Rethink Methane 2018, much has happened. The state passed SB 100, which ups the ante for renewable power, making it imperative that California pursue diverse and workable solutions to the challenge of storing massive amounts of renewable electricity. With SB 1440 now signed into law, the CPUC is required to consider whether to establish a procurement requirement, similar to the renewable portfolio standard, for gas utilities to purchase renewable gas. Over the course of 2018, California was ravaged by the most devastating and deadly wildfires in its history, punctuating the desperate need for Sacramento to implement a folio of strategies to both thin the state's dying forests and use the extracted biomass to advance California's economic, environmental, and energy diversity objectives.

Rethink Methane continues to present California policymakers with the opportunity to hear a diverse set of perspectives and learn from experts across industries about the promise, prospects and challenges of creating a market for renewable molecules.

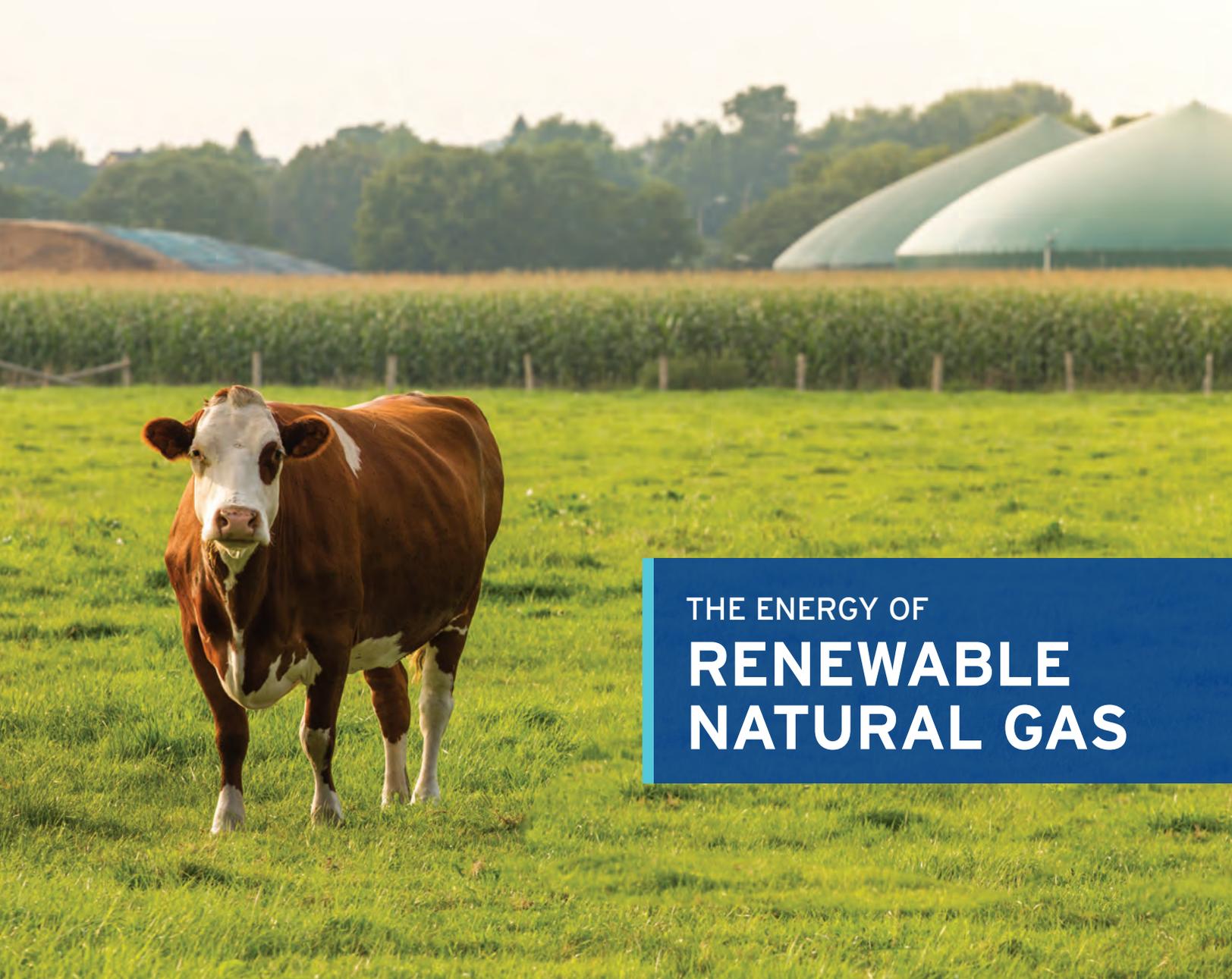
It is our hope, and the hope of our sponsors and endorsing organizations, that you will take the knowledge you gain here today and use it to make better public policy for California.

Thank you for taking time out of your busy schedule and welcome to Rethink Methane 2019.

A handwritten signature in blue ink that reads "Cliff Gladstein". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

**Cliff Gladstein**  
President  
Gladstein, Neandross & Associates





THE ENERGY OF  
**RENEWABLE  
NATURAL GAS**

SoCalGas® is proud to support the 2019 Rethink Methane Symposium and to play a part in transforming California's energy mix into one of the cleanest in the world. Creating renewable natural gas (RNG) from organic waste and using it to decarbonize buildings and to fuel near-zero emissions trucks and buses is among the most environmentally responsible, financially-sound ways to achieve California's environmental goals. SoCalGas supports balanced energy solutions that help protect our environment in an affordable and reliable way.

**Find out more at:** [socalgas.com/rng](https://socalgas.com/rng)



[socalgas.com](https://socalgas.com)

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# 2019 SYMPOSIUM AGENDA

## TUESDAY, FEBRUARY 26, 2019

8:00 am – 8:30 am	<b>Continental Breakfast</b> Sponsored by 
8:30 am – 8:40 am	<b>Symposium Welcome</b> <ul style="list-style-type: none"> <li>• <i>Cliff Gladstein, President, Gladstein, Neandross &amp; Associates</i></li> </ul>
8:40 am – 8:45 am	<b>Welcome Keynote Introduction</b> <ul style="list-style-type: none"> <li>• <i>Julia Levin, Executive Director, Bioenergy Association of California</i></li> </ul>
8:45 am – 9:05 am	<b>Welcome Keynote</b> <ul style="list-style-type: none"> <li>• <i>Assemblymember Cecilia Aguiar-Curry, Assembly District 4</i></li> </ul>
9:10 am – 10:15 am	<b>Panel 1 – RNG Regulation, Policy &amp; Programs - What's on Deck for the 2019 Legislative Year?</b> <i>Moderator: Jena Price, Legislative Affairs Manager at California League of Conservation Voters &amp; Partner at TrattenPrice Consulting</i> <ul style="list-style-type: none"> <li>• <i>Cliff Rechtschaffen, Commissioner, California Public Utilities Commission</i></li> <li>• <i>Tim Carmichael, State Agency Relations Manager, Sempra Energy Utilities</i></li> <li>• <i>Sam Wade, Director of Regulatory Affairs, Coalition of Renewable Natural Gas</i></li> </ul>
10:15 am – 10:25 am	<b>Networking Break – Recharge with a brief coffee and networking opportunity.</b> Sponsored by  
10:25 am – 10:50 am	<b>Stalled on the Hydrogen Highway: Roadblocks Causing Market Development Gridlock in California</b> <ul style="list-style-type: none"> <li>• <i>Jack Brouwer, Professor, Mechanical and Aerospace Engineering, University of California, Irvine; Director, National Fuel Cell Research Center</i></li> </ul>
10:50 am – 11:45 pm	<b>Panel 2 – Failure to Launch: Real-World Struggles of California Renewable Hydrogen Projects</b> <i>Moderator: Jack Brouwer, Professor, Mechanical and Aerospace Engineering, University of California, Irvine; Director, National Fuel Cell Research Center</i> <ul style="list-style-type: none"> <li>• <i>Jeffrey Reed, Advanced Power and Energy Program Chief Scientist, Renewable Fuels and Energy Storage, UCI</i></li> <li>• <i>Xuping Li, Senior Analyst Energy Systems and Technologies (Power-to-Gas), Hitachi Zosen Inova ETOGAS GmbH</i></li> <li>• <i>Mike Silva, Chief Engineer, CR&amp;R</i></li> </ul>
11:45 am – 12:40 pm	<b>Networking Luncheon</b> <i>Welcome Remarks: William Zobel, Vice President: Business Development, Marketing &amp; Customer Care, Trillium</i> Sponsored by 
12:40 pm – 1:00 pm	<b>Low Carbon Renewable Natural Gas (RNG) from Wood Wastes</b> <ul style="list-style-type: none"> <li>• <i>Dan LeFevers, Director of State and Consumer Programs, Gas Technology Institute</i></li> </ul>
1:00 pm – 2:05 pm	<b>Panel 3 – Beyond Transportation: How to Incentivize RNG for Residential and Business Customers</b> <i>Moderator: Tanya Peacock, Public Policy &amp; Planning Manager, Southern California Gas Company</i> <ul style="list-style-type: none"> <li>• <i>Rachael Terada, Director, Technical Projects, Center for Resource Solutions</i></li> <li>• <i>Ken Nelson, President, Blue Delta Energy</i></li> <li>• <i>Nick Mark, Manager, Conservation &amp; Renewable Energy Policy, CenterPoint Energy</i></li> </ul>
2:05 pm – 2:25 pm	<b>Afternoon Keynote</b> <i>Introduction: George Minter, Regional Vice President, External Affairs and Environmental Strategy, SoCalGas</i> <ul style="list-style-type: none"> <li>• <i>Senator Nancy Skinner, Senate District 9</i></li> </ul>
2:25 pm – 2:35 pm	<b>Networking Break – Recharge with a brief coffee and networking opportunity.</b> Sponsored by  

# 2019 SYMPOSIUM AGENDA

## TUESDAY, FEBRUARY 26, 2019

2:35 pm – 3:35 pm	<b>Panel 4 – Strategies to Encourage Private Investments in California Renewable Gas Projects</b> <i>Moderator: Mittal Monani, Senior Trader – Emissions, Direct Energy</i> <ul style="list-style-type: none"><li>• <b>Aaron Ratner</b>, Managing Director, Ultra Capital</li><li>• <b>Mary Solecki</b>, Partner, AJW</li></ul>
3:35 pm – 4:35 pm	<b>Panel 5 – Latest Moo-vement on Dairy Digester Development</b> <i>Moderator: Michael Boccodoro, Executive Director, Dairy Cares</i> <ul style="list-style-type: none"><li>• <b>Floyd Vergara</b>, Chief of Industrial Strategies Division, California Air Resources Board</li><li>• <b>Tom Jordan</b>, Senior Policy Advisor, San Joaquin Air Pollution Control District</li><li>• <b>Harrison Clay</b>, VP Strategic Development, Global Environmental Products, BP</li></ul>
4:35 pm – 4:45 pm	<b>ARB Closing Keynote Introduction</b> <ul style="list-style-type: none"><li>• <b>Bill Edmonds</b>, Director, Environmental Policy &amp; Sustainability, NW Natural</li></ul>
4:45 pm – 5:15 pm	<b>ARB Closing Keynote</b> <ul style="list-style-type: none"><li>• <b>Ryan McCarthy</b>, Science and Technology Policy Advisor, California Air Resources Board</li></ul>
5:15 pm – 7:00 pm	<b>Networking Reception – Stop by our exhibitors and learn more about RNG!</b> Sponsored by 

## WEDNESDAY, FEBRUARY 27, 2019

	<b>Off-Site Tour Cancelled:</b> <i>Due to weather conditions, access to the premises is unsafe. We apologize for the inconvenience.</i>
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# SPEAKER BIOGRAPHIES



## **Assemblymember Cecilia Aguiar-Curry, Assembly District 4**

In November 2016, Cecilia Aguiar-Curry was elected to the California Assembly to represent the 4th District that includes all or parts of Napa, Lake, Yolo, Sonoma, Colusa and Solano counties.

After going to school and working in the Bay Area for several years, she moved back to her hometown of Winters where she first served as planning commissioner and then was elected to the city council, eventually serving as the first female mayor of Winters. As mayor of Winters, Cecilia oversaw improvements in the downtown area and worked to improve local schools, including securing computers for every sixth grader in the city. She also brought broadband internet to rural communities, built senior housing and helped the area to become an agricultural and food innovation hub for the region. With the understanding that employment is central to any successful community, Cecilia helped bring a PG&E training facility to Winters that provided hundreds of jobs for local residents.

After earning a degree in business administration from San Jose State University, the Assemblymember launched a consulting firm that specialized in public outreach with government agencies.



## **Michael Boccadoro, President, West Coast Advisors**

Michael Boccadoro, executive director of Dairy Cares and president of West Coast Advisors, has worked for more than 30 years in the public affairs arena. As president of West Coast Advisors, Boccadoro is responsible for overseeing the firm's public affairs and government relations practices. Boccadoro also serves as executive director of the Agricultural Energy Consumers Association.

Boccadoro also specializes in public affairs consulting and media relations. Boccadoro has distinctive expertise in the areas of environmental regulation and sustainability, developing positive working relationships with key regulatory officials, staff, and media representatives involved in these arenas.

Boccadoro received his Bachelor of Arts degree in economics and political science from the University of California, Davis.



## **Jack Brouwer, Director, National Fuel Cell Research Center**

Through Dr. Jack Brouwer's leadership, the National Fuel Cell Research Center (NFCRC) and the Advanced Power and Energy Program are focusing research, education, beta testing, and outreach on high-efficiency, environmentally preferred energy conversion and power generation technology advancement with fuel cell and gas turbine systems as the principal targets.

Current research projects address ultra-high efficiency and ultra-low emissions high temperature fuel cell systems, integrated hybrid fuel cell gas turbine systems, renewable power intermittency and integration, battery electric and plug-in hybrid electric vehicle evaluation and infrastructure development, advanced fuel cell and gas turbine dynamic operations, hydrogen and electricity infrastructure development, and power electronics and energy conversion devices for the smart grid.

Prior to joining UCI, Dr. Brouwer was on the faculty at the University of Utah, a senior engineer at Reaction Engineering International, and a staff scientist at Sandia National Laboratories.



## **Tim Carmichael, State Agency Relations Manager, Sempra Energy Utilities**

Tim Carmichael is the state agency relations manager for SDG&E and SoCalGas, Sempra Energy's two California regulated utilities. Carmichael is the primary liaison to the California Air Resources Board and the California Energy Commission. He also covers legislation related to climate change, renewable fuels, and clean vehicle incentives.

Prior to joining Sempra, Carmichael served as president of the California Natural Gas Vehicle Coalition, a membership-based trade association supporting the natural gas vehicle industry. Before that Carmichael served as executive director of the Coalition for Clean Air, a California environmental non-profit advocacy organization focused on improving air quality.

Carmichael serves on the Boards of the Bioenergy Association of California, Comstock's Business Magazine, and the Sacramento Waldorf School. Carmichael is a graduate of the University of California, Los Angeles with a degree in economics and history.



## **Harrison Clay, VP Strategic Development, Global Environmental Products, BP**

Harrison Clay works within BP's Global Environmental Products Group with a particular focus on BP's efforts to produce and sell renewable natural gas (or biomethane) that is derived from the anaerobic decomposition of organic waste. BP's joint-venture with Aria Energy owns three operational biomethane production plants located outside of Detroit, Memphis and Oklahoma City. The joint-venture has three additional biomethane production facilities under development. BP is the one of the largest biomethane suppliers and marketers in North America.

Harrison served as the President of Clean Energy Renewable Fuels, the largest RNG vehicle fuel seller in North America, until the acquisition of a majority of Clean Energy Renewable Fuels assets by BP in March of 2017.

# SPEAKER BIOGRAPHIES



**Bill Edmonds**, Director, Environmental Policy & Sustainability, NW Natural

MBill is the Director of Environmental Management & Sustainability at NW Natural, the local distribution company headquartered in Portland, Oregon. In his current position, he oversees a team that manages customer programs that touch the environment and assists a network of employees driving the company towards increasingly sustainable practices. He's recently taken on the challenge of helping the company add renewable natural gas to the gas system from sources like waste water treatment plants, food waste and dairy farms.

Prior to joining NW Natural, Bill held a similar position at an electric utility and prior to that worked at the California Public Utilities Commission. Bill has served on Boards including Earth Advantage, The Climate Trust and the Oregon Environmental Council and he currently serves on the boards of PEI and the Community Cycling Center.

Bill has a BA from Williams College and a Master's in Public Policy from UC Berkeley.



**Cliff Gladstein**, President, Gladstein Neandross & Associates

Mr. Cliff Gladstein is the founder and president of Gladstein, Neandross & Associates (GNA). For over twenty-two years, he has been local, state, and national leader in the effort to develop cost-effective policies, programs, and products to reduce pollution from transportation, relieve the nation's dependence on petroleum, and create innovative public-private partnerships to pursue market-based solutions for environmental problems.

Gladstein is the founder of the Interstate Clean Transportation Corridor (ICTC), the nation's first and most successful public-private partnership to accelerate the commercialization of clean alternative fuel vehicles in the interstate movement of goods. He has used his knowledge and experience to develop and implement clean transportation and power generation technology deployment programs and incentive programs.

Mr. Gladstein is on the board of the Bioenergy Association of California, Chairs the Education Fund of the California League of Conservation Voters, and teaches air quality policy at the UCLA Institute of Environment and Sustainability. He has been an advisor to the University of Southern California's Sustainable Cities Program and Duke University's Nicholas Institute for Environmental Policy Solutions. He is a graduate of Duke University and holds three graduate degrees from the University of Texas, Austin, and the University of California, Los Angeles.



**Dan Lefevers**, Director of State and Consumer Programs, Gas Technology Institute

Dan is currently GTI's Director of State and Consumer Programs and was previously the Vice President of Federal Public Affairs for Waste Management and Director of Washington Operations for GTI. Dan has over 20 years' experience with energy policy and projects including extensive collaboration with scientists and engineers to develop, deploy and demonstrate new energy technologies. Dan has been engaged with a variety of renewable energy and RNG projects at GTI and recently led the development of a site-specific engineering design for an RNG production facility fueled by California wood wastes.

Dan has a BA in speech communications and a Master's Degree in organizational leadership.



**Julia Levin**, Executive Director, Bioenergy Association of California

The Bioenergy Association of California's executive director is Julia Levin, who served until recently as the deputy secretary for climate change and energy at the California Resources Agency. In that position, she chaired the Governor's Inter-Agency Bioenergy Working Group and led development of California's 2012 Bioenergy Action Plan.

Levin has also served as a Commissioner on the California Energy Commission, where she was the presiding commissioner on renewable energy and the associate commissioner on energy efficiency. She presided over the adoption of RPS eligibility rules, power plant siting cases and other issues. Previously, she was the global warming director of the National Audubon Society, where she coordinated its policy advocacy and public education on global warming and energy issues.

Ms. Levin received a law degree from the University of California, Hastings College of Law in 1991 and a B.A. in international relations from Brown University in 1985.



**Xuping Li**, Senior Analyst Energy Systems and Technologies (Power-to-Gas), Hitachi Zosen Inova ETOGAS GmbH

Xuping Li is the senior analyst for energy systems and technologies at Hitachi Zosen Inova ETOGAS GmbH. Li has over 14 years of experience in process modeling of energy technologies, and system modeling and scenario analysis of energy and related infrastructure systems, climate issues and policies, and energy and environmental economics. She is currently responsible for project technical and economic assessment, business case analysis and project development in North America.

Li holds a Ph.D. in civil and environmental engineering, and a Masters of Science in agricultural resources economics, both from the University of California, Davis.



**Nick Mark**, Manager, Conservation & Renewable Energy Policy, CenterPoint Energy

Nick Mark is the Manager for Conservation and Renewable Energy Policy at CenterPoint Energy, Minnesota's largest natural gas utility. Mark has regulatory responsibility for the company's Conservation Improvement Program, one of the foremost natural gas energy efficiency programs in the country. His activities include setting strategic and policy priorities for the program, ensuring the program complies with all state requirements and leading the development and submission of program plans and annual status reports.

Mark also represents CenterPoint on policy matters related to conservation and renewable energy in Minnesota. Mark holds a Master's in public policy from the Humphrey Institute of Public Affairs at the University of Minnesota and a Bachelor's from Carleton College.

# SPEAKER BIOGRAPHIES



**Ryan McCarthy**, Science and Technology Policy Advisor, California Air Resources Board

Ryan is the Science and Technology Policy Advisor to the Chair at the California Air Resources Board (CARB), a position he was appointed to by Governor Jerry Brown in 2011. He is a leader in shaping California's efforts to achieve carbon neutrality by further reducing greenhouse gas emissions, accelerating transitions to zero emission vehicles, slashing emissions of methane and other short-lived climate pollutants, and demonstrating and scaling carbon dioxide removal strategies. Ryan received his master's and doctorate degrees in civil and environmental engineering from UC Davis and bachelor's degree in structural engineering from UC San Diego.



**George Minter**, Regional Vice President, External Affairs and Environmental Strategy, Southern California Gas Company

George Minter is regional vice president for external affairs and environmental strategy for SoCalGas, the nation's largest gas utility. Minter is responsible for public affairs, community relations, communications, public policy, and energy and environmental affairs functions.

Minter is a long-time public policy professional specializing in energy and environmental matters, policy development, communications, and political advocacy. Minter has served as a board member of numerous civic associations and community organizations, including the Central City Association, Valley Industry and Commerce Association, L.A. Family Housing Corp. (as board chair), Coro Foundation, Pat Brown Institute of Public Affairs at Cal State LA, Center for the Study of LA at Loyola Marymount University, Campaign to Clear the Air, and the California League of Conservation Voters.

Minter currently serves as co-chair of the Energy, Water & Environmental Sustainability Council of the Los Angeles Area Chamber of Commerce; is a member of the Land Use (GLUE) Council for So Cal Association of Governments (SCAG); and is a member of the Advisory Boards of the California Alternative Fuel Vehicle Coalition of the Los Angeles Economic Development Corporation (LAEDC), and of Water Education for Latino Leaders (WELL). Minter is a Phi Beta Kappa and Honors graduate of the University of California at Berkeley.



**Mittal Monani**, Senior Trader for North American Emissions, Direct Energy

Mittal Monani is Senior Trader for North American Emissions with Direct Energy based in Calgary AB. Direct Energy is a leading North American energy retailer supplying electricity and natural gas to over 5 million residential, and 250,000 business customers including over 70% of the Fortune 100.

Mittal is responsible for trading and origination in RNG, RIN, LCFS, Carbon Cap-and-Trade and REC markets in the US and Canada. Previously, Mittal ran the US Carbon portfolio for Capital Power (TSE:CPX) where he grew the business to become a leader in the California and North-Eastern US (RGGI) carbon markets. Mittal started his career in the energy industry at BP Canada and acquired extensive trading and analytical background working in coal, natural gas, and carbon markets at leading energy merchants over the years.



**Ken Nelson**, President, Blue Delta

Ken Nelson brings a uniquely broad perspective to the diverse state and federal environmental markets. Nelson's career has followed the deregulation of the North American energy markets, and over the past three decades he has traded natural gas, power, biofuels and environmental commodities including RECs, Carbon Allowances and Offsets, and RINs. With regards to RNG, while with Element Markets he led the team that developed a Quality Assurance Program (QAP) under the EPA's RFS2 as well as what became the RNG pathway, initiated legislation in Connecticut (2012) and presented before both the American Biogas Council and the Coalition for Renewable Natural Gas on renewable thermal initiatives. Blue Delta Energy, the company he cofounded as a spin out from Element Markets, provides clients with both environmental policy and market support and currently represents a number of wastewater and landfill gas facilities across the US.

Nelson currently serves on the Board of Directors for both MRETS and the Environmental Markets Association, and earned a Bachelor of Science in computer science and engineering from the University of Illinois at Urbana and a Master's in Business Administration in finance and business from the University of Houston.



**Tanya Peacock**, Manager, Public Policy and Planning, SoCal Gas

Tanya Peacock has extensive experience in energy and environmental policy development and implementation. In her current role managing the Public Policy and Planning team for Southern California Gas Company, Peacock is responsible for federal, state, and local legislative analysis, local and regional planning, development of outreach and communications strategies, and climate and renewable gas policy development.

In previous roles at SoCalGas, Peacock has managed policy development and implementation of California's carbon market (Cap and Trade), led the rate design group, managed participation in interstate pipeline rate cases at the Federal Energy Regulatory Commission, and developed energy efficiency programs.

Peacock is on the Board of the Los Angeles League of Conservation Voters, the California Hydrogen Business Council and MoveLA. Peacock is a member of the Stakeholder Advisory Committee for the LA regional chapter of the State's Assessment of Climate Change Impacts. Peacock holds a Bachelor of Arts in english literature from Mills College and a Master's degree in urban and regional planning from Cornell University.

Bachelor of Arts in english literature from Mills College and a Master's degree in urban and regional planning from Cornell University.

# SPEAKER BIOGRAPHIES



**Jena Price**, Partner, TrattenPrice Consulting

Jena Price is a principle at TrattenPrice Consulting, a firm focused on representing environmental, consumer protection and social justice focused clientele. Prior to opening up a firm with her partner, Jena Price served as the California League of Conservation Voters Legislative Affairs Manager where she advocated for a broad suite of environmental and environmental justice issues. Prior to coming on board at CLCV, Jena was the Legislative Director at California's longest running environmental non-profit, the Planning and Conservation League. During her time there, she worked closely with the Executive Director and members of the legislature to protect one of California's keystone environmental laws, CEQA (California Environmental Quality Act) as well as working on legislation pertaining to water, land use, and environmental health.

Before moving back to Sacramento, Jena worked with ICLEI- Local Governments for Sustainability, based in Oakland, helping local governments achieve their sustainability goals to reach the 2020 reduction targets mandated under the Global Warming Solutions Act of 2006 (AB 32).

Jena attended San Francisco State University, receiving a degree in Political Science and a minor in Environmental Studies with an emphasis in California Environmental Policy.



**Aaron Ratner**, Managing Director, Ultra Capital

Aaron Ratner has over 20 years of international investment, advisory and development experience focusing on technology, energy, waste and agriculture. Ratner received his MsM at Stanford University and his Bachelor of Arts at the University of Pennsylvania. .



**Clifford Rechtschaffen**, Commissioner, California Public Utilities Commission

Clifford Rechtschaffen was appointed to the California Public Utilities Commission by Governor Jerry Brown in January 2017. At the CPUC his key areas of interest include decarbonization, safety, environmental justice, and enforcement. Commissioner Rechtschaffen is the assigned Commissioner on several safety and emergency response proceedings, the Renewables Portfolio Standard (RPS) proceeding, several proceedings involving biomethane, and the Energy Savings Assistance program that provides efficiency programs for low income consumers.

Commissioner Rechtschaffen also has been spearheading several internal agency initiatives, including the development of an Environmental and Social Justice Action Plan with Commissioner Guzman Aceves; the development of a more uniform and formal CPUC enforcement policy with President Picker, and with Commissioner Randolph on the Policy and Governance Committee, an effort to make CPUC proceedings more accessible to the public.

Commissioner Rechtschaffen serves as the CPUC representative on the Low Income Oversight Board and one of two Commissioners on the Senate Bill 350 Disadvantaged Communities Advisory Group. Commissioner Rechtschaffen is a graduate of Yale Law School and Princeton University.



**Jeffrey Reed**, Advanced Power and Energy Program Chief Scientist, Renewable Fuels and Energy Storage, UCI

Jeffrey Reed is the Chief Scientist – Renewable Fuels and Energy Storage for the Advanced Power and Energy Program at the University of California, Irvine. In this role, Dr. Reed is focused on advancing the deployment of renewable gaseous fuels and related storage technologies that support the integration of high quantities of renewables on the electric grid, reduce toxic emissions and reduce greenhouse emissions in the energy and transportation sectors.

Jeffrey is board president for the California Hydrogen Business Council and has served on the boards of numerous clean technology organizations. Prior to joining UCI, Jeff was the Director of Business Strategy and Advanced Technology for Southern California Gas Company. In earlier roles, Dr. Reed was a senior strategy consultant, Vice President of Marketing and Business Development with ABB Power Generation and held various positions in product design, development and research in the defense industry. He holds a doctorate in engineering from UC Berkeley and a master's degree in management from Stanford University.



**Michael Silva**, Project Manager & Civil Engineer, CR&R

Michael Silva is a project manager and civil engineer for CR&R. Silva has more than thirty years of senior-level solid waste management experience with responsibility for increasing revenues, efficiencies, and profits while maximizing customer service, safety, and employee morale. Silva's expertise is in technology development and construction management. Silva's team developed the three-cart fully automated collection system for the City of Temecula, which has since become the "gold standard."

Silva also helped design and construct the first solid waste processing facility in the country in 1992, and has since built several transfer stations and material recovery facilities. Currently in charge of CR&R's anaerobic digestion projects, he is overseeing the building of the largest anaerobic digestion plant in the country, which will handle some 335,000 tons per year and generate in excess of 4 million gallons of renewable carbon-negative fuel.

Silva earned Bachelor of Science degrees (cum laude) in both civil engineering and engineering management from the University of the Pacific, and earned a Master of Science in civil engineering (construction management / geotechnical) from Stanford University.

# SPEAKER BIOGRAPHIES



**Nancy Skinner**, Senate District 9

A social justice advocate and sustainability trailblazer, State Senator Nancy Skinner coauthored last year's SB 100 to get California to 100% renewable electricity by 2045. In the State Assembly and Senate she's also authored bills to accelerate the uptake of electric & zero-emission vehicles, expand solar net metering, mandate energy storage so renewable electricity can be deployed when needed, and increase the energy efficiency of buildings built pre-Title 24. In 1990,

Skinner co-founded ICLEI-Local Governments for Sustainability and directed ICLEI's Cities for Climate Protection program, the first effort to engage local governments in climate awareness and carbon reduction efforts.



**Mary Solecki**, Partner, AJW

Mary Solecki leads AJW's California office, and represents client interests across the West Coast. Solecki's client portfolio is focused on transportation and climate regulations, but also encompasses legislative engagement and strategic planning. Solecki has spent the last decade successfully leading major campaign efforts to establish carbon programs and refine regulatory measures through strategic business engagement.

Prior to joining AJW, Solecki spent eight years with Environmental Entrepreneurs (E2), a partner of Natural Resources Defense Council. There Solecki ran E2's presence in California, Oregon and Washington. Solecki has worked in-depth on the Low Carbon Fuel Standard and carbon programs in both California and Oregon. Solecki has been consulting on energy policy since 2008, and has a background in sales and communications. Solecki received her Bachelor of Science in business from Indiana University and a Master's in business administration from Presidio Graduate School in San Francisco.



**Rachael Terada**, Director, Technical Projects, Center for Resource Solutions

Rachael Terada is the director of technical projects for the Center for Resource Solutions (CRS), a nonprofit organization that promotes policy and market solutions to advance sustainable energy. Terada leads technical projects and initiatives for the organization and oversees operations for the Green-e Energy certification and consumer protection program, which certifies the majority of the voluntary market for retail renewable electricity and renewable energy certificate (REC) sales in the United States.

Terada began as a consultant with CRS in 2006, and joined CRS as a project manager in 2008. Prior to CRS, she worked in planning, engineering design, and construction management for government projects. Terada earned her Master of Science and Bachelor of Science degrees in civil and environmental engineering from the University of California, Berkeley.



**Floyd Vergara**, Chief of Industrial Strategies Division, California Air Resources Board

Floyd Vergara is chief of the industrial strategies division at the California Air Resources Board (ARB). Vergara oversees several of ARB's key climate change and air quality regulatory programs, including Cap-and-Trade, the Low Carbon Fuel Standard, conventional fuels regulations, energy sector programs, and oil and gas production measures.

Vergara has been at ARB for over 27 years developing regulations on transportation fuels, advanced clean cars, oceangoing vessels, and other mobile or stationary sources. Vergara received his Bachelor of Science in chemical engineering from U.C. Berkeley, his Juris Doctor from the University of the Pacific, McGeorge School of Law, and is licensed to practice in California as a professional engineer and lawyer.



**Sam Wade**, Director of Regulatory Affairs, Coalition of Renewable Natural Gas

Sam Wade serves as the Director of Regulatory Affairs at the Coalition of Renewable Natural Gas. Previously, Wade was the Chief of the Transportation Fuels Branch at the Air Resources Board where he oversaw rule development and implementation of the Low Carbon Fuel Standard. His private sector experience includes work in energy policy at a major Californian utility and time with a bioenergy start-up. Wade holds a Bachelor of Science in mechanical engineering from U.C. Davis, a Master of Science in mechanical engineering from the University of Hawaii, and a Master's of Public Administration in environmental science and policy from Columbia University.



**William Zobel**, Vice President, Business Development & Marketing, Trillium

William (Bill) Zobel is vice president of business development and marketing for Trillium. Trillium designs, builds, owns and operates a network of alternative refueling stations across the US serving the CNG/RNG, EV and the Hydrogen vehicle markets. Zobel has nearly 30 years of experience in the energy sector covering a wide range of issues and responsibilities.

Before Trillium joined the Love's family of companies in 2016, Zobel managed market development and strategy for Trillium as part of the Wisconsin Energy Corporation (WEC) and the Integrys Energy Group. Zobel currently serves on the Board of Directors for the California Natural Gas Vehicle Coalition (CNGVC), and the California Natural Gas Vehicle Partnership.

Previously, Zobel served as Vice Chairman of the Board of Directors for CalStart, and has served on the Board of Directors for Natural Gas Vehicles America (NGVA), the Electric Drive Transportation Association (EDTA), the California Electric Transportation Coalition (CalETC), the California Manufacturers and Technology Association (CMTA), the Conservation Corps of Long Beach, and the Moonlight Cultural Foundation.

Zobel is a graduate of Columbia University's executive business program and holds a Bachelor of Science degree in chemical engineering from California State University Long Beach.

# PARTNERS & SPONSORS



## American Gas Association

The American Gas Association, founded in 1918, represents more than 200 local energy companies that deliver clean natural gas throughout the United States. There are more than 74 million residential, commercial and industrial natural gas customers in the U.S., of which 95 percent — more than 71 million customers — receive their gas from AGA members. AGA is an advocate for natural gas utility companies and their customers and provides a broad range of programs and services for member natural gas pipelines, marketers, gatherers, international natural gas companies and industry associates. Today, natural gas meets more than one-fourth of the United States' energy needs.

[www.aga.org](http://www.aga.org)



## Anaergia

Anaergia is a global leader in the production of clean energy, fertilizer, and recycled water from virtually any waste stream, offering the widest range of maximizing resource recovery solutions for the municipal, industrial, commercial, and agricultural markets. Anaergia's integrated solutions create value for its customers in the forms of renewable energy, quality fertilizers, and clean water, while dramatically reducing the cost of waste management. Anaergia delivers integrated solutions globally through established offices in North America, Europe, Africa, and Asia and its breakthrough technologies are in use at over a thousand resource recovery facilities worldwide, reducing greenhouse gas emissions while creating new revenue sources for its clients.

[www.anaergia.com](http://www.anaergia.com)



## Bay Area Air Quality Management District

Since 1955, the Bay Area Air Quality Management District has been the public agency responsible for protecting air quality 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. Air District programs monitor air emissions sources, promote climate protection, provide clean air grants, draft rules and regulate stationary air pollution sources. The Air District's mission is to protect and improve public health, air quality and the global climate. The Air District encourages the public to reduce their polluting behavior through the Spare the Air program.

[www.baaqmd.gov](http://www.baaqmd.gov)



## Bioenergy Association of California

The Bioenergy Association of California (BAC) represents more than 70 private companies, public agencies, local governments, utilities and others working to convert organic waste to renewable energy, low carbon fuels, pipeline biogas and renewable hydrogen. BAC members are building bioenergy projects in every region of the state, helping to reduce climate and air pollution, protect public health and safety, create jobs, and meet the state's clean energy and climate change goals.

[www.bioenergyca.org](http://www.bioenergyca.org)



## BP

BP's global energy marketing and trading business connects BP to the world's traded markets as the customer-facing business of a global, integrated oil and gas company that spans the energy value chain. We offer customers a unique combination of expertise in physical supply and trading, innovative financial structures, world-class analytics, diverse product offerings and geographic depth, with the ability to utilize these combinations to provide creative solutions that deliver long-term value. BP is one of the leading marketing and trading companies in North America with an activity set spanning natural gas, natural gas liquids, biogas, chemicals, power and structured products. BP is one of the largest suppliers of renewable natural gas (RNG) to the U.S. transportation sector, is actively involved in developing offset projects in a variety of sectors, and participates in most voluntary and regulatory carbon and renewable fuels markets including EPA RFS, California LCFS and California Cap and Trade.

[www.bp.com](http://www.bp.com)



## California Air Resources Board

The California Air Resources Board (CARB) is charged with protecting the public from the harmful effects of air pollution and developing programs and actions to fight climate change. From requirements for clean cars and fuels to adopting innovative solutions to reduce greenhouse gas emissions, California has pioneered a range of effective approaches that have set the standard for effective air and climate programs for the nation, and the world.

[ww2.arb.ca.gov](http://ww2.arb.ca.gov)



## California Association of Sanitation Agencies

The California Association of Sanitation Agencies is the trusted voice for public wastewater agencies on regulatory, legislative and legal issues. CASA works alongside its public member agencies to influence the decisions affecting public health and the environment through effective wastewater treatment and sustainable practices like water recycling, biosolids management, and renewable energy production. CASA promotes public and private partnerships on clean water and beneficial reuse issues to protect public health and the environment.

[www.casaweb.org](http://www.casaweb.org)

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## California Natural Gas Vehicle Coalition

The California NGV Coalition is an association of natural gas vehicle and engine manufacturers, utilities, fuel providers and fleet operators serving the state. We support new initiatives, provide up-to-date information on NGV technology and market developments, and work with legislators and regulators to develop policies that will increase alternative fuel and vehicle use.

[www.cngvc.org](http://www.cngvc.org)



## California Natural Gas Vehicle Partnership

The California Natural Gas Vehicle Partnership (CNGVP) is an alliance of air quality, transportation and energy agencies, vehicle and engine manufacturers, fuel providers, transit and refuse hauler associations, and other stakeholders interested in increasing and strengthening the deployment of low-emission natural gas vehicles throughout California. Through the CNGVP's efforts in California, the organization has helped to deliver the promise of clean transportation by promoting the research and development, demonstration and deployment, accessibility and commercializing, and legislative support for natural gas vehicles.

[www.cngvp.org](http://www.cngvp.org)



## Climate Registry

The Climate Registry (TCR) is a non-profit organization governed by U.S. states and Canadian provinces and territories. TCR designs and operates voluntary carbon footprint reporting programs globally, and assists organizations in measuring, reporting and verifying the carbon in their operations in order to manage and reduce it. TCR also spearheads innovative new projects such as the Water-Energy Nexus Registry.

[www.theclimateregistry.org](http://www.theclimateregistry.org)



## Climate Resolve

Climate Resolve works to make California more equitable, just, livable, prosperous, and sustainable today and for generations to come by inspiring people at home, at work, and in government to reduce climate pollution and prepare for climate impacts. We focus on local solutions to global climate change which will allow California to adapt and thrive.

[www.climateresolve.org](http://www.climateresolve.org)



## Coalition for Clean Air

The Coalition for Clean Air is California's only statewide nonprofit dedicated exclusively to advocating for healthy air. Our unique collaborative model brings all interested parties together to find cooperative solutions to California's most pressing air quality issues. For more than 40 years, we have made significant improvements to California's air by advocating innovative policy solutions within legislative and regulatory avenues, encouraging the early adoption of new technologies, advising businesses on regulatory compliance and clean air practices, empowering our allies with technical and policy expertise, and educating decision-makers and the public on air pollution solutions. Our current work focuses on clean vehicle deployment, protecting California's climate programs such as LCFS, and developing a sustainable freight system. Join us in Sacramento on February 27 for our annual Toast to Clearing the Air.

[www.ccair.org](http://www.ccair.org)



## Coalition for Renewable Natural Gas

The Coalition for Renewable Natural Gas (RNG Coalition) provides leadership, a public policy platform and an advocacy and education voice for the renewable natural gas industry in North America. The RNG Coalition advocates for increased development, deployment and utilization of renewable natural gas (RNG, biomethane or upgraded biogas) so that present and future generations will have access to this domestic, renewable, clean fuel and energy supply.

The RNG Coalition focuses its advocacy and education in North America, but our membership is international and includes waste collection, waste management and recycling companies, renewable energy developers, engineers, financiers, service and technology providers, manufacturers, gas/power marketers, gas/power transporters, environmental advocates, research organizations, universities, organized labor, law firms, independent consultants, investor owned and municipal utilities. RNG Coalition, members produce 90% of the RNG in North America, 98% of the cellulosic biofuel under the federal RFS, and nearly 100% of the biomethane participating in California's LCFS and RPS programs.

[www.rngcoalition.com](http://www.rngcoalition.com)



## CR&R Incorporated

CR&R Incorporated is a comprehensive environmental services company based in Southern California that provides waste collection, recycling, transfer and disposal, composting and anaerobic digestion services to more than 2.5 million people and 5,000 businesses throughout Orange, Los Angeles, San Bernardino, Imperial, and Riverside counties. CR&R has completed the first of a four phase Anaerobic Digestion Facility (AD) that processes source-separated municipal organic waste into renewable natural gas (RNG) and soil products. This RNG will power many of the waste collection fleets that CR&R operates for its local governments making these fleets the cleanest in the world.

[www.crrwasteservices.com](http://www.crrwasteservices.com)

# PARTNERS & SPONSORS



## Element Markets

Element Markets, LLC is the leading independent marketer of biomethane. We provide full service biomethane management and marketing services, including the generation and monetization of environmental credits. Element Markets' expertise allows clients to take advantage of premium markets while minimizing risk.

[www.elementmarkets.com](http://www.elementmarkets.com)



## Gas Technology Institute

GTI is an independent non-profit research organization that has been developing new technologies and providing training to the energy industry for over 75 years. GTI offers an integrated systems perspective to expand the supply of clean, efficient and affordable energy while ensuring a safe and reliable energy delivery infrastructure. To date, GTI programs have resulted in nearly 500 products, 750 licenses and more than 1,300 associated patents.

[www.gti.energy](http://www.gti.energy)



## Harvest Power

Harvest Energy Holdings, LLC uses environmentally sustainable practices to convert organics – those that have historically been landfilled or otherwise disposed of – into energy and other beneficial products. The design of Harvest's AD facilities allows the acceptance of a wide range of organics, including green and food waste from residential, industrial, commercial and agricultural sources. Partnering with communities, Harvest helps to achieve sustainability in waste utilization, clean energy innovation, and soil revitalization.

[www.harvestpower.com](http://www.harvestpower.com)



## NGV America

NGV America represents more than 200 companies, environmental groups, and government organizations interested in the promotion and use of natural gas and biomethane as transportation fuels. Member companies are those that produce, distribute, and market natural gas and biomethane across the country; manufacture and service natural gas vehicles, engines, and equipment; and operate fleets powered by clean-burning gaseous fuels.

[www.ngvamerica.org](http://www.ngvamerica.org)



## Sacramento Clean Cities Coalition

Sacramento Clean Cities is affiliated with the Department of Energy's Clean Cities Program, a government-industry partnership designed to reduce petroleum consumption in the transportation sector. There are currently almost 100 coalitions nationwide that work with government agencies and private companies to identify mutual interests and meet the objectives of reducing the use of imported oil, developing regional economic opportunities, and improving air quality.

[www.cleancitiessacramento.org](http://www.cleancitiessacramento.org)



## Sacramento Municipal Utility District

As the nation's sixth-largest community-owned electric service provider, SMUD has been providing low-cost, reliable electricity for more than 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. SMUD's power mix is about 50 percent non-carbon emitting.

[www.smud.org](http://www.smud.org)



## San Joaquin Valley Air Pollution Control District

The San Joaquin Valley Air District is a public health agency whose mission is to improve the health and quality of life for all Valley residents through efficient, effective and entrepreneurial air quality management strategies. Our core values ensure that our mission is accomplished through commonsense, feasible measures that are based on sound science. The District's goal is healthful air that meets or exceeds air quality standards for all Valley residents while being a leader in air-pollution control and having valley residents take pride in our collective efforts to continuously improve air quality.

[www.valleyair.org](http://www.valleyair.org)



## South Coast Air Quality Management District

The South Coast Air Quality Management District (SCAQMD) is the regional air pollution control agency for the combined urban areas of Los Angeles, Riverside, and San Bernardino counties and all of Orange county. The SCAQMD works to accelerate deployment of low-emitting vehicles, technologies, and products so that more than 16 million Southern California residents can breathe cleaner air and live healthier lives. SCAQMD's technology advancement program is internationally recognized for its comprehensive portfolio of public-private collaborations to demonstrate and deploy cleaner technologies including battery-electric, plug-in hybrid, fuel cell and ultra-low NOx engines running on renewable natural gas.

[www.aqmd.gov](http://www.aqmd.gov)

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## Southern California Gas Company

SoCalGas® has been delivering clean, safe and reliable natural gas to its customers for more than 150 years. It is the nation's largest natural gas distribution utility, providing service to 21.6 million consumers connected through 5.9 million meters in more than 500 communities. The company's service territory encompasses approximately 20,000 square miles throughout central and Southern California, from Visalia to the Mexican border. SoCalGas is a regulated subsidiary of Sempra Energy (NYSE: SRE), a Fortune 500 energy services holding company based in San Diego.

[www.socalgas.com](http://www.socalgas.com)



## Trillium, a Love's Company

Trillium, member of the Love's Family of Companies, is a leading developer of alternative fueling system design and provides installation and operations for innovative energy solutions. Our fuels include Compressed Natural Gas (CNG), Renewable Natural Gas, Hydrogen, and Electric Vehicle (EV) Charging infrastructure as well as energy solutions from Solar installations to On-Site Generation. Trillium has exceeded Customer expectations by delivering superior quality, reliability and dependability at more than 200 alternative fueling stations nationwide. Trillium specializes in designing, building, and operating these facilities, and provides 24/7 maintenance services for various types of professional fleets. Combined, Love's Travel Stops and Trillium own 65 public-access CNG facilities.

[www.trilliumcng.com](http://www.trilliumcng.com)



## Waste Management

Waste Management is on a mission to maximize resource value, while minimizing - and even eliminating - environmental impact so that both our economy and our environment can thrive.

[www.wm.com](http://www.wm.com)



YOUNG PROFESSIONALS IN ENERGY

## Young Professionals in Energy (YPE)

Young Professionals in Energy (YPE) is a non-profit organization with more than 40,000 members worldwide. By providing a forum for networking and career development through social, educational and civic service opportunities, YPE aims to facilitate the advancement of young professionals in the global energy industry. YPE runs a year-round calendar of events in 40 chapters around the world. In California, YPE has chapters in Los Angeles, Bay Area, Sacramento and recently launched a San Diego chapter.

[www.ypenenergy.org](http://www.ypenenergy.org)

# ABOUT THE ORGANIZER



Rethink Methane is produced by *Gladstein, Neandross & Associates (GNA)*, the leading North American consulting firm specializing in market development for low-emission and alternative fuel vehicle technologies, infrastructure and fuels for both on and off-road applications. GNA provides strategic market analysis and planning, technical assistance, and public affairs and policy support to clients in the private, public and non-profit sectors. For 25 years, GNA has pioneered the nation's largest and most innovative alternative fuel vehicle projects, including the development of several successful clean fuel corridor projects.

In addition to its technical consulting practice, GNA has organized many of the nation's leading clean and advanced technology events that have brought together tens of thousands of attendees. Prior events include: the *Advanced Clean Transportation (ACT) Expo*; the *Faster Freight – Cleaner Air* conference series; the *Low Carbon Fuels* conference series; the *High Horsepower (HHP) Summit*; the *Clean Vehicle Technologies Expo*; the *Low Carbon Fuels Expo*; the *National Biomethane Summit*; the *NGV Fleet Summit*; and more.

[www.gladstein.org](http://www.gladstein.org)