



Rethink

# METHANE

*removing the fossil from the fuel*

**FEBRUARY 6-7, 2018 | SACRAMENTO, CA**

*Sacramento Convention Center*

## SYMPOSIUM PROGRAM 2018



*High* in Benefits, *Low* in Emissions.



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Reduction**



**Sustainable Waste  
Management**



**Vehicle Emission  
Reduction**



**Economic/Job  
Development**



**Wildfire  
Prevention**



**Renewable Energy  
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# South Coast Air Quality Management District

*Cleaning The Air That We Breathe...*



***The blueprint for cleaner air in Southern California includes renewable natural gas as part of a diverse portfolio of less polluting energy resources.***

South Coast AQMD is cosponsoring Rethink Methane Symposium 2018 to explore ways that renewable natural gas (biomethane) can be an important part of the portfolio of cleaner energy resources helping our communities to reduce smog, air toxics and greenhouse gases and promote sustainable economic development.

## SOURCES OF ORGANICS TO PRODUCE RNG



FOOD WASTE

**66.5 MILLION**  
TONS/YEAR



WASTE WATER

**17,000**  
FACILITIES



AGRICULTURAL WASTE

**8,000**  
LARGE FARMS AND DAIRIES



LANDFILL GAS

**1,750**  
LANDFILLS

Renewable natural gas (RNG) is not a fossil fuel; it's a contemporary fuel derived from the natural decomposition of organic waste in 'resource streams,' such as those pictured above. The energy from these waste materials is captured and processed to harvest a sustainable, domestic form of natural gas usable by heavy-duty vehicles as an alternative to diesel fuel, that results in lower GHGs than either conventional diesel or fossil-based natural gas fuels. RNG can also be used to generate electricity or serve as a feedstock for producing hydrogen fuel used in zero emission fuel cell vehicles.

The development and use of RNG as a transportation fuel also helps to solve additional California goals including the 50% Renewable Portfolio Standard, the Low Carbon Fuel Standard, and 75% diversion of organics from landfills.

On behalf of more than 16 million Southern Californians, the South Coast AQMD is working toward a clean energy future where every resident can breathe cleaner air and benefit from a more resilient economic future. To learn more about our technology advancement efforts, visit: <http://www.aqmd.gov/home/technology>.



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# WELCOME

## LETTER FROM THE ORGANIZER

I am very pleased to welcome you to the 4th Annual Rethink Methane Symposium. Since 2015, GNA has organized this educational seminar to provide California policy makers perspectives on how renewable gas can help the state meet its environmental protection, climate mitigation, energy diversity and sustainable development goals.

For four years, with the generous support of our sponsors and in collaboration with nearly a dozen endorsing environmental organizations and trade associations, we have gathered stakeholders from the many corners of the renewable gas industry to talk about how, by harnessing the state's abundant organic resources, taking advantage of our leadership in agricultural innovation, and utilizing existing energy infrastructure and growth in renewable power generation to develop the capacity to store boundless volumes of renewable energy, California can not only meet the carbon reduction goals necessary to meet temperature targets, but can also build a potent and lucrative renewable gas industry that complements the state's natural advantages, creates new opportunity and helps to retain businesses that have served as the foundation of the state's economy for generations.

Even though much has been accomplished over the last few years in the passage of supportive legislation and the development of encouraging regulations, California is still not a favorable place to develop and build renewable gas production projects. As you will hear today, regulatory and incentive uncertainty, inconsistent and contradictory direction from authorities, and myopic and paranoid hostility from influential constituencies have burdened the renewable gas industry with unfortunate and avertible headwinds. Rethink Methane provides a venue where these issues can be freely and openly discussed.

It is our hope that Rethink Methane attendees will avail themselves of the opportunity to listen to the perspectives of our speakers and panelists, network with the representatives of other public agencies that you may not typically encounter, and talk to the many RNG industry reps who also come to our symposium to learn. Further, we hope that you take the information that you gain here today and utilize it to improve and advance what your agency is doing to support the RNG industry and the benefits it can bring to the state of California. Our intent is to demonstrate to Sacramento policy makers what you can do to support the capture, cleanup and beneficial reuse of the extremely valuable and clean energy resource, leading to both the reduction of our state's climate footprint and to the further development of a sustainable California economy.

Thank you for coming and I hope you enjoy Rethink Methane 2018.



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



# 2018 SYMPOSIUM AGENDA

## TUESDAY, FEBRUARY 6, 2018

8:00 am – 8:30 am Sponsored by 	<b>Continental Breakfast</b> <i>Grab a coffee, checkout our exhibitors and learn more about RNG!</i>
8:30 am – 8:45 am	<b>Symposium Welcome</b> • <b>Cliff Gladstein</b> , President, Gladstein, Neandross & Associates
8:45 am – 9:15 am	<b>Challenges to Renewable Hydrogen – Sacramento: Time for Deeds, Not Words</b> • <b>Jack Brouwer</b> , Associate Director, National Fuel Cell Research Center/ Professor, UC Irvine
9:15 am – 10:25 am	<b>Panel 1 – Is it Time for a Renewable Gas Portfolio Standard?</b> Moderator: <b>Dwight Robinson</b> , Board Member, South Coast Air Quality Management District • <b>Kip Lipper</b> , Chief Policy Advisor on Energy and Environment, Office of Senate President Pro Tempore Kevin de Leon • <b>George Minter</b> , Regional Vice President, External Affairs and Environmental Strategy, Southern California Gas Company • <b>Ryan McCarthy</b> , Science and Technology Policy Advisor, California Air Resources Board
10:25 am – 10:35 am	<b>Break – Recharge with a brief coffee and networking opportunity.</b>
10:35 am – 11:05 am	<b>Mid-Morning Keynote</b> Introduction: <b>Dwight Robinson</b> , Board Member, South Coast Air Quality Management District • <b>Assemblywoman Autumn Burke</b> , Assembly District 62
11:05 am – 12:10 pm	<b>Panel 2 – Focus on Dairies: Status of SB 1383 Implementation and Next Steps</b> Moderator: <b>Dave Lewis</b> , Director, Wholesale Marketing and Business Development, Pacific Gas & Electric Company • <b>Floyd Vegara</b> , Division Chief, Industrial Strategies Division, California Air Resources Board • <b>Michael Boccadoro</b> , President, West Coast Advisors • <b>Ross Buckenham</b> , Chairman/Chief Executive Officer, California Bioenergy
12:10 pm – 1:30 pm Sponsored by 	<b>Networking Luncheon:</b> Welcome: <b>William Zobel</b> , Vice President: Business Development, Marketing & Customer Care, Trillium CNG <i>Stop by our exhibitors and learn more about RNG!</i>
1:30 pm – 1:55 pm	<b>Afternoon Keynote</b> Introduction: <b>Sahar Kamali</b> , Director, Business Development, Clean Energy Renewables • <b>Assemblymember Cecilia Aguiar-Curry</b> , Assembly District 4
1:55 pm – 2:55 pm	<b>Panel 3 – Encouraging Private Investment in RNG: What the State Can Do</b> Moderator: <b>Grant Zimmerman</b> , Chief Executive Officer, ampCNG • <b>Mittal Monani</b> , Senior Trader – Emissions, Direct Energy • <b>Greg Stangl</b> , Chief Executive Officer, Phoenix Energy • <b>Ben Vitale</b> , Partner, Equilibrium
2:55 pm – 3:05 pm	<b>Break – Recharge with a brief coffee and networking opportunity.</b>
3:05 pm – 3:30 pm	<b>RNG Solutions for Forest Management</b> • <b>Greg Stangl</b> , Chief Executive Officer, Phoenix Energy
3:30 pm – 4:30 pm	<b>Panel 4 – Environmental Stakeholders' Perspectives on RNG</b> Moderator: <b>Jena Price</b> , Legislative Affairs Manager, California League of Conservation Voters • <b>Jonathan Parfrey</b> , Executive Director, Climate Resolve • <b>Kevin Hamilton</b> , Chief Executive Officer, Central California Asthma Collaborative • <b>Matt Vespa</b> , Staff Attorney, Earthjustice
4:30 pm – 4:45 pm	<b>Introduction of Richard Corey</b> • <b>Christine Cowser Chapman</b> , Senior Director of Asset Management and System Operations, Pacific Gas & Electric Company
4:45 pm – 5:15 pm	<b>Perspectives on RNG From the ARB: Where We Go From Here</b> • <b>Richard Corey</b> , Executive Officer, California Air Resources Board
5:15 pm – 7:00 pm Sponsored by 	<b>Networking Reception</b> <i>Stop by our exhibitors and learn more about RNG!</i>

## WEDNESDAY, FEBRUARY 7, 2018

9:15 am – 12:00 pm	<b>Off-Site Tour: Van Warmerdam Dairy Digester Project</b>
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Photo courtesy of Iberdrola Renewables



# Creating a sustainable future to better serve our customers

At PG&E, our sustainability commitment is an integral part of our business. We look forward to working with our stakeholders to identify actions we can take to do even more.

Based in San Francisco, with more than 22,000 employees, PG&E delivers some of the nation's cleanest energy to nearly 16 million people in Northern and Central California.

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Together, Building  
a Better California

# SPEAKER BIOGRAPHIES



## **Assemblymember Cecilia Aguiar-Curry**, District 4, California State Senate

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.

Cecilia grew up in western Yolo County and has long served her community. After going to school and working in the Bay Area for several years, she moved back to her hometown of Winters where she almost immediately became active in the local community and a regional leader on several issues. She first served as planning commissioner and then was elected to the city council eventually serving as the first female mayor of Winters.

Cecilia was also involved in efforts to create the Berryessa Snow Mountain National Monument in the inner California Coast Ranges that was proclaimed by President Obama in 2015.



## **Michael Boccadoro**, District 56, California State Senate

Michael Boccadoro is president of West Coast Advisors, a Sacramento-based government affairs consulting firm whose clients include California's dairy industry.



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

Through Dr. Brouwer's leadership, NFCRC and APEP 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.



## **N. Ross Buckenham**, Chairman/Chief Executive Officer, California Bioenergy, LLC

Ross Buckenham is a 25-year general management veteran and builder of technology ventures both public and private. His experience spans the renewable energy technologies of biogas, wind and solar. He has also built and run software and wireless technology companies being a board member, chief executive officer or general manager in companies such as WebLink Wireless, Retek, CellStar and Advanced Oxygen. He was previously a consultant with Bain & Company.

Mr. Buckenham is passionate both in his pursuit of California Bioenergy's mission to become a large California focused renewable energy and clean tech company leveraging agricultural waste streams and also in developing "Level 5" leadership, operational excellence and exceptional customer service in himself and his management team. He has been an active member in the Bioenergy Association of California since its founding.

Mr. Buckenham has an MBA from Harvard Business School and a Bachelor's Degree in chemical engineering from Canterbury University, New Zealand.



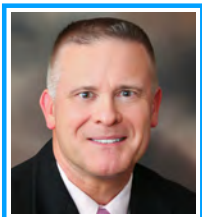
## **Assemblywoman Autumn R. Burke**, District 62, California State Senate

Assemblywoman Autumn Burke has made expanding health care access and economic opportunity to her constituents the centerpiece of her legislative career. During her first term in the Assembly, she became widely recognized as a champion for reproductive rights, environmental justice, and health care. She authored bills establishing Transformative Climate Communities to help disadvantaged neighborhoods heavily impacted by pollution, expand access to quality maternal health care, and create greater accountability and transparency across all levels of government.

In conjunction with her strong focus on children's needs and health care access, Asm. Burke continues her leadership role on protection of our state's environment while ensuring a just transition for affected workers and continued economic growth for California. She led the bipartisan working group of legislators which drafted AB 398, the landmark climate change legislation which strengthens California's 'Cap and Trade' program to continue reducing greenhouse gas emissions that significantly contribute to global warming and climate change. Furthermore, Asm. Burke authored legislation, signed into law, to significantly expand electric vehicle charging station network by supporting the installation of new car charging locations at public schools, state parks and beaches.



# SPEAKER BIOGRAPHIES



**Richard Corey**, Executive Officer, California Air Resources Board Sacramento, California

Richard Corey has over 30 years of professional experience in the air pollution field. Prior to his appointment as Executive Officer, he served as Deputy Executive Officer and Chief of the Stationary Source Division.

Corey's team of over 1,400 professional managers and staff are responsible for a broad range of programs including those concerning fuels, climate, incentives, and air toxics. Some of the key programs that his team is responsible for implementing include the low-carbon fuel standard, cap-and-trade regulation, measures and incentives to reduce emissions from a variety of goods movement sources, including port trucking, transport refrigeration units, cargo handling operations, maritime operations, rail-related goods movement, and measures to reduce emissions from stationary and portable diesel engines units, cargo handling operations, maritime operations, rail-related goods movement, and measures to reduce emissions from stationary and portable diesel engines, as well as several strategies to reduce toxic air contaminants from a wide variety of sources. In addition, Corey oversees the Board's administrative services and information technology operations.

Corey has an undergraduate degree in Environmental Toxicology as well as an MBA from the University of California, Davis.



**Christine Cowser Chapman**, Senior Director, Asset Management and System Operations, Pacific Gas and Electric Company

Christine Cowser Chapman is the Senior Director of Asset Management and System Operations at Pacific Gas and Electric Company (PG&E). Christine has been with PG&E for sixteen years serving in various natural gas engineering and human resources functions. In her current role, Christine provides strategic and operational leadership to the team that manages risk to PG&E's gas assets, system, and business in real time and long term through asset management, integrity management, gas control, gas system planning, compliance, and innovation. This includes the 24-7 operations of PG&E's Gas Operations Center, as well as managing the PG&E's California Gas Transmission business.

Christine has a bachelor's degree in mechanical engineering and a master's degree in business administration from the University of California, Berkeley and is a Registered Professional Engineer in the state of California.



**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.

Mr. 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.



**Kevin Hamilton**, Chief Executive Officer, Central California Asthma Collaborative

Kevin is focused on reducing the burden of chronic respiratory disease and environmental health impacts valley-wide. He has served as developer, coordinator, administrator and director for multiple programs in both hospital and community based settings serving poor and under served communities in the San Joaquin Valley.

Kevin serves on numerous boards and committees associated with grassroots community capacity building and local, state and regional policy development. His education includes an AS in Respiratory Care, BS in Geology, extended course work in social work, mathematics, business and management training. He has worked extensively on different aspects of health care access and redesign around primary care, disease management, childhood and adult immunizations and behavioral health for over 35-years and is a well-known advocate for social and environmental justice.



**Sahar Kamali**, Director of Business Development, Clean Energy Renewables

Sahar Kamali is the Director of Business Development for Clean Energy Renewables. Ms. Kamali focuses on procurement of renewable natural gas as a sustainable fueling solution for transit, municipal and fleet customers, as well as the generation and sale of LCFS credits and RINs that are created as a result of renewable natural gas fuel sales. Ms. Kamali works with RNG producers in the evaluation, development and procurement of renewable natural gas production projects that expand Clean Energy's branded RNG vehicle fuel, Redeem.

Ms. Kamali assists fleet operators in developing the tools and resources to effectively evaluate the GHG emissions impact of their operations as well as the economic impact of adopting renewable natural gas in their fleets. In 2016, Clean Energy sold 60 million gasoline gallon equivalents (GGEs) of Redeem.

# SPEAKER BIOGRAPHIES



**David Lewis**, Director, Wholesale Marketing and Business Development, Pacific Gas & Electric

David Lewis is currently the Director – Wholesale Marketing & Business Development with Gas Operations for Pacific Gas and Electric (PG&E). In this role, David leads a team responsible for marketing the company's gas pipeline transportation and gas storage assets totaling more than \$1.0 billion per year in revenue. In addition, David's organization leads the process for interconnection of new projects to the gas transmission system.

Prior to his current role, David held a variety of positions as a Director in PG&E's Energy Procurement organization including leading commercial solicitations, transactions, strategy and policy efforts for both conventional and renewable electricity.

David has more than 20 years of energy industry experience including project finance, asset management, origination, power purchase agreement negotiation, project acquisition and business development across both conventional and renewable technologies. Prior to joining PG&E, he worked in the independent power industry for Calpine Corporation and for Third Planet Windpower, LLC. David has closed the project financing of more than \$ 7.0 billion in energy projects across the United States as well as negotiated a multitude of short and long-term power purchases agreements and project acquisitions.

David has a Bachelor of Arts in Economics from University of California – Los Angeles and a Masters of Business Administration from Santa Clara University.



**Kip Lipper**, Chief Policy Advisor, Energy, Natural Resources, and Environment, Office of CA Senate Pro Tempore Kevin de Leon

Kip Lipper is chief policy advisor on energy, natural resources, and the environment to California State Senate President pro Tempore Kevin De Leon (D-Los Angeles). Mr. Lipper has worked in the California Legislature for over 38 years under various senate and assembly members and as consultant for various committees.

Mr. Lipper has drafted and analyzed legislation on a broad array of environmental matters, including the state's landmark Renewable Portfolio Standard, energy conservation, electric vehicles, public interest energy research, and energy-agency reorganization and reforms.

Mr. Lipper was the lead Senate staffer on the drafting of AB 32, as well as on companion landmark legislation establishing the nation's first greenhouse gas emission performance standard for energy generation (SB 1368–Perata). He has been deeply involved in the implementation of GHG laws passed and enacted by the CA Legislature. His extensive experience in these matters has lead him to participate as a guest lecturer on environmental and energy legislation at the Stanford University Law School, Boalt Hall (UC Berkeley) Law School, King Hall (UC Davis) Law School, Loyola Law School (Los Angeles), UCSD, and at CA State University Sacramento.



**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). He is a leader in shaping California's efforts to further reduce greenhouse gas emissions, promote zero emission vehicles, and reduce emissions of methane and other short-lived climate pollutants.

Prior to his appointment at CARB by Governor Jerry Brown in 2011, McCarthy was a Science and Technology Policy Fellow in the office of California Assembly Member Wilmer Amina Carter. 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 of external affairs and environmental strategy for SoCalGas. He leads the company's public affairs, environmental and energy policy, community relations, and media and employee communications efforts.

Mr. Minter is a long-time public policy professional specializing in energy and environmental affairs, policy development, communications and political advocacy. Before re-joining SoCalGas in 2013, Mr. Minter was managing principal for L.A.-based public affairs firms Greer/Dailey/Minter and GM/Public Affairs. There he managed strategic communications programs and public policy initiatives to approve large land use and energy projects. Prior to that, he was the director of public affairs for SoCalGas.

Mr. Minter has served as a board member of numerous civic associations and community organizations, including the Central City Assoc., Valley Industry and Commerce Assoc., L.A. Family Housing Corp. (as board chair), Coro Foundation, Pat Brown Institute of Public Affairs at Cal-State L.A., Center for the Study of L.A. at Loyola Marymount University, Campaign to Clear the Air and the California League of Conservation Voters. He was one of the founders of the Business Council for Sustainable Energy, a federal energy trade association and of the California CCS Coalition, a statewide energy advocacy organization.

# SPEAKER BIOGRAPHIES



## **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. Owned by Centrica Plc (LON:CNA), a UK-based FTSE 100 global energy corporation, 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.

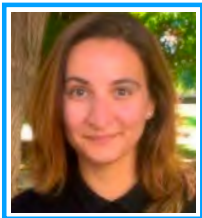
Well-regarded for his expertise in environmental commodities, Mittal is frequently invited as a guest speaker at leading industry events and conferences.



## **Jonathan Parfrey**, Executive Director, Climate Resolve

Before founding Climate Resolve, Jonathan Parfrey served as a commissioner at the Los Angeles Department of Water and Power (2008-2013). Mr. Parfrey is also the immediate past-president of the Los Angeles League of Conservation Voters. He is a founder and vice chair of CicLAvia, the popular street event, as well as the founder of the Los Angeles Regional Collaborative for Climate Action and Sustainability, and the statewide Alliance of Regional Collaboratives for Climate Adaptation. He served as director of the GREEN LA Coalition (2007-2011), and as the Los Angeles director of Nobel Peace Prize-winning organization Physicians for Social Responsibility (1994 to 2007).

Prior to that, Mr. Parfrey founded and directed the Orange County Catholic Worker (1987-1993). He was appointed to Governor Schwarzenegger's Environmental Policy Team in 2003. Mr. Parfrey received the Paul S. Delp Award for Outstanding Service, Peace and Social Justice (1992), and was awarded a Durfee Foundation Fellowship (2002), a Stanton Fellowship (2010), and was appointed a senior fellow at the USC Marshall School of Business (2011). He is currently a fellow at the Los Angeles Institute for the Humanities; a member of the State of California Climate Adaptation Technical Advisory Committee (2016); a member of the steering committee for the US Climate and Health Alliance (2016). In April 2016, he was received the Los Angeles County Board of Supervisors Chair's Green Leadership Award.



## **Jena Price**, Legislative Affairs Manager, California League of Conservation Voters

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.



## **Dwight Robinson**, Board Member, South Coast Air Quality Management District

Dwight Robinson is a native Californian and the oldest of seven children. He and his wife, Holly, were married in 1999 and immediately decided to make Lake Forest their home. They believed Lake Forest would be a perfect place to live and raise a family. Dwight and Holly are the proud parents of three children (Corinne, Luke, and baby Micah who was born Thanksgiving Day 2011).

Dwight has been very active in the Lake Forest community over the last decade. He is a Charter Member of the Lake Forest Chamber of Commerce, a Sunday School teacher and a Little League coach. Previously, Dwight was a board member at Grace Christian Schools, an elder in his church, and board member of the Kiwanis Club of Lake Forest. Dwight owns and operates a few businesses in California and also serves as the Managing Partner of a small business located in Lake Forest.



## **Greg Stangl**, Chief Executive Officer, Phoenix Energy

Greg Stangl has been working in the energy field since early 1999 when he led the buyout and subsequent turnaround of Energy Investors, the eventual parent of Phoenix Energy. Energy Investors was dedicated to improving air quality in Europe by replacing brown coal boiler plants. Developments in Europe led the business into the biomass gasification arena and in 2007, Phoenix Energy was spun out to focus exclusively on that market in the US. Prior to that, Mr. Stangl worked for several years as a venture capitalist based in Paris and Warsaw for Livingstone Capital Management and Copernicus Capital Management respectively. During his venture capital career Mr. Stangl served on the boards of several European companies.

Mr. Stangl holds an M.B.A, with honors, and a Masters' of International Affairs, with honors, both from Columbia University. Mr. Stangl is a native of the USA and speaks German and Polish fluently.



# SPEAKER BIOGRAPHIES



## **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). He 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.

Floyd has been at ARB for over 27 years developing regulations on transportation fuels, advanced clean cars, oceangoing vessels, and other mobile or stationary sources. He received his B.S. 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.



## **Ben Vitale**, Partner, Equilibrium

Ben Vitale is a Principal at Equilibrium, focusing on Equilibrium's water management and energy strategies. He is a Principal on Equilibrium's Wastewater Opportunity Fund (WOF). He is a member of the Wastewater Opportunity Fund's Investment Committee.

Ben has 27 years of technical and investment management experience in the wastewater, renewable energy, agriculture, forestry, technology and transportation sectors. He led portfolio development and investment decisions that established carbon assets valued over \$40 million in 14 countries. These assets generated over 10 million tons of emission reductions and conserved over 2.5 million acres. Recently, he provided asset management services and financing to 15 facilities in the wastewater sector located in several regions of the United States.

He serves as Board Treasurer and Member of the Executive Committee of Green Empowerment, and is an avid runner, bird watcher, scuba diver and hiker. Ben holds a M.M. from Northwestern University's Kellogg School of Management and a B.S. degree in Computer and Electrical Engineering from Purdue University.



## **Matt Vespa**, Staff Attorney, Earthjustice

Based out of San Francisco, Matt Vespa focuses on accelerating deployment of clean energy in California and avoiding new investments in fossil fuel infrastructure. Matt's areas of expertise include utility procurement, local reliability need, rooftop solar tariffs, rate design, energy storage, renewable integration, and decarbonization trajectories. Matt is a member of the Procurement Review Group ("PRG") of Southern California Edison.

Prior to joining Earthjustice, Matt spent over five years at the Sierra Club focusing on clean energy-related advocacy before the California Public Utilities Commission. Prior to the Sierra Club, Matt was a Senior Attorney at the Center for Biological Diversity where he developed the law and policy related to the analysis of greenhouse gas impacts under the California Environmental Quality Act ("CEQA"). Matt also served as a law clerk at the U.S. District Court, Eastern District of New York for the Honorable Nicholas G. Garaufis.

Matt was the recipient of the 2016 Environmental Leadership Award from the Ecology Law Quarterly at U.C. Berkeley School of Law.



## **Grant Zimmerman**, Chief Executive Officer, ampCNG

Grant Zimmerman has been chief executive officer of ampCNG since February 2016. He joined ampCNG as senior vice president of business development in February 2015. At ampCNG, he is responsible for developing and executing ampCNG's overall business strategy and operations, business development, and corporate development activities.

Mr. Zimmerman sits on ampCNG's board of directors. Prior to joining ampCNG, he was an associate principal in McKinsey and Company's Chicago office, where he served clients in the energy industry in strategy, operations, and corporate finance. Before McKinsey, he served in commercial and finance roles with Enron and the Enron bankruptcy estate. Mr. Zimmerman earned his MBA from the University of Chicago's Booth School of Business, graduating with high honors. He also holds an MPA and BBA, Honors from the University of Texas at Austin.



## **William Zobel**, Vice President: Business Development, Marketing & Customer Care, Trillium CNG

William (Bill) Zobel is Vice President of Business Development, Marketing & Customer Care for Trillium CNG. Trillium designs, builds and operates a network of compressed natural gas (CNG) refueling stations across the US. Mr. Zobel has almost 30 years of experience in the energy sector covering a wide range of issues and responsibilities. Prior to Trillium, Mr. Zobel managed the Sempra natural gas and electric vehicle clean transportation program, and managed environmental and climate change policy for Sempra Energy.

Mr. Zobel served as director of strategy and business analysis for BP North America where he helped develop BP's national presence following the merger of BP and ARCO. In 15 years with ARCO, Mr. Zobel successfully served in a variety of management positions where he was instrumental in developing and promoting landmark regulatory programs including RECLAIM, the nation's first multipollutant emissions trading program. Mr. Zobel serves on the board of Natural Gas Vehicles for America (NGVA), and the California Natural Gas Vehicle Coalition (CNGVC), which he chaired from 2007 to 2009.

Mr. Zobel holds a BS in chemical engineering from California State University, Long Beach, and is a graduate of Columbia University's executive business program.

# WORKING TOGETHER FOR A **RENEWABLE FUTURE**



SoCalGas® is proud to recognize **Rethink Methane** for taking the lead in decarbonizing pipeline gas to meet California's 2050 greenhouse gas reduction goal. Together, we are inspired to continue working toward a cleaner and greener environment. SoCalGas is proud to provide clean, safe and reliable energy and is committed to helping to create a renewable future for Southern California.



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# PARTNERS & SPONSORS



## American Gas Association

The American Gas Association (AGA) is committed to leveraging and utilizing America's abundant, domestic, affordable and clean natural gas to help meet the nation's energy and environmental needs. The American Gas Association (AGA) represents companies delivering natural gas safely, reliably, and in an environmentally responsible way to help improve the quality of life for their customers every day. AGA's mission is to provide clear value to its membership and serve as the indispensable, leading voice and facilitator on its behalf in promoting the safe, reliable, and efficient delivery of natural gas to homes and businesses across the nation.

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



## ampCNG

AMP Americas operates three business units: Renewable Dairy Fuels (RDF), ampRenew and ampCNG. RDF produces 100% renewable natural gas from dairy waste. RDF's anaerobic digester at Fair Oaks Farms in Indiana received the first dairy waste-to-vehicle fuel pathway certified by California's Air Resources Board (CARB). The project was also awarded a CI score of -254.94 gCO<sub>2</sub>e/MJ... the lowest ever issued by CARB. ampRenew sources renewable gas from RDF and third party RNG developers to supply fuel to fleet customers through both owned and contracted station infrastructure. A member of the Department of Energy's National Clean Fleets Partnership, ampCNG builds, owns and operates a growing network of CNG fueling stations for long-haul trucking fleets.

[www.ampcng.com](http://www.ampcng.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 is one of the world's leading integrated oil and gas companies. We provide customers with fuel for transportation, energy for heat and light, lubricants to keep engines moving, and the petrochemicals products used to make everyday items as diverse as paints, clothes and packaging.

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



## California Association of Sanitation Agencies

For over 60 years, CASA has been the leading voice for public wastewater agencies on regulatory, legislative and legal issues. We are an association of local agencies, engaged in advancing the recycling of wastewater into usable water, generation of renewable energy, and other valuable resources. Through these efforts we help create a clean and sustainable environment for Californians.

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



## California Hydrogen Business Council

California is where hydrogen gets down to business. And the California Hydrogen Business Council (CHBC) is the vital link between hydrogen-technology developers, businesses, energy leaders, government, and infrastructure providers. Its mission is to advance the commercialization of hydrogen in transportation and stationary sources to reduce emissions and dependence on oil.

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



## 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)



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CALIFORNIA  
NATURAL GAS VEHICLE  
PARTNERSHIP

## 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)



Clean Energy<sup>®</sup>  
RENEWABLES

## Clean Energy Renewables

Clean Energy Renewables, a wholly-owned subsidiary of Clean Energy, procures, markets and distributes Redeem, its branded Renewable Natural Gas (RNG) product. Redeem is a 100% renewable, low carbon transportation fuel created from the anaerobic digestion of organic waste and converted into pipeline quality CNG or LNG. Clean Energy Renewables delivered 60 million GGE of Redeem to its vehicle fueling customers in 2016. Clean Energy Renewables is a pioneer in the RNG industry, and has delivered the most RNG vehicle fuel in California to date. Clean Energy Renewables' landfill gas-to-pipeline projects were the first projects of their kind to be successfully registered with the EPA and to generate RINs under the RFS2.

[www.ruscom.com/cleanenergy/company/renewablefuels.html](http://www.ruscom.com/cleanenergy/company/renewablefuels.html)



Climate  
Resolve

## Climate Resolve

Climate Resolve is a Los Angeles-based nonprofit, founded in 2010, that is dedicated to creating real, practical solutions to meet the climate challenge while building a better city for Angelenos. With our work, we reduce greenhouse gas emissions; keep LA cool; find better ways to get around; share and contextualize climate science that affects Southern California; protect our land and resources — and connect with Angelenos, policy-makers, and other local leaders helping us with climate mitigation and adaptation efforts.

[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 March 7 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)

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## Greenlane Biogas

Greenlane Biogas is a leading global supplier of integrated full system solutions to upgrade biogas released from organic waste to biomethane, a renewable natural gas. The company offers modular upgrading systems to generate an energy source interchangeable with natural gas. With more than two decades of experience, Greenlane Biogas has installed more than 100 systems in North and South America, Europe, Asia and the Pacific. Greenlane is a wholly-owned subsidiary of Pressure Technologies plc, a UK based public company specializing in technology for the containment and control of liquids and gases in pressure systems.

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



## Pacific Gas and Electric Company

Pacific Gas and Electric Company, incorporated in California in 1905, is one of the largest combination natural gas and electric utilities in the United States. Based in San Francisco, the company is a subsidiary of PG&E Corporation. There are approximately 22,000 employees who carry out Pacific Gas and Electric Company's primary business—the transmission and delivery of energy. The company provides natural gas and electric service to approximately 16 million people throughout a 70,000-square-mile service area in northern and central California.

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



## Peterson CAT

Since 1936, Peterson has been northern California, Oregon, and southwest Washington's authorized Cat dealer. We are your source for Cat engines, including the industry's most advanced biogas, natural gas, and cogeneration products.

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



## Puregas Solutions

With more than 20 years' experience Puregas Solutions design and deliver biogas upgrading solutions using the unique CAPure process. Raw Biogas is upgraded to biomethane / Renewable Natural Gas for direct grid injection, compression for vehicle fueling or liquefied to provide bioLNG. Puregas Solutions works in partnership with our customers to ensure our fully integrated upgrading solutions provide the highest revenues possible and maximize returns.

[www.puregas-solutions.com](http://www.puregas-solutions.com)



## 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)



## 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)



## 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)

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## Trillium CNG, a Love's Company

Trillium CNG, part of the Love's Family of Companies, brings over two decades of compressed natural gas (CNG) expertise to serve Customers at more than 180 CNG facilities across the country. Trillium CNG specializes in designing, building, maintaining and operating CNG facilities for various types of professional fleets nationwide. Trillium CNG provides fuel for thousands of natural gas vehicles daily and delivers more than 70 million gallons of CNG per year. Combined, Love's Travel Stops and Trillium own 65 public-access CNG facilities.

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



## U.S. Gain Clean Fuels

U.S. Gain®, a division of U.S. Venture, Inc. is a leading compressed natural gas (CNG) and renewable natural gas (RNG) provider offering fleet operators access to GAIN® Clean Fuel, an environmentally-friendly and cost-effective alternative to diesel. GAIN Clean Fuel stations located throughout the United States and Canada feature easy-access for all natural gas vehicles, fast-fill capabilities, 99% site uptime and premium fuel quality – keeping your fleets moving. GAIN Clean Fuels will position you to take the lead in smart, sustainable transportation.

[www.usgain.com](http://www.usgain.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.ypenergy.org](http://www.ypenergy.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 20 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)