

The California Combined Heat and Power Symposium

FOR **FORWARD THINKING** INDUSTRY AND INSTITUTIONS

January 21, 2016

9:00 am – 4:00 pm | Registration 8:15 am

SoCalGas

Energy Resource Center
9240 Firestone Blvd.
Downey, CA 90241

The Path to Reliable Energy

Energy-thirsty facilities must consider alternative solutions to hedge input costs to remain competitive on the global scale. Migrating from an energy-consuming to an energy-producing facility or supplementing current needs from CHP can be a daunting undertaking. The Emerson Combined Heat and Power Symposium (CHP) brings together the ecosystem of stakeholders (government, utility, engineering consultant, equipment manufacturers and end users) to present and discuss essential elements of implementing an effective solution.

Who Should Attend

Those who manage industrial or institutional facilities with large power and thermal requirements. This symposium is designed for those who are looking to become more competitive, or create revenue through power generation.

These sessions will be of value to: Executive and Financial Officers, Sustainability Officers, Energy Managers, Plant and Operations Managers

SPACE IS LIMITED

RSVP by January 14 via [this link](#) or contact **Wilson Ma**
Tel: (416) 948-4093
Email: Wilson.Ma@Emerson.com



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TIME	SPEAKER / TOPIC	DETAILS
8:15 am	Registration	Gourmet coffee service provided.
9:00 am – 9:30 am	RYAN GARRAH <i>Business Leader, Emerson</i> The Building Blocks of CHP	California’s industrial electricity rate ranks as the most expensive in the continental United States. With increasing pressure on manufacturers to seek new sources of competitive advantage, unlocking lower input costs for power and steam represents a significant opportunity. Ryan will present an overview of the market landscape, discuss the key stakeholders of the CHP ecosystem, and highlight the value creating components of the CHP system.
	JOHN LARREA <i>Director, Government Affairs, California League of Food Processors</i> Accelerating an Industry’s Adoption of CHP	Food processors are an economic powerhouse in the state of California. CHP adoption aligns with the Association’s goals to grow and strengthen the industry while proactively meeting aggressive Climate change targets. John will speak to the broad steps that CLFP is taking to assist its membership in meeting the challenge; from increasing awareness, education, and helping its members along the CHP journey.
9:30 am – 10:00 am	GENE KOGAN <i>Director, Pacific Technical Assistance Partnership, U.S. Department of Energy</i> The Starting Point	The U.S. DOE Pacific Combined Heat and Power Technical Assistance Partnership helps regional businesses and communities reduce their energy costs, improve efficiency, and strengthen their energy resiliency and reliability through the use of combined heat and power. Gene will introduce Combined Heat & Power Technologies & Benefits, Case Studies, and describe Federally Funded Engineering Assistance programs available to end users.
10:00 am – 10:45 am	ROSIE MAGANA <i>Senior Project Manager, SoCalGas</i> Enhancing ROI Through Incentives	The Self-Generated Incentive Program (SGIP) provides cash incentives for the installation of clean and efficient distributed generation technologies that are installed on the customer’s side of the utility meter. SGIP is a ratepayer funded program that has incentivized CHP technologies since 2001 and is overseen by the California Public Utilities Commission (CPUC). Rosie will discuss program eligibility, requirements, and expectations during the application process. This session will also address the latest developments in policy and regulations.
	JIM KERRIGAN <i>Distributed Energy Resource Architect and Project Manager, SoCalGas</i> Facilitating CHP Adoption	The Distributed Energy Resource (DER) Tariff motivates end users to adopt combined heat and power systems in order to reduce operating costs, increase energy efficiency, and transition the State to a smarter grid. Jim will speak to the program architecture, and touch on integration requirements to allow for an efficient and cost effective deployment. Jim will also answer questions on the viability of DER for your business.
11:00 am – 11:30 am	GAREN DEMIRCHIAN, PE <i>Managing Partner, Vanderweil Power Group</i> Making the Case and Delivering the Project	<p>Developing the business case for CHP, executing the project, and ultimately, delivering the numbers behind the initiative is just some of the expertise that Vanderweil brings to a typical client. The process framework to achieving energy independence is designed to mitigate risk and ensure that the technology “delivers the proforma”.</p> <p>Garen will review Vanderweil’s process from feasibility and business case planning, to regulatory approvals, system design, project execution, and successful system start-up. Case studies on successful (and unsuccessful) CHP installations will be presented.</p>
11:30 am – 12:15 pm	DOUGLAS DITTBURNER <i>Chief Engineer, Campbell Company of Canada</i> A Live Case Study	<p>When your main business is making soup, transitioning from an energy consumer to an energy producer might seem to be beyond your scope.</p> <p>Douglas will share the Campbell Company’s two-decade long journey of successes and challenges as they went about implementing their CHP system (go live was December 2015). Douglas will also comment on his experiences and lessons learned from a business, regulatory, technical and cultural perspective.</p>

TIME	SPEAKER / TOPIC	DETAILS
12:15 pm – 1:15 pm	LUNCH	Lunch will be provided
1:15 pm – 3:00 pm	<p>SUSTAINABILITY SESSIONS Dollars and Sense: CAPEX, OPEX, and Important Considerations</p> <p>Interactive Sessions and other 20 minutes each, in rotation</p>	<p>Subject matter experts have been assembled to engage smaller groups on key insights related to typical CHP systems, and answer frequently asked questions. Attendees will be separated into 5 groups and rotate through each topic.</p> <ol style="list-style-type: none"> 1. Natural Gas Booster 2. Prime Mover (Turbine) 3. System Automation and Controls 4. Q&A: Selling your Project Internally 5. Q&A: Electrical Interconnect <p>Session 1 and 2 unpacks the ‘black box’ of the two most expensive pieces of equipment in a CHP system. Session 3 explores control system architectures, and the importance of integrating a CHP’s operations into your company’s existing controls strategy. Session 4 and 5 are back by popular demand – common threads of discussion for end users across North America, including questions on navigating and selling CHP internally, as well as budgeting and managing the physical and virtual interface between your plant and the grid.</p>
3:00 pm – 4:00 pm	Networking	Meet the Experts . Refreshments will be served.



The Venue

Less than 30 minutes from Los Angeles or the Los Angeles International airport, SoCalGas in Downey will host the CHP Symposium at their Energy Resource Center, located at 9240 Firestone Drive.



Parking: Complimentary

Lunch and Refreshments: Complimentary

Hotel: For those requiring accommodations, the Embassy Suites is located less than one mile from the venue and can be booked directly.

Featured Speakers

Gene Kogan

DIRECTOR, U.S. DEPARTMENT OF ENERGY PACIFIC CHP TAP

Gene works to provide Technical Assistance Partnership (CHP TAP) of federally funded engineering assistance for CHP projects. Gene coordinates with other CHP TAP directors across the United States, industry stakeholders, and customers with a focus on Combined Heat & Power (CHP), Waste Heat to Power (WHP), and District Energy (DE). Gene has had extensive experience in managing engineering operations and energy efficiency programs, and is a San Diego State University alumnus with degree in an electrical engineering.

Rosie Magana

SENIOR PROJECT MANAGER, SOCALGAS

Rosalinda Magana has worked at SoCalGas for over 21 years. She has held many leadership positions in energy efficiency, field operations, and commercial industrial departments. Currently, Rosie manages the Self Generation Incentive Program (SGIP), and Outreach and Growth Initiatives. As the Program Manager, she is responsible for all regulatory and legislative aspects of distributed generation and program implementation. Rosie has a B.Sc. degree in Business from the UADY, and a PMC from UCLA.

Jim Kerrigan

DER ARCHITECT AND PROGRAM MANAGER, SOCALGAS

Jim has worked in the market development group at SoCalGas for the past three years and was the primary architect for the DER tariff assisting with the business case, regulatory testimony, and launch plan. He is presently the Secretary of the CHP Association. Prior to joining SoCalGas, Jim served as a Captain in the United States Marine Corps and is an Operation Iraqi Freedom veteran. He has an MBA from University of California, San Diego, and a B.Sc. in Engineering Science with a concentration in Management of Technology from Vanderbilt University.

Garen Demirchian, PE

MANAGING PARTNER, VANDERWEIL ENGINEERS

Garen is a Managing Partner and the Sector Leader for Vanderweil's Power Group, the largest installer of solar turbines in the United States. His expertise covers a wide range of power generating plants, including: combined heat and power plants, central and district heating and cooling plants, control and instrumentation systems, campus distribution networks, energy conservation analysis, and thermal storage systems. His responsibilities include the management, engineering, coordination, and execution of all phases of design from concept through construction and startup. Garen is a Mechanical Engineering Graduate of Northeastern University and a licensed professional engineer in 18 states.

Douglas Dittburner, CEM, CET

CHIEF ENGINEER, CAMPBELL COMPANY OF CANADA

Prior to joining the Toronto plant at Campbell's Canada, Doug worked as managing Chief Engineer and Energy team leader for the Kraft Canada Cadbury plant. He has previously worked at Molson as Chief Engineer and at Unilever Americas as an Energy Conservation Specialist. Doug has worked at many Unilever plants completing audits, energy reduction projects, and starting up sustainable energy teams. Doug is presently the Chair of the Canadian CIPEC Food and Beverage Sector Task Force and the Vice Chair of the Task Force Council. His drive towards greater energy efficiency also extends to energy reduction programs and energy teams, which focus on increasing employee awareness and involvement in all phases of design from concept through construction and startup.

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CALIFORNIA LEAGUE OF FOOD PRODUCERS

CLFP is a not-for-profit trade association formed to provide legislative and regulatory representation for food processors with production facilities located in California.

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Solar Turbines is one of the world's largest manufacturers of industrial gas turbines. Their priority is to exceed customer needs globally while promoting environmental sustainability.